



ALFRED P. SLOAN FOUNDATION
INSTRUCTIONS FOR FILING
FORM 8879-EO
IRS E-FILE SIGNATURE AUTHORIZATION FOR FORM 990-PF
FOR THE YEAR ENDED DECEMBER 31, 2018

THE ORIGINAL IRS E-FILE SIGNATURE AUTHORIZATION FORM SHOULD BE SIGNED (USE FULL NAME) AND DATED BY AN AUTHORIZED OFFICER OF THE ORGANIZATION.

RETURN YOUR SIGNED IRS E-FILE SIGNATURE AUTHORIZATION FORM 8879-EO TO:

GRANT THORNTON LLP
757 THIRD AVENUE, 3RD FLOOR
NEW YORK NY 10017-2013

THERE IS NO TAX DUE WITH THE FILING OF THIS RETURN.

THE RETURN SHOWS A \$1,332,997 OVERPAYMENT. OF THIS AMOUNT, \$0 WILL BE REFUNDED TO YOU. ALSO, \$1,332,997 HAS BEEN APPLIED TO YOUR 2019 ESTIMATED TAX.

DO NOT SEPARATELY FILE FORM 990-PF WITH THE INTERNAL REVENUE SERVICE. DOING SO WILL DELAY THE PROCESSING OF YOUR RETURN. WE MUST RECEIVE YOUR SIGNED FORM BEFORE WE CAN ELECTRONICALLY TRANSMIT YOUR RETURN, WHICH IS DUE ON OR BEFORE NOVEMBER 15, 2019. WE WOULD APPRECIATE YOU RETURNING THIS FORM AS SOON AS POSSIBLE AS THIS WILL EXPEDITE THE PROCESSING OF YOUR RETURN. THE INTERNAL REVENUE SERVICE WILL NOTIFY US WHEN YOUR RETURN IS ACCEPTED. YOUR RETURN IS NOT CONSIDERED FILED UNTIL THE INTERNAL REVENUE SERVICE CONFIRMS THEIR ACCEPTANCE, WHICH MAY OCCUR AFTER THE DUE DATE OF YOUR RETURN.

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IRS e-file Signature Authorization for an Exempt Organization

For calendar year 2018, or fiscal year beginning _____, 2018, and ending _____, 20_____

Department of the Treasury
Internal Revenue Service

▶ **Do not send to the IRS. Keep for your records.**
▶ **Go to www.irs.gov/Form8879EO for the latest information.**

2018

Name of exempt organization ALFRED P. SLOAN FOUNDATION Employer identification number 13-1623877

Name and title of officer LEISLE LIN, SVP, FINANCE & OPS

Part I Type of Return and Return Information (Whole Dollars Only)

Check the box for the return for which you are using this Form 8879-EO and enter the applicable amount, if any, from the return. If you check the box on line 1a, 2a, 3a, 4a, or 5a, below, and the amount on that line for the return being filed with this form was blank, then leave line 1b, 2b, 3b, 4b, or 5b, whichever is applicable, blank (do not enter -0-). But, if you entered -0- on the return, then enter -0- on the applicable line below. **Do not** complete more than one line in Part I.

1a	Form 990 check here ▶	<input type="checkbox"/>	b	Total revenue, if any (Form 990, Part VIII, column (A), line 12) . . .	1b	_____
2a	Form 990-EZ check here ▶	<input type="checkbox"/>	b	Total revenue, if any (Form 990-EZ, line 9)	2b	_____
3a	Form 1120-POL check here ▶	<input type="checkbox"/>	b	Total tax (Form 1120-POL, line 22)	3b	_____
4a	Form 990-PF check here ▶	<input checked="" type="checkbox"/>	b	Tax based on investment income (Form 990-PF, Part VI, line 5).	4b	<u>2,319,578.</u>
5a	Form 8868 check here ▶	<input type="checkbox"/>	b	Balance Due (Form 8868, line 3c)	5b	_____

Part II Declaration and Signature Authorization of Officer

Under penalties of perjury, I declare that I am an officer of the above organization and that I have examined a copy of the organization's 2018 electronic return and accompanying schedules and statements and to the best of my knowledge and belief, they are true, correct, and complete. I further declare that the amount in Part I above is the amount shown on the copy of the organization's electronic return. I consent to allow my intermediate service provider, transmitter, or electronic return originator (ERO) to send the organization's return to the IRS and to receive from the IRS (a) an acknowledgement of receipt or reason for rejection of the transmission, (b) the reason for any delay in processing the return or refund, and (c) the date of any refund. If applicable, I authorize the U.S. Treasury and its designated Financial Agent to initiate an electronic funds withdrawal (direct debit) entry to the financial institution account indicated in the tax preparation software for payment of the organization's federal taxes owed on this return, and the financial institution to debit the entry to this account. To revoke a payment, I must contact the U.S. Treasury Financial Agent at 1-888-353-4537 no later than 2 business days prior to the payment (settlement) date. I also authorize the financial institutions involved in the processing of the electronic payment of taxes to receive confidential information necessary to answer inquiries and resolve issues related to the payment. I have selected a personal identification number (PIN) as my signature for the organization's electronic return and, if applicable, the organization's consent to electronic funds withdrawal.

Officer's PIN: check one box only

I authorize GRANT THORNTON LLP to enter my PIN 2 6 2 3 4 as my signature
ERO firm name Enter five numbers, but do not enter all zeros

on the organization's tax year 2018 electronically filed return. If I have indicated within this return that a copy of the return is being filed with a state agency(ies) regulating charities as part of the IRS Fed/State program, I also authorize the aforementioned ERO to enter my PIN on the return's disclosure consent screen.

As an officer of the organization, I will enter my PIN as my signature on the organization's tax year 2018 electronically filed return. If I have indicated within this return that a copy of the return is being filed with a state agency(ies) regulating charities as part of the IRS Fed/State program, I will enter my PIN on the return's disclosure consent screen.

Officer's signature ▶ _____ Date ▶ _____

Part III Certification and Authentication

ERO's EFIN/PIN. Enter your six-digit electronic filing identification number (EFIN) followed by your five-digit self-selected PIN. 2 6 3 7 7 5 3 6 6 0 5
Do not enter all zeros

I certify that the above numeric entry is my PIN, which is my signature on the 2018 electronically filed return for the organization indicated above. I confirm that I am submitting this return in accordance with the requirements of **Pub. 4163, Modernized e-File (MeF) Information for Authorized IRS e-file Providers for Business Returns.**

ERO's signature ▶ _____ Date ▶ _____

ERO Must Retain This Form - See Instructions
Do Not Submit This Form To the IRS Unless Requested To Do So

Department of the Treasury
Internal Revenue Service

or Section 4947(a)(1) Trust Treated as Private Foundation
▶ Do not enter social security numbers on this form as it may be made public.
▶ Go to www.irs.gov/Form990PF for instructions and the latest information.

2018

Open to Public Inspection

For calendar year **2018** or tax year beginning , **2018**, and ending , **20**

Name of foundation ALFRED P. SLOAN FOUNDATION		A Employer identification number 13-1623877											
Number and street (or P.O. box number if mail is not delivered to street address)	Room/suite	B Telephone number (see instructions) (212) 649-1649											
City or town, state or province, country, and ZIP or foreign postal code NEW YORK, NY 10111		C If exemption application is pending, check here. <input type="checkbox"/> D 1. Foreign organizations, check here. <input type="checkbox"/> 2. Foreign organizations meeting the 85% test, check here and attach computation <input type="checkbox"/> E If private foundation status was terminated under section 507(b)(1)(A), check here. <input type="checkbox"/> F If the foundation is in a 60-month termination under section 507(b)(1)(B), check here. <input type="checkbox"/>											
G Check all that apply: <table style="display: inline-table; vertical-align: top; margin-right: 10px;"> <tr><td><input type="checkbox"/></td><td>Initial return</td></tr> <tr><td><input type="checkbox"/></td><td>Final return</td></tr> <tr><td><input type="checkbox"/></td><td>Address change</td></tr> </table> <table style="display: inline-table; vertical-align: top;"> <tr><td><input type="checkbox"/></td><td>Initial return of a former public charity</td></tr> <tr><td><input type="checkbox"/></td><td>Amended return</td></tr> <tr><td><input type="checkbox"/></td><td>Name change</td></tr> </table>			<input type="checkbox"/>	Initial return	<input type="checkbox"/>	Final return	<input type="checkbox"/>	Address change	<input type="checkbox"/>	Initial return of a former public charity	<input type="checkbox"/>	Amended return	<input type="checkbox"/>
<input type="checkbox"/>	Initial return												
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<input type="checkbox"/>	Initial return of a former public charity												
<input type="checkbox"/>	Amended return												
<input type="checkbox"/>	Name change												
H Check type of organization: <input checked="" type="checkbox"/> Section 501(c)(3) exempt private foundation <input type="checkbox"/> Section 4947(a)(1) nonexempt charitable trust <input type="checkbox"/> Other taxable private foundation													
I Fair market value of all assets at end of year (from Part II, col. (c), line 16) ▶ \$ 1,754,284,643.		J Accounting method: <input type="checkbox"/> Cash <input checked="" type="checkbox"/> Accrual <input type="checkbox"/> Other (specify) _____ (Part I, column (d) must be on cash basis.)											

	(a) Revenue and expenses per books	(b) Net investment income	(c) Adjusted net income	(d) Disbursements for charitable purposes (cash basis only)
Revenue	1 Contributions, gifts, grants, etc., received (attach schedule)			
	2 Check <input checked="" type="checkbox"/> if the foundation is not required to attach Sch. B.			
	3 Interest on savings and temporary cash investments		4,778,822.	
	4 Dividends and interest from securities	8,704,661.	23,199,701.	
	5a Gross rents			
	b Net rental income or (loss) _____			
	6a Net gain or (loss) from sale of assets not on line 10	125,514,983.		
	b Gross sales price for all assets on line 6a 78,912,607.			
	7 Capital gain net income (from Part IV, line 2)		96,682,637.	
	8 Net short-term capital gain.			
	9 Income modifications			
	10a Gross sales less returns and allowances			
b Less: Cost of goods sold				
c Gross profit or (loss) (attach schedule)				
11 Other income (attach schedule) <u>ATCH 1</u>	1,347,958.	13,531,495.		
12 Total. Add lines 1 through 11	135,567,602.	138,192,655.		
Operating and Administrative Expenses	13 Compensation of officers, directors, trustees, etc.	4,732,050.	1,775,716.	2,665,897.
	14 Other employee salaries and wages	4,407,232.	1,126,204.	3,269,652.
	15 Pension plans, employee benefits	3,310,245.	417,013.	2,090,469.
	16a Legal fees (attach schedule) <u>ATCH 2</u>	388,270.	301,630.	86,640.
	b Accounting fees (attach schedule) <u>ATCH 3</u>	146,011.	23,831.	70,380.
	c Other professional fees (attach schedule) <u>[4]</u>	5,241,187.	4,465,850.	730,227.
	17 Interest			
	18 Taxes (attach schedule) (see instructions) <u>[5]</u>		988,925.	
	19 Depreciation (attach schedule) and depletion			
	20 Occupancy	1,897,188.	302,938.	1,591,190.
	21 Travel, conferences, and meetings	601,922.	102,588.	499,334.
	22 Printing and publications	59,355.	3,389.	55,966.
	23 Other expenses (attach schedule) <u>ATCH 6</u>	1,605,932.	12,705,696.	1,179,302.
	24 Total operating and administrative expenses. Add lines 13 through 23.	22,389,392.	22,213,780.	12,239,057.
	25 Contributions, gifts, grants paid	84,041,417.		80,357,657.
26 Total expenses and disbursements. Add lines 24 and 25	106,430,809.	22,213,780.	0.	
27 Subtract line 26 from line 12:				
a Excess of revenue over expenses and disbursements	29,136,793.			
b Net investment income (if negative, enter -0-)		115,978,875.		
c Adjusted net income (if negative, enter -0-)				

Part II Balance Sheets		Attached schedules and amounts in the description column should be for end-of-year amounts only. (See instructions.)			
		Beginning of year	End of year		
		(a) Book Value	(b) Book Value	(c) Fair Market Value	
Assets	1	Cash - non-interest-bearing	1,563,174.	1,554,235.	1,554,235.
	2	Savings and temporary cash investments			
	3	Accounts receivable ▶ 24,232,502.			
		Less: allowance for doubtful accounts ▶	46,433,963.	24,232,502.	24,232,502.
	4	Pledges receivable ▶			
		Less: allowance for doubtful accounts ▶			
	5	Grants receivable			
	6	Receivables due from officers, directors, trustees, and other disqualified persons (attach schedule) (see instructions)			
	7	Other notes and loans receivable (attach schedule) ▶			
		Less: allowance for doubtful accounts ▶			
	8	Inventories for sale or use			
	9	Prepaid expenses and deferred charges			
	10a	Investments - U.S. and state government obligations (attach schedule) [7]	24,080,791.	19,706,744.	19,706,744.
	b	Investments - corporate stock (attach schedule) ATCH 8	95,433,925.	46,427,936.	46,427,936.
	c	Investments - corporate bonds (attach schedule) ATCH 9	172,086,786.	176,840,197.	176,840,197.
	11	Investments - land, buildings, and equipment: basis ▶ Less: accumulated depreciation (attach schedule) ▶			
12	Investments - mortgage loans				
13	Investments - other (attach schedule) ATCH 10	1,569,617,263.	1,485,523,029.	1,485,523,029.	
14	Land, buildings, and equipment: basis ▶ Less: accumulated depreciation (attach schedule) ▶				
15	Other assets (describe ▶)				
16	Total assets (to be completed by all filers - see the instructions. Also, see page 1, item I)	1,909,215,902.	1,754,284,643.	1,754,284,643.	
Liabilities	17	Accounts payable and accrued expenses	20,174,062.	18,247,481.	
	18	Grants payable	68,385,938.	71,847,209.	
	19	Deferred revenue			
	20	Loans from officers, directors, trustees, and other disqualified persons . .			
	21	Mortgages and other notes payable (attach schedule)			
	22	Other liabilities (describe ▶ ATCH 11)	1,573,500.	1,391,126.	
23	Total liabilities (add lines 17 through 22)	90,133,500.	91,485,816.		
Net Assets or Fund Balances	Foundations that follow SFAS 117, check here ▶ <input checked="" type="checkbox"/> X and complete lines 24 through 26, and lines 30 and 31.				
	24	Unrestricted	1,819,082,402.	1,662,798,827.	
	25	Temporarily restricted			
	26	Permanently restricted			
	Foundations that do not follow SFAS 117, check here ▶ <input type="checkbox"/> and complete lines 27 through 31.				
	27	Capital stock, trust principal, or current funds			
	28	Paid-in or capital surplus, or land, bldg., and equipment fund			
	29	Retained earnings, accumulated income, endowment, or other funds . .			
	30	Total net assets or fund balances (see instructions)	1,819,082,402.	1,662,798,827.	
31	Total liabilities and net assets/fund balances (see instructions)	1,909,215,902.	1,754,284,643.		

Part III Analysis of Changes in Net Assets or Fund Balances		
1	Total net assets or fund balances at beginning of year - Part II, column (a), line 30 (must agree with end-of-year figure reported on prior year's return)	1 1,819,082,402.
2	Enter amount from Part I, line 27a	2 29,136,793.
3	Other increases not included in line 2 (itemize) ▶ ATCH 12	3 4,239,369.
4	Add lines 1, 2, and 3	4 1,852,458,564.
5	Decreases not included in line 2 (itemize) ▶ ATCH 13	5 189,659,737.
6	Total net assets or fund balances at end of year (line 4 minus line 5) - Part II, column (b), line 30	6 1,662,798,827.

Part IV Capital Gains and Losses for Tax on Investment Income

(a) List and describe the kind(s) of property sold (for example, real estate, 2-story brick warehouse; or common stock, 200 shs. MLC Co.)		(b) How acquired P - Purchase D - Donation	(c) Date acquired (mo., day, yr.)	(d) Date sold (mo., day, yr.)
1 a SEE PART IV SCHEDULE				
b				
c				
d				
e				
(e) Gross sales price	(f) Depreciation allowed (or allowable)	(g) Cost or other basis plus expense of sale	(h) Gain or (loss) ((e) plus (f) minus (g))	
a				
b				
c				
d				
e				
Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69.				(i) Gains (Col. (h) gain minus col. (k), but not less than -0-) or Losses (from col. (h))
(i) FMV as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col. (i) over col. (j), if any		
a				
b				
c				
d				
e				
2	Capital gain net income or (net capital loss) $\left\{ \begin{array}{l} \text{If gain, also enter in Part I, line 7} \\ \text{If (loss), enter -0- in Part I, line 7} \end{array} \right\}$		2	96,682,637.
3	Net short-term capital gain or (loss) as defined in sections 1222(5) and (6): If gain, also enter in Part I, line 8, column (c). See instructions. If (loss), enter -0- in Part I, line 8	$\left\{ \begin{array}{l} \text{If gain, also enter in Part I, line 8, column (c). See instructions.} \\ \text{If (loss), enter -0- in Part I, line 8} \end{array} \right\}$	3	0.

Part V Qualification Under Section 4940(e) for Reduced Tax on Net Investment Income

(For optional use by domestic private foundations subject to the section 4940(a) tax on net investment income.)

If section 4940(d)(2) applies, leave this part blank.

Was the foundation liable for the section 4942 tax on the distributable amount of any year in the base period? Yes No
 If "Yes," the foundation doesn't qualify under section 4940(e). Do not complete this part.

1 Enter the appropriate amount in each column for each year; see the instructions before making any entries.

(a) Base period years Calendar year (or tax year beginning in)	(b) Adjusted qualifying distributions	(c) Net value of noncharitable-use assets	(d) Distribution ratio (col. (b) divided by col. (c))
2017	95,502,213.	1,812,003,176.	0.052705
2016	85,671,935.	1,750,115,826.	0.048952
2015	89,616,763.	1,840,922,500.	0.048680
2014	94,378,629.	1,884,643,019.	0.050078
2013	89,578,470.	1,784,136,146.	0.050208
2	Total of line 1, column (d)		2 0.250623
3	Average distribution ratio for the 5-year base period - divide the total on line 2 by 5.0, or by the number of years the foundation has been in existence if less than 5 years		3 0.050125
4	Enter the net value of noncharitable-use assets for 2018 from Part X, line 5		4 1,854,736,044.
5	Multiply line 4 by line 3.		5 92,968,644.
6	Enter 1% of net investment income (1% of Part I, line 27b).		6 1,159,789.
7	Add lines 5 and 6.		7 94,128,433.
8	Enter qualifying distributions from Part XII, line 4. If line 8 is equal to or greater than line 7, check the box in Part VI, line 1b, and complete that part using a 1% tax rate. See the Part VI instructions.		8 92,596,714.

Part VI Excise Tax Based on Investment Income (Section 4940(a), 4940(b), 4940(e), or 4948 - see instructions)

Table with 11 rows for excise tax calculations. Includes fields for exempt foundations, domestic foundations, tax under section 511, add lines 1 and 2, subtitle A tax, tax based on investment income, credits/payments, total credits, penalty, tax due, overpayment, and amount of line 10 to be credited to 2019 estimated tax.

Part VII-A Statements Regarding Activities

Table with 10 rows for activity statements. Includes questions about influencing legislation, political purposes, Form 1120-POL filing, political expenditures, reimbursement, IRS reporting, changes in governing instruments, unrelated business income, liquidation, section 508(e) requirements, assets, states reported to, Form 990-PF distribution, private operating foundation status, and substantial contributors.

Part VII-A Statements Regarding Activities (continued)

Table with 3 columns: Question, Yes, No. Rows 11-16 containing questions about controlled entities, distributions, public inspection requirements, and foreign country interests.

Part VII-B Statements Regarding Activities for Which Form 4720 May Be Required

File Form 4720 if any item is checked in the "Yes" column, unless an exception applies.

Table with 3 columns: Question, Yes, No. Rows 1a-4b containing questions about disqualifying acts, taxes on failure to distribute income, and business enterprise interests.

Part VII-B Statements Regarding Activities for Which Form 4720 May Be Required (continued)

5a During the year, did the foundation pay or incur any amount to:
(1) Carry on propaganda, or otherwise attempt to influence legislation (section 4945(e))?. Yes No
(2) Influence the outcome of any specific public election (see section 4955); or to carry on, directly or indirectly, any voter registration drive?. Yes No
(3) Provide a grant to an individual for travel, study, or other similar purposes? Yes No
(4) Provide a grant to an organization other than a charitable, etc., organization described in section 4945(d)(4)(A)? See instructions Yes No
(5) Provide for any purpose other than religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals? Yes No
b If any answer is "Yes" to 5a(1)-(5), did any of the transactions fail to qualify under the exceptions described in Regulations section 53.4945 or in a current notice regarding disaster assistance? See instructions. 5b Yes No
Organizations relying on a current notice regarding disaster assistance, check here
c If the answer is "Yes" to question 5a(4), does the foundation claim exemption from the tax because it maintained expenditure responsibility for the grant? Yes No
If "Yes," attach the statement required by Regulations section 53.4945-5(d). ATCH 16
6a Did the foundation, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract? Yes No
b Did the foundation, during the year, pay premiums, directly or indirectly, on a personal benefit contract? 6b Yes No
If "Yes" to 6b, file Form 8870.
7a At any time during the tax year, was the foundation a party to a prohibited tax shelter transaction? Yes No
b If "Yes," did the foundation receive any proceeds or have any net income attributable to the transaction? 7b Yes No
8 Is the foundation subject to the section 4960 tax on payment(s) of more than \$1,000,000 in remuneration or excess parachute payment(s) during the year? Yes No

Part VIII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors

1 List all officers, directors, trustees, and foundation managers and their compensation. See instructions.

Table with 5 columns: (a) Name and address, (b) Title, and average hours per week devoted to position, (c) Compensation (if not paid, enter -0-), (d) Contributions to employee benefit plans and deferred compensation, (e) Expense account, other allowances. Row 1: ATCH 17, 4,459,550, 388,259, 0.

2 Compensation of five highest-paid employees (other than those included on line 1 - see instructions). If none, enter "NONE."

Table with 5 columns: (a) Name and address of each employee paid more than \$50,000, (b) Title, and average hours per week devoted to position, (c) Compensation, (d) Contributions to employee benefit plans and deferred compensation, (e) Expense account, other allowances. Row 1: ATCH 18, 2,237,912, 385,792, 0.

Total number of other employees paid over \$50,000. 23

Part VIII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors (continued)

3 Five highest-paid independent contractors for professional services. See instructions. If none, enter "NONE."

(a) Name and address of each person paid more than \$50,000	(b) Type of service	(c) Compensation
ATCH 19		4,148,185.
Total number of others receiving over \$50,000 for professional services		13

Part IX-A Summary of Direct Charitable Activities

List the foundation's four largest direct charitable activities during the tax year. Include relevant statistical information such as the number of organizations and other beneficiaries served, conferences convened, research papers produced, etc.

	Expenses
1 PUBLIC DISSEMINATION AND TECHNICAL ASSISTANCE OF AWARDS SEE GENERAL EXPLANATION FOR ADDITIONAL INFORMATION	331,540.
2 SUPPORT PUBLIC CHARITABLE BOARD AND COMMITTEE SERVICE SEE GENERAL EXPLANATION FOR ADDITIONAL INFORMATION	191,452.
3 EDUCATIONAL CONFERENCES AND SEMINARS SEE GENERAL EXPLANATION FOR ADDITIONAL INFORMATION	191,321.
4	

Part IX-B Summary of Program-Related Investments (see instructions)

Describe the two largest program-related investments made by the foundation during the tax year on lines 1 and 2.

	Amount
1 NONE	
2	
All other program-related investments. See instructions.	
3 NONE	
Total. Add lines 1 through 3	

Part X Minimum Investment Return (All domestic foundations must complete this part. Foreign foundations, see instructions.)

1	Fair market value of assets not used (or held for use) directly in carrying out charitable, etc., purposes:		
a	Average monthly fair market value of securities	1a	1,881,354,207.
b	Average of monthly cash balances	1b	1,626,548.
c	Fair market value of all other assets (see instructions).	1c	
d	Total (add lines 1a, b, and c)	1d	1,882,980,755.
e	Reduction claimed for blockage or other factors reported on lines 1a and 1c (attach detailed explanation)	1e	
2	Acquisition indebtedness applicable to line 1 assets	2	
3	Subtract line 2 from line 1d.	3	1,882,980,755.
4	Cash deemed held for charitable activities. Enter 1 1/2% of line 3 (for greater amount, see instructions).	4	28,244,711.
5	Net value of noncharitable-use assets. Subtract line 4 from line 3. Enter here and on Part V, line 4	5	1,854,736,044.
6	Minimum investment return. Enter 5% of line 5	6	92,736,802.

Part XI Distributable Amount (see instructions) (Section 4942(j)(3) and (j)(5) private operating foundations and certain foreign organizations, check here and do not complete this part.)

1	Minimum investment return from Part X, line 6	1	92,736,802.
2a	Tax on investment income for 2018 from Part VI, line 5	2a	2,319,578.
b	Income tax for 2018. (This does not include the tax from Part VI.)	2b	
c	Add lines 2a and 2b.	2c	2,319,578.
3	Distributable amount before adjustments. Subtract line 2c from line 1.	3	90,417,224.
4	Recoveries of amounts treated as qualifying distributions.	4	1,343,948.
5	Add lines 3 and 4	5	91,761,172.
6	Deduction from distributable amount (see instructions).	6	
7	Distributable amount as adjusted. Subtract line 6 from line 5. Enter here and on Part XIII, line 1.	7	91,761,172.

Part XII Qualifying Distributions (see instructions)

1	Amounts paid (including administrative expenses) to accomplish charitable, etc., purposes:		
a	Expenses, contributions, gifts, etc. - total from Part I, column (d), line 26.	1a	92,596,714.
b	Program-related investments - total from Part IX-B.	1b	
2	Amounts paid to acquire assets used (or held for use) directly in carrying out charitable, etc., purposes.	2	
3	Amounts set aside for specific charitable projects that satisfy the:		
a	Suitability test (prior IRS approval required)	3a	
b	Cash distribution test (attach the required schedule)	3b	
4	Qualifying distributions. Add lines 1a through 3b. Enter here and on Part V, line 8; and Part XIII, line 4	4	92,596,714.
5	Foundations that qualify under section 4940(e) for the reduced rate of tax on net investment income. Enter 1% of Part I, line 27b. See instructions.	5	0.
6	Adjusted qualifying distributions. Subtract line 5 from line 4	6	92,596,714.

Note: The amount on line 6 will be used in Part V, column (b), in subsequent years when calculating whether the foundation qualifies for the section 4940(e) reduction of tax in those years.

Part XIII Undistributed Income (see instructions)

	(a) Corpus	(b) Years prior to 2017	(c) 2017	(d) 2018
1 Distributable amount for 2018 from Part XI, line 7				91,761,172.
2 Undistributed income, if any, as of the end of 2018:				
a Enter amount for 2017 only.			22,661,709.	
b Total for prior years: 20 <u>16</u> , 20 <u>15</u> , 20 <u>14</u>				
3 Excess distributions carryover, if any, to 2018:				
a From 2013				
b From 2014				
c From 2015				
d From 2016				
e From 2017				
f Total of lines 3a through e	0.			
4 Qualifying distributions for 2018 from Part XII, line 4: ▶ \$ <u>92,596,714.</u>				
a Applied to 2017, but not more than line 2a			22,661,709.	
b Applied to undistributed income of prior years (Election required - see instructions).				
c Treated as distributions out of corpus (Election required - see instructions)				
d Applied to 2018 distributable amount.				69,935,005.
e Remaining amount distributed out of corpus.				
5 Excess distributions carryover applied to 2018 (If an amount appears in column (d), the same amount must be shown in column (a).)				
6 Enter the net total of each column as indicated below:				
a Corpus. Add lines 3f, 4c, and 4e. Subtract line 5				
b Prior years' undistributed income. Subtract line 4b from line 2b.				
c Enter the amount of prior years' undistributed income for which a notice of deficiency has been issued, or on which the section 4942(a) tax has been previously assessed				
d Subtract line 6c from line 6b. Taxable amount - see instructions				
e Undistributed income for 2017. Subtract line 4a from line 2a. Taxable amount - see instructions				
f Undistributed income for 2018. Subtract lines 4d and 5 from line 1. This amount must be distributed in 2019.				21,826,167.
7 Amounts treated as distributions out of corpus to satisfy requirements imposed by section 170(b)(1)(F) or 4942(g)(3) (Election may be required - see instructions)				
8 Excess distributions carryover from 2013 not applied on line 5 or line 7 (see instructions)				
9 Excess distributions carryover to 2019. Subtract lines 7 and 8 from line 6a	0.			
10 Analysis of line 9:				
a Excess from 2014				
b Excess from 2015				
c Excess from 2016				
d Excess from 2017				
e Excess from 2018				

Part XIV Private Operating Foundations (see instructions and Part VII-A, question 9)

NOT APPLICABLE

1 a If the foundation has received a ruling or determination letter that it is a private operating foundation, and the ruling is effective for 2018, enter the date of the ruling ▶

b Check box to indicate whether the foundation is a private operating foundation described in section 4942(j)(3) or 4942(j)(5)

2 a Enter the lesser of the adjusted net income from Part I or the minimum investment return from Part X for each year listed

	Tax year	Prior 3 years			(e) Total
	(a) 2018	(b) 2017	(c) 2016	(d) 2015	
b 85% of line 2a					
c Qualifying distributions from Part XII, line 4 for each year listed					
d Amounts included in line 2c not used directly for active conduct of exempt activities					
e Qualifying distributions made directly for active conduct of exempt activities. Subtract line 2d from line 2c					
3 Complete 3a, b, or c for the alternative test relied upon:					
a "Assets" alternative test - enter:					
(1) Value of all assets					
(2) Value of assets qualifying under section 4942(j)(3)(B)(i)					
b "Endowment" alternative test - enter 2/3 of minimum investment return shown in Part X, line 6 for each year listed					
c "Support" alternative test - enter:					
(1) Total support other than gross investment income (interest, dividends, rents, payments on securities loans (section 512(a)(5)), or royalties)					
(2) Support from general public and 5 or more exempt organizations as provided in section 4942(j)(3)(B)(iii)					
(3) Largest amount of support from an exempt organization					
(4) Gross investment income					

Part XV Supplementary Information (Complete this part only if the foundation had \$5,000 or more in assets at any time during the year - see instructions.)

1 Information Regarding Foundation Managers:

a List any managers of the foundation who have contributed more than 2% of the total contributions received by the foundation before the close of any tax year (but only if they have contributed more than \$5,000). (See section 507(d)(2).)

N/A

b List any managers of the foundation who own 10% or more of the stock of a corporation (or an equally large portion of the ownership of a partnership or other entity) of which the foundation has a 10% or greater interest.

N/A

2 Information Regarding Contribution, Grant, Gift, Loan, Scholarship, etc., Programs:

Check here if the foundation only makes contributions to preselected charitable organizations and does not accept unsolicited requests for funds. If the foundation makes gifts, grants, etc., to individuals or organizations under other conditions, complete items 2a, b, c, and d. See instructions.

a The name, address, and telephone number or email address of the person to whom applications should be addressed:

ATCH 20

b The form in which applications should be submitted and information and materials they should include:

c Any submission deadlines:

d Any restrictions or limitations on awards, such as by geographical areas, charitable fields, kinds of institutions, or other factors:

Part XV Supplementary Information *(continued)*

3 Grants and Contributions Paid During the Year or Approved for Future Payment

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
a Paid during the year				
ATCH 21				
Total				▶ 3a 80,357,656.
b Approved for future payment				
ATCH 22				
Total				▶ 3b 62,964,846.

Part XVI-A Analysis of Income-Producing Activities

Enter gross amounts unless otherwise indicated.

Table with 5 columns: (a) Business code, (b) Amount, (c) Exclusion code, (d) Amount, (e) Related or exempt function income. Rows include Program service revenue, Membership dues, Interest on savings, Dividends, Net rental income, and Subtotal.

Part XVI-B Relationship of Activities to the Accomplishment of Exempt Purposes

Table with 2 columns: Line No., Explain below how each activity for which income is reported in column (e) of Part XVI-A contributed importantly to the accomplishment of the foundation's exempt purposes.

Part XVII Information Regarding Transfers to and Transactions and Relationships With Noncharitable Exempt Organizations

- 1 Did the organization directly or indirectly engage in any of the following with any other organization described in section 501(c) (other than section 501(c)(3) organizations) or in section 527, relating to political organizations?
a Transfers from the reporting foundation to a noncharitable exempt organization of:
(1) Cash
(2) Other assets
b Other transactions:
(1) Sales of assets to a noncharitable exempt organization
(2) Purchases of assets from a noncharitable exempt organization
(3) Rental of facilities, equipment, or other assets
(4) Reimbursement arrangements
(5) Loans or loan guarantees
(6) Performance of services or membership or fundraising solicitations
c Sharing of facilities, equipment, mailing lists, other assets, or paid employees
d If the answer to any of the above is "Yes," complete the following schedule. Column (b) should always show the fair market value of the goods, other assets, or services given by the reporting foundation.

Table with 4 columns: (a) Line no., (b) Amount involved, (c) Name of noncharitable exempt organization, (d) Description of transfers, transactions, and sharing arrangements. Row 1A(1) shows 10,000 for ASS. FOR ENERGY ECO. with description PHD DAY EVENT FOR GRAD STUDENT.

2a Is the foundation directly or indirectly affiliated with, or related to, one or more tax-exempt organizations described in section 501(c) (other than section 501(c)(3)) or in section 527? Yes No

b If "Yes," complete the following schedule.

Table with 3 columns: (a) Name of organization, (b) Type of organization, (c) Description of relationship.

Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. Declaration of preparer (other than taxpayer) is based on all information of which preparer has any knowledge.

Sign Here: Signature of officer or trustee, Date, Title (SVP, FINANCE & OPS). May the IRS discuss this return with the preparer shown below? Yes No

Paid Preparer Use Only: Print/Type preparer's name (DANIEL ROMANO), Preparer's signature, Date, Check self-employed if PTIN (P00504182), Firm's name (GRANT THORNTON LLP), Firm's EIN (36-6055558), Firm's address (757 THIRD AVENUE, 3RD FLOOR NEW YORK, NY), Phone no. (212-599-0100).

**FORM 990-PF - PART IV
CAPITAL GAINS AND LOSSES FOR TAX ON INVESTMENT INCOME**

Kind of Property		Description				P or D	Date acquired	Date sold
Gross sale price less expenses of sale	Depreciation allowed/ allowable	Cost or other basis	FMV as of 12/31/69	Adj. basis as of 12/31/69	Excess of FMV over adj basis		Gain or (loss)	
		ST GAIN/LOSS FROM LPS				P	VAR -2688535.	VAR
		LT GAIN/LOSS FROM LPS PROPERTY TYPE: SECURITIES				P	VAR 63717076.	VAR
		1231 GAIN FROM LPS PROPERTY TYPE: SECURITIES				P	VAR 127,001.	VAR
		PRIMARY CASH PROPERTY TYPE: SECURITIES				P	VAR -19,937.	VAR
		PZENA INVESTMENT PROPERTY TYPE: SECURITIES				P	VAR 9,313,197.	VAR
		INTERIM EQUITY EXP PROPERTY TYPE: SECURITIES				P	VAR 3,219,423.	VAR
		RGM CAPITAL PROPERTY TYPE: SECURITIES				P	VAR 7,283,247.	VAR
		NOKOMIS CAPITAL PROPERTY TYPE: SECURITIES				P	VAR -189,226.	VAR
		RAGING CAPITAL PROPERTY TYPE: SECURITIES				P	VAR -142,737.	VAR
		MAPLE ROCK PROPERTY TYPE: SECURITIES				P	VAR 1,020,195.	VAR
		VARDEN PACIFIC PROPERTY TYPE: SECURITIES				P	VAR 4,136,863.	VAR
		TALAMOD ASSET MGMT PROPERTY TYPE: SECURITIES				P	VAR 7,299,237.	VAR

**FORM 990-PF - PART IV
CAPITAL GAINS AND LOSSES FOR TAX ON INVESTMENT INCOME**

Kind of Property		Description				P or D	Date acquired	Date sold
Gross sale price less expenses of sale	Depreciation allowed/ allowable	Cost or other basis	FMV as of 12/31/69	Adj. basis as of 12/31/69	Excess of FMV over adj basis		Gain or (loss)	
		BRACEBRIDGE CAP PROPERTY TYPE: SECURITIES				P	VAR 568,096.	VAR
		STONE MILLINER PROPERTY TYPE: SECURITIES				P	VAR -418,078.	VAR
		GLENHILL CAPITAL PROPERTY TYPE: SECURITIES				P	VAR 4,049,495.	VAR
		GRAHAM CAPITAL PROPERTY TYPE: SECURITIES				P	VAR -1018871.	VAR
		TPG PUBLIC EQUITY PROPERTY TYPE: SECURITIES				P	VAR 322,728.	VAR
		PARAMETRIC FIXED INC PROPERTY TYPE: SECURITIES				P	VAR -792,586.	VAR
		AKO GLOBAL FUND PROPERTY TYPE: SECURITIES				P	VAR 1,723,203.	VAR
		L CATTERTON EUROPE PROPERTY TYPE: SECURITIES				P	VAR -1,493.	VAR
		ACWI INTERIM EQUITY PROPERTY TYPE: SECURITIES				P	VAR -683,862.	VAR
		CLIFTON GROUP PROPERTY TYPE: SECURITIES				P	VAR -266,536.	VAR
		LUBERT ADLER VI PROPERTY TYPE: SECURITIES				P	VAR -424,633.	VAR
		LUBERT ADLER VI-A PROPERTY TYPE: SECURITIES				P	VAR 418,307.	VAR

**FORM 990-PF - PART IV
CAPITAL GAINS AND LOSSES FOR TAX ON INVESTMENT INCOME**

Kind of Property		Description				P or D	Date acquired	Date sold
Gross sale price less expenses of sale	Depreciation allowed/ allowable	Cost or other basis	FMV as of 12/31/69	Adj. basis as of 12/31/69	Excess of FMV over adj basis		Gain or (loss)	
		QIMING VENTURE I PROPERTY TYPE: SECURITIES				P	VAR 663,030.	VAR
		KPCB CHINA PROPERTY TYPE: SECURITIES				P	VAR 8,331,097.	VAR
		INVENTION DEVELOP I PROPERTY TYPE: SECURITIES				P	VAR -11310275.	VAR
		KEYTONE VENTURES PROPERTY TYPE: SECURITIES				P	VAR -1054622.	VAR
		KEYTONE VENTURES II PROPERTY TYPE: SECURITIES				P	VAR -508,949.	VAR
		ORCHID ASIA IV PROPERTY TYPE: SECURITIES				P	VAR 5,682,964.	VAR
		TELEGRAPH HILL II PROPERTY TYPE: SECURITIES				P	VAR 642,809.	VAR
		GENERAL CATALYST IV PROPERTY TYPE: SECURITIES				P	VAR 2,248,838.	VAR
		BLUE RIVER CAPITAL I PROPERTY TYPE: SECURITIES				P	VAR -2903130.	VAR
		LONGREACH CAPITAL I PROPERTY TYPE: SECURITIES				P	VAR -3257412.	VAR
		RESOURCE CAPITAL IV PROPERTY TYPE: SECURITIES				P	VAR 1,583,799.	VAR
		NEW MARGIN GROWTH PROPERTY TYPE: SECURITIES				P	VAR -4783323.	VAR

**FORM 990-PF - PART IV
CAPITAL GAINS AND LOSSES FOR TAX ON INVESTMENT INCOME**

Kind of Property		Description				P or D	Date acquired	Date sold
Gross sale price less expenses of sale	Depreciation allowed/ allowable	Cost or other basis	FMV as of 12/31/69	Adj. basis as of 12/31/69	Excess of FMV over adj basis		Gain or (loss)	
		BAIN BROOKSIDE CAP PROPERTY TYPE: SECURITIES				P	VAR 293,971.	VAR
		AG SUPERFUND PROPERTY TYPE: SECURITIES				P	VAR 19,204.	VAR
		BAIN CAPITAL VII PROPERTY TYPE: SECURITIES				P	VAR 5,306,274.	VAR
		SUMMIT VENTURES VI PROPERTY TYPE: SECURITIES				P	VAR 285,362.	VAR
		PARTHENON INVEST II PROPERTY TYPE: SECURITIES				P	VAR 578,793.	VAR
		VALUE ACT CAP PART PROPERTY TYPE: SECURITIES				P	VAR 243,988.	VAR
		IGNITION VENTURE II PROPERTY TYPE: SECURITIES				P	VAR 873,626.	VAR
		ALLOY VENTURES 2002 PROPERTY TYPE: SECURITIES				P	VAR -1957608.	VAR
		REGIMENT CAPITAL III PROPERTY TYPE: SECURITIES				P	VAR -135,839.	VAR
		ONSET VENTURES V PROPERTY TYPE: SECURITIES				P	VAR -5657597.	VAR
		IGNITION VENTURE III PROPERTY TYPE: SECURITIES				P	VAR 1,695,473.	VAR
		ALLOY VENTURES 2005 PROPERTY TYPE: SECURITIES				P	VAR 63,630.	VAR

**FORM 990-PF - PART IV
CAPITAL GAINS AND LOSSES FOR TAX ON INVESTMENT INCOME**

Kind of Property		Description				P or D	Date acquired	Date sold	
Gross sale price less expenses of sale	Depreciation allowed/ allowable	Cost or other basis	FMV as of 12/31/69	Adj. basis as of 12/31/69	Excess of FMV over adj basis		Gain or (loss)		
		SUMMIT VENT VII-A PROPERTY TYPE: SECURITIES				P	VAR 6,280,852.	VAR	
		ABERDARE VENT III PROPERTY TYPE: SECURITIES				P	VAR -182,237.	VAR	
		AVENUE ASIA IV PROPERTY TYPE: SECURITIES				P	VAR 84,282.	VAR	
		INDIUM III PROPERTY TYPE: SECURITIES				P	VAR 2,010,597.	VAR	
		INDUSTRIAL GROWTH IV PROPERTY TYPE: SECURITIES				P	VAR 2,285,507.	VAR	
		SYCAMORE PART FUND I PROPERTY TYPE: SECURITIES				P	VAR 828,146.	VAR	
		PARALLEL ENERGY FUND PROPERTY TYPE: SECURITIES				P	VAR -8120187.	VAR	
TOTAL GAIN(LOSS)								<u>96682637.</u>	

FORM 990PF - GENERAL EXPLANATION ATTACHMENT

PUBLIC DISSEMINATION AND TECHNICAL ASSISTANCE OF AWARDS

PART IX-A, LINE 1

DURING 2018, THE FOUNDATION PUBLICIZED THE RECIPIENTS OF THE SLOAN RESEARCH FELLOWSHIPS. NOMINATIONS FOR THE FELLOWSHIPS FROM ACADEMIA ARE REVIEWED AND CANDIDATES SELECTED BY INDEPENDENT SELECTION COMMITTEES OF DISTINGUISHED SCIENTISTS IN EACH ELIGIBLE FIELD. RECIPIENTS OF THE FELLOWSHIPS WERE PUBLISHED IN THE NEW YORK TIMES.

IN ADDITION, THE FOUNDATION PUBLICIZED THE WINNERS OF SLOAN AWARDS FOR EXCELLENCE IN TEACHING SCIENCE AND MATHEMATICS, AN ANNUAL AWARDS PROGRAM THAT HONORS EXCEPTIONAL MATH AND SCIENCE TEACHING IN NEW YORK CITY'S PUBLIC HIGH SCHOOLS. RECIPIENTS OF THE AWARDS WERE PUBLISHED IN THE NEW YORK TIMES. IN 2018, THERE WERE 7 WINNERS OF THE SLOAN AWARDS FOR EXCELLENCE IN TEACHING SCIENCE AND MATHEMATICS, AND 3 WINNERS OF THE ALFRED P. SLOAN TEACHING CHAMPION AWARDS, WHICH REWARD EXCELLENCE IN HIGH SCHOOL INSTRUCTION IN ECONOMICS.

EACH YEAR SINCE 1973, THE SLOAN PUBLIC SERVICE AWARDS HAVE RECOGNIZED SIX OUTSTANDING CIVIL SERVANTS OUT OF THE HUNDREDS OF THOUSANDS OF PEOPLE WHO WORK FOR NEW YORK CITY GOVERNMENT. THE FUND FOR THE CITY OF NEW YORK MANAGES THE NOMINATION AND SELECTION PROCESS AND REFERS TO THE AWARDS AS THE NOBEL PRIZES OF GOVERNMENT, THE HIGHEST AWARD THAT CAN BE BESTOWED UPON A NEW YORK CITY PUBLIC SERVANT. THESE WINNERS WERE ALSO PUBLISHED IN THE NEW YORK TIMES.

THE FOUNDATION'S BOOK PROGRAM AIMS TO REACH A WIDE, LAY AUDIENCE, AND HAS SUPPORTED OVER 100 AUTHORS SINCE 1996 IN THE RESEARCH AND WRITING OF A WIDE RANGE OF BOOKS AIMED AT PUBLIC UNDERSTANDING OF SCIENCE, TECHNOLOGY AND ECONOMICS. BOOK GRANTS ARE MADE TO INDIVIDUALS OR TO AFFILIATED NONPROFIT ORGANIZATIONS AND ARE REVIEWED BY AN ADVISORY COMMITTEE.

FORM 990PF - GENERAL EXPLANATION ATTACHMENT

SUPPORT PUBLIC CHARITABLE BOARD AND COMMITTEE SERVICE

PART IX-A, LINE 2

THE FOUNDATION PROVIDED TECHNICAL ASSISTANCE AND SUPPORT TO CHARITABLE ORGANIZATIONS, GOVERNMENTAL ENTITIES AND AGENCIES IN A VARIETY OF AREAS. DURING 2018, 9 STAFF MEMBERS SERVED ON BOARDS AND COMMITTEES OF CHARITABLE ORGANIZATIONS, AND PUBLIC COMMISSIONS AND TASK FORCES IN CONNECTION WITH THIS WORK.

FORM 990PF - GENERAL EXPLANATION ATTACHMENT

EDUCATIONAL CONFERENCES AND SEMINARS

PART IX-A, LINE 3

DURING 2018, THE FOUNDATION HELD 11 EDUCATIONAL CONFERENCES AND SEMINARS TO EXAMINE THE NEWEST DEVELOPMENTS AND EDUCATE THE PRACTITIONERS ON THE STATE OF SCIENCE, TECHNOLOGY, ENGINEERING/ECONOMICS AND MATHEMATICS, (STEM) FIELDS. THE MEETING COSTS, TRAVEL EXPENSES FOR EXPERT ATTENDEES AND OTHER COSTS TOTALED \$191,321.

FORM 990PF - GENERAL EXPLANATION ATTACHMENT

PART VI, LINE 6A

ORIGINAL AMOUNT OF OVERPAYMENT FROM 2017 RETURN:	3,212,965
ESTIMATED PAYMENTS MADE FOR 2018:	445,000
LESS: UNREQUESTED TAX REFUND RECEIVED	(5,390)
TOTAL AMOUNT OF CREDITS AVAILABLE FOR 2018:	3,652,575

ATTACHMENT 1FORM 990PF, PART I - OTHER INCOME

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>
GRANT REFUNDS:		
REFUNDED GRANTS	435,821.	
RECV'D WITH GRANT TRANSFERS	908,127.	
MISCELLANEOUS	4,010.	
LIMITED PARTNERSHIP INCOME		13,531,495.
TOTALS	<u>1,347,958.</u>	<u>13,531,495.</u>

ATTACHMENT 2FORM 990PF, PART I - LEGAL FEES

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>	<u>ADJUSTED NET INCOME</u>	<u>CHARITABLE PURPOSES</u>
SIMPSON THACHER	222,195.	222,195.		
PATTERSON BELKNAP	79,043.	12,750.		66,293.
INVESTMENT SECONDARY SALE	66,685.	66,685.		
FRANKLIN,WEINRIB, RUDELL	10,534.			10,534.
CLIFTON BUDD & DEMARIA LLP	8,320.			8,320.
LEGAL FILINGS (NY CHARITABLE)	1,493.			1,493.
TOTALS	<u>388,270.</u>	<u>301,630.</u>		<u>86,640.</u>

ATTACHMENT 3FORM 990PF, PART I - ACCOUNTING FEES

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>	<u>ADJUSTED NET INCOME</u>	<u>CHARITABLE PURPOSES</u>
GRANT THORNTON LLP	146,011.	23,831.		70,380.
TOTALS	<u>146,011.</u>	<u>23,831.</u>		<u>70,380.</u>

ATTACHMENT 4FORM 990PF, PART I - OTHER PROFESSIONAL FEES

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>	<u>CHARITABLE PURPOSES</u>
INVESTMENT MANAGEMENT FEES	3,172,551.	3,140,825.	
CAMBRIDGE ASSOCIATES, INC.	55,000.	54,450.	
GREENHILL COGENT WIRE T. FEES	847,608.	839,132.	
BACKSTOP SOLUTIONS GROUP, LLC	62,350.	61,727.	
BLACKROCK FINANCIAL MANAGEMENT	101,658.	100,641.	
BLOOMBERG L. P.	49,624.	49,128.	
CHECKFUNDMANAGER LLC	45,412.	44,958.	
EVESTMENT	33,295.	32,962.	
MERCER INC.	5,000.	4,950.	
MSCI, INC.	7,100.	7,029.	
NEW YORK STOCK EXCHANGE, INC	680.	673.	
PREQIN LTD.	19,700.	19,503.	
SULLIVAN, COTTER AND ASS INC.	1,150.	1,139.	
THE BURGESS GROUP	14,160.	14,018.	
PAUL JOSKOW - EXECUTIVE CONSLT	430,006.	68,666.	360,646.
ALLIANT INSURANCE SER. INC.	23,700.	3,785.	19,877.
BURNES COMMUNICATIONS	60,342.		60,342.
CORP. COUNSELING ASSOC. INC.	11,500.	1,836.	9,645.
ISAACSON MILLER, INC.	112,512.	17,967.	94,364.
PETE MACKEY CONSULTING, LLC	61,634.		61,634.
PSG COMMUNICATIONS	110,793.		110,793.
RISK & REGULATORY CONSTNG INC.	9,200.	1,469.	7,716.
THE CRONER COMPANY	6,000.	958.	5,032.
THE J.M. KAPLAN FUND, INC.	212.	34.	178.
TOTALS	<u>5,241,187.</u>	<u>4,465,850.</u>	<u>730,227.</u>

ATTACHMENT 5FORM 990PF, PART I - TAXES

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>
FOREIGN TAXES		988,925.
TOTALS	<u> </u>	<u>988,925.</u>

ATTACHMENT 6FORM 990PF, PART I - OTHER EXPENSES

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>	<u>CHARITABLE PURPOSES</u>
OFFICE EXPENSES	840,608.	379,630.	460,978.
PROGRAM SUPPORT	441,303.		441,303.
CONFERENCES AND EVENTS	191,321.		191,321.
BOARD OF TRUSTEES	131,633.	47,000.	84,633.
COMMUNICATIONS	1,067.		1,067.
LP INVESTMENT EXPENSES		12,279,066.	
TOTALS	<u>1,605,932.</u>	<u>12,705,696.</u>	<u>1,179,302.</u>

FORM 990PF, PART II - U.S. AND STATE OBLIGATIONSATTACHMENT 7

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>	<u>ENDING FMV</u>
U.S. & STATE GOV. OBLIGATIONS	19,706,744.	19,706,744.
US OBLIGATIONS TOTAL	<u>19,706,744.</u>	<u>19,706,744.</u>

ATTACHMENT 8FORM 990PF, PART II - CORPORATE STOCK

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>	<u>ENDING FMV</u>
GLOBAL EQUITIES	46,427,936.	46,427,936.
TOTALS	<u>46,427,936.</u>	<u>46,427,936.</u>

ATTACHMENT 9FORM 990PF, PART II - CORPORATE BONDS

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>	<u>ENDING FMV</u>
FIXED INCOME	176,840,197.	176,840,197.
TOTALS	<u>176,840,197.</u>	<u>176,840,197.</u>

ATTACHMENT 10FORM 990PF, PART II - OTHER INVESTMENTS

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>	<u>ENDING FMV</u>
PRIVATE EQUITY	222,515,079.	222,515,079.
DOMESTIC EQUITY	299,064,318.	299,064,318.
INTERNATIONAL EQUITY	423,524,840.	423,524,840.
ABSOLUTE RETURN	358,170,854.	358,170,854.
REAL ESTATE	159,642,668.	159,642,668.
HYBRID	22,605,270.	22,605,270.
TOTALS	<u>1,485,523,029.</u>	<u>1,485,523,029.</u>

ATTACHMENT 11

FORM 990PF, PART II - OTHER LIABILITIES

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>
DEFERRED COMPENSATION	1,391,126.
TOTALS	<u>1,391,126.</u>

ATTACHMENT 12FORM 990PF, PART III - OTHER INCREASES IN NET WORTH OR FUND BALANCESDESCRIPTIONAMOUNT

AMOUNTS NOT YET RECOGNIZED AS A COMPONENT OF NET PERIODIC BENEFIT COST	4,239,369.
TOTAL	<u>4,239,369.</u>

ATTACHMENT 13FORM 990PF, PART III - OTHER DECREASES IN NET WORTH OR FUND BALANCES

<u>DESCRIPTION</u>	<u>AMOUNT</u>
UNREALIZED LOSS ON INVESTMENTS	189,659,737.
TOTAL	<u>189,659,737.</u>

FORM 990PF, PART VII-A, LINE 3 - CONFORMED COPY OF THE CHANGES

PLEASE SEE THE ATTACHED AMENDED BYLAWS DATED NOVEMBER 2018.

ATTACHMENT 15FORM 990PF, PART VII-A, LINE 11A-TRANSFERS TO CONTROLLED ENTITY STATEMENT

TOTAL AMOUNT

309.

CONTROLLED ENTITY'S NAME: SLOAN PROJECTS LLC
CONTROLLED ENTITY'S ADDRESS: 630 FIFTH AVENUE, SUITE 2200
CITY, STATE & ZIP: NEW YORK, NY 10111
EIN: 27-0358278
TRANSFER AMOUNT: 309.
EXPLANATION OF TRANSFER TO CONTROLLED ENTITY:
GENERAL SUPPORT

ATTACHMENT 16FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

GRANTEE'S NAME: JULIA COMPUTING
 GRANTEE'S ADDRESS: 20 GARLAND RD
 CITY, STATE & ZIP: NEWTON, MA 02459
 GRANT DATE: 06/13/2017
 GRANT AMOUNT: 912,609.
 GRANT PURPOSE: TO SUPPORT THE CONTINUED DEVELOPMENT OF THE JULIA
 PROGRAMMING LANGUAGE
 AMOUNT EXPENDED: 436,179.
 ANY DIVERSION? NO
 DATES OF REPORTS: 5/31/2018, 6/13/2018
 VERIFICATION DATE: 08/06/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: ABT ASSOCIATES
 GRANTEE'S ADDRESS: 55 WHEELER STREET
 CITY, STATE & ZIP: CAMBRIDGE, MA 02138
 GRANT DATE: 10/18/2016
 GRANT AMOUNT: 958,389.
 GRANT PURPOSE: TO COMPLETE AN EVALUATION OF THE MOORE-SLOAN DATA
 SCIENCE ENVIRONMENTS
 AMOUNT EXPENDED: 668,859.
 ANY DIVERSION? NO
 DATES OF REPORTS: 10/4/2017, 12/20/2017
 VERIFICATION DATE: 11/12/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: ABT ASSOCIATES
 GRANTEE'S ADDRESS: 55 WHEELER STREET
 CITY, STATE & ZIP: CAMBRIDGE, MA 02138
 GRANT DATE: 06/08/2016
 GRANT AMOUNT: 124,966.
 GRANT PURPOSE: TO COMPLETE PLANNING AND PILOT BASELINE DATA COLLECTION
 FOR EVAL. OF MOORE-SLOAN DATA SCI. ENVRNMNT.
 AMOUNT EXPENDED: 124,966.
 ANY DIVERSION? NO
 DATES OF REPORTS: 9/6/2018
 VERIFICATION DATE: 09/06/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: PRIVATE CAPITAL RESEARCH INSTITUTE
 GRANTEE'S ADDRESS: 114 WESTERN AVENUE
 CITY, STATE & ZIP: BOSTON, MA 02134
 GRANT DATE: 06/13/2017
 GRANT AMOUNT: 500,000.
 GRANT PURPOSE: TO SET UP AN ADMIN. DATA RESEARCH FACILITY THAT MAKES
 DATA ABOUT THE PVT. CAP. INDUSTRY ACCESSIBLE
 AMOUNT EXPENDED: 40,500.

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FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

ANY DIVERSION? NO
 DATES OF REPORTS: 5/24/2018, 6/7/2018
 VERIFICATION DATE: 06/30/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNITED STATES ASSO. FOR ENERGY ECONOMICS
 GRANTEE'S ADDRESS: 28790 CHAGRIN BLVD
 CITY, STATE & ZIP: CLEVELAND, OH 44122
 GRANT DATE: 04/12/2018
 GRANT AMOUNT: 10,000.
 GRANT PURPOSE: TO SUPPORT THE PARTICIPATION OF GRADUATE STUDENTS AT
 THE PHD DAY EVENT AT 2018 USAEE NA CONF.
 AMOUNT EXPENDED: 10,000.

ANY DIVERSION? NO
 DATES OF REPORTS: 12/8/2018
 VERIFICATION DATE: 12/08/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: PARIS SCHOOL OF ECONOMICS
 GRANTEE'S ADDRESS: 48 BD JOURDAN
 CITY, STATE & ZIP: PARIS
 FOREIGN COUNTRY: FRANCE 75014
 GRANT DATE: 10/24/2017
 GRANT AMOUNT: 900,000.
 GRANT PURPOSE: TO IMPROVE THE QUALITY, QUANTITY, & ACCESSIBILITY OF
 DATA IN THE WORLD WEALTH AND INCOME DATABASE
 AMOUNT EXPENDED: 147,655.

ANY DIVERSION? NO
 DATES OF REPORTS: 10/30/2018
 VERIFICATION DATE: 12/03/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY COLLEGE LONDON
 GRANTEE'S ADDRESS: GOWER STREET
 CITY, STATE & ZIP: LONDON
 FOREIGN COUNTRY: UNITED KINGDOM WC1E 6BT
 GRANT DATE: 10/18/2017
 GRANT AMOUNT: 70,000.
 GRANT PURPOSE: TO CONDUCT A WORKSHOP & PUBLISH JOURNAL ON CATASTROPHIC
 PERTURBATIONS OF EARTH'S DEEP CARBON
 AMOUNT EXPENDED: 70,000.

ANY DIVERSION? NO
 DATES OF REPORTS: 4/30/2019
 VERIFICATION DATE: 05/28/2019
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

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FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

GRANTEE'S NAME: UNIVERSITY COLLEGE LONDON
 GRANTEE'S ADDRESS: GOWER STREET
 CITY, STATE & ZIP: LONDON
 FOREIGN COUNTRY: UNITED KINGDOM WC1E 6BT
 GRANT DATE: 12/02/2017
 GRANT AMOUNT: 20,000.
 GRANT PURPOSE: TO EXPAND THE CONTENT & OUTREACH OF MICROECONOMIC
 INSIGHTS, A SOURCE FOR ACCESSIBLE SUMMARIES
 AMOUNT EXPENDED: 20,000.
 ANY DIVERSION? NO
 DATES OF REPORTS: 1/23/2019
 VERIFICATION DATE: 02/01/2019
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY COLLEGE LONDON
 GRANTEE'S ADDRESS: GOWER STREET
 CITY, STATE & ZIP: LONDON
 FOREIGN COUNTRY: UNITED KINGDOM WC1E 6BT
 GRANT DATE: 12/07/2015
 GRANT AMOUNT: 50,000.
 GRANT PURPOSE: TO LAUNCH A CAREFULLY CURATED & EDITED BLOG THAT WILL
 MAKE MICROECO. RSRCH INSIGHTS WIDELY AVAIL.
 AMOUNT EXPENDED: 50,000.
 ANY DIVERSION? NO
 DATES OF REPORTS: 2/1/2017
 VERIFICATION DATE: 04/23/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY OF BOLOGNA
 GRANTEE'S ADDRESS: VIA ZAMBONI 33
 CITY, STATE & ZIP: BOLOGNA
 FOREIGN COUNTRY: ITALY 40126
 GRANT DATE: 04/12/2017
 GRANT AMOUNT: 124,993.
 GRANT PURPOSE: TO ESTABLISH AN OPEN SCHOLARLY CITATION DATABASE THAT
 FREELY AND LEGALLY MAKES AVAIL ACCURATE DATE
 AMOUNT EXPENDED: 124,993.
 ANY DIVERSION? NO
 DATES OF REPORTS: 2/2/2018
 VERIFICATION DATE: 03/31/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY OF SYDNEY
 GRANTEE'S ADDRESS: MADSEN BLDG, F09
 CITY, STATE & ZIP: SYDNEY
 FOREIGN PROVINCE: NEW SOUTH WALES
 FOREIGN COUNTRY: AUSTRALIA 2006

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ATTACHMENT 16 (CONT'D)FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

GRANT DATE: 11/08/2017
 GRANT AMOUNT: 100,000.
 GRANT PURPOSE: TO MODIFY MODELS OF THE MOVEMENT OF EARTH'S TECTONIC
 PLATES OVER THE PAST BILL YRS TO INCORP VISUL
 AMOUNT EXPENDED: 27,130.
 ANY DIVERSION? NO
 DATES OF REPORTS: 9/13/2018, 1/24/2019
 VERIFICATION DATE: 03/12/2019
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY OF SYDNEY
 GRANTEE'S ADDRESS: MADSEN BLDG, F09
 CITY, STATE & ZIP: SYDNEY
 FOREIGN PROVINCE: NEW SOUTH WALES
 FOREIGN COUNTRY: AUSTRALIA 2006
 GRANT DATE: 10/31/2018
 GRANT AMOUNT: 80,000.
 GRANT PURPOSE: TO STRENGTHEN THE DEEP CARBON SCIENCE COMMUNITY OF
 AUSTRALIA & BUILD TECTONIC ("GPLATES") MODEL
 AMOUNT EXPENDED:
 ANY DIVERSION? NO
 DATES OF REPORTS: N/A
 VERIFICATION DATE:
 RESULTS OF VERIFICATION:
 GRANT REPORTS WERE NOT DUE BEFORE THE FILING OF THE 2018 FORM 990PF.

GRANTEE'S NAME: INSTITUT DE PHYSIQUE DU GLOBE DE PARIS
 GRANTEE'S ADDRESS: 1 RUE JUSSIEU
 CITY, STATE & ZIP: PARIS
 FOREIGN PROVINCE: ILE-DE-FRANCE
 FOREIGN COUNTRY: FRANCE 75238
 GRANT DATE: 10/13/2015
 GRANT AMOUNT: 300,150.
 GRANT PURPOSE: TO CREATE & LEAD "TASK FORCE 2020" TO CONSIDER POSSIBLE
 FUTURES FOR THE DEEP CARBON OBSERVATORY
 AMOUNT EXPENDED: 172,752.
 ANY DIVERSION? NO
 DATES OF REPORTS: 3/1/2016, 11/30/2016, 9/13/2018
 VERIFICATION DATE: 10/23/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: OPEN KNOWLEDGE FOUNDATION
 GRANTEE'S ADDRESS: ST JOHN'S INNOVATION CENTRE
 CITY, STATE & ZIP: CAMBRIDGE
 FOREIGN PROVINCE: CAMBRIDGESHIRE
 FOREIGN COUNTRY: UNITED KINGDOM CB4 0WS
 GRANT DATE: 10/13/2015
 GRANT AMOUNT: 690,575.

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FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

GRANT PURPOSE: TO REDUCE FRICTION IN THE RESEARCH PROCESS THROUGH THE
DEV. & IMPLEMENTATION OF A LIGHTWEIGHT
AMOUNT EXPENDED: 690,575.
ANY DIVERSION? NO
DATES OF REPORTS: 1/30/2017, 1/15/2018
VERIFICATION DATE: 04/13/2018
RESULTS OF VERIFICATION:
GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: OPEN KNOWLEDGE FOUNDATION
GRANTEE'S ADDRESS: ST JOHN'S INNOVATION CENTRE
CITY, STATE & ZIP: CAMBRIDGE
FOREIGN PROVINCE: CAMBRIDGESHIRE
FOREIGN COUNTRY: UNITED KINGDOM CB4 0WS
GRANT DATE: 06/19/2018
GRANT AMOUNT: 749,624.
GRANT PURPOSE: TO SUPPORT ADOPTION AND USE OF A LIGHTWEIGHT DATA PKG.
STANDARD IN ORDER TO REDUCE FRICTIONS
AMOUNT EXPENDED:
ANY DIVERSION? NO
DATES OF REPORTS: N/A
VERIFICATION DATE:
RESULTS OF VERIFICATION:
GRANT REPORTS WERE NOT DUE BEFORE THE FILING OF THE 2018 FORM 990PF.

GRANTEE'S NAME: UNIVERSITA DI ROMA LA SAPIENZA
GRANTEE'S ADDRESS: PIAZZA ALDO MORO, 5
CITY, STATE & ZIP: ROMA
FOREIGN COUNTRY: ITALY 00185
GRANT DATE: 11/16/2016
GRANT AMOUNT: 102,753.
GRANT PURPOSE: TO CONDUCT THE THIRD WORKSHOP OF EARLY CAREER
SCIENTISTS OF THE DEEP CARBON OBSERVATORY
AMOUNT EXPENDED: 102,753.
ANY DIVERSION? NO
DATES OF REPORTS: 9/6/2018, 2/6/2019
VERIFICATION DATE: 03/12/2019
RESULTS OF VERIFICATION:
GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: ST. EDMUNDS COLLEGE, UNIV. OF CAMBRIDGE
GRANTEE'S ADDRESS: MOUNT PLEASANT
CITY, STATE & ZIP: CAMBRIDGE
FOREIGN COUNTRY: UNITED KINGDOM CB3 0BN
GRANT DATE: 11/28/2016
GRANT AMOUNT: 55,000.
GRANT PURPOSE: TO WRITE THE FIRST HISTORY OF DEEP CARBON SCIENCE, A
BOOK TITLED "CARBON FROM CRUST TO CORE"
AMOUNT EXPENDED: 45,878.
ANY DIVERSION? NO

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ATTACHMENT 16 (CONT'D)FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

DATES OF REPORTS: 11/27/2017, 9/18/2018, 12/3/2018
 VERIFICATION DATE: 12/04/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY OF CANBERRA
 GRANTEE'S ADDRESS: 11 KIRINARI ST
 CITY, STATE & ZIP: BRUCE
 FOREIGN PROVINCE: AUSTRALIAN CAPITAL TERRITORY
 FOREIGN COUNTRY: AUSTRALIA 2617
 GRANT DATE: 12/06/2018
 GRANT AMOUNT: 135,373.
 GRANT PURPOSE: TO STUDY THE ECONOMICS & MAINT. OF DIGITAL INFRA.
 BY EXPLORING THE RELATIONSHIP BETWEEN WAGED

AMOUNT EXPENDED:
 ANY DIVERSION? NO
 DATES OF REPORTS: N/A
 VERIFICATION DATE:
 RESULTS OF VERIFICATION:
 GRANT REPORTS WERE NOT DUE BEFORE THE FILING OF THE 2018 FORM 990PF.

GRANTEE'S NAME: MAX PLANCK INSTITUTE FOR CHEMISTRY
 GRANTEE'S ADDRESS: ADMINISTRATION
 CITY, STATE & ZIP: MAINZ
 FOREIGN COUNTRY: GERMANY 55128
 GRANT DATE: 10/16/2018
 GRANT AMOUNT: 409,975.
 GRANT PURPOSE: TO EXAMINE THE ROLE OF HUMANS AND HUMAN EMISSIONS
 IN INDOOR AIR CHEMISTRY

AMOUNT EXPENDED:
 ANY DIVERSION? NO
 DATES OF REPORTS: N/A
 VERIFICATION DATE:
 RESULTS OF VERIFICATION:
 GRANT REPORTS WERE NOT DUE BEFORE THE FILING OF THE 2018 FORM 990PF.

GRANTEE'S NAME: UNIVERSITY OF ZURICH
 GRANTEE'S ADDRESS: RAEMISTRASSE
 CITY, STATE & ZIP: ZURICH
 FOREIGN COUNTRY: SWITZERLAND 80
 GRANT DATE: 04/20/2018
 GRANT AMOUNT: 19,610.
 GRANT PURPOSE: TO ENCOURAGE STANDARDIZATION OF SURVEY INSTRUMENTS IN
 THE DOMAIN OF STUDIES ABOUT PEOPLE'S INTERNET

AMOUNT EXPENDED:
 ANY DIVERSION? NO
 DATES OF REPORTS: N/A
 VERIFICATION DATE:
 RESULTS OF VERIFICATION:
 GRANT REPORTS WERE NOT DUE BEFORE THE FILING OF THE 2018 FORM 990PF.
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FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

GRANTEE'S NAME: NESTA
 GRANTEE'S ADDRESS: 58 VICTORIA EMBANKMENT
 CITY, STATE & ZIP: LONDON
 FOREIGN COUNTRY: UNITED KINGDOM EC4Y 0DS
 GRANT DATE: 03/15/2018
 GRANT AMOUNT: 20,000.
 GRANT PURPOSE: TO HOLD A CONFERENCE ON EXPERIMENTAL & EVIDENCE-BASED
 METHODS FOR STUDYING, DISCOV, INNOVAT, GROWTH
 AMOUNT EXPENDED: 20,000.
 ANY DIVERSION? NO
 DATES OF REPORTS: 11/1/2018
 VERIFICATION DATE: 12/01/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY OF YORK
 GRANTEE'S ADDRESS: HESLINGTON
 CITY, STATE & ZIP: YORK
 FOREIGN PROVINCE: NORTH YORKSHIRE
 FOREIGN COUNTRY: UNITED KINGDOM YO10 5DD
 GRANT DATE: 03/20/2018
 GRANT AMOUNT: 254,546.
 GRANT PURPOSE: TO DEV. AN OPEN SOURCE MODEL FOR INVESTIGATING INDOOR
 GAS-PHASE CHEMISTRY & EXPAND SCIENCE COMMUNI.
 AMOUNT EXPENDED: 75,701.
 ANY DIVERSION? NO
 DATES OF REPORTS: 2/27/2019, 3/1/2019
 VERIFICATION DATE: 03/12/2019
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: MILLER MCCUNE CTR FOR RSRCH MEDIA
 GRANTEE'S ADDRESS: 801 GARDEN STREET, SUITE 101
 CITY, STATE & ZIP: SANTA BARBARA, CA 93101
 GRANT DATE: 11/15/2017
 GRANT AMOUNT: 50,000.
 GRANT PURPOSE: TO SUPPORT ACADEMIC AND NONPROFIT PARTICIPATION IN A
 WORKSHOP FOR COMPUTATIONAL SOCIAL SCIENCE
 AMOUNT EXPENDED: 26,359.
 ANY DIVERSION? NO
 DATES OF REPORTS: 07/01/2018
 VERIFICATION DATE: 07/10/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: MILLER MCCUNE CTR FOR RSRCH MEDIA
 GRANTEE'S ADDRESS: 801 GARDEN STREET, SUITE 101
 CITY, STATE & ZIP: SANTA BARBARA, CA 93101
 GRANT DATE: 11/28/2018
 GRANT AMOUNT: 50,000.

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ATTACHMENT 16 (CONT'D)FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

GRANT PURPOSE: TO SUPPORT TRAVEL BY ACADEMIC RESEARCHERS TO THE 2019
SOCIAL SCIENCE FOO CAMP
AMOUNT EXPENDED: 24,786.
ANY DIVERSION? NO
DATES OF REPORTS: 07/05/2019
VERIFICATION DATE: 07/12/2019
RESULTS OF VERIFICATION:
GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: OPEN MIND LEGACY PROJECT
GRANTEE'S ADDRESS: 320 PARK AVE, 4TH FLOOR
CITY, STATE & ZIP: NEW YORK, NY 10022
GRANT DATE: 10/24/2017
GRANT AMOUNT: 200,000.
GRANT PURPOSE:

AMOUNT EXPENDED: 100,000.
ANY DIVERSION? NO
DATES OF REPORTS: 10/08/2018
VERIFICATION DATE: 11/16/2018
RESULTS OF VERIFICATION:
GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: RETRO REPORT
GRANTEE'S ADDRESS: 633 THIRD AVENUE, 16TH FLOOR
CITY, STATE & ZIP: NEW YORK, NY 10017
GRANT DATE: 10/16/2018
GRANT AMOUNT: 65,000.
GRANT PURPOSE: TO SUPPORT RESEARCH AND PRODUCTION OF A SHORT DIGITAL
DOCUMENTARY - THE SCI/TECH OF DRIVERLESS CARS
AMOUNT EXPENDED: 65,000.
ANY DIVERSION? NO
DATES OF REPORTS: 07/03/2019
VERIFICATION DATE: 02/22/2019
RESULTS OF VERIFICATION:
GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT

FORM 990PF, PART VIII - LIST OF OFFICERS, DIRECTORS, AND TRUSTEESATTACHMENT 17

<u>NAME AND ADDRESS</u>	<u>TITLE AND AVERAGE HOURS PER WEEK DEVOTED TO POSITION</u>	<u>COMPENSATION</u>	<u>CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS</u>	<u>EXPENSE ACCT AND OTHER ALLOWANCES</u>
ADAM FALK 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE/PRESIDENT 40.00	1,106,650.	74,313.	0.
CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS INCLUDE AMOUNTS CONTRIBUTED TO THE FOUNDATION'S MEDICAL, DENTAL, VISION, LIFE AND DISABILITY INSURANCE, VESTED AMOUNTS CONTRIBUTED TO THE FOUNDATION'S RETIREMENT PLANS, AND RETIREMENT SEVERANCE PAY.				
LEISLE LIN 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TREASURER/SVP, FINANCE & OPS. 40.00	514,900.	74,277.	0.
ELIZABETH HEWITT 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	SVP/CIO (THRU 12/11/2018) 40.00	1,338,750.	92,499.	0.
DORON WEBER 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	VP/PD (THRU 12/11/2018) 40.00	437,625.	78,110.	0.
DANIEL GOROFF 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	VP/PD (THRU 12/11/2018) 40.00	437,625.	69,060.	0.

FORM 990PF, PART VIII - LIST OF OFFICERS, DIRECTORS, AND TRUSTEESATTACHMENT 17 (CONT'D)

<u>NAME AND ADDRESS</u>	<u>TITLE AND AVERAGE HOURS PER WEEK DEVOTED TO POSITION</u>	<u>COMPENSATION</u>	<u>CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS</u>	<u>EXPENSE ACCT AND OTHER ALLOWANCES</u>
CYNTHIA BARNHART 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	31,500.	0.	0.
BONNIE L BASSLER 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	27,500.	0.	0.
FRANCINE BERMAN 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	25,000.	0.	0.
RICHARD BERNSTEIN 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 3.00	34,500.	0.	0.
KEVIN BURKE 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	31,500.	0.	0.
FREDERICK HENDERSON 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	31,500.	0.	0.

FORM 990PF, PART VIII - LIST OF OFFICERS, DIRECTORS, AND TRUSTEESATTACHMENT 17 (CONT'D)

<u>NAME AND ADDRESS</u>	<u>TITLE AND AVERAGE HOURS PER WEEK DEVOTED TO POSITION</u>	<u>COMPENSATION</u>	<u>CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS</u>	<u>EXPENSE ACCT AND OTHER ALLOWANCES</u>
FREEMAM A HRABOWSKI III 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	32,000.	0.	0.
ROBERT LITTERMAN 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	31,500.	0.	0.
JAMES M POTERBA 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	34,000.	0.	0.
MICHAEL PURUGGANAN 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	27,500.	0.	0.
MARY SCHMIDT CAMPBELL 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	27,500.	0.	0.
MARTA TIENDA 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE/CHAIR. (AS OF 6/14/17) 4.00	40,000.	0.	0.

FORM 990PF, PART VIII - LIST OF OFFICERS, DIRECTORS, AND TRUSTEESATTACHMENT 17 (CONT'D)

<u>NAME AND ADDRESS</u>	<u>TITLE AND AVERAGE HOURS PER WEEK DEVOTED TO POSITION</u>	<u>COMPENSATION</u>	<u>CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS</u>	<u>EXPENSE ACCT AND OTHER ALLOWANCES</u>
PAUL L. JOSKOW 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111 AMOUNT ABOVE RESPRESENTS A LUMP SUM TRANSITION AND RETIREMENT PAYMENT IN LIEU OF ELECTING RETIREE MEDICAL COVERAGE UNDER THE FOUNDATION'S APPLICABLE PLAN(S).	FORMER PRESIDENT	250,000.	0.	0.
	GRAND TOTALS	<u>4,459,550.</u>	<u>388,259.</u>	<u>0.</u>

990PF, PART VIII - COMPENSATION OF THE FIVE HIGHEST PAID EMPLOYEESATTACHMENT 18

<u>NAME AND ADDRESS</u>	<u>TITLE AND AVERAGE HOURS PER WEEK DEVOTED TO POSITION</u>	<u>COMPENSATION</u>	<u>CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS</u>
KATHLEEN E CHRISTENSEN 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	PROGRAM DIRECTOR 40.00	334,225.	64,746.
JOSHUA M GREENBERG 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	PROGRAM DIRECTOR 40.00	341,275.	88,850.
MONICA LAI 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	SR. INVESTMENT DIR. 40.00	598,650.	88,884.
WILLIAM MASLOVSKY 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	SR. INVESTMENT DIR. 40.00	605,125.	88,850.
PAULA J OLSIEWSKI 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	PROGRAM DIRECTOR 40.00	358,637.	54,462.
	TOTAL COMPENSATION	<u>2,237,912.</u>	<u>385,792.</u>

990PF, PART VIII- COMPENSATION OF THE FIVE HIGHEST PAID PROFESSIONALSATTACHMENT 19

<u>NAME AND ADDRESS</u>	<u>TYPE OF SERVICE</u>	<u>COMPENSATION</u>
RGM CAPITAL 9010 STRADA STELL CT # 105 NAPLES, FL 3109	INVESTMENT MGMT FEES	1,996,716.
GREENHILL COGENT 155 N WACKER DR STE 4550 CHICAGO, IL 34109	TRANS. ADVISORY SERV	847,608.
SILCHESTER INTERNATIONAL INVESTORS 780 3RD AVE #4201 NEW YORK, NY 10172	INVESTMENT MGMT FEES	565,304.
PAUL JOSKOW 50 MEMORIAL DRIVE, BUILDING E52-414 CAMBRIDGE, MA 02142	EXECUTIVE CONSULTANT	430,006.
BNY MELLON CUSTODY FEES 240 GREENWICH STREET NEW YORK, NY 10286	INVESTMENT CUSTODY	308,551.
	TOTAL COMPENSATION	<u>4,148,185.</u>

FORM 990PF, PART XV - NAME, ADDRESS AND PHONE FOR APPLICATIONS

MR. ADAM FALK - GRANTS
630 FIFTH AVENUE, SUITE 2200
NEW YORK, NY 10111
212-649-1649

FORM IN WHICH APPLICATION SHOULD BE SUBMITTED AND INFORMATION THEY SHOULD INCLUDE:

AN INTERESTED GRANTSEEKER SHOULD SUBMIT A LETTER OF INQUIRY BY EMAIL TO THE APPROPRIATE PROGRAM DIRECTOR. GRANTSEEKERS THAT SUBMIT PROMISING LETTERS OF INQUIRY WILL BE INVITED TO SUBMIT A FORMAL GRANT PROPOSAL.

ALL GRANT PROPOSALS MUST INCLUDE A PROPOSAL COVER SHEET, PROPOSAL, BUDGET, APPENDICES AND PROPOSAL ADMINISTRATION FORM SUBMITTED VIA EMAIL.

ONCE A PROPOSAL HAS BEEN SUBMITTED, THE FOUNDATION WILL EVALUATE THE PROPOSAL. THE FOUNDATION'S GRANT REVIEW AND APPROVAL PROCESS IS EXTREMELY RIGOROUS AND DESIGNED TO MIMIC THE PEER REVIEW PROCESS AT HIGH QUALITY ACADEMIC JOURNALS. DEPENDING ON THE FUNDS REQUESTED AND THE COMPLEXITY OF THE WORK TO BE PERFORMED, THE FOUNDATION MAY SEEK INDEPENDENT EXPERT REVIEW OF THE PROPOSAL. IF SO, GRANTSEEKERS ARE

FORM 990PF, PART XV - NAME, ADDRESS AND PHONE FOR APPLICATIONS

FORM IN WHICH APPLICATION SHOULD BE SUBMITTED AND INFORMATION THEY SHOULD INCLUDE:

GIVEN THE OPPORTUNITY TO RESPOND IN WRITING TO REVIEWER COMMENTS. IT IS NOT UNUSUAL FOR A GRANTSEEKER TO BE ASKED TO REVISE, AMEND, OR SUPPLEMENT THE ORIGINAL PROPOSAL (SOMETIMES SIGNIFICANTLY) AS A RESULT OF THE PROPOSAL REVIEW PROCESS.

SUBMISSION DEADLINES:

NONE

RESTRICTIONS OR LIMITATIONS ON AWARDS:

- THE ALFRED P. SLOAN FOUNDATION DOES NOT ACCEPT OR REVIEW UNSOLICITED GRANT PROPOSALS.
- THE FOUNDATION MAKES GRANT PRIMARILY TO SUPPORT ORIGINAL RESEARCH AND EDUCATION RELATED TO SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS, AND ECONOMICS.
- THE FOUNDATION DOES NOT MAKE GRANTS TO POLITICAL CAMPAIGNS, TO SUPPORT POLITICAL ACTIVITIES, OR TO LOBBY FOR OR AGAINST PARTICULAR PIECES OF LEGISLATION.
- THE FOUNDATION DOES NOT MAKE GRANTS TO INDIVIDUALS EXCEPT THROUGH ITS BOOKS PROGRAM.
- THE FOUNDATION DOES NOT GENERALLY MAKE GRANTS TO FOR-PROFIT INSTITUTIONS.
- THE FOUNDATION DOES NOT MAKE GRANTS IN RELIGION, MEDICAL RESEARCH, OR RESEARCH IN THE HUMANITIES.
- THE FOUNDATION DOES NOT MAKE GRANTS AIMED AT PRE-COLLEGE STUDENTS EXCEPT THROUGH ITS NEW YORK CITY INITIATIVE.
- THE FOUNDATION DOES NOT MAKE GRANTS TO PROJECTS IN THE CREATIVE OR PERFORMING ARTS EXCEPT WHEN THOSE PROJECTS ARE RELATED TO EDUCATING THE PUBLIC ABOUT SCIENCE, TECHNOLOGY, OR ECONOMICS.
- THE FOUNDATION DOES NOT MAKE GRANTS FOR ENDOWMENTS, FUNDRAISING DRIVES, OR FUNDRAISING DINNERS.
- THE FOUNDATION DOES NOT MAKE GRANTS IN SUPPORT OF THE PURCHASE, CONSTRUCTION, OR RENOVATION OF BUILDINGS OR LABORATORIES. ON SOME OCCASIONS, THE FOUNDATION WILL SUPPORT THE PURCHASE OR CONSTRUCTION OF SCIENTIFIC EQUIPMENT IF SUCH EQUIPMENT IS ESSENTIAL TO THE SUCCESS OF A FOUNDATION-SUPPORTED RESEARCH PROJECT OR EDUCATIONAL INITIATIVE.

LAUREN VON ECKARTSBERG-FELLOWSHIPS
630 FIFTH AVENUE, SUITE 2200
NEW YORK, NY 10111
212-649-1649

FORM IN WHICH APPLICATION SHOULD BE SUBMITTED AND INFORMATION THEY SHOULD INCLUDE:

CANDIDATES ARE NOMINATED BY DEPARTMENT HEADS OR OTHER SENIOR SCHOLARS. DIRECT APPLICATIONS ARE NOT ACCEPTED. NOMINATION FORMS ARE AVAILABLE ON REQUEST TO MS. LAUREN VON ECKARTSBERG OR ONLINE AT WWW.SLOAN.ORG/FELLOWSHIPS. IN ADDITION TO THIS FORM, THE NOMINATOR SHOULD SUBMIT A LETTER DESCRIBING THE CANDIDATE'S QUALIFICATIONS AND

FORM 990PF, PART XV - NAME, ADDRESS AND PHONE FOR APPLICATIONS

FORM IN WHICH APPLICATION SHOULD BE SUBMITTED AND INFORMATION THEY SHOULD INCLUDE:

MUST SEE THAT THE FOUNDATION RECEIVES 3 SUPPORTING LETTERS DIRECTLY FROM OTHER SCHOLARS, PREFERABLY NOT AT THE SAME INSTITUTION. A CV, A LIST OF THE CANDIDATE'S PUBLICATIONS, A ONE PAGE STATEMENT AS WELL A ONE COPY OF EACH OF NO MORE THAN TWO REPRESENTATIVE PUBLICATIONS SHOULD ACCOMPANY THE NOMINATION FORM AND LETTER.

SUBMISSION DEADLINES:

NOMINATIONS ARE DUE BY MID-SEPTEMBER, AROUND THE 15TH, FOR THOSE AWARDS WHICH ARE AWARDED THE FOLLOWING YEAR.

RESTRICTIONS OR LIMITATIONS ON AWARDS:

- THE SLOAN RESEARCH FELLOWSHIPS SEEK TO STIMULATE FUNDAMENTAL RESEARCH BY EARLY-CAREER SCIENTISTS AND SCHOLARS OF OUTSTANDING PROMISE.
- THESE TWO-YEAR FELLOWSHIPS ARE AWARDED YEARLY TO 126 RESEARCHERS IN RECOGNITION OF DISTINGUISHED PERFORMANCE AND A UNIQUE POTENTIAL TO MAKE SUBSTANTIAL CONTRIBUTIONS TO THEIR FIELD
- CANDIDATES MUST HOLD A TENURE TRACK (OR EQUIVALENT) POSITION AT A COLLEGE, UNIVERSITY, OR OTHER DEGREE-GRANTING INSTITUTION IN THE UNITED STATES OR CANADA.
- TENURE TRACK FACULTY POSITIONS AT THE CANDIDATE'S INSTITUTION MUST INCLUDE A YEARLY TEACHING REQUIREMENT.
- CANDIDATES MUST HOLD A PH.D. (OR EQUIVALENT) IN CHEMISTRY, COMPUTATIONAL OR EVOLUTIONARY MOLECULAR BIOLOGY, COMPUTER SCIENCE, ECONOMICS, MATHEMATICS, NEUROSCIENCE, OCEAN SCIENCES, PHYSICS, OR A RELATED FIELD.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE, NW WASHINGTON, DC 20005	NONE PC	TO CONTINUE TO PROMOTE THE PROFESSIONALIZATION AND INSTITUTIONALIZATION OF THE ROLE OF THE COMMUNITY ENGAGEMENT MANAGER IN SCIENTIFIC SOCIETIES AND LARGE-SCALE RESEARCH COLLABORATIONS	32,575.
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE, NW WASHINGTON, DC 20005	NONE PC	TO PROVIDE INFRASTRUCTURE FUNDING TO UPDATE LEGAL GUIDANCE FOR COLLEGES AND UNIVERSITIES ON DIVERSITY, EQUITY, AND INCLUSION (DEI) IN STEM AND TO ASSIST WITH THE PILOT PHASE OF SEA CHANGE, A VOLUNTARY, METRICS-BASED SELF-ASSESSMENT SYSTEM	112,800.
AMERICAN FILM INSTITUTE 2021 NORTH WESTERN AVENUE LOS ANGELES, CA 90027	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	115,000.
AMERICAN FRIENDS OF TOULOUSE SCHOOL OF ECONOMICS C/O SARATOGA ASSOCIATES 116 WEST MAIN STREET, SUITE 302 SALISBURY, MD 21801	NONE PC	TO BUILD OUT AN OPEN-SOURCE PLATFORM FOR REPRODUCIBLY RUNNING LARGE-SCALE BEHAVIORAL EXPERIMENTS BOTH ONLINE AND IN THE LABORATORY	100,000.
AMERICAN INSTITUTE OF PHYSICS CENTER FOR HISTORY OF PHYSICS ONE PHYSICS ELLIPSE COLLEGE PARK, MD 20740	NONE PC	TO SUPPORT GLOBAL, DIGITAL ACCESS TO THE WENNER COLLECTION ON THE HISTORY OF PHYSICS VIA DETAILED CATALOGING, DESCRIPTION, ONLINE AVAILABILITY, AND INITIAL OUTREACH	200,000.
AMERICAN MUSEUM OF THE MOVING IMAGE 36-01 35TH AVENUE ASTORIA, NY 11106	NONE PC	TO MAINTAIN AND DEVELOP THE COMPREHENSIVE, UP-TO-DATE, GO-TO SITE FOR THE NATIONWIDE SLOAN FILM PROGRAM, ITS PARTICIPATING PARTNERS AND 500+ FILM PROJECTS AND TO ADD A SLOAN FILM CHANNEL	128,484.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ANNUAL REVIEWS 4139 EL CAMINO WAY PALO ALTO, CA 94303	NONE PC	TO PUBLISH A DIGITAL MAGAZINE THAT UNLOCKS SCIENTIFIC RESEARCH TO INFORM THE PUBLIC DISCOURSE IN MULTIPLE SUBJECTS WITH COMPELLING, TIMELY, AND IMPARTIAL KNOWLEDGE	250,000.
ANNUAL REVIEWS 4139 EL CAMINO WAY PALO ALTO, CA 94303	NONE PC	TO DEVELOP AND EXPAND KNOWABLE MAGAZINE, A NEW DIGITAL PUBLICATION THAT UNLOCKS SCIENTIFIC RESEARCH TO INFORM THE PUBLIC DISCOURSE WITH COMPELLING, TIMELY, AND IMPARTIAL KNOWLEDGE	420,000.
APPALACHIAN STATE UNIVERSITY P.O. BOX 32174, 287 RIVERS STREET BOONE, NC 28608	NONE PC	TO RESEARCH THE ECONOMICS OF ENERGY EFFICIENCY, AS RECOMMENDED BY A REQUEST FOR PROPOSALS REVIEW COMMITTEE, BY EXAMINING HOW BEHAVIORAL NUDGES IN THE FORM OF ELECTRONIC NOTIFICATIONS IMPACT ELECTRICITY CONSUMPTION AND ENERGY EFFICIENCY PROGRAM PARTICIPATION	63,254.
ARIZONA STATE UNIVERSITY 300 E UNIV. DRIVE, PO BOX 877205 TEMPE, AZ 85287-7205	NONE GOV	TO EXAMINE ALTERNATIVE GOVERNANCE APPROACHES AND INSTITUTIONS ASSOCIATED WITH GEOENGINEERING RESEARCH, FOCUSING ON SOLAR RADIATION MANAGEMENT FIELD EXPERIMENTS, USING PARTICIPATORY DELIBERATION METHODOLOGIES	89,615.
ARIZONA STATE UNIVERSITY 300 E UNIV. DRIVE, PO BOX 877205 TEMPE, AZ 85287-7205	NONE GOV	TO CREATE A FREE, OPEN SOURCE, INTERACTIVE, DIGITAL EDITION OF FRANKENSTEIN: ANNOTATED FOR SCIENTISTS, ENGINEERS AND CREATORS OF ALL KINDS THAT BRIDGES THE SCIENCES AND HUMANITIES AND SEEKS TO FOSTER AN ENGAGED COMMUNITY OF READERS	63,648.
ARIZONA STATE UNIVERSITY	NONE	TO DEVELOPE PREDICTIVE MODEL SYSTEMS OF POLYMICROBIAL BIOFILM FORMATION AND SUSCEPTIBILITY TO CHEMICAL DISINFECTANT: A LONGITUDINAL STUDY WITH IMPLICATIONS FOR	70,000.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
300 E UNIV. DRIVE, PO BOX 877205 TEMPE, AZ 85287-7205	GOV	SPACEFLIGHT SYSTEMS INTEGRITY AND HEALTH RISKS	
ARIZONA STATE UNIVERSITY 300 E UNIV. DRIVE, PO BOX 877205 TEMPE, AZ 85287-7205	NONE GOV	TO SUPPORT STUDENT PARTICIPATION AT THE ENERGY AND SOCIETY IN TRANSITION CONFERENCE	20,000.
ARIZONA STATE UNIVERSITY 300 E UNIV. DRIVE, PO BOX 877205 TEMPE, AZ 85287-7205	NONE GOV	TO INTEGRATE ENGINEERING PRINCIPLES AND THOUGHT INTO THE MASTERS OF PUBLIC POLICY/MASTERS OF PUBLIC ADMINISTRATION PROGRAMS TO ENHANCE THE EFFECTIVENESS OF PUBLIC AND NONPROFIT MANAGERS	122,846.
ASPIRATION 2973 16TH STREET, STE 300 SAN FRANCISCO, CA 94103	NONE PC	TO REDUCE BARRIERS TO DATA PUBLICATION BY PROVIDING CONTEXT-SPECIFIC GUIDANCE ON SHARING BEST PRACTICE, INCLUDING SUITABLE REPOSITORIES	448,800.
ASSOCIATION OF AMERICAN UNIVERSITIES 1200 NEW YORK AVE, NW, STE 550 WASHINGTON, DC 20005	NONE PC	TO CONSTRUCT MORE STUDENT-CENTERED EDUCATIONAL ENVIRONMENTS FOR ALL GRADUATE STUDENTS BY ACTIVE INSTITUTIONAL AND DEPARTMENTAL SUPPORT FOR A VARIETY OF CAREER OPTIONS AND FOR INCREASED INCLUSION OF STUDENTS FROM UNDERREPRESENTED GROUPS	150,000.
ASSOCIATION OF AMERICAN UNIVERSITIES 1200 NEW YORK AVE, NW, STE 550 WASHINGTON, DC 20005	NONE PC	TO UNDERTAKE PLANNING ACTIVITIES IN PREPARATION FOR A MAJOR NEW INITIATIVE ON PHD EDUCATION IN COLLABORATION WITH AAU MEMBER UNIVERSITIES	20,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ASSOCIATION OF RESEARCH LIBRARIES 21 DUPONT CIRCLE, NW WASHINGTON, DC 20036	NONE PC	TO DEVELOP AND DISSEMINATE A CODE OF BEST PRACTICES IN FAIR USE FOR SOFTWARE PRESERVATION	164,663.
ASTROPHYSICAL RESEARCH CONSORTIUM U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	NONE PC	TO UNDERTAKE THE SLOAN DIGITAL SKY SURVEY V (SDSS-V), WHICH WILL UTILIZE ALL-SKY SPECTROSCOPIC OBSERVATIONS TO EXPLAIN THE GENESIS OF THE MILKY WAY AND ITS NEIGHBORS, COMPREHENSIVELY TEST STELLAR ASTROPHYSICS AND STAR-PLANET RELATIONS, PROBE SUPERMASSIVE BLACK HOLE PHYSICS, AND MAP, ON UNPRECEDENTED SCALES, THE MILKY WAY'S INTERSTELLAR GAS AND THAT OF NEARBY GALAXIES	2,375,000.
ASTROPHYSICAL RESEARCH CONSORTIUM U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	NONE PC	TO MAXIMIZE THE SUSTAINABILITY OF THE SLOAN DIGITAL SKY SURVEY (SDSS) DATA ARCHIVE	231,000.
ASTROPHYSICAL RESEARCH CONSORTIUM U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	NONE PC	TO CONTINUE SUPPORT FOR THE FACULTY AND STUDENT TEAM (FAST) PROGRAM WITHIN THE SLOAN DIGITAL SKY SURVEY (SDSS) THAT AIMS TO INCREASE THE NUMBER OF UNDERREPRESENTED MINORITY STUDENTS AND FACULTY IN THE COLLABORATION AND INCREASE THE NUMBER OF STUDENTS PURSUING ASTRONOMY PH.D. PROGRAMS	200,000.
BARNARD COLLEGE 3009 BRDWAY NEW YORK, NY 10027-6598	NONE PC	TO SUPPORT A SCREENING OF THE SLOAN-SUPPORTED DOCUMENTARY BOMBSHELL: THE HEDY LAMARR STORY AND A PANEL ABOUT PORTRAYING WOMEN IN SCIENCE ON THE SCREEN AT THE ATHENA FILM FESTIVAL IN FEBRUARY 2018	15,000.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BENJAMIN EHRLICH 2176 ELLERY AVENUE FORT LEE, NJ 07627	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF THE BRAIN THAT DISCOVERED ITSELF, ABOUT THE FATHER OF NEUROSCIENCE SANTIAGO RAMON Y CAJAL, TO BE PUBLISHED BY FARRAR, STRAUS AND GIROUX IN FALL 2020	45,000.
BIOBUS 1361 AMSTERDAM AVE STE 340 NEW YORK, NY 10027	NONE PC	TO SUPPORT EXPANSION OF THE BIOBUS AND BIOBASE STEM EDUCATION PROGRAMS IN HARLEM	250,000.
BOSTON COLLEGE 140 COMMONWEALTH AVENUE CHESTNUT HILL, MA 02467	NONE PC	TO STRENGTHEN NETWORK MEMBER ENGAGEMENT OF THE SLOAN RESEARCH NETWORK AND SUCCESSFULLY TRANSITION TO A NEW STRUCTURE AND LEADERSHIP	191,729.
BOSTON COLLEGE 140 COMMONWEALTH AVENUE CHESTNUT HILL, MA 02467	NONE PC	TO PRODUCE RESEARCH AND INFORM POLICY-MAKERS ABOUT THE ROLE THAT NON-TRADITIONAL JOBS PLAY FOR OLDER WORKERS	129,242.
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	TO DEVELOP, EVALUATE, AND TRANSFER TO PRACTICE A ROBUST FRAMEWORK OF DISTRIBUTION LOCATIONAL MARGINAL PRICES THAT CAN IMPROVE EFFICIENCIES IN ELECTRICITY DISTRIBUTION	100,000.
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	TO ORGANIZE AN INTERDISCIPLINARY CONFERENCE THAT WILL LAUNCH THE ECOLOGICAL FORECASTING INITIATIVE	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR WEN LI IN PHYSICS	65,000.
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANUSHYA CHANDRAN IN PHYSICS	65,000.
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JENNIFER BALAKRISHNAN IN MATHEMATICS	65,000.
BRANDEIS UNIVERSITY 415 SOUTH STREET, MS-062 WALTHAM, MA 02454-9110	NONE PC	TO CREATE THE FIRST COMPREHENSIVE DATABASE, WITH AGES AND GENDERS, OF APPROXIMATELY TWO MILLION INVENTORS WHO RECEIVED A U.S. PATENT BETWEEN 1976 AND 2012 AND TO MEASURE HOW INVENTIVE CREATIVITY VARIES OVER THE LIFE COURSE OF INVENTORS	190,703.
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO PROMOTE INDEPENDENT, UNBIASED, AND NONPARTISAN ECONOMIC RESEARCH ON REGULATORY ECONOMICS	100,000.
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO CONTINUE SUPPORTING THE PRODUCTION AND DISSEMINATION OF ACCESSIBLE, RELIABLE, AND INFLUENTIAL RESEARCH THROUGH THE BROOKINGS PAPERS ON ECONOMIC ACTIVITY	100,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO DEVELOP AND JUSTIFY SPECIFIC, ACTIONABLE POLICY REFORMS TO ENCOURAGE INCREASED SAVING AND ENABLE LONGER WORKING LIVES, AS WELL AS TO IDENTIFY POLICY REFORMS TO ENABLE CONSUMERS TO HAVE GREATER ACCESS TO AND UNDERSTANDING OF RETIREMENT PRODUCTS IN THE PRIVATE MARKET	464,017.
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO ORGANIZE, STRUCTURE, AND SYNTHESIZE RESEARCH ON THE MEASUREMENT OF PRODUCTIVITY	496,589.
BROWN UNIVERSITY 164 ANGELL STREET PROVIDENCE, RI 02906	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MELODY CHAN IN MATHEMATICS	65,000.
BROWN UNIVERSITY 164 ANGELL STREET PROVIDENCE, RI 02906	NONE PC	TO SUPPORT THE 2018 BLACKWELL-TAPIA CONFERENCE PROVIDING EARLY-CAREER MINORITY MATHEMATICIANS WITH ENHANCED UNDERSTANDING OF THEIR FIELD, NETWORKING WITH PEERS, AND INTERACTIONS WITH SENIOR RESEARCHERS	33,500.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	TO DEVELOP, TEST, AND APPLY NEURO-ECONOMIC MODELS OF HOW DECISION-MAKERS SWITCH BETWEEN HABIT-DRIVEN AND GOAL-SEEKING BEHAVIORS	206,057.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DAVID SIMMONS-DUFFIN IN PHYSICS	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KONSTANTIN BATYGIN IN PHYSICS	65,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JIM FULLER IN PHYSICS	65,000.
CALIFORNIA POLYTECHNIC STATE UNIVERSITY ONE GRAND AVENUE SAN LUIS OBISPO, CA 93407	NONE PC	TO DEVELOP SOFTWARE AND OTHER COMPUTATIONAL RESEARCH INFRASTRUCTURE FOR PROVIDING SAFE AND SECURE ACCESS TO SENSITIVE DATA	547,947.
CARNEGIE INSTITUTION OF WASHINGTON 1530 P STREET, N.W. WASHINGTON, DC 20005	NONE PC	TO SYNTHESIZE THE WORK OF THE RESERVOIRS AND FLUXES COMMUNITY OF THE DEEP CARBON OBSERVATORY	718,750.
CARNEGIE INSTITUTION OF WASHINGTON 1530 P STREET, N.W. WASHINGTON, DC 20005	NONE PC	TO SUPPORT THE SECRETARIAT OF THE DEEP CARBON OBSERVATORY TO BRING THE PROGRAM TO EFFECTIVE CLOSURE AND ASSURE ITS LEGACIES	648,920.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO STUDY THE JOINING TRAJECTORIES AND SOCIAL NETWORK POSITIONS OF MALE AND FEMALE DEVELOPERS IN OPEN SOURCE DIGITAL INFRASTRUCTURE PROJECTS	249,942.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	121,615.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO ANALYZE THE CHALLENGES AND OPPORTUNITIES ASSOCIATED WITH UPGRADING AND TRANSFORMING HIGH VOLTAGE TRANSMISSION LINES AS COMPARED WITH SITING NEW TRANSMISSION INFRASTRUCTURE	100,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CHRIS HARRISON IN COMPUTER SCIENCE	65,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANDREAS PFENNING IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BRYAN PARNO IN COMPUTER SCIENCE	65,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR VENKAT VISWANATHAN IN CHEMISTRY	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANDREW PAVLO IN COMPUTER SCIENCE	65,000.
CATTICUS CORPORATION 2600 TENTH STREET, STE 619 BERKELEY, CA 94710	NONE PC	TO PRODUCE "LOOK WHO'S DRIVING", A ONE-HOUR DOCUMENTARY ABOUT AUTONOMOUS VEHICLE TECHNOLOGY, TO AIR ON PBS'S NOVA	600,000.
CENTER FOR ECONOMIC AND POLICY RESCH 1611 CONNECTICUT AVE, NW, STE 400 WASHINGTON, DC 20009	NONE PC	TO ANALYZE THE EFFECT OF AND ADDITIONAL CONTRACTING LAYER, MANAGED SERVICES PROVIDERS (MSPS) ON LEAD FIRMS AND WORKERS ENGAGED IN NON-STANDARD WORK ARRANGEMENTS	115,750.
CENTER FOR OPEN SCIENCE 210 RIDGE MCINTIRE RD, STE 500 CHARLOTTESVILLE, VA 22903	NONE PC	TO IMPLEMENT AND TEST FEATURES TO SIGNAL CREDIBILITY AND TRUST ON PREPRINT SERVICES	247,243.
CENTER FOR STRATEGIC AND INTERNATIONAL STUDIES 1616 RHODE ISLAND AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO SUPPORT RESEARCH AND WORKSHOPS IN THE ENERGY IN AMERICA PROJECT TO EXAMINE HOW ENERGY IMPACTS THE UNITED STATES ECONOMY AT MULTIPLE LEVELS AND THE CHANGING ROLE OF ENERGY DEVELOPMENT ON JOB CREATION	124,475.
CHICAGO PUBLIC MEDIA, INC. 848 E. GRAND AVE, NAVY PIER CHICAGO, IL 60611	NONE PC	TO SUPPORT SCIENCE-AND-TECHNOLOGY-THEMED EPISODES ON THE NERDETTTE PODCAST	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CITY COLLEGE OF NEW YORK - CUNY CONVENT AVENUE AT 138TH STREET NEW YORK, NY 10031	NONE PC	TO DEVELOP AN OPEN SOURCE FRAMEWORK FOR PROTOTYPING 3D SCIENTIFIC VISUALIZATION APPLICATIONS USING GAME ENGINES	125,000.
CODE FOR SCIENCE AND SOCIETY 1221 SE 34TH AVE. PORTLAND, OR 97214	NONE PC	TO SUPPORT BETTER USE OF SPREADSHEETS IN RESEARCH THROUGH CONTINUED DEVELOPMENT OF SOFTWARE THAT IS USER-FRIENDLY, DESIGNED TO INTEGRATE WITH EXISTING OPEN TOOLS AND LANGUAGES, CUSTOMIZABLE BY DISCIPLINE, AND SUPPORTIVE OF BEST PRACTICES IN DATA MANAGEMENT AND COMPUTATIONAL REPRODUCIBILITY	609,500.
CODE FOR SCIENCE AND SOCIETY 1221 SE 34TH AVE. PORTLAND, OR 97214	NONE PC	TO SUPPORT FURTHER DEVELOPMENT OF PREREVIEW, A PLATFORM TO IMPROVE THE TRAINING OF SCIENTISTS IN PEER REVIEW PRACTICES	65,780.
CODE FOR SCIENCE AND SOCIETY 1221 SE 34TH AVE. PORTLAND, OR 97214	NONE PC	TO PARTIALLY SUPPORT THE PRODUCTION OF A HANDBOOK ON BEST PRACTICES FOR OPEN SOURCE ACADEMIC SOFTWARE COMMUNITIES	34,300.
CODE FOR SCIENCE AND SOCIETY 1221 SE 34TH AVE. PORTLAND, OR 97214	NONE PC	TO SUPPORT COMMUNITY ENGAGEMENT AND BETA TESTING OF STENCILA SHEETS	123,240.
COLD SPRING HARBOR LABORATORY ONE BUNGTOWN RD COLD SPRING HARBOR, NY 11724	NONE PC	TO SUPPORT A BANBURY MEETING ON THE MICROBIOLOGY OF THE BUILT ENVIRONMENT	67,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COLD SPRING HARBOR LABORATORY ONE BUNGTOWN RD COLD SPRING HARBOR, NY 11724	NONE PC	TO SUPPORT A BANBURY MEETING ON SIGNALS OF TRUST WITHIN SCHOLARLY COMMUNICATION	67,100.
COLLEGE OF WILLIAM AND MARY P.O. BOX 8795 WILLIAMSBURG, VA 23187-8795	NONE GOV	TO DEVELOP THE INDOOR SURFACE EXTRACTOR/COLLECTOR	50,000.
COLORADO SCHOOL OF MINES 1500 ILLINOIS STREET GOLDEN, CO 80401	NONE GOV	TO EXAMINE BIODETERIORATION AND BIOCORROSION IN SPACEFLIGHT ECOSYSTEMS: IMPLICATIONS FOR MATERIAL/ MICROBIOME INTERACTIONS ON THE INTERNATIONAL SPACE STATION	70,000.
COLORADO SCHOOL OF MINES 1500 ILLINOIS STREET GOLDEN, CO 80401	NONE GOV	TO PROVIDE EARLY-CAREER ECONOMISTS AND OTHER SOCIAL SCIENTISTS WITH TRAINING AND AN UNDERSTANDING OF TECHNOLOGICAL DIMENSIONS OF ELECTRICITY DISTRIBUTION SYSTEMS	100,000.
COLORADO SCHOOL OF MINES 1500 ILLINOIS STREET GOLDEN, CO 80401	NONE GOV	TO CONTINUE A SUMMER SCHOOL TRAINING PROGRAM THAT PROVIDES EARLY CAREER ECONOMISTS AND SOCIAL SCIENTISTS WITH AN UNDERSTANDING OF TECHNOLOGICAL DIMENSIONS OF ELECTRICITY DISTRIBUTION SYSTEMS	116,236.
COLORADO STATE UNIVERSITY 1874 CAMPUS DELIVERY FORT COLLINS, CO 80523-6015	NONE GOV	TO DEVELOP AND TEST SOFTWARE TO IDENTIFY ISOMERS BASED ON DIFFERENCES IN BINDING ENERGY USING TIME-OF-FLIGHT CHEMICAL IONIZATION MASS SPECTROMETRY	253,684.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO ENCOURAGE THE NEXT GENERATION OF FILMMAKERS TO WRITE SCREENPLAYS AND PRODUCE SHORT FILMS ABOUT SCIENCE AND TECHNOLOGY THROUGH ENHANCED RESEARCH, MENTORSHIP, AND AWARD OPPORTUNITIES	96,000.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO SUPPORT THE COLUMBIA ENERGY EXCHANGE PODCAST SERIES TO DISSEMINATE INFORMATION AND DEEPEN DIALOGUE AROUND ENERGY AND ENVIRONMENT ISSUES	50,000.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO CONTINUE SUPPORT FOR THE WOMEN IN ENERGY PROGRAM AT THE CENTER ON GLOBAL ENERGY POLICY TO IMPROVE THE ENGAGEMENT OF WOMEN IN ENERGY POLICY, SECURITY, AND TECHNOLOGY COMMUNITIES	100,000.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO ENABLE GREATER USE OF MACHINE LEARNING TECHNIQUES IN SCIENTIFIC RESEARCH THROUGH TECHNICAL AND USER EXPERIENCE IMPROVEMENTS TO SCIKIT-LEARN	158,677.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO CONTINUE THE ENERGY JOURNALISM INITIATIVE AND EDUCATE JOURNALISTS ON RECENT RESEARCH TOPICS AND KEY FINDINGS RELATED TO ENERGY ECONOMICS, POLICY, SECURITY, AND TECHNOLOGY	220,591.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO PROVIDE CONTINUING SUPPORT FOR THE CENTER ON GLOBAL ENERGY POLICY'S EXTERNAL SPEAKER SERIES AND ROUNDTABLE DISCUSSIONS TO INCREASE STUDENT AND PUBLIC UNDERSTANDING OF KEY ENERGY ISSUES	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO EXAMINE HYDROLYSIS REACTIONS ON DAMP SURFACES AND THE IMPACT ON INDOOR AIR QUALITY	299,998.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO CONDUCT EXPERIMENTS ON THE BEHAVIORAL WELFARE EFFECTS OF HETEROGENEOUS NUDGING	149,933.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO DEVELOP A GLOBAL, SCALABLE, AND SUSTAINABLE TECHNICAL AND ORGANIZATIONAL INFRASTRUCTURE FOR PERSISTENT UNIQUE IDENTIFIERS OF PHYSICAL SCIENTIFIC SAMPLES	195,592.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DAVID KIPPING IN PHYSICS	65,000.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO PARTIALLY SUPPORT A SUMMIT OF DATA SCIENCE LEADERSHIP ACROSS US UNIVERSITIES	20,000.
COMMUNITY INITIATIVES 354 PINE STREET, STE 700 SAN FRANCISCO, CA 94104	NONE PC	TO SUPPORT THE DEVELOPMENT OF DATA AND COMPUTATIONAL SKILLS TRAINING CURRICULA IN IMAGE ANALYSIS, ECONOMICS, AND CHEMISTRY	260,150.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COMMUNITY INITIATIVES 354 PINE STREET, STE 700 SAN FRANCISCO, CA 94104	NONE PC	TO PARTIALLY SUPPORT THE FIRST CARPENTRYCON	19,500.
CONSUMER REPORTS 101 TRUMAN AVENUE YONKERS, NY 10703	NONE PC	TO RESEARCH CONSUMER ATTITUDES ON DIGITAL PRIVACY, CONVENE EXPERTS AND TEST TECHNOLOGY PLATFORMS ON THEIR PRIVACY PRACTICES, AND EDUCATE CONSUMERS ABOUT DIGITAL PRIVACY AND SECURITY	171,040.
COOLIDGE CORNER THEATRE FOUNDATION 290 HARVARD STREET BROOKLINE, MA 02446	NONE PC	TO SUSTAIN AND EXPAND THE NATIONAL SCIENCE ON SCREEN PROGRAM, WITH A FOCUS ON ENHANCED WEB AND SOCIAL MEDIA PROMOTION	280,000.
COOPER UNION FOR THE ADVANCEMET OF SCIENCE & ART 30 COOPER SQUARE, 8TH FLOOR NEW YORK, NY 10003	NONE PC	TO PROVIDE RENEWED SUPPORT FOR STEM SATURDAYS	275,000.
CORNELL UNIVERSITY 373 PINE TREE RD ITHACA, NY 14850-2820	NONE PC	TO SUPPORT RESEARCH FOR AND WRITING OF DATA DRIVEN: TRUCKERS AND THE NEW WORKPLACE SURVEILLANCE (PRINCETON UNIVERSITY PRESS 2018), A BOOK ABOUT DIGITAL SURVEILLANCE OF LONG-HAUL TRUCKERS AND DIGITAL SURVEILLANCE IN THE WORKPLACE	22,531.
CORNELL UNIVERSITY 373 PINE TREE RD ITHACA, NY 14850-2820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KIN FAI MAK IN PHYSICS, ORIGINALLY AWARDED TO THE PENNSYLVANIA STATE UNIVERSITY	13,902.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CORNELL UNIVERSITY 373 PINE TREE RD ITHACA, NY 14850-2820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JIN SUNTIVICH IN CHEMISTRY	65,000.
CORNELL UNIVERSITY 373 PINE TREE RD ITHACA, NY 14850-2820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KARTHIK SRIDHARAN IN COMPUTER SCIENCE	65,000.
CORNELL UNIVERSITY 373 PINE TREE RD ITHACA, NY 14850-2820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BRETT FORS IN CHEMISTRY	65,000.
CORNELL UNIVERSITY 373 PINE TREE RD ITHACA, NY 14850-2820	NONE PC	TO PROVIDE RENEWED SUPPORT TO EXAMINE HOW DISINFECTANTS MAY PROMOTE ANTIBIOTIC RESISTANCE THROUGH HORIZONTAL GENE TRANSFER	125,000.
COUNCIL FOR ECONOMIC EDUCATION 122 EAST 42ND STREET, STE 2600 NEW YORK, NY 10168	NONE PC	TO PROMOTE ECONOMICS EDUCATION IN METROPOLITAN NEW YORK HIGH SCHOOLS BY RECOGNIZING INNOVATIVE TEACHERS, SPREADING SUCCESSFUL METHODS, AND MOTIVATING DIVERSE STUDENTS	90,000.
COUNCIL ON FOREIGN RELATIONS 58 EAST 68TH STREET NEW YORK, NY 10065	NONE PC	TO ORGANIZE A WORKSHOP EXAMINING THE ECONOMIC, TECHNICAL, REGULATORY AND SECURITY IMPACTS OF CLIMATE RISKS ON ENERGY SYSTEMS	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COUNCIL ON FOUNDATIONS, INC. 2121 CRYSTAL DRIVE, SUITE 700 ARLINGTON, VA 22202	NONE PC	TO SUPPORT WORK ON BEHALF OF THE NONPROFIT AND CHARITABLE COMMUNITY	25,000.
COUNCIL ON LIBRARY AND INFO. RESOURCES 1707 L STREET NW, STE 650 WASHINGTON, DC 20036-2124	NONE PC	TO IMPROVE DATA MANAGEMENT PRACTICES IN ENERGY ECONOMICS AND POLICY ANALYSIS RESEARCH THROUGH A POSTDOCTORAL FELLOWSHIP PROGRAM IN DATA CURATION FOR ENERGY ECONOMICS	100,000.
COUNCIL ON LIBRARY AND INFO. RESOURCES 1707 L STREET NW, STE 650 WASHINGTON, DC 20036-2124	NONE PC	TO SUPPORT DATA AND SOFTWARE CURATION POSTDOCTORAL FELLOWSHIPS, IN ORDER TO DEVELOP EMERGING LEADERS IN THE FIELD AND BUILD CAPACITY WITHIN ACADEMIC LIBRARIES	200,000.
DARTMOUTH COLLEGE 11 ROPE FERRY RD HANOVER, NH 03755	NONE PC	TO STUDY, BY RUNNING BEHAVIORAL EXPERIMENTS, HOW CONSUMERS MAKE DECISIONS ABOUT INSURANCE PRODUCTS LIKE ANNUITIES	163,895.
DARTMOUTH COLLEGE 11 ROPE FERRY RD HANOVER, NH 03755	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TREB ALLEN IN ECONOMICS	65,000.
DARTMOUTH COLLEGE 11 ROPE FERRY RD HANOVER, NH 03755	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KATHERINE MIRICA IN CHEMISTRY	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
DECISION SCIENCE RESCH INSTITUTE, INC. 1201 OAK STREET, STE 200 EUGENE, OR 97401	NONE PC	TO CONDUCT SURVEYS, MEASUREMENTS, AND BEHAVIORAL EXPERIMENTS ABOUT PUBLIC PERCEPTIONS OF RISK USING NEW METHODS AND TECHNOLOGIES	309,410.
DIGITAL PUBLIC LIBRARY OF AMERICA, INC. P.O. BOX 426038 CAMBRIDGE, MA 02142	NONE PC	TO LEVERAGE DPLA'S NATIONAL NETWORK FOR THE CREATION OF A FREE EBOOK COLLECTION AVAILABLE IN 50 STATES AND A PILOT EBOOK MARKETPLACE FOR THOUSANDS OF LIBRARIES AND SCHOOLS	847,674.
DUKE UNIVERSITY 124 SCI'S DRIVE DURHAM, NC 27701	NONE PC	TO SUPPORT AN ENERGY DATA ANALYTICS PREDOCTORAL FELLOWS PROGRAM TO ADVANCE MULTIDISCIPLINARY TRAINING AND COLLABORATION AMONG EARLY CAREER RESEARCHERS IN ENERGY DATA ANALYTICS	77,000.
DUKE UNIVERSITY 124 SCI'S DRIVE DURHAM, NC 27701	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR LILLIAN PIERCE IN MATHEMATICS	65,000.
DUKE UNIVERSITY 124 SCI'S DRIVE DURHAM, NC 27701	NONE PC	TO LAUNCH AN INTERNATIONAL SUMMER SCHOOL ON COMPUTATIONAL SOCIAL SCIENCE	178,758.
EAST CAROLINA UNIVERSITY 2200 S. CHARLES BLVD GREENVILLE, NC 27858	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR REBECCA ASCH IN OCEAN SCIENCES	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ENSEMBLE STUDIO THEATRE, INC. 545 WEST 52ND STREET NEW YORK, NY 10019	NONE PC	TO COMMISSION, DEVELOP, PRODUCE AND DISSEMINATE NEW SCIENCE PLAYS IN NEW YORK AND ACROSS THE COUNTRY	600,000.
ENVIRONMENTAL DEFENSE FUND INC. 257 PARK AVENUE SOUTH NEW YORK, NY 10010	NONE PC	TO DESIGN AND IMPLEMENT A TRAINING AND NETWORKING PROGRAM THAT ENHANCES THE DEVELOPMENT OF EARLY-CAREER ENERGY AND ENVIRONMENTAL PROFESSIONALS	175,000.
ENVIRONMENTAL DEFENSE FUND INC. 257 PARK AVENUE SOUTH NEW YORK, NY 10010	NONE PC	TO UNDERSTAND THE ECONOMIC AND ENVIRONMENTAL IMPACTS OF COST-REFLECTIVE ELECTRICITY PRICING SCHEMES RELATED TO DISTRIBUTED ENERGY RESOURCES DEPLOYMENT	150,000.
ENVIRONMENTAL LAW INSTITUTE 1730 M STREET, NW, STE 700 WASHINGTON, DC 20036	NONE PC	TO GENERATE NOVEL, MULTI-DISCIPLINARY RESEARCH TO INCREASE UNDERSTANDING OF THE ENERGY AND ENVIRONMENTAL IMPACTS OF THE DIGITAL ECONOMY, WITH A FOCUS ON SHARING PLATFORMS, ARTIFICIAL INTELLIGENCE, AND BLOCKCHAIN TECHNOLOGIES	300,000.
FAIRFIELD UNIVERSITY 1073 NORTH BENSON RD FAIRFIELD, CT 06824	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF A BOOK ABOUT THE THALIDOMIDE SCANDAL OF THE 1960S TO BE PUBLISHED BY RANDOM HOUSE IN 2020	25,000.
FILM INDEPENDENT, INC. 5670 WILSHIRE BLVD., 9TH FLOOR LOS ANGELES, CA 90036	NONE PC	TO PROVIDE DIRECT SUPPORT TO DEVELOP AND DISTRIBUTE SCIENCE AND TECHNOLOGY SCRIPTS, TELEPLAYS, AND FILMS	200,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FLINT CULTURAL CENTER CORPORATION 601 E. SECOND STREET FLINT, MI 48503	NONE PC	TO SUPPORT THE SCIENCE DISCOVERY HALL AT THE SLOAN MUSEUM OF DISCOVERY IN FLINT, MICHIGAN, AND TO ADVANCE PUBLIC UNDERSTANDING OF SCIENCE TO AN UNDERSERVED POPULATION	300,000.
FOOD & ENVIRONMENT REPORTING NETWORK 576 FIFTH AVENUE, STE 903 NEW YORK, NY 10036	NONE PC	TO SUPPORT IMMERSIVE SCIENCE STORYTELLING ON THE GASTROPOD PODCAST AND A DIVERSITY EVALUATION AND IMPLEMENTATION PLAN	33,587.
FORCE11 4322 HORTENSIA STREET SAN DIEGO, CA 92103	NONE PC	TO PARTIALLY SUPPORT THE 2018 FUTURE OF RESEARCH COMMUNICATION AND ESCHOLARSHIP MEETING	20,000.
FOUNDATION CENTER 32 OLD SLIP, 24TH FLOOR NEW YORK, NY 10005-3500	NONE PC	TO SUPPORT WORK ON BEHALF OF THE NONPROFIT AND CHARITABLE COMMUNITY	75,000.
FPF EDUCATION AND INNOVATION FOUNDATION 1400 EYE STREET NW, STE 450 WASHINGTON, DC 20005	NONE PC	TO LAUNCH THE CORPORATE-ACADEMIC DATA STEWARDSHIP RESEARCH ALLIANCE, A PRIVATE COMPANY PEER-TO-PEER NETWORK TO ACCELERATE PRIVACY PROTECTIVE SHARING OF ADMINISTRATIVE DATA BETWEEN BUSINESSES AND ACADEMIC RESEARCHERS	178,463.
FRACTURED ATLAS 248 W. 35TH STREET, 10TH FLR NEW YORK, NY 10001	NONE PC	TO SUPPORT KAIMERA PRODUCTIONS IN AN IMMERSIVE INSTALLATION PERFORMANCE THAT BLENDS THEATER, MUSIC, DANCE, AND MULTIMEDIA, AND INVITES AUDIENCES TO QUESTION THE ETHICS OF DATA PRIVACY	30,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FUND FOR THE CITY OF NEW YORK 121 AVE OF THE AMERICAS, 6TH FLR NEW YORK, NY 10013	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE SLOAN PUBLIC SERVICE AWARDS PROGRAM	270,000.
FUND FOR THE CITY OF NEW YORK 121 AVE OF THE AMERICAS, 6TH FLR NEW YORK, NY 10013	NONE PC	TO IMPROVE LOCAL DECISION-MAKING BY CONTINUING TO BUILD TECHNICAL CAPACITY IN NYC BOROUGH PRESIDENT OFFICES AND COMMUNITY BOARDS	350,000.
GEORGE MASON UNIVERSITY 4400 UNIV. DRIVE FAIRFAX, VA 22030	NONE GOV	TO SUPPORT OUTREACH FOR AND ADOPTION OF PRESSFORWARD, A SOFTWARE PLATFORM FOR THE EDITORIAL CURATION OF ONLINE SCHOLARLY RESEARCH PRODUCTS	100,227.
GEORGETOWN UNIVERSITY 37TH & O STREET, NW WASHINGTON, DC 20057	NONE PC	TO BUILD COMMUNITY AND CONSENSUS AMONG ADMINISTRATIVE DATA RESEARCH FACILITIES BY SERVING AS A NETWORK HUB AND CONVENER	149,940.
GEORGETOWN UNIVERSITY 37TH & O STREET, NW WASHINGTON, DC 20057	NONE PC	TO PROMOTE THE SAFE AND RESPONSIBLE USE OF ADMINISTRATIVE DATA IN ACADEMIC RESEARCH BY ESTABLISHING AN ALLIANCE WHOSE MEMBER INSTITUTIONS INTERMEDIATE BETWEEN DATA PRODUCERS AND DATA USERS	715,730.
GEORGIA INSTITUTE OF TECHNOLOGY 837 STATE STREET ATLANTA, GA 30332	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR VINAYAK AGARWAL IN OCEAN SCIENCES	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
GEORGIA INSTITUTE OF TECHNOLOGY 837 STATE STREET ATLANTA, GA 30332	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR LUTZ WARNKE IN MATHEMATICS	65,000.
GEORGIA INSTITUTE OF TECHNOLOGY 837 STATE STREET ATLANTA, GA 30332	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BILAL HAIDER IN NEUROSCIENCE	65,000.
GEORGIA STATE UNIVERSITY RESCH FDN. 100 PIEDMONT AVENUE SE PETIT SCIENCE CENTER 319 ATLANTA, GA 30303	NONE PC	TO DEVELOP PROGRAMMING ESTABLISHING THE CASA SCIENCE FELLOWS PROGRAM, A STEM PHD PIPELINE FOR GEORGIA STATE UNIVERSITY STUDENTS	125,000.
GEORGIA STATE UNIVERSITY RESCH FDN. 100 PIEDMONT AVENUE SE PETIT SCIENCE CENTER 319 ATLANTA, GA 30303	NONE PC	TO CONDUCT RESEARCH ON THE RETURNS TO LATER-AGE DEGREES (FOR INDIVIDUALS 50 AND OLDER) IN TERMS OF WAGE PREMIUMS, EMPLOYMENT STABILITY, AND RETIREMENT INCOME	107,931.
GREATER WASHINGTON EDU. TELECOM. ASSOC. INC. 3939 CAMPBELL AVE ARLINGTON, VA 22206	NONE PC	TO SUPPORT PRODUCTION AND OUTREACH FOR THE GENE: AN INTIMATE HISTORY, A THREE-HOUR DOCUMENTARY, BASED ON SIDDHARTHA MUKHERJEE'S BOOK, TO AIR NATIONALLY ON PBS PRIMETIME	500,000.
GREATER WASHINGTON EDU. TELECOM. ASSOC. INC. 3939 CAMPBELL AVE ARLINGTON, VA 22206	NONE PC	TO CONTINUE WEEKLY BROADCAST OF PAUL SOLMAN'S ECONOMIC AND BUSINESS COVERAGE MAKING SENSE ON PBS NEWSHOUR AND TO SUPPORT ONLINE, SOCIAL AND MOBILE PLATFORMS WITH RELATED CONTENT AND TO SUPPORT AN EVALUATION	1,035,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
GUIDESTAR USA, INC. 4801 COURTHOUSE STREET, SUITE 220 WILLIAMSBURG, VA 23188	NONE PC	TO SUPPORT WORK ON BEHALF OF THE NONPROFIT AND CHARITABLE COMMUNITY	10,000.
HACKNY P.O. BOX 176 NEW YORK, NY 10276-0176	NONE PC	TO SUPPORT THE LOCAL NYC TECH STARTUP COMMUNITY THROUGH COMMUNITY EVENTS, HACKATHONS, AND SUMMER FELLOWSHIPS; AND TO HELP HACKNY DEVELOP AND EXECUTE ON NEW SUSTAINABILITY MODELS TO SUPPORT THESE ACTIVITIES IN THE FUTURE	198,950.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO INCREASE BOTH THE NUMBER OF MINORITY STUDENTS ENTERING TOP PH.D. PROGRAMS IN ECONOMICS AND ECONOMICS RELATED FIELDS AND THE DIVERSITY OF THE ECONOMICS FACULTIES AND WORK FORCE	300,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO SUPPORT RESEARCH THAT ADDRESSES HOW WORK CONDITIONS SHAPE OBSERVED EMPLOYMENT TRANSITIONS OF OLDER WORKERS AND HOW AGE AND EMPLOYMENT STATUS AFFECT PREFERENCES FOR WORKING CONDITIONS	280,132.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP A BETTER AND MORE COHESIVE UNDERSTANDING OF CURRENT AND FUTURE TRENDS IN AGING AND LABOR FORCE PARTICIPATION IN THE UNITED STATES AND TO IMPART THAT INFORMATION TO THE GENERAL PUBLIC	179,279.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO RENEW AN INTERDISCIPLINARY, POSTDOCTORAL TRAINING PROGRAM CALLED THE "SLOAN FELLOWSHIP ON AGING AND WORK" THAT ADDRESSES THE CHALLENGES OF AGING SOCIETIES AND LABOR FORCE PARTICIPATION	102,649.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO EXAMINE THE ROLE OF TECHNOLOGY AND KNOWLEDGE SPILLOVERS IN THE DEVELOPMENT OF NOVEL CLEAN ENERGY TECHNOLOGIES	221,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO IMPROVE THE ABILITY TO CURATE AND VERIFY REPLICATION DATASETS WITHIN THE DATAVERSE DATA ARCHIVING PLATFORM THROUGH A SUITE OF SOFTWARE CONTAINERIZATION AND METADATA TOOLS, AND TO SUPPORT THE DEVELOPMENT OF A NEW DATA CURATION SERVICE AT THE HARVARD DATAVERSE	246,988.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ISAIAH ANDREWS IN ECONOMICS, ORIGINALLY AWARDED TO MASSACHUSETTS INSTITUTE OF TECHNOLOGY	65,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO COMPARE, BOTH THEORETICALLY AND EMPIRICALLY, STANDARD VERSUS IDEAL WAYS OF DETERMINING WHICH KINDS OF STATISTICAL FINDINGS MERIT PUBLICATION	125,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR FINALE DOSHI-VELEZ IN COMPUTER SCIENCE	65,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YARON SINGER IN COMPUTER SCIENCE	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SAMUEL GERSHMAN IN NEUROSCIENCE	65,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR STEFANIE STANTCHEVA IN ECONOMICS	65,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP NEW STATISTICAL METHODS THAT IMPROVE BOTH THE IDENTIFICATION OF CAUSAL EFFECTS IN OBSERVATIONAL STUDIES AS WELL AS THE GENERALIZABILITY OF RANDOMIZED EXPERIMENTS	107,864.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO FASHION FUNDAMENTAL CONCEPTS AND MODELS FOR BEHAVIORAL ECONOMICS BASED ON THEORIES OF CONTEXT-DEPENDENT CHOICE	100,000.
HVERFORD COLLEGE 370 W LANCASTER AVE HVERFORD, PA 19041	NONE PC	TO TEACH MORE UNDERGRADUATE SOCIAL SCIENTISTS ABOUT INTEGRITY, TRANSPARENCY, AND REPRODUCIBILITY IN EMPIRICAL RESEARCH	100,000.
HOPEWELL FUND 1201 CONNECTICUT AVE NW, STE 300 WASHINGTON, DC 20036	NONE PC	TO DEVELOP CENTRALIZED COORDINATION CAPACITY WITHIN THE DATA SCIENCE ENVIRONMENT PARTNERSHIP FOR ALUMNI NETWORKING, EVALUATION, AND INTERNAL AND EXTERNAL COMMUNICATIONS	129,429.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HOPEWELL FUND 1201 CONNECTICUT AVE NW, STE 300 WASHINGTON, DC 20036	NONE PC	TO PARTIALLY SUPPORT A SECOND SUMMIT OF DATA SCIENCE LEADERSHIP ACROSS US UNIVERSITIES	20,000.
HUNTER COLLEGE FOUNDATION 695 PARK AVE, EAST BLDG., ROOM 1313 NEW YORK, NY 10065	NONE PC	TO EXPAND UPON A JUST-COMPLETED, SLOAN-FUNDED PROJECT TO PRODUCE ENTERPRISE JOURNALISM ABOUT THE TRENDS, STRUCTURES, AND PROGRAMS SHAPING THE WORK LIVES OF OLDER AMERICANS	125,000.
HYPOTHESIS PROJECT 2261 MARKET STREET, #632 SAN FRANCISCO, CA 94114	NONE PC	TO PARTIALLY SUPPORT A WORKSHOP AND HACKATHON TO DEVELOP A JOINT ROADMAP FOR OPEN SCIENCE SOFTWARE TOOLS	12,000.
IDEAS42 80 BRD STREET, 30TH FL NEW YORK, NY 10004	NONE PC	TO FIELD TEST HOW MACHINE-LEARNING ALGORITHMS COMPARE WITH TRADITIONAL TECHNIQUES FOR ESTIMATING HETEROGENEOUS EFFECTS IN BEHAVIORAL EXPERIMENTS	189,873.
IEEE FOUNDATION, INC. 345 EAST 47TH STREET NEW YORK, NY 10017	NONE PC	TO SUPPORT ENHANCED ANIMATION AND GRAPHICS FOR A FEATURE DOCUMENTARY ABOUT CLAUDE SHANNON, THE FATHER OF INFORMATION THEORY	125,000.
INDIANA UNIVERSITY 150 SOUTH WOODLAWN BLOOMINGTON, IN 47405	NONE PC	TO EXAMINE RADICAL CONCENTRATIONS AND ASSOCIATED AEROSOL PRODUCTION IN INDOOR ENVIRONMENTS	269,843.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
INNOVATIONS FOR POVERTY ACTION 101 WHITNEY AVENUE NEW HAVEN, CT 06510	NONE PC	TO STUDY THE BEHAVIORAL WELFARE ECONOMICS OF POTENTIAL INTERVENTIONS IN FOUR KINDS OF CRITICAL CONSUMER DECISIONS	120,000.
INSTITUTE OF INTERNATIONAL EDUCATION 809 UNITED NATIONS PLAZA NEW YORK, NY 10017	NONE PC	TO PROVIDE 25 LIFE-SAVING FELLOWSHIPS AND ACADEMIC PLACEMENTS FOR PERSECUTED SCHOLARS FROM AROUND THE WORLD OVER THREE YEARS	250,000.
INTERNATIONAL DOCUMENTARY ASSOCIATION 1201 WEST 5TH STREET, M320 LOS ANGELES, CA 90017-2029	NONE PC	TO SUPPORT A DOCUMENTARY ON ARTIFICIAL INTELLIGENCE AND THE DEVELOPMENT OF A CAMERABOT DEVICE THAT WILL FUNCTION AUTONOMOUSLY AS THE DIRECTOR AND CAMERAMAN	25,000.
ITHAKA HARBORS INC. 2 RECTOR STREET, 18TH FL NEW YORK, NY 10065-8112	NONE PC	TO PARTIALLY SUPPORT THE SECOND BOWEN COLLOQUIUM	20,000.
JACOB BURNS FILM CENTER, INC. 405 MANVILLE RD PLEASANTVILLE, NY 10570	NONE PC	TO PRODUCE A FEATURE-LENGTH DOCUMENTARY ON THE BLUE BRAIN PROJECT TO BUILD A FULL-SCALE, SELF-AWARE SIMULATION OF THE HUMAN BRAIN	44,678.
JARED FARMER 534 PROSPECT AVENUE, APT. 2R NEW YORK, NY 11215	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF A BOOK ON THE HUMAN RELATIONSHIP WITH TREES AND WHAT IT SAYS ABOUT OUR LARGER RELATIONSHIP WITH NATURE, ANCIENT TREES IN MODERN TIMES: A NATURAL HISTORY OF LONG-TERM RELATIONSHIPS	25,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
JEFFREY HECHT 525 AUBURN STREET AUBURNDALE, MA 02466	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF A BOOK ON THE HISTORY OF LASER WEAPONS, INCLUDING RECENT INNOVATIONS	33,000.
JOHN M. JOHNSON JR. 215 E. SUMMER STREET, APT. 4 OJAI, CA 93023	NONE I	TO SUPPORT A BOOK ABOUT THE ASTROPHYSICIST FRITZ ZWICKY AND THE SEARCH FOR DARK MATTER	38,517.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	TO SUPPORT THE ADOPTION OF THE SCISERVER RESEARCH DATA PLATFORM BY NEW SCIENTIFIC COMMUNITIES	536,063.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	TO FUND THE OPEN CHEMISTRY COLLABORATIVE IN DIVERSITY EQUITY (OXIDE) TO ADVANCE DIVERSITY AND INCLUSION, AND REDUCE DIVERSITY INEQUITIES THROUGHOUT THE ACADEMIC CAREER LADDER IN CHEMISTRY DEPARTMENTS NATIONWIDE	125,000.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	TO DEVELOP A FRAMEWORK FOR UPDATING THE DIGITAL CURATION CENTRE CURATION LIFECYCLE MODEL	19,124.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	TO ASSESS THE COMPLETENESS AND COMPREHENSIVENESS OF EXISTING UNITED STATES ENERGY INFRASTRUCTURE DATASETS	65,456.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JANICE CHEN IN NEUROSCIENCE	65,000.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SHIGEKI WATANABE IN NEUROSCIENCE	65,000.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SUCHI SARIA IN COMPUTER SCIENCE	65,000.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YI LI IN PHYSICS	65,000.
JULIA COMPUTING 20 GARLAND RD NEWTON, MA 02459	NONE NC	TO SUPPORT THE CONTINUED DEVELOPMENT OF THE JULIA PROGRAMMING LANGUAGE	406,206.
L.A. THEATRE WORKS 681 VENICE BOULEVARD VENICE, CA 90291	NONE PC	TO RECORD FOUR NEW SLOAN PLAYS FOR PUBLIC RADIO BROADCAST AND ONLINE STREAMING, AND TO DEVELOP A NEW 12-PLAY PODCAST WHILE DISSEMINATING 20 SCIENCE PLAYS TO MILLIONS OF PEOPLE AND THOUSANDS OF LIBRARIES AND SCHOOLS	250,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
LYDIA DENWORTH 156 6TH AVENUE BROOKLYN, NY 11217	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF FRIENDSHIP: A NATURAL HISTORY, TO BE PUBLISHED BY W.W. NORTON IN 2019	19,000.
LYRASIS 1438 WEST PEACHTREE ST. NW, STE 150 ATLANTA, GA 30309-2955	NONE PC	TO CONDUCT A FEASIBILITY STUDY TO ASSESS THE POTENTIAL FOR DEVELOPMENT OF THE OPEN SOURCE SIMPLYE EBOOK PLATFORM TO SERVE THE ACADEMIC COMMUNITY	20,000.
MANHATTAN THEATRE CLUB 311 WEST 43RD STREET, 8TH FLOOR NEW YORK, NY 10036	NONE PC	TO SUPPORT THE MTC/SLOAN INITIATIVE COMMISSIONING, DEVELOPING, AND PRODUCING NEW SCIENCE AND TECHNOLOGY PLAYS	216,667.
MARINE BIOLOGICAL LABORATORY 7 MBL ST WOODS HOLE, MA 02543	NONE PC	TO INTEGRATE AND SYNTHESIZE THE ACTIVITIES OF THE DEEP LIFE COMMUNITY OF THE DEEP CARBON OBSERVATORY	700,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO CONDUCT AN ASSESSMENT OF THE OPPORTUNITIES AND CHALLENGES ASSOCIATED WITH THE FUTURE OF NEXT GENERATION NUCLEAR ENERGY TECHNOLOGIES	300,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO CONTINUE CORE SUPPORT FOR A RESEARCH NETWORK THAT PROMOTES THE RIGOROUS EMPIRICAL STUDY OF ECONOMIC ISSUES IN NORTH AMERICA	998,325.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO IMPROVE THE CREDIBILITY OF EMPIRICAL ECONOMICS BY TURNING BEST-PRACTICES FOR RESEARCH TRANSPARENCY INTO COMMON PRACTICE FOR RESEARCH PRACTITIONERS	150,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO PROVIDE FINAL SUPPORT IN COMPLETING THE FIRST PHASE OF A PROJECT EXAMINING THE COMPONENT COSTS OF BATTERY CHEMISTRIES AND TRAIN THE NEXT GENERATION OF SCHOLARS IN ENERGY SYSTEMS ANALYSIS	125,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO DEVELOP A LOW-COST MONITOR FOR MEASUREMENTS OF VOLATILE ORGANIC COMPOUNDS IN THE INDOOR ENVIRONMENT	299,424.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO SUPPORT THE GROWTH OF TWELVE NEW SCIENCE FESTIVAL INITIATIVES IN COMMUNITIES ACROSS THE COUNTRY WITH SMALL RESOURCE BASES WITH A SPECIAL NEW EMPHASIS ON DIVERSITY	185,787.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ALEX K. SHALEK IN CHEMISTRY	65,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KEVIN ESVELT IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR STEFANIE JEGELKA IN COMPUTER SCIENCE	65,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TAMARA BRODERICK IN MATHEMATICS	65,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TRISTAN COLLINS IN MATHEMATICS ORIGINALLY AWARDED TO HARVARD UNIVERSITY	65,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANDREI NEGUT IN MATHEMATICS	65,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR GABRIELA SCHLAU-COHEN IN CHEMISTRY	65,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RICCARDO COMIN IN PHYSICS	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO PRODUCE A COMPREHENSIVE, MULTIDISCIPLINARY FUTURE OF STORAGE STUDY THAT WILL CONSIDER THE ROLE KEY STORAGE TECHNOLOGIES MIGHT PLAY IN ELECTRICITY SYSTEMS OVER DIFFERENT TIME SCALES AND SERVICE REQUIREMENTS	450,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	SUPPORT FOR THE PRELIMINARY STAGES OF A MIT PRESS BOOK AND FILM PROJECT ON WOMEN IN STEM FIELDS AND THE SEMINAL 1999 REPORT "A STUDY ON THE STATUS OF WOMEN FACULTY IN SCIENCE AT MIT."	20,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO SUPPORT UP TO FOUR UNDERGRADUATE STUDENTS PLANNING FOR PHD PROGRAMS FROM THE UNIVERSITY OF PUERTO RICO SYSTEM FOR A SEMESTER (SPRING 2018) OF STUDY AT THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	50,000.
MATHEMATICAL SCIENCES RESCH INSTITUTE 17 GAUSS WAY BERKELEY, CA 94720-5070	NONE PC	TO SUPPORT THE 2019 AND 2021 NATIONAL MATH FESTIVALS, EVENTS THAT INCREASE THE APPRECIATION FOR MATHEMATICS AND MATHEMATICAL RESEARCH THROUGH THE ARTS, ENGAGING LECTURES, AND INTERACTIVE ACTIVITIES	250,000.
MAURA R. O'CONNOR 160 PARKSIDE AVENUE, 10B BROOKLYN, NY 11226	NONE I	TO SUPPORT WAYFINDING: THE MYSTERY AND SCIENCE OF HUMAN NAVIGATION IN THE AGE OF GPS, A NONFICTION TRADE BOOK ON HUMAN NAVIGATION TO BE PUBLISHED BY ST. MARTIN'S PRESS IN 2018	32,100.
MCGILL UNIVERSITY 3600 RUE UNIVERSITY, MONTREAL QUEBEC CANADA H3A 2T8	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR STUART TRENHOLM IN NEUROSCIENCE	65,000.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MCGILL UNIVERSITY 3600 RUE UNIVERSITY, MONTREAL QUEBEC CANADA H3A 2T8	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR HAMED SHATERI NAJAFABADI IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.
MEMORIAL SLOAN-KETTERING CANCER CENTER 1275 YORK AVE NEW YORK, NY 10065	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DANIEL BACHOVCHIN IN CHEMISTRY	65,000.
MICHELLE NIJHUIS P.O.BOX 2273 WHITE SALMON, WA 98672	NONE I	TO SUPPORT THE RESEARCH, FACT-CHECKING, AND PROMOTION OF A BOOK ABOUT THE SPECIES CONSERVATION MOVEMENT TO BE PUBLISHED BY W.W. NORTON IN 2020	20,000.
MICHIGAN STATE UNIVERSITY 619 RED CEDAR RD EAST LANSING, MI 48824	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR THOMAS WALPUSKI IN MATHEMATICS	65,000.
MICHIGAN TECHNOLOGICAL UNIVERSITY 1400 TOWNSEND DR. HOUGHTON, MI 49931	NONE GOV	TO SUPPORT A MULTIDISCIPLINARY RESEARCH PROJECT THAT SCOPES THE FEASIBILITY OF USING DECOMMISSIONED MINES AS UNDERGROUND PUMPED-STORAGE HYDROPOWER	49,963.
MIDDLEBURY COLLEGE 287 BICENTENNIAL WAY MIDDLEBURY, VT 05753	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF AN UPDATED VERSION OF THE 1993 SLOAN-SUPPORTED BOOK NUCLEAR CHOICES: A CITIZEN'S GUIDE TO NUCLEAR TECHNOLOGY TO BE PUBLISHED BY MIT PRESS	22,761.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MILLER-MCCUNE CTR. FOR RSRCH MEDIA & PUB. POLICY 801 GARDEN STREET, SUITE 101 SANTA BARBARA, CA 93101	NONE POF	TO SUPPORT TRAVEL BY ACADEMIC RESEARCHERS TO THE 2019 SOCIAL SCIENCE FOO CAMP	50,000.
MONTANA STATE UNIVERSITY, BOZEMAN 309 MONTANA HALL, PO BOX 172470 BOZEMAN, MT 59717	NONE GOV	TO SUPPORT A BOOK ON THE EVOLUTIONARY AND ECOLOGICAL SCIENCE UNDERLYING AGRICULTURE, ETERNAL HARVEST: AN EXTRAORDINARY BIOGRAPHY OF WHEAT, TO BE PUBLISHED BY UNIVERSITY OF CHICAGO PRESS	28,417.
MOZILLA FOUNDATION 331 E. EVELYN AVENUE MOUNTAIN VIEW, CA 94041	NONE PC	TO INCREASE OPEN SOURCE PROJECT AND COMMUNITY MANAGEMENT CAPACITY AND BUILD COMMUNITY AMONG SCIENTIFIC SOFTWARE DEVELOPERS	250,000.
MURDOMO INSTITUTE, INC. 340 S LEMON AVE #6071 WALNUT, CA 91798	NONE PC	TO SUPPORT COMMUNITY OF MICROBES, A DYNAMIC, AUGMENTED REALITY-ENABLED INTERACTIVE EXPERIENCE THAT INTRODUCES AUDIENCES TO MICROORGANISM ECOSYSTEMS	50,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO HEIGHTEN QUALITY, VIGOR, AND INNOVATION IN THE U.S. STEM ENTERPRISE BY INCREASING THE DIVERSITY OF INDIVIDUALS, RESEARCH TEAMS, AND LEADERSHIP THROUGH A CONSENSUS STUDY AND ONLINE RESOURCE GUIDE ON EFFECTIVE MENTORING PROGRAMS AND PRACTICES	200,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO SUPPORT THE DEVELOPMENT OF A NOBEL PRIZE-LEVEL SCIENCE COMMUNICATION PRIZE AND ACTIVITIES AT THE ARTHUR M. SACKLER COLLOQUIUM ON MISINFORMATION, TO BE HELD APRIL 3 AND 4, 2019	56,982.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO DISSEMINATE BROADLY THE NEW NATIONAL ACADEMIES REPORT ON SEXUAL HARASSMENT OF WOMEN TO VARIOUS STAKEHOLDERS, AND TO MOTIVATE AND DOCUMENT CHANGE AT 2-YEAR AND 4-YEAR COLLEGES AND UNIVERSITIES	110,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO REPORT ON HOW SOCIAL AND BEHAVIORAL INSIGHTS CAN IMPROVE THE RELIABILITY AND REPRODUCIBILITY OF SCIENTIFIC FINDINGS	120,595.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO CONVENE AN INTERNATIONAL WORKSHOP THAT WILL PLAN GLOBAL COOPERATION AND COORDINATION CONCERNING ARTIFICIAL INTELLIGENCE RESEARCH AND ITS APPLICATIONS	186,528.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWAY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO SUPPORT THE ALFRED P. SLOAN MINORITY PH.D. PROGRAM (MPHD) THROUGH PHASE 1 RENEWAL GRANTS FOR UNIVERSITY CENTERS OF EXEMPLARY MENTORING (UCEMS) AT CORNELL UNIVERSITY, GEORGIA INSTITUTE OF TECHNOLOGY, AND THE PENNSYLVANIA STATE UNIVERSITY	800,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWAY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO MANAGE EFFECTIVELY AND EFFICIENTLY THE FOUNDATION'S PORTFOLIO OF GRADUATE SCHOLARSHIP PROGRAMS	250,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWAY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO SUPPORT A NEW ALFRED P. SLOAN MINORITY PH.D. (MPHD) UNIVERSITY CENTER OF EXEMPLARY MENTORING (UCEM) PROGRAM AT DUKE UNIVERSITY (COMBINING \$700,000 IN NEW FUNDING WITH \$300,000 IN UNSPENT NACME FUNDS)	150,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWAY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO SUPPORT SCHOLARSHIPS AND PROGRAM EXPENSES FOR A THREE-YEAR RENEWAL OF A UNIVERSITY CENTER OF EXEMPLARY MENTORING (UCEM) AT THE UNIVERSITY OF SOUTH FLORIDA	150,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWAY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO PROVIDE SCHOLARSHIP SUPPORT FOR THE SLOAN INDIGENOUS GRADUATE PARTNERSHIP (SIGP) ENABLING CONSORTIUM MEMBERS TO RECRUIT, SUPPORT, AND GRADUATE INDIGENOUS STUDENTS EARNING GRADUATE DEGREES IN STEM DISCIPLINES	500,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWAY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO SUPPORT THE ALFRED P. SLOAN MINORITY PH.D. PROGRAM (MPHD) THROUGH PHASE 3 RENEWAL GRANTS FOR UNIVERSITY CENTERS OF EXEMPLARY MENTORING (UCEMS) AT MASSACHUSETTS INSTITUTE OF TECHNOLOGY, UNIVERSITY OF CALIFORNIA, SAN DIEGO AND THE UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	1,000,000.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO SUPPORT DISSERTATION-STAGE RESEARCH BY ECONOMICS DOCTORAL STUDENTS WORKING ON A RANGE OF LABOR MARKET ISSUES RELATED TO AN AGING POPULATION	200,000.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO SUPPORT THE NBER SUMMER INSTITUTE	266,340.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO EXAMINE THE LINK BETWEEN THE RECEDING RETIREMENT AGE OF OLDER WORKERS AND THE SHIFTS IN DEMAND FOR THESE WORKERS ASSOCIATED WITH THE EXPANSION OF ARTIFICIAL INTELLIGENCE AND ROBOTIC SUBSTITUTES	287,500.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO RENEW SUPPORT FOR A THREE-YEAR POSTDOCTORAL PROGRAM ON THE ECONOMICS OF THE AGING WORKFORCE	127,075.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE INTERNATIONAL SOCIAL SECURITY (ISS) PROJECT IN ORDER TO UNDERSTAND HOW LABOR FORCE PARTICIPATION RESPONDS TO SOCIAL SECURITY REFORMS IN 12 COUNTRIES AND TO DRAW LESSONS FOR THE UNITED STATES	195,500.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO COMPARE THE RETIREMENT PATHS OF PUBLIC AND PRIVATE EMPLOYEES, ASSESSING DIFFERENCES IN WORKING CONDITIONS, RETIREMENT BENEFITS, AND GOVERNMENT REGULATIONS AND IMPACTS ON THE AGE OF RETIREMENT FROM CAREER JOBS AND THE LIKELIHOOD OF POST-RETIREMENT WORK	156,500.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO ORGANIZE AND SUPPORT INNOVATIVE RESEARCH ON THE ECONOMICS OF DIGITIZATION	190,000.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO CONTINUE SUPPORT FOR PREDOCTORAL RESEARCH AND TRAINING FELLOWSHIPS IN ENERGY ECONOMICS	338,875.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO SUPPORT A TWO-YEAR PHASE OF COLLABORATIVE STUDY ON FACILITATING WORK AT OLDER AGES	126,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO DEVELOP NEW DISSEMINATION CHANNELS FOR RIGOROUS, NONPARTISAN RESEARCH IN ENVIRONMENTAL AND ENERGY ECONOMICS THROUGH A NEW FORUMS FOR RESEARCH PRESENTATION AND PUBLICATION	232,372.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO ASCERTAIN CURRENT POLICIES OF LARGE COMPANIES TOWARD OLDER EMPLOYEES WORKING BEYOND TRADITIONAL RETIREMENT AGES	97,348.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO BUILD A RESEARCH COMMUNITY ON THE ECONOMICS OF SCIENCE BY HOLDING REGULAR CONFERENCES AND BY OTHER COMMUNITY-BUILDING ACTIVITIES	61,554.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO DEVELOP AN ACTIVE AND DIVERSE RESEARCH COMMUNITY THAT STUDIES THE ECONOMICS OF ARTIFICIAL INTELLIGENCE	304,750.
NATIONAL BUREAU OF ECONOMIC RESCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO PRODUCE PAPERS, CONFERENCES, AND A BOOK ON HOW ADMINISTRATIVE AND OTHER BIG DATASETS CAN ENHANCE THE CALCULATION OF OFFICIAL FEDERAL STATISTICS	110,527.
NATIONAL FEDN OF ABSTRACTING & INFO. SERVICES 801 COMPASS WAY, STE 201 ANNAPOLIS, MD 21401	NONE PC	TO PARTIALLY SUPPORT A WORKSHOP ON BLOCKCHAIN APPLICATIONS IN SCHOLARLY COMMUNICATIONS	16,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL INFO. STANDARDS ORGANIZATION 3600 CLIPPER MILL RD, STE 302 BALTIMORE, MD 21211	NONE PC	TO SUPPORT THE IMPLEMENTATION OF MATHML IN THE OPEN SOURCE CHROMIUM BROWSER	197,372.
NATIONAL PRESS FOUNDATION 1211 CONNECTICUT AVE NW, STE 310 WASHINGTON, DC 20036	NONE PC	TO DEMONSTRATE HOW HOMECEM ACTIVITIES CAN BE TRANSLATED FOR A LAY AUDIENCE VIA JOURNALISM	5,540.
NATIONAL PUBLIC RADIO, INC. 1111 NORTH CAPITOL STREET, NE WASHINGTON, DC 20002	NONE PC	TO DEEPEN AND EXPAND PLANET MONEY'S COVERAGE OF ECONOMICS VIA PODCAST EPISODES, ON-AIR RADIO STORIES, AND PARTICIPATORY JOURNALISM	200,000.
NATIONAL SCIENCE COMMUNICATION INSTITUTE 2320 N 137TH ST SEATTLE, WA 98133	NONE PC	TO SUPPORT TWO REGIONAL MEETINGS ON THE FUTURE OF SCHOLARLY COMMUNICATION AS WELL AS THE LAUNCH OF THE RESEARCH & SCHOLARLY COMMUNICATION NETWORK	20,000.
NESTA 58 VICTORIA EMBANKMENT LONDON UNITED KINGDOM EC4Y 0DS	NONE NC	TO HOLD A CONFERENCE ON EXPERIMENTAL AND EVIDENCE-BASED METHODS FOR STUDYING DISCOVERY, INNOVATION, AND GROWTH	20,000.
NEW YORK ACADEMY OF SCIENCES 7 WTC, 250 GREENWICH ST., 40TH FL. NEW YORK, NY 10007-2157	NONE PC	TO EXPAND THE DEVELOPING PILOT PROGRAM, SCIENCE ALLIANCE LEADERSHIP TRAINING (SALT), TO TRAIN 90 DIVERSE, ADVANCED DOCTORAL STUDENTS TO LEAD INSTITUTIONAL CHANGE THROUGH ACQUISITION OF STRONG ENTREPRENEURIAL, INTERPERSONAL, AND TECHNICAL SKILLS	151,144.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW YORK ACADEMY OF SCIENCES 7 WTC, 250 GREENWICH ST., 40TH FL. NEW YORK, NY 10007-2157	NONE PC	TO SUPPORT A MULTIDISCIPLINARY SYMPOSIUM AND PANEL ON SCIENCE DENIALISM	40,000.
NEW YORK PUBLIC RADIO 160 VARICK STREET NEW YORK, NY 10013	NONE PC	FOR PRODUCTION AND ENHANCED DISTRIBUTION OF RADIOLAB, AN INNOVATIVE AND POPULAR SCIENCE-THEMED RADIO SHOW, VIA MULTIPLE PLATFORMS	150,000.
NEW YORK PUBLIC RADIO 160 VARICK STREET NEW YORK, NY 10013	NONE PC	TO SUPPORT STORY-DRIVEN HEALTH CARE REPORTING AT WNYC, INCLUDING COVERAGE OF HEALTH CARE POLICY AND ECONOMICS, MEDICAL SCIENCE AND DISCOVERY, AND PERSONAL HEALTH	250,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	FOR SCREENWRITING AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS BY TOP FILM STUDENTS	157,890.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	TO SUPPORT THE DEVELOPMENT OF AND DATA EXCHANGE BETWEEN DATAVYU (A TOOL FOR VIDEO CODING) AND DATABRARY (A PLATFORM FOR ARCHIVING AND CONTROLLED SHARING OF VIDEO DATA)	186,628.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	TO FURTHER DEVELOP THE PH.D. EXCELLENCE INITIATIVE TO CHANGE THE FACE OF U.S. ECONOMICS DEPARTMENTS BY PREPARING A SELECT CADRE OF HIGH-ACHIEVING POST-BACCALAUREATE STUDENTS OF COLOR FOR THE RIGORS OF PH.D. STUDY IN THE FIELD	180,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	TO STUDY HOW ATTENTION AND PERCEPTION AFFECT MICROECONOMIC BEHAVIORS AND MACROECONOMIC OUTCOMES	142,611.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	TO INVESTIGATE HOW ACADEMICS ARE USING GIT HOSTING PLATFORMS AND HOW THOSE PLATFORMS CAN BE BETTER ADAPTED TO ACADEMIC NEEDS	186,897.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOAN BRUNA ESTRACH IN MATHEMATICS	65,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AFONSO BANDEIRA IN MATHEMATICS	65,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MIRANDA HOLMES-CERFON IN MATHEMATICS	65,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TIANNING DIAO IN CHEMISTRY	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	TO ASSESS WHETHER MANDATORY BUILDING ENERGY AUDITS IN NEW YORK CITY CONTRIBUTE TO MEANINGFUL REDUCTIONS IN BUILDING ENERGY USE	20,000.
NORTH CAROLINA STATE UNIVERSITY 121 PEELE HALL RALEIGH, NC 27695	NONE GOV	TO PROVIDE A COMPREHENSIVE ANALYSIS OF PUBLIC EMPLOYEES' TRANSITION BETWEEN CAREER EMPLOYMENT AND FULL RETIREMENT	179,655.
NORTH CAROLINA STATE UNIVERSITY 121 PEELE HALL RALEIGH, NC 27695	NONE GOV	TO SUPPORT RESEARCH AND WRITING OF A BOOK, "NEVER HOME ALONE," THAT ENGAGES THE GENERAL PUBLIC IN THE HISTORY AND SCIENCE OF THE MICROBIOLOGY OF THE BUILT ENVIRONMENT	30,000.
NORTH CAROLINA STATE UNIVERSITY 121 PEELE HALL RALEIGH, NC 27695	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TYE LIDMAN IN MATHEMATICS	65,000.
NORTH CAROLINA STATE UNIVERSITY 121 PEELE HALL RALEIGH, NC 27695	NONE GOV	TO CO-FUND A WORKSHOP ON DATA SCIENCE WITHIN LAND GRANT UNIVERSITIES	48,002.
NORTHEASTERN UNIVERSITY 360 HUNTINGTON AVE BOSTON, MA 02115	NONE PC	TO SUPPORT AN INTENSIVE, YEAR-LONG ACADEMIC LEADERSHIP PROGRAM FOR 40-50 MID-CAREER STEM FACULTY OF COLOR FROM A CONSORTIUM OF SEVEN BOSTON-AREA UNIVERSITIES	125,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NORTHEASTERN UNIVERSITY 360 HUNTINGTON AVE BOSTON, MA 02115	NONE PC	TO DEVELOP A PLAN FOR FACILITATING RESPONSIBLE AND REPRODUCIBLE RESEARCH ON ADMINISTRATIVE DATA FROM MULTIPLE SOCIAL MEDIA SOURCES	125,000.
NORTHEASTERN UNIVERSITY 360 HUNTINGTON AVE BOSTON, MA 02115	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DANIEL WICHS IN COMPUTER SCIENCE	65,000.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO IMPROVE TEACHING AND RESEARCH IN QUANTITATIVE ECONOMICS BY DEVELOPING CODEBASES AND OTHER RESOURCES THAT ARE COMPELLING, OPEN, AND REPRODUCIBLE	106,608.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO DEVELOP A PROGRAMMING TOOLKIT FOR THE CONSTRUCTION, EXECUTION, AND EVALUATION OF MACROECONOMIC SIMULATIONS WHERE HETEROGENEOUS AGENTS INTERACT BEHAVIORALLY	100,000.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO SUPPORT TRAVEL BY STUDENTS AND JUNIOR FACULTY TO A WORKSHOP FOCUSED ON THE DEVELOPMENT OF SCIENTIFIC SOFTWARE USING THE R STATISTICAL COMPUTING LANGUAGE	20,000.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO SUPPORT TRAVEL TO AND ATTENDANCE AT JULIACON2018 BY UNDERREPRESENTED MINORITIES IN COMPUTING WHO ARE USERS OF AND CONTRIBUTORS TO THE JULIA PROGRAMMING LANGUAGE	20,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
OHIO STATE UNIVERSITY 270 BEVIS HALL, 1080 CARMACK RD COLUMBUS, OH 43210	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR HANNAH SHAFAAAT IN CHEMISTRY	65,000.
OHIO STATE UNIVERSITY 270 BEVIS HALL, 1080 CARMACK RD COLUMBUS, OH 43210	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ZEYNEP SAYGIN IN NEUROSCIENCE	65,000.
OPEN KNOWLEDGE FOUNDATION ST JOHN'S INNOV. CTR, COWLEY RD CAMBRIDGESHIRE UNITED KINGDOM CB4 0WS	NONE NC	TO SUPPORT ADOPTION AND USE OF A LIGHTWEIGHT DATA PACKAGING STANDARD IN ORDER TO REDUCE THE FRICTIONS EXPERIENCED IN THE ACQUISITION, SHARING, USE, AND REUSE OF RESEARCH DATA	249,875.
OPEN MIND LEGACY PROJECT 320 PARK AVENUE, 4TH FLR NEW YORK, NY 10022	NONE POF	TO SUPPORT EIGHT TO TEN INTERVIEWS WITH SLOAN-SUPPORTED AUTHORS AND SLOAN-RELATED THINKERS EACH YEAR ON THE OPEN MIND	100,000.
OPEN SPACE INSTITUTE 1350 BRDWAY, 201 NEW YORK, NY 10018	NONE PC	TO DEVELOP, DESIGN, FABRICATE, AND INSTALL EXHIBITS, INTERPRETIVE FEATURES, AND ORIENTATION IN THE NEW MINNEWASKA VISITOR CENTER	50,000.
PARIS SCHOOL OF ECONOMICS 48 BD JOURDAN PARIS FRANCE 75014	NONE NC	TO IMPROVE THE QUALITY, QUANTITY, AND ACCESSIBILITY OF DATA IN THE WORLD WEALTH AND INCOME DATABASE (WID.WORLD) FOR RESEARCHERS OF ALL BACKGROUNDS AND FOR THE GENERAL PUBLIC	300,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PECAN STREET, INC. 3924 BERKMAN DRIVE AUSTIN, TX 78723	NONE PC	TO IMPROVE ITS DATAPORT SOFTWARE AND DATA VISUALIZATION, EXPAND AVAILABLE ENERGY DATA CONTENT, AND INCREASE ACADEMIC RESEARCHER USE OF THE DATABASE	100,000.
PECAN STREET, INC. 3924 BERKMAN DRIVE AUSTIN, TX 78723	NONE PC	TO IMPROVE RESEARCHER ACCESS TO CRITICAL ENERGY DATA BY ENHANCING DATA RESOLUTION AND GRANULARITY, DIVERSIFYING DATA LINKAGES, AND EXPANDING GEOGRAPHIC SCOPE OF INSTRUMENTED HOMES	458,493.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DR. ERIC GLEN WEYL IN ECONOMICS, ORIGINALLY AWARDED AT THE UNIVERSITY OF CHICAGO	25,802.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JIA DENG IN COMPUTER SCIENCE, ORIGINALLY AWARDED TO UNIVERSITY OF MICHIGAN	65,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MARY STODDARD IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TODD HYSTER IN CHEMISTRY	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	TO STUDY HOW THE PSYCHOLOGY OF SCARCITY AND SLACK HAS IMPLICATIONS FOR BEHAVIORAL AND TRADITIONAL ECONOMICS	223,655.
PUBLIC LAB PO BOX 426113 CAMBRIDGE, MA 02142	NONE PC	TO PARTIALLY SUPPORT THE 2018 GATHERING ON OPEN SCIENTIFIC HARDWARE	50,000.
PURDUE UNIVERSITY 100 S GRANT ST. WEST LAFAYETTE, IN 47907	NONE PC	TO RECRUIT, SUPPORT, AND GRADUATE INDIGENOUS STUDENTS EARNING GRADUATE DEGREES IN STEM DISCIPLINES THROUGH THE CONSORTIAL EFFORTS OF THE SLOAN INDIGENOUS GRADUATE PARTNERSHIP (SIGP)	120,000.
PURDUE UNIVERSITY 100 S GRANT ST. WEST LAFAYETTE, IN 47907	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RAJAMANI GOUNDER IN CHEMISTRY	65,000.
RAND CORPORATION 1776 MAIN STREET, P.O. BOX 2138 SANTA MONICA, CA 90407-2137	NONE PC	TO PILOT A NEW APPROACH TO COLLECT LINKED WORKER-FIRM DATA IN WHICH BOTH WORKERS AND EMPLOYERS PROVIDE INFORMATION ABOUT THE DETERMINANTS OF THE LENGTH OF WORKING LIFE	125,000.
REBECCA SCHWARZLOSE 32 ABERDEEN PLACE SAINT LOUIS, MO 63105	NONE I	TO SUPPORT THE WRITING AND ILLUSTRATIONS FOR A BOOK ABOUT BRAIN MAPS TO BE PUBLISHED BY HOUGHTON MIFFLIN HARCOURT AND PROFILE BOOKS IN SPRING 2020	19,700.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
REGENTS OF THE UNIVERSITY OF IDAHO 875 PERIMETER DRIVE, MS 3020 MOSCOW, ID 83844-3020	NONE GOV	TO SUPPORT THE FIRST U.S. SEMANTIC TECHNOLOGIES SYMPOSIUM	20,000.
RENSSELAER POLYTECHNIC INSTITUTE 110 8TH STREET TROY, NY 12180-3590	NONE PC	TO CONTINUE TO LEAD THE DATA SCIENCE AND MANAGEMENT DIMENSIONS OF THE DEEP CARBON OBSERVATORY AND CONTRIBUTE TO PROGRAM SYNTHESIS	384,834.
RENSSELAER POLYTECHNIC INSTITUTE 110 8TH STREET TROY, NY 12180-3590	NONE PC	TO SUPPORT THE RESEARCH DATA ALLIANCE REGIONAL U.S. ORGANIZATION	250,687.
RESEARCH FDN. OF CUNY O/B/O JAY COLLEGE 524 W 59TH STREET NEW YORK, NY 10019	NONE PC	TO DEVELOP A MODEL EDUCATIONAL PROGRAM AND SUPPORTIVE COMMUNITY FOR THE PERSISTENCE OF WOMEN GRADUATE STUDENTS IN STEM THROUGH THE PRESENTATION OF THE PLAY, TRUTH VALUES, WITH ASSOCIATED WORKSHOPS, MENTORING, AND NETWORKING ACTIVITIES	124,991.
RSRCH FDN. OF CUNY O/B/O ADV. SCIENCE RSRCH CTR. 85 SAINT NICHOLAS TERRACE NEW YORK, NY 10031	NONE PC	TO SUPPORT A WORKSHOP ON NANOSCALE CHEMISTRY OF INDOOR ENVIRONMENTS	30,746.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO CONDUCT RESEARCH ON THE ECONOMICS OF TRANSPORTATION BY STUDYING CONSUMER DEMAND FOR NEW VEHICLE TECHNOLOGIES AND ALTERNATIVE FUEL VEHICLES	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO DEVELOP AND IMPLEMENT A TRANSPARENT, MULTIDISCIPLINARY RESEARCH INITIATIVE TO UPDATE COMPREHENSIVELY THE FRAMEWORK FOR SOCIAL COST OF CARBON DIOXIDE ESTIMATION REFLECTING THE BEST AVAILABLE SCIENCE AND ECONOMICS ANALYSIS	200,000.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO CONTINUE A POSTDOCTORAL RESEARCHER PROGRAM THAT WILL TRAIN THE NEXT GENERATION OF SCHOLARS IN ENERGY AND ENVIRONMENTAL ECONOMICS AND POLICY ANALYSIS	196,951.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO ORGANIZE A SLOAN ENERGY CONFERENCE THAT INTEGRATES RESEARCH RESULTS ACROSS THE ENERGY SYSTEM AND DISSEMINATES FINDINGS TO PRACTITIONERS	203,083.
RETRO REPORT 633 THIRD AVENUE, 16TH FLOOR NEW YORK, NY 10017	NONE POF	TO SUPPORT RESEARCH AND PRODUCTION OF A SHORT DIGITAL DOCUMENTARY AND ACCOMPANYING VIDEOS ON THE SCIENCE AND TECHNOLOGY BEHIND DRIVERLESS CARS	32,500.
RHIZOME 235 BOWERY NEW YORK, NY 10002	NONE PC	TO HELP SUPPORT A VERSION OF WIKIBASE THAT IS EASILY DEPLOYED AND USED BY INSTITUTIONS SMALL AND LARGE, AND TO CREATE A COMMUNITY OF PRACTICE AROUND LINKED DATA MODELING	19,800.
RICE UNIVERSITY 6100 MAIN STREET, CAAM DEPT MS 134 HOUSTON, TX 77005	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JAMES CHAPPELL IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ROCKEFELLER UNIVERSITY 1230 YORK AVENUE NEW YORK, NY 10021-6399	NONE PC	TO SUPPORT JESSE AUSUBEL'S CONTINUED LEADERSHIP ON BEHALF OF THE SLOAN FOUNDATION OF THE DEEP CARBON OBSERVATORY PROGRAM INITIATED IN 2009	450,000.
ROCKEFELLER UNIVERSITY 1230 YORK AVENUE NEW YORK, NY 10021-6399	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR LI ZHAO IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.
RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY 110 FRELINGHUYSEN RD HILL CENTER, BUCH CAMPUS PISCATAWAY, NJ 08854-8019	NONE PC	TO DEVELOP CONCEPTUAL AND EMPIRICAL FRAMEWORKS THAT ADVANCE THE STUDY OF STEM LABOR MARKETS	55,832.
RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY 110 FRELINGHUYSEN RD HILL CENTER, BUCH CAMPUS PISCATAWAY, NJ 08854-8019	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JACQUELYN NORONHA-HOSTLER IN PHYSICS	65,000.
RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY 110 FRELINGHUYSEN RD HILL CENTER, BUCH CAMPUS PISCATAWAY, NJ 08854-8019	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SHUBHANGI SARAF IN COMPUTER SCIENCE	65,000.
SAN FRANCISCO STATE UNIVERSITY 1600 HOLLOWAY AVENUE SAN FRANCISCO, CA 94132	NONE GOV	TO EXAMINE THE EFFECTS OF THE WORK PROGRESS ADMINISTRATION (WPA) ON LONG-TERM WORK, DISABILITY, AND RETIREMENT OUTCOMES	124,833.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SCIENCE FRIDAY INITIATIVE, INC. 19 WEST 44TH STREET, SUITE 412 NEW YORK, NY 10036	NONE PC	TO SUPPORT SCIENCE FRIDAY, FOCUSING ON SCIENCE AND THE ARTS, INCLUDING RADIO BROADCASTS, DIGITAL SCIENCE VIDEOS, BLOG POSTS, AND ASSOCIATED MEDIA	228,000.
SETH FLETCHER 25 OLD POST RD S CROTON-ON-HUDSON, NY 10520	NONE I	TO SUPPORT RESEARCH FOR AND WRITING OF EINSTEIN'S SHADOW: A BLACK HOLE, A BAND OF ASTRONOMERS, AND THE QUEST TO SEE THE UNSEEABLE(ECCO PRESS 2018), A BOOK ABOUT THE EVENT HORIZON TELESCOPE AND THE QUEST TO CAPTURE THE FIRST DIRECT IMAGE OF A BLACK HOLE	10,000.
SFFILM 39 MESA STREET, STE 110 SAN FRANCISCO, CA 94129	NONE PC	TO NURTURE, DEVELOP, AND CHAMPION FILMS THAT EXPLORE SCIENTIFIC OR TECHNOLOGICAL THEMES AND CHARACTERS	230,000.
SOCIAL SCIENCE RESEARCH COUNCIL 810 SEVENTH AVENUE NEW YORK, NY 10019	NONE PC	TO ESTABLISH THE STRUCTURE, GOVERNANCE, AND OFFERINGS OF THE SLOAN SCHOLARS MENTOR NETWORK FOR A THREE-YEAR CYCLE, WITH AN INITIAL TARGET AUDIENCE OF SLOAN SCHOLAR MPHD GRADUATES IN ACADEMIC CAREERS	315,976.
SOCIAL SCIENCE RESEARCH COUNCIL 810 SEVENTH AVENUE NEW YORK, NY 10019	NONE PC	TO FACILITATE SCHOLARLY RESEARCH ON PROPRIETARY SOCIAL MEDIA DATA THROUGH A PROCESS THAT INCORPORATES PEER REVIEWS, ETHICAL REVIEWS, AND PRIVACY REVIEWS	500,000.
SOCIAL SCIENCE RESEARCH COUNCIL 810 SEVENTH AVENUE NEW YORK, NY 10019	NONE PC	TO PILOT A SMALL GRANTS PROGRAM ESTABLISHING THE SLOAN SCHOLARS MENTORING NETWORK (SSMN) AS A GRANT-MAKING ORGANIZATION TO INCENTIVIZE SLOAN SCHOLAR PARTICIPATION, TO SUPPORT EARLY ACADEMIC-CAREER SLOAN GRADUATES, AND TO CREATE OPPORTUNITIES FOR INFORMAL MENTORING	125,000.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SOUTHERN CALIFORNIA INSTITUTE OF ARCHITECTURE 960 EAST 3RD STREET LOS ANGELES, CA 90013	NONE PC	TO SUPPORT ARCHITECTURE STUDENTS IN THE CREATION AND DISSEMINATION OF MULTI-MEDIA FICTIONAL NARRATIVES BASED ON THE LATEST RESEARCH ON AI AND AUTOMATION	110,000.
SOUTHERN REGIONAL EDUCATION BOARD 592 10TH STREET, NW ATLANTA, GA 30318-5790	NONE PC	TO PROVIDE SLOAN SCHOLARS AND PROGRAM DIRECTORS IN ITS MINORITY PH.D. PROGRAM ACCESS AND SERVICES AT THE ANNUAL MEETINGS OF SREB'S INSTITUTE FOR TEACHING AND MENTORING	99,645.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO DEVELOP SERVICES THAT MODEL HOW ACCESS TO ADMINISTRATIVE DATA CAN FACILITATE RELIABLE, REPRODUCIBLE, AND GROUNDBREAKING RESEARCH IN ECONOMICS	502,432.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO MAKE RESEARCH ON MACRO-FINANCIAL MODELING MORE REPRODUCIBLE, COLLABORATIVE, AND COMPARATIVE	214,589.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO SUPPORT A CONFERENCE SERIES IN ORDER TO FOSTER MORE RESEARCH AND POLICY DISCUSSION ABOUT CHANGING LABOR MARKET INSTITUTIONS TO ACCOMMODATE INCREASED LONGEVITY	227,145.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO ENHANCE THE UNDERSTANDING OF THE OPTIONS FACED BY HOUSEHOLDS WHOSE PREVIOUS RETIREMENT PLANS NOW APPEAR UNREALISTIC, PERHAPS DUE TO SLOW GROWTH, LOWER THAN PROJECTED WAGE GROWTH, OR POOR PAST OR PROJECTED ASSET RETURNS	118,893.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO PROVIDE A FINAL ROUND OF SUPPORT FOR THE PARTICIPATION OF STUDENTS AND POST-DOCTORAL RESEARCHERS AT THE 2018 BEHAVIOR, ENERGY AND CLIMATE CHANGE CONFERENCE	10,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO STUDY THE BEHAVIORAL WELFARE EFFECTS OF ONLINE MEDIA CONSUMPTION	323,836.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JULIA PALACIOS IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DANIEL YAMINS IN NEUROSCIENCE	65,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR GORDON WETZSTEIN IN COMPUTER SCIENCE	65,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ARUN CHANDRASEKHAR IN ECONOMICS	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MATTEO CARGNELLO IN CHEMISTRY	65,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO ADVANCE THE DESIGN AND IMPLEMENTATION OF CAUSAL INFERENCE TECHNIQUES OTHER THAN RANDOMIZATION IN PUBLIC POLICY EVALUATION	125,000.
STEPHEN E. OLSON 2821 2ND AVENUE, #1501 SEATTLE, WA 98121	NONE I	TO SUPPORT A BOOK ON THE DISCOVERY, MANUFACTURE, AND USE OF PLUTONIUM IN THE BOMB DROPPED ON NAGASAKI, TO BE PUBLISHED BY W.W. NORTON IN THE SPRING OF 2020	50,000.
STEVENS INSTITUTE OF TECHNOLOGY 1 CASTLE POINT ON HUDSON HOBOKEN, NJ 07030	NONE PC	TO PILOT TWO MIDDLE SCHOOL MATH CIRCLES IN NYC THAT INFORM THE DEVELOPMENT OF A SYSTEM OF MATH CIRCLES IN THE NYC AREA	19,762.
SUNDANCE INSTITUTE 5900 WILSHIRE BOULEVARD BEVERLY HILLS, CA 90036	NONE PC	TO SUPPORT A SCIENCE AND TECHNOLOGY FILM PROGRAM AT THE NATION'S PRE-EMINENT INDEPENDENT FILM CENTER THAT INCLUDES SCREENWRITING FELLOWSHIPS, FEATURE FILM PRIZES, SCIENCE AND FILM PANELS, AND ASSOCIATED OUTREACH	200,000.
SUNY POLYTECHNIC INSTITUTE 257 FULLER RD ALBANY, NY 12203	NONE PC	TO SUPPORT THE SCALING-UP OF A COMMUNITY OF SCHOLARS AND PRACTITIONERS FOCUSED ON TECHNOLOGY MAINTENANCE	197,851.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SUSAN HAND SHETTERLY 132 CROSS RD SURRY, ME 04684	NONE I	TO SUPPORT A BOOK ON SEaweEDS AND THEIR INTERACTIONS WITH HUMANS AND THEIR HABITATS, TO BE PUBLISHED BY ALGONQUIN PRESS	22,500.
TECHNOLOGY AFFINITY GROUP 1 NORTH STATE STREET, SUITE 1500 CHICAGO, IL 60602	NONE PC	TO SUPPORT 2018 MEMBERSHIP DUES FOR THIS AFFINITY GROUP OF THE COUNCIL ON FOUNDATIONS	5,000.
THE AMERICAN ASSEMBLY 475 RIVERSIDE DRIVE, SUITE 456 NEW YORK, NY 10115	NONE PC	TO SUPPORT THE GROWTH AND SUSTAINABILITY OF A LARGE-SCALE ONLINE DATABASE OF UNIVERSITY COURSE SYLLABI	374,399.
THE ASPEN INSTITUTE 271 MADISON AVENUE, SUITE 606 NEW YORK, NY 10016	NONE PC	TO SUPPORT A DIALOGUE PROCESS THAT APPLIES RESEARCH FINDINGS TO INFORM THE DEVELOPMENT OF BEST PRACTICES FOR THE GOVERNANCE OF SHALE GAS AND OIL	150,000.
THE CONVERSATION 745 ATLANTIC AVE., 8TH FLR BOSTON, MA 02111	NONE PC	TO ENHANCE THE CONVERSATION'S PRODUCTION OF PUBLICLY ACCESSIBLE ARTICLES BY ACADEMICS ABOUT THEIR RESEARCH IN ECONOMICS	100,000.
THE GRADUATE CENTER FOUNDATION, INC. 365 FIFTH AVENUE, ROOM 8204 NEW YORK, NY 10016	NONE PC	TO PILOT A NEW, ANNUAL SCIENTIFIC BIOGRAPHY FELLOWSHIP AT THE LEON LEVY CENTER FOR BIOGRAPHY THAT WILL RESULT IN THREE NEW MAJOR BIOGRAPHIES OF SCIENTISTS AND/OR TECHNOLOGISTS	110,250.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE INTERNET ARCHIVE P.O. BOX 29244 SAN FRANCISCO, CA 94129-0244	NONE PC	TO PARTIALLY SUPPORT PARTICIPATION IN THE 2018 DECENTRALIZED WEB SUMMIT	20,000.
THE MANUFACTURING INSTITUTE 733 10TH STREET NW, STE 700 WASHINGTON, DC 20001	NONE PC	TO STUDY UPSKILLING STRATEGIES AMONG MANUFACTURERS FOR AGING WORKFORCE AND EXPLORE BEST PRACTICES ON HOW THESE COMPANIES HAVE BEEN ABLE TO SUCCESSFULLY EXTEND THE WORKING YEARS OF THIS GROUP	125,000.
THE MAYOR'S FUND TO ADVANCE NEW YORK CITY 253 BRDWAY, 6TH FL NEW YORK, NY 10007	NONE PC	TO INCREASE THE UTILITY OF NYC OPEN DATA BY ENABLING LIBRARY AND INFORMATION PROFESSIONALS TO IMPROVE THE QUALITY OF DATA DICTIONARIES	56,384.
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIV. PARK, PA 16801	NONE GOV	TO STRENGTHEN THE MICROFOUNDATIONS OF MACROECONOMICS BY BUILDING AND CALIBRATING BEHAVIORAL MODELS OF ORDER-BOOK ACTIVITY IN FINANCIAL MARKETS	234,416.
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIV. PARK, PA 16801	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CUI-ZU CHANG IN PHYSICS	65,000.
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIV. PARK, PA 16801	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR REBEKAH DAWSON IN PHYSICS	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIV. PARK, PA 16801	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR XIN ZHANG IN CHEMISTRY	65,000.
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIV. PARK, PA 16801	NONE GOV	TO SUPPORT A MULTIDISCIPLINARY RESEARCH PROJECT THAT EXAMINES THE IMPACT OF VARIABLE WIND GENERATION ON TRANSMISSION SYSTEMS	200,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO CONSTRUCT, CALIBRATE, AND COMPARE MODELS FOR ANALYZING HOW THE FINANCIAL INSTITUTIONS INTERACT WITH THE REAL ECONOMY	200,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO STUDY HOW KNOWLEDGE GENERATED BY RESEARCH AND DEVELOPMENT SPILLS OVER THROUGH INNOVATION NETWORKS	53,961.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO STUDY HOW THE CHOICE OF COMPUTATIONAL TOOLS SUCH AS PROGRAMMING LANGUAGES AND DATA-ANALYSIS ENVIRONMENTS IMPACTS THEIR USERS	249,297.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO STUDY EXPERIMENTALLY THE WELFARE ECONOMICS OF NUDGING AND OTHER BEHAVIORAL INTERVENTIONS	105,003.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO DEVELOP, DEBUG, AND DISSEMINATE MACROECONOMIC MODELS AND SOFTWARE THAT DO NOT ASSUME RATIONAL EXPECTATIONS	230,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TIMOTHY BERKELBACH IN CHEMISTRY	65,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MARK SHEFFIELD IN NEUROSCIENCE	65,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO STUDY THE COMPLEMENTARITY BETWEEN PREDICTION ALGORITHMS AND HUMAN DECISION-MAKING	277,303.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO SUPPORT THE TRAINING OF EARLY CAREER SCHOLARS IN DEVELOPING A MORE DETAILED, GRANULAR APPROACH TO ESTIMATING DAMAGE FUNCTIONS THAT CAN CONTRIBUTE TO PROVIDING MORE TRANSPARENT ESTIMATES OF THE SOCIAL COST OF CARBON	305,281.
THE UNIVERSITY OF TEXAS MD ANDERSON CANCER CENTER 1400 PRESSLER STREET HOUSTON, TX 77030	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NIDHI SAHNI IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	TO RAISE THE VISIBILITY OF AND IMPROVE INCENTIVES FOR SOFTWARE WORK AS A CONTRIBUTION IN THE SCIENTIFIC LITERATURE	204,639.
THE UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	TO ANALYZE BUILDING PERFORMANCE DATA OF THE UTEST HOUSE FOR HOMECEM	76,000.
THE UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	TO PROVIDE A FINAL ROUND OF SUPPORT FOR STUDENTS FROM MULTIPLE DISCIPLINES TO PARTICIPATE IN THE 2019 AUSTIN ELECTRICITY CONFERENCE	10,000.
THE UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	TO SUPPORT THE 2018 ENERGY JOURNALISM WORKSHOP IN ORDER TO INFORM JOURNALISTS COVERING ENERGY AND ENVIRONMENTAL ISSUES OF NOVEL RESEARCH FINDINGS	50,000.
THE UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SIMON PETER IN COMPUTER SCIENCE	65,000.
THE UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ALEXANDER HUTH IN NEUROSCIENCE	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOE NEEMAN IN MATHEMATICS	65,000.
THE UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR LIVIA SCHIAVINATO EBERLIN IN CHEMISTRY	65,000.
THE UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	TO SUPPORT POWER TRIP: THE STORY OF ENERGY BY MICHAEL WEBBER, TO BE PUBLISHED BY BASIC BOOKS IN 2019	57,500.
THE UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	TO SUPPORT HOMECEM DOCUMENTATION AS A BASIS FOR EDUCATION AND OUTREACH ACTIVITIES	74,996.
THE UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	TO EXAMINE OZONE REACTIONS WITH FOUR COMMON INDOOR MATERIALS	70,043.
THOMAS JEFFERSON UNIVERSITY 111 S. 11TH STREET PHILADELPHIA, PA 19107	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TIMOTHY MOSCA IN NEUROSCIENCE	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
TRIBECA FILM INSTITUTE 32 AVE OF THE AMERICAS, 27TH FLR NEW YORK, NY 10013	NONE PC	TO BUILD ON THE TFI SLOAN FILMMAKER FUND'S SUCCESS IN DEVELOPING NEW SCIENCE FILMS TO PRODUCTION AND TO RAISE THE PROFILE OF SLOAN SCREENINGS, READINGS, AND PANELS AT THE TRIBECA FILM FESTIVAL	270,000.
TRIBECA FILM INSTITUTE 32 AVE OF THE AMERICAS, 27TH FLR NEW YORK, NY 10013	NONE PC	TO SUPPORT THE SLOAN STUDENT GRAND JURY PRIZE FOR THE ANNUAL SELECTION AND DEVELOPMENT OF THE BEST-OF-THE-BEST SCREENPLAY FROM SLOAN'S SIX FILM SCHOOL PARTNERS AND TO PILOT A NEW SLOAN DISCOVERY AWARD SELECTED FROM SIX NEW NON-SLOAN FILM SCHOOL SCREENPLAYS WITH S&T THEMES	130,818.
UNITED HOSPITAL FUND OF NEW YORK 1411 BRDWAY, 12TH FLOOR NEW YORK, NY 10018	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR A WORKSHOP ON THE IMPACT OF THE OPIOID CRISIS ON CHILDREN AND CAREGIVERS	60,000.
UNITED STATES ASSOC. FOR ENERGY ECONOMICS 28790 CHAGRIN BLVD, STE 350 CLEVELAND, OH 44122	NONE NC	TO SUPPORT THE PARTICIPATION OF GRADUATE STUDENTS AT THE PH.D. DAY EVENT AT THE 2018 USAEE NORTH AMERICAN CONFERENCE IN WASHINGTON, D.C.	10,000.
UNIVERSITY COLLEGE LONDON GOWER STREET LONDON UNITED KINGDOM WC1E 6BT	NONE NC	TO EXPAND THE CONTENT AND OUTREACH OF MICROECONOMIC INSIGHTS, AN ONLINE SOURCE FOR ACCESSIBLE SUMMARIES OF HIGH-QUALITY MICROECONOMIC RESEARCH	20,000.
UNIVERSITY OF ARIZONA 1401 E. UNIV. BLVD. TUCSON, AZ 85721	NONE GOV	TO INTEGRATE AND SYNTHESIZE KNOWLEDGE OF EVOLUTION OF CARBON MINERALS	125,000.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF ARIZONA 1401 E. UNIV. BLVD. TUCSON, AZ 85721	NONE GOV	TO STUDY GENDER DIFFERENCES IN THE CHOICE OF SUBFIELD SPECIALIZATION AMONG ACADEMIC ECONOMISTS	175,205.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO EXPAND UNDERSTANDING OF THE PROCESSES CONTROLLING INDOOR CHEMISTRY	250,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO PROVIDE RENEWED SUPPORT TO EXAMINE THE MICROBIOLOGY OF THE NEONATAL INTENSIVE CARE UNIT ENVIRONMENT	250,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO RESEARCH THE ECONOMICS OF ENERGY EFFICIENCY, AS RECOMMENDED BY A REQUEST FOR PROPOSALS REVIEW COMMITTEE, BY ESTIMATING THE IMPACTS OF AN INDUSTRIAL ENERGY EFFICIENCY PROGRAM ON ELECTRICITY USE, WATER USE, AND WELFARE IN THE AGRICULTURAL SECTOR	47,289.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SUPPORT IMPROVEMENTS TO NUMPY, AN ESSENTIAL NUMERICAL COMPUTING UTILITY FOR THE PYTHON PROGRAMMING LANGUAGE	234,119.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SUPPORT A SPECIAL SEMESTER ON THE FOUNDATIONS AND APPLICATIONS OF DATA PRIVACY RESEARCH	287,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SHED NEW LIGHT ON THE PREVALENCE AND NATURE OF INDEPENDENT CONTRACTING (INCLUDING GIG WORK), WITH A FOCUS ON DOCUMENTING HOW BOTH PRE- AND POST-RETIREMENT OLDER WORKERS COMBINE INDEPENDENT CONTRACTING WITH OTHER SOURCES OF INCOME	119,284.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO CREATE THE E2E EVIDENCE-BASED POLICY FELLOWSHIP PROGRAM THAT WILL BRING ENERGY EFFICIENCY PROGRAM EVALUATION RESEARCH CAPACITY TO STATE AGENCIES	233,594.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO EXPAND UNDERSTANDING OF THE ROLES THAT MICROORGANISMS PLAY IN SHAPING THE CHEMISTRY OF INDOOR ENVIRONMENTS	155,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOSEPH SHAPIRO IN ECONOMICS, ORIGINALLY AWARDED TO YALE UNIVERSITY	65,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SUPPORT A SUMMIT FOR ~100 GRADUATE STUDENTS AND 20-50 EXPERIENCED RESEARCHERS IN ECONOMICS FROM UNDERREPRESENTED GROUPS TO BUILD TOOLS AND NETWORKS TO SUPPORT DIVERSITY, INCLUSION, AND EQUITY IN THE FIELD	20,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO CREATE A PUBLICLY ACCESSIBLE PANEL DATASET OF RESIDENTIAL ELECTRIC UTILITY RATES FOR ALL UNITED STATES UTILITIES TO DEVELOP MORE REFINED ELECTRICITY COST MODELS	124,966.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RALUCA POPA IN COMPUTER SCIENCE	65,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NORMAN YAO IN PHYSICS	65,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DANNY YAGAN IN ECONOMICS	65,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANCA DRAGAN IN COMPUTER SCIENCE	65,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MARKITA LANDRY IN NEUROSCIENCE	65,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SUPREET KAUR IN ECONOMICS	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SEMYON DYATLOV IN MATHEMATICS, ORIGINALLY AWARDED TO MASSACHUSETTS INSTITUTE OF TECHNOLOGY	60,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO EXTEND COMPARATIVE DATA ANALYSIS FOR STUDIES OF WATER DAMAGED HOMES IN NY AND CA	30,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SUPPORT THE FIRST PAPER IN A TWO-YEAR, THREE-PAPER RESEARCH AGENDA ON THE EQUILIBRIUM AND SPILLOVER EFFECTS OF WORKING LONGER: EVIDENCE FROM QUASI-EXPERIMENTAL VARIATION IN EARLY RETIREMENT INCENTIVES	20,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO STUDY PRIVATE SECTOR RESEARCH AND DATA SHARING PRACTICES	18,500.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO RESEARCH THE ECONOMICS OF ENERGY EFFICIENCY, AS RECOMMENDED BY A REQUEST FOR PROPOSALS REVIEW COMMITTEE, FOCUSED ON UNDERSTANDING HOW THE TARGETING AND TIMING OF ENERGY EFFICIENCY INFORMATION PROVISION IMPACTS PROGRAM PARTICIPATION	41,063.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO RESEARCH THE ECONOMICS OF ENERGY EFFICIENCY, AS RECOMMENDED BY A REQUEST FOR PROPOSALS REVIEW COMMITTEE, BY EXAMINING THE RELATIONSHIP BETWEEN ELECTRICITY RATE STRUCTURES AND CONSUMER INVESTMENTS IN ENERGY EFFICIENT APPLIANCES	50,000.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO QUANTIFY EXISTING AND PENDING DISTRIBUTION SYSTEM IMPACTS OF HIGH LEVELS OF PENETRATION OF DISTRIBUTED ENERGY RESOURCES AND LOADS	125,000.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO PROVIDE FINAL RENEWED SUPPORT FOR THE MICROBIOLOGY OF THE BUILT ENVIRONMENT NETWORK (MICROBENET)	167,007.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO LEAD THE MODELING AND VISUALIZATION ACTIVITIES OF THE DEEP CARBON OBSERVATORY TO ACHIEVE MAXIMUM CONTRIBUTIONS AND LEGACIES DURING THE SYNTHESIS PHASE OF THE PROGRAM	750,000.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO DEVELOP A BUSINESS PLAN TO SUSTAIN THE ACTIVITIES OF THE MICROBIOLOGY OF THE BUILT ENVIRONMENT NETWORK	101,430.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO FURTHER DEVELOP TOOLS FOR THE DISTRIBUTED TRANSCRIPTION AND CLASSIFICATION OF DATA FROM HISTORIC SOURCES	50,000.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO RESEARCH THE ECONOMICS OF ENERGY EFFICIENCY, AS RECOMMENDED BY A REQUEST FOR PROPOSALS REVIEW COMMITTEE, BY STUDYING HOW CHANGING DEFAULT PARTICIPATION OPTIONS IN A COMMERCIAL ENERGY EFFICIENCY PROGRAM IMPACTS PROGRAM ENROLLMENT AND ENERGY USE	56,933.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	TO DEVELOP AN INDOOR CHEMISTRY MODELING CONSORTIUM	300,000.
UNIVERSITY OF CALIFORNIA, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JENNY YANG IN CHEMISTRY	65,000.
UNIVERSITY OF CALIFORNIA, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	TO ENGAGE MATHEMATICIANS AND CRYPTOGRAPHERS IN DEVELOPING EFFICIENT AND SECURE METHODS OF COMPUTING ON ENCRYPTED DATA	193,006.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO PROVIDE INFORMATION ON THE LABOR MARKET CONSEQUENCES FOR ADULT DAUGHTERS AND SONS PROVIDING ELDER CARE TO THEIR AGING PARENTS	100,199.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO LEAD AND SYNTHESIZE THE ACTIVITIES OF THE EXTREME PHYSICS AND CHEMISTRY COMMUNITY OF THE DEEP CARBON OBSERVATORY	704,166.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO COMPLETE AND SYNTHESIZE THE WORK OF THE DEEP ENERGY COMMUNITY OF THE DEEP CARBON OBSERVATORY	600,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO COMPLETE AND SYNTHESIZE THE WORK OF THE DEEP ENERGY COMMUNITY OF THE DEEP CARBON OBSERVATORY	312,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	120,648.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO ANSWER QUESTIONS ABOUT HOW CALIFORNIA'S WORKFORCE SYSTEM SERVES OLDER WORKERS IN TERMS OF TRAINING AND ITS EFFECTIVENESS	130,432.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CAROLYN PARKINSON IN NEUROSCIENCE	65,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ELLEN SLETTEN IN CHEMISTRY	65,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR HOSEA NELSON IN CHEMISTRY	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DANIELE BIANCHI IN OCEAN SCIENCES	65,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JINGYI (JESSICA) LI IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.
UNIVERSITY OF CALIFORNIA, OFFICE OF THE PRESIDENT 1111 FRANKLIN STREET OAKLAND, CA 94607	NONE PC	TO DEVELOP AND DEPLOY INFRASTRUCTURE NECESSARY TO ELEVATE DATA TO A FIRST-CLASS RESEARCH OUTPUT	370,573.
UNIVERSITY OF CALIFORNIA, OFFICE OF THE PRESIDENT 1111 FRANKLIN STREET OAKLAND, CA 94607	NONE PC	TO SUPPORT A WORKSHOP EXPLORING INSTITUTIONAL WORKFLOWS TO ENABLE ACCESS, PRESERVATION, AND SHARING OF SENSITIVE DATA	20,000.
UNIVERSITY OF CALIFORNIA, RIVERSIDE 900 UNIV. AVE RIVERSIDE, CA 92521	NONE PC	TO SUPPORT CONTINUED DEVELOPMENT OF A BROWSER-BASED INTERACTIVE PLATFORM FOR EXPLORING 0	201,145.
UNIVERSITY OF CALIFORNIA, RIVERSIDE 900 UNIV. AVE RIVERSIDE, CA 92521	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SANDRA KIRTLAND TURNER IN OCEAN SCIENCES	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	TO DEVELOP AND DISSEMINATE TECHNIQUES FOR 3D MAPPING OF THE MICROBIOLOGY AND METABOLISM OF BUILT ENVIRONMENTS	250,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	TO INVESTIGATE THE FUNDAMENTAL CHEMISTRY OF INDOOR SURFACES	250,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR STEVEN SAM IN MATHEMATICS, ORIGINALLY AWARDED TO THE UNIVERSITY OF WISCONSIN, MADISON	26,867.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ELENA KOSLOVER IN PHYSICS	65,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TONGYAN LIN IN PHYSICS	65,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TENIO POPMINTCHEV IN PHYSICS	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR LUDMIL ALEXANDROV IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.
UNIVERSITY OF CALIFORNIA, SANTA CRUZ 1156 HIGH STREET SANTA CRUZ, CA 95064	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ALEXIE LEAUTHAUD IN PHYSICS	65,000.
UNIVERSITY OF CAMBRIDGE DOWNING STREET CAMBRIDGE UNITED KINGDOM CB2 3ER	NONE PC	TO PROVIDE STRATEGIC VISION AND LEADERSHIP OF THE DEEP CARBON OBSERVATORY SYNTHESIS GROUP FOR THE 2019 PROGRAM FINALE	149,130.
UNIVERSITY OF CAMBRIDGE DOWNING STREET CAMBRIDGE UNITED KINGDOM CB2 3ER	NONE PC	TO INNOVATE OBSERVATIONS OF VOLCANIC EMISSIONS WITH UNMANNED AERIAL SYSTEMS	214,973.
UNIVERSITY OF COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	TO EXPAND UNDERSTANDING OF CHEMICAL SOURCES, SINKS, AND TRANSFORMATIONS TAKING PLACE INDOORS	250,000.
UNIVERSITY OF COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	TO INITIATE THE DEVELOPMENT OF COMMUNITY BUILDING AND DATA INFRASTRUCTURE FOR THE CIE PROGRAM THROUGH HOMECEM, AN INTERDISCIPLINARY COLLABORATIVE FIELD EXPERIMENT	600,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR AN INSTRUMENT TO IMPROVE DETECTION OF VOLATILE ORGANIC COMPOUNDS	125,000.
UNIVERSITY OF COLORADO, DENVER 1201 LARIMER STREET DENVER, CO 80204	NONE PC	TO SUPPORT A PILOT STUDY THAT WILL ANALYZE CASE EXAMPLES OF POLICY CONFLICT AND CONCORD AMONG KEY STAKEHOLDERS RELATED TO THE SITING OF ENERGY INFRASTRUCTURE, INCLUDING SOLAR AND WIND ENERGY PRODUCTION PROJECTS, PIPELINES, AND TRANSMISSION LINES	88,239.
UNIVERSITY OF GEORGIA 310 E. CAMPUS RD., TUCKER HALL 409 ATHENS, GA 30602-1589	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JULIA DIAZ IN OCEAN SCIENCES	65,000.
UNIVERSITY OF HAWAII 2680 WOODLAWN DR. HONOLULU, HI 96822	NONE GOV	TO CHARACTERIZE THE FUNGAL COMMUNITIES CAPTURED BY THE AIR FILTERS AT THE MAUNA LOA OBSERVATORY IN HAWAII, ONE OF THE MOST REMOTE LOCATIONS ON EARTH	60,000.
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN 601 EAST JOHN STREET CHAMPAIGN, IL 61820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR PINSHANE HUANG IN PHYSICS	65,000.
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN 601 EAST JOHN STREET CHAMPAIGN, IL 61820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YING DIAO IN CHEMISTRY	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN 601 EAST JOHN STREET CHAMPAIGN, IL 61820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR QIAN CHEN IN CHEMISTRY	65,000.
UNIVERSITY OF LOUISVILLE RESCH FDN. 300 E MARKET STREET, STE 300 LOUISVILLE, KY 40202	NONE PC	TO SUPPORT A BOOK ABOUT CHARLES WILLSON PEALE, CREATOR OF A NATURAL HISTORY/ART MUSEUM IN REVOLUTIONARY-ERA AMERICA, AND HOW THE MUSEUM INFLUENCED THE PUBLIC'S PERCEPTION OF SCIENCE AND ART	15,350.
UNIVERSITY OF MARYLAND, COLLEGE PARK 3112 LEE BLDG., 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	SUPPORT FOR JASON FARMAN'S WAITING FOR WORD: HOW MESSAGE DELAYS HAVE SHAPED HISTORY, LOVE, TECHNOLOGY, AND EVERYTHING WE KNOW, A BOOK ABOUT TECHNOLOGIES OF COMMUNICATION, TO BE PUBLISHED BY YALE UNIVERSITY PRESS IN LATE 2018/EARLY 2019	23,250.
UNIVERSITY OF MARYLAND, COLLEGE PARK 3112 LEE BLDG., 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MAISSAM BARKESHLI IN PHYSICS	65,000.
UNIVERSITY OF MARYLAND, COLLEGE PARK 3112 LEE BLDG., 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	TO INFORM THE DESIGN OF QUESTIONS TO LEARN ABOUT ALTERNATIVE WORK ARRANGEMENTS AMONG THE POPULATION AGE 50 PLUS AND PROVIDE NEW EVIDENCE ON THE ROLE OF THESE ARRANGEMENTS IN OLDER ADULTS' WORK LIVES	318,432.
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	TO SUPPORT RESEARCH ON THE ECONOMICS OF SCIENCE THAT USES NEW DATA FROM UNIVERSITIES ABOUT ACADEMIC FUNDING, SPENDING, AND TRAINING	274,756.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	TO SUPPORT A MULTIDISCIPLINARY RESEARCH PROJECT THAT EXAMINES THE IMPACT OF STORAGE ADDITIONS ON TRANSMISSION SYSTEM FREQUENCY REGULATION	200,000.
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	TO ESTABLISH A COLLABORATION OF 11 LARGE R-1 UNIVERSITIES THAT WILL ACCELERATE AND ENHANCE EFFORTS TO IMPROVE FOUNDATIONAL COURSES IN STEM THROUGH LEARNING ANALYTICS RESEARCH INTO, AND DEVELOPMENT OF, EQUITABLE AND INCLUSIVE STEM CURRICULA AND TEACHING PRACTICES	400,000.
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	TO EXAMINE THE PH OF INDOOR SURFACES	300,000.
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DR. ZAHER HANI IN MATHEMATICS, ORIGINALLY AWARDED TO GEORGIA INSTITUTE OF TECHNOLOGY	15,648.
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	TO SUPPORT PARTICIPATION OF UNDERGRADUATE AND GRADUATE STUDENTS AT THE 2018 TRANSPORTATION, ECONOMICS, ENERGY AND THE ENVIRONMENT (TE3) CONFERENCE	10,000.
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANDREW AULT IN CHEMISTRY	65,000.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ELEANOR CLOWNEY IN NEUROSCIENCE	65,000.
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ADA EBAN-ROTHSCHILD IN NEUROSCIENCE	65,000.
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	TO SUPPORT A WORKSHOP ON INDOOR SURFACE CHEMISTRY	24,269.
UNIVERSITY OF MINNESOTA 207 PLEASANT ST. SE MINNEAPOLIS, MN 55455	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR FRANK ALBERT IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.
UNIVERSITY OF MINNESOTA 207 PLEASANT ST. SE MINNEAPOLIS, MN 55455	NONE GOV	TO LAUNCH AND EXPAND A CROSS-INSTITUTIONAL STAFFING MODEL FOR CURATING DISCIPLINARY RESEARCH DATA	182,737.
UNIVERSITY OF NEBRASKA, OMAHA 6001 DODGE ST, EPPLEY ADMIN BLDG OMAHA, NE 68182	NONE PC	TO ADVANCE UNDERSTANDING OF OPEN SOURCE PROJECT HEALTH AND SUSTAINABILITY AND HOW PEOPLE AND ORGANIZATIONS PROSPER FROM OPEN SOURCE WORK	223,585.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	TO EXAMINE THE ROLES OF DAMPNES, WATER SOLUBLE ORGANIC GASES, AND SURFACE CHEMISTRY ON INDOOR AIR COMPOSITION	250,000.
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	TO INCREASE THE PARTICIPATION OF SOCIAL SCIENCE DATA ARCHIVES IN THE RESEARCH DATA ALLIANCE	38,337.
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	TO IMPROVE THE ABILITY TO CURATE AND VERIFY REPLICATION DATASETS WITHIN THE DATAVERSE DATA ARCHIVING PLATFORM BY INTEGRATING COMPUTATIONAL NOTEBOOKS AND SOFTWARE CONTAINERIZATION WITH DATA CURATION WORKFLOWS	206,776.
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YAIZA CANZANI IN MATHEMATICS	65,000.
UNIVERSITY OF OREGON 1585 E 13TH AVE. EUGENE, OR 97403	NONE GOV	TO PROVIDE FINAL RENEWED SUPPORT FOR THE BIOLOGY AND THE BUILT ENVIRONMENT (BIOBE) CENTER	150,000.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	TO SUPPORT CONTINUED DEVELOPMENT OF MANUBOT, A GIT-NATIVE AUTHORING TOOL FOR SCIENTIFIC MANUSCRIPTS	48,784.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR IAIN MATHIESON IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	65,000.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR EDUARDO AZEVEDO IN ECONOMICS	65,000.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SHINJAE CHUNG IN NEUROSCIENCE	65,000.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	TO ANALYZE THE ECONOMICS OF LABOR MARKETS FOR INFORMATION TECHNOLOGY WORKERS USING ADMINISTRATIVE DATASETS	19,146.
UNIVERSITY OF PITTSBURGH 3700 O'HARA STREET PITTSBURGH, PA 15261	NONE PC	TO DEVELOP SOFTWARE AND SERVICES FOR TRANSFORMING MATHEMATICAL RESULTS AS THEY APPEAR IN JOURNAL ARTICLE ABSTRACTS INTO FORMALLY STRUCTURED DATA THAT MACHINES CAN READ, PROCESS, SEARCH, CHECK, COMPUTE WITH, AND LEARN FROM AS LOGICAL STATEMENTS	78,094.
UNIVERSITY OF PUERTO RICO, MAYAGUEZ CALL BOX 9000 MAYAGUEZ PUERTO RICO 00681	NONE GOV	TO ENHANCE THE RESEARCH SKILLS AND PRODUCTIVITY OF PH.D. CANDIDATES IN 8 STEM FIELDS AT UPR HURRICANE MARIA (2017)	300,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF RHODE ISLAND 79 UPPER COLLEGE RD KINGSTON, RI 02881	NONE GOV	TO SUPPORT ENGAGEMENT: THE DEEP CARBON OBSERVATORY'S ROAD TO 2019	600,000.
UNIVERSITY OF SASKATCHEWAN 110 SCI'S PLACE, SASKATOON SASKATCHEWAN SK CANADA S7N 5C9	NONE PC	TO EXAMINE PHOTON FLUXES, OXIDANTS, AND OXIDANT PRECURSORS IN INDOOR ENVIRONMENTS	257,226.
UNIVERSITY OF SOUTH FLORIDA 4202 E FOWLER AVENUE, CHE 205 TAMPA, FL 33620	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR XINFENG LIANG IN OCEAN SCIENCES	65,000.
UNIVERSITY OF SOUTHERN CALIFORNIA 1050 CHILD WAY, RRI 201 (MCB) LOS ANGELES, CA 90089	NONE PC	FOR SCREENWRITING AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS BY TOP FILM STUDENTS	100,000.
UNIVERSITY OF SOUTHERN CALIFORNIA 1050 CHILD WAY, RRI 201 (MCB) LOS ANGELES, CA 90089	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	138,551.
UNIVERSITY OF SYDNEY MADSEN BLDG, F09, SYDNEY NEW SOUTH WALES AUSTRALIA 2006	NONE NC	TO STRENGTHEN THE DEEP CARBON SCIENCE COMMUNITY OF AUSTRALIA AND TO BUILD FURTHER THE TECTONIC ("GPLATES") MODELING PLATFORM FOR THE DEEP CARBON CYCLE	80,000.

ATTACHMENT 21

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF TEXAS, EL PASO 500 W UNIV. AVE EL PASO, TX 79968-0518	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SKYE FORTIER IN CHEMISTRY	65,000.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO EXPAND UNDERSTANDING OF MULTIPHASE CHEMISTRY IN INDOOR ENVIRONMENTS	192,000.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO INVESTIGATE THE ROLE OF PHOTOCHEMISTRY INDOORS	245,345.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO STUDY THE BEHAVIORAL WELFARE ECONOMICS OF HOW NUDGES AFFECT FINANCIAL DECISION MAKING	158,171.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ARUL SHANKAR IN MATHEMATICS	65,000.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AMAR VUTHA IN PHYSICS	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ROBERT HASLHOFER IN MATHEMATICS	65,000.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR GIULIO TIOZZO IN MATHEMATICS	65,000.
UNIVERSITY OF VERMONT 85 S PROSPECT ST BURLINGTON, VT 05405	NONE PC	TO LOWER BARRIERS TO LARGE-SCALE RESEARCH COMPUTING THROUGH THE DEVELOPMENT OF A DISTRIBUTED, VOLUNTEER, IN-BROWSER SYSTEM FOR ELASTIC COMPUTING RESOURCES	202,451.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	TO IMPROVE THE CAPACITY OF DATA INFRASTRUCTURES TO PROVIDE ACCESS TO AND SHARING OF SENSITIVE QUALITATIVE DATA	209,016.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CHELSEA WOOD IN OCEAN SCIENCES	65,000.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MAYA CAKMAK IN COMPUTER SCIENCE	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JIUN-HAW CHU IN PHYSICS	65,000.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ARKA MAJUMDAR IN PHYSICS	65,000.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JESSICA WERK IN PHYSICS	65,000.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JON FROEHLICH IN COMPUTER SCIENCE, ORIGINALLY AWARDED AT THE UNIVERSITY OF MARYLAND, COLLEGE PARK	60,000.
UNIVERSITY OF YORK HESLINGTON, YORK NORTH YORKSHIRE UNITED KINGDOM YO10 5DD	NONE NC	TO DEVELOP AN OPEN SOURCE MODEL FOR INVESTIGATING INDOOR GAS-PHASE CHEMISTRY AND EXPAND SCIENCE COMMUNICATIONS ABOUT INDOOR CHEMISTRY	254,546.
UNIVERSITY OF ZURICH RAEMISTRASSE ZURICH SWITZERLAND 80	NONE NC	TO ENCOURAGE STANDARDIZATION OF SURVEY INSTRUMENTS IN THE DOMAIN OF STUDIES ABOUT PEOPLE'S INTERNET USES TO ALLOW FOR MORE COMPARISON AND REPLICATION	19,610.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
URBAN INSTITUTE 2100 M STREET, NW WASHINGTON, DC 20037	NONE PC	TO IDENTIFY, SIMULATE, AND EVALUATE POLICY REFORM OPTIONS THAT COULD REDUCE WORK DISINCENTIVES AT OLDER AGES, MORE EQUITABLY AND EFFICIENTLY PROVIDE RETIREMENT BENEFITS TO OLDER ADULTS, AND ENSURE LONG-TERM SOLVENCY OF U.S. RETIREMENT PROGRAMS	1,076,012.
URBAN INSTITUTE 2100 M STREET, NW WASHINGTON, DC 20037	NONE PC	TO DEMONSTRATE NEW STATISTICAL AND VISUALIZATION CAPABILITIES BY MIGRATING MASSIVE MICROSIMULATION MODELS TO THE CLOUD	150,000.
URBAN INSTITUTE 2100 M STREET, NW WASHINGTON, DC 20037	NONE PC	TO ASSESS AND BETTER UNDERSTAND THE LABOR SUPPLY, ECONOMIC AND HEALTH IMPACTS OF PAID FAMILY LEAVE POLICIES ON OLDER WORKING ADULTS WHO PROVIDE CARE TO ELDERLY FAMILY MEMBERS	200,000.
VANDERBILT UNIVERSITY BOX 351634 STATION B NASHVILLE, TN 37235-1634	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MARCELO DISCONZI IN MATHEMATICS	65,000.
VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY 1650 RESEARCH CENTER DR BLACKSBURG, VA 24061	NONE GOV	TO CONDUCT TECHNICAL RESEARCH ON IMPROVING THE ACCURACY AND COST-EFFECTIVENESS OF THE 2030 DECENNIAL CENSUS AND THE AMERICAN COMMUNITY SURVEY	125,000.
VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY 1650 RESEARCH CENTER DR BLACKSBURG, VA 24061	NONE GOV	TO DEVELOP AND TEST A FIELD-DEPLOYABLE GAS CHROMATOGRAPH COUPLED TO A CHEMICAL IONIZATION MASS SPECTROMETER, GC- CIMS, TO IDENTIFY ISOMERS	312,170.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY 1650 RESEARCH CENTER DR BLACKSBURG, VA 24061	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR FRANK AYLWARD IN OCEAN SCIENCES	65,000.
VIRGINIA POSTREL 1830 KELTON AVE. #2 LOS ANGELES, CA 90025	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF THE FABRIC OF CIVILIZATION TO BE PUBLISHED BY BASIC BOOKS IN 2020	30,000.
WASHINGTON STATE UNIVERSITY PO BOX 642814 PULLMAN, WA 99164-2814	NONE PC	TO SUPPORT A MULTIDISCIPLINARY RESEARCH PROJECT THAT EXAMINES THE IMPACT OF DEMAND RESPONSE PROGRAMS ON DISTRIBUTION SYSTEMS	200,000.
WASHINGTON UNIVERSITY IN ST. LOUIS 1 BROOKINGS DR. ST. LOUIS, MO 63130-4899	NONE PC	TO DEVELOP A CHEMICALLY-RESOLVED VOLATILITY AND POLARITY SEPARATOR FOR IMPROVED UNDERSTANDING OF INDOOR AIR CHEMISTRY	298,758.
WASHINGTON UNIVERSITY IN ST. LOUIS 1 BROOKINGS DR. ST. LOUIS, MO 63130-4899	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TIMOTHY WENCEWICZ IN CHEMISTRY	65,000.
WESTERN MICHIGAN UNIVERSITY 1903 W. MICHIGAN AVE, MAIL STOP 5413 KALAMAZOO, MI 49008-5413	NONE PC	TO PROVIDE TRAVEL GRANTS TO ATTENDEES AT A 2.5-DAY WORKING GROUP MEETING HOSTED BY HHMI	19,200.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WGBH EDUCATIONAL FOUNDATION ONE GUEST STREET BOSTON, MA 02135	NONE PC	FOR A TWO-HOUR NOVA SPECIAL ABOUT BLACK HOLES HOSTED BY ASTROPHYSICIST JANNA LEVIN, AND ANCILLARY OUTREACH ACTIVITIES AND A FREE MOBILE APP	100,000.
WGBH EDUCATIONAL FOUNDATION ONE GUEST STREET BOSTON, MA 02135	NONE PC	TO SUPPORT THE PRODUCTION OF FOUR PRIME TIME AMERICAN EXPERIENCE DOCUMENTARY FILMS ABOUT THE ROLE OF SCIENCE AND TECHNOLOGY IN HISTORY	500,000.
WHITNEY MUSEUM OF AMERICAN ART 99 GANSEVOORT STREET NEW YORK, NY 10014	NONE PC	TO SUPPORT A MAJOR EXHIBITION ON THE INTERSECTION OF ART AND TECHNOLOGY FROM THE 1960S UNTIL TODAY	50,000.
WIKIMEDIA FOUNDATION 1 MONTGOMERY STREET, STE 1600 SAN FRANCISCO, CA 94104	NONE PC	AS A FINAL GRANT TO BOLSTER WIKIPEDIA'S READERSHIP AND EDITORS, INCLUDING MORE WOMEN, EXPAND ITS MOBILE PRESENCE, AND STRENGTHEN ITS TECHNICAL INFRASTRUCTURE AS IT MOVES TO SELF-SUSTAINABILITY	250,000.
WIKIMEDIA FOUNDATION 1 MONTGOMERY STREET, STE 1600 SAN FRANCISCO, CA 94104	NONE PC	TO TRANSFORM WIKIPEDIA COMMONS' MEDIA FILES FROM FREE TEXT INTO MACHINE-READABLE, STRUCTURED DATA, ENABLING NEW USES FOR MILLIONS OF MEDIA FILES ON WIKIPEDIA AND ACROSS THE WEB	1,000,000.
WIKIMEDIA FOUNDATION 1 MONTGOMERY STREET, STE 1600 SAN FRANCISCO, CA 94104	NONE PC	TO SUPPORT THREE YEARS OF WORKSHOPS, HACKATHONS, AND OUTREACH AT THE INTERSECTION OF ACADEMIC CITATION, BIBLIOGRAPHIC METADATA, AND WIKIPEDIA	66,667.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WNET 825 EIGHTH AVENUE, 14TH FLOOR NEW YORK, NY 10019	NONE PC	TO SUPPORT A THREE-PART TELEVISION SERIES BROADCAST AND ACCOMPANYING OUTREACH ON THE ENGINEERING AND TECHNOLOGY OF LAGUARDIA AIRPORT, WITH A FOCUS ON THE CURRENT NEW TERMINAL PROJECT	250,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	TO CONDUCT RESEARCH AND PROFESSIONAL TRAINING ON THE THEORY AND GLOBAL PRACTICE OF MACROPRUDENTIAL REGULATION	298,477.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	TO SUPPORT THE PUBLICATION OF A SPECIAL ISSUE OF THE JOURNAL OF INDUSTRIAL ECOLOGY APPLYING LIFE CYCLE ASSESSMENT ANALYSIS TECHNIQUES TO EMERGING ENERGY TECHNOLOGIES	20,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YIFENG LIU IN MATHEMATICS, ORIGINALLY AWARDED TO NORTHWESTERN UNIVERSITY	30,970.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YIHONG WU IN MATHEMATICS	65,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DAVID MOORE IN PHYSICS	65,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR STEFAN STEINERBERGER IN MATHEMATICS	65,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DAVID BRESLOW IN NEUROSCIENCE	65,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	TO ACCELERATE SCIENTIFIC DISCOVERY BY USING STATISTICAL MACHINE LEARNING TO ENABLE ADVANCED SEARCH OF MATHEMATICAL LITERATURE	370,840.
YALE UNIVERSITY PRESS 302 TEMPLE STREET NEW HAVEN, CT 06511-8909	NONE PC	TO SUPPORT URBAN CHROMATIC, A BOOK THAT USES SATELLITE IMAGERY TO INCREASE PUBLIC UNDERSTANDING OF REMOTE SENSING AND CONTEMPORARY GLOBAL URBANIZATION	30,250.
YORK UNIVERSITY 4700 KEELE ST. KANEFF TWR, 5TH FL ONTARIO CANADA M3J 1P3	NONE PC	TO DEVELOP ANALYTICAL PLATFORMS FOR THE DETECTION OF REACTIVE NITROGEN INDOORS	274,942.
TOTAL CONTRIBUTIONS PAID			<u>80,357,656.</u>

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AINISSA RAMIREZ 1710 ELLA T. GRASSO BLVD NEW HAVEN, CT 06511	NONE I	TO SUPPORT RESEARCH FOR AND WRITING OF THE ALCHEMY OF US: HOW MATTER AND HUMANS TRANSFORMED ONE ANOTHER (MIT PRESS 2018), A BOOK ABOUT HOW HUMAN ENGINEERING AND THE INVENTION OF 8 KEY MATERIAL DEVICES CHANGED OUR LIVES	17,500.
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE, NW WASHINGTON, DC 20005	NONE PC	TO PILOT A CENTER FOR SCIENTIFIC EVIDENCE IN PUBLIC ISSUES WHOSE REPORTS ON POLICY-RELEVANT SCIENTIFIC FINDINGS WILL BE IMPARTIAL, RESPECTED, TIMELY, AND INFORMED BY EXPERTISE IN THE SOCIAL AND BEHAVIORAL SCIENCES	250,251.
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE, NW WASHINGTON, DC 20005	NONE PC	TO CONTINUE TO PROMOTE THE PROFESSIONALIZATION AND INSTITUTIONALIZATION OF THE ROLE OF THE COMMUNITY ENGAGEMENT MANAGER IN SCIENTIFIC SOCIETIES AND LARGE-SCALE RESEARCH COLLABORATIONS	617,318.
AMERICAN FILM INSTITUTE 2021 NORTH WESTERN AVENUE LOS ANGELES, CA 90027	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	230,000.
AMERICAN FRIENDS OF TOULOUSE SCHOOL OF ECONOMICS C/O SARATOGA ASSOCIATES 116 WEST MAIN STREET, SUITE 302 SALISBURY, MD 21801	NONE PC	TO BUILD OUT AN OPEN-SOURCE PLATFORM FOR REPRODUCIBLY RUNNING LARGE-SCALE BEHAVIORAL EXPERIMENTS BOTH ONLINE AND IN THE LABORATORY	200,000.
AMERICAN INSTITUTE OF PHYSICS CENTER FOR HISTORY OF PHYSICS ONE PHYSICS ELLIPSE COLLEGE PARK, MD 20740	NONE PC	TO SUPPORT GLOBAL, DIGITAL ACCESS TO THE WENNER COLLECTION ON THE HISTORY OF PHYSICS VIA DETAILED CATALOGING, DESCRIPTION, ONLINE AVAILABILITY, AND INITIAL OUTREACH	446,697.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AMERICAN MUSEUM OF THE MOVING IMAGE 36-01 35TH AVENUE ASTORIA, NY 11106	NONE PC	TO MAINTAIN THE COMPREHENSIVE, UP-TO-DATE, GO-TO SITE FOR THE NATIONWIDE SLOAN FILM PROGRAM, ITS PARTNERS, AND 600+ FILM PROJECTS AND TO DEVELOP RELATED OUTREACH, EVENTS, AND EDUCATIONAL MATERIALS FOR STUDENTS, TEACHERS, AND THE GENERAL PUBLIC	440,000.
AMERICAN STATISTICAL ASSOCIATION 1429 DUKE STREET ALEXANDRIA, VA 22314-3415	NONE PC	TO RECRUIT, TRAIN, PLACE, AND SUPPORT ACADEMIC STATISTICIANS AND DATA SCIENTISTS WHO WILL WORK AS AAAS FELLOWS IN THE FEDERAL GOVERNMENT	898,783.
ANNUAL REVIEWS 4139 EL CAMINO WAY PALO ALTO, CA 94303	NONE PC	TO DEVELOP AND EXPAND KNOWABLE MAGAZINE, A NEW DIGITAL PUBLICATION THAT UNLOCKS SCIENTIFIC RESEARCH TO INFORM THE PUBLIC DISCOURSE WITH COMPELLING, TIMELY, AND IMPARTIAL KNOWLEDGE	380,000.
ARIZONA STATE UNIVERSITY 300 E UNIV. DRIVE, PO BOX 877205 TEMPE, AZ 85287-7205	NONE GOV	TO CREATE A FREE, OPEN SOURCE, INTERACTIVE, DIGITAL EDITION OF FRANKENSTEIN: ANNOTATED FOR SCIENTISTS, ENGINEERS AND CREATORS OF ALL KINDS THAT BRIDGES THE SCIENCES AND HUMANITIES AND SEEKS TO FOSTER AN ENGAGED COMMUNITY OF READERS	30,000.
ARIZONA STATE UNIVERSITY FOUNDATION P.O. BOX 2260 TEMPE, AZ 85280-2260	NONE PC	TO STUDY THE ECONOMICS AND MAINTENANCE OF DIGITAL INFRASTRUCTURE THROUGH CASE STUDIES OF THE FUNDING AND IMPACT OF SOFTWARE INSTRUMENTS IN STELLAR ASTROPHYSICS	36,942.
ART OF PROBLEM SOLVING INITIATIVE, INC. 55 EXCHANGE PLACE, STE 603 NEW YORK, NY 10005	NONE PC	TO PROVIDE RENEWED PARTIAL SUPPORT FOR THE BEAM 6 PROGRAM	330,000.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ASSOCIATION OF AMERICAN UNIVERSITIES 1200 NEW YORK AVE, NW, STE 550 WASHINGTON, DC 20005	NONE PC	TO CONSTRUCT MORE STUDENT-CENTERED EDUCATIONAL ENVIRONMENTS FOR ALL GRADUATE STUDENTS BY ACTIVE INSTITUTIONAL AND DEPARTMENTAL SUPPORT FOR A VARIETY OF CAREER OPTIONS AND FOR INCREASED INCLUSION OF STUDENTS FROM UNDERREPRESENTED GROUPS	151,550.
ASTROPHYSICAL RESEARCH CONSORTIUM U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	NONE PC	TO UNDERTAKE THE SLOAN DIGITAL SKY SURVEY V (SDSS-V), WHICH WILL UTILIZE ALL-SKY SPECTROSCOPIC OBSERVATIONS TO EXPLAIN THE GENESIS OF THE MILKY WAY AND ITS NEIGHBORS, COMPREHENSIVELY TEST STELLAR ASTROPHYSICS AND STAR-PLANET RELATIONS, PROBE SUPERMASSIVE BLACK HOLE PHYSICS, AND MAP, ON UNPRECEDENTED SCALES, THE MILKY WAY'S INTERSTELLAR GAS AND THAT OF NEARBY GALAXIES	8,875,000.
ASTROPHYSICAL RESEARCH CONSORTIUM U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	NONE PC	TO MAXIMIZE THE SUSTAINABILITY OF THE SLOAN DIGITAL SKY SURVEY (SDSS) DATA ARCHIVE	200,000.
ASTROPHYSICAL RESEARCH CONSORTIUM U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	NONE PC	TO CONTINUE SUPPORT FOR THE FACULTY AND STUDENT TEAM (FAST) PROGRAM WITHIN THE SLOAN DIGITAL SKY SURVEY (SDSS) THAT AIMS TO INCREASE THE NUMBER OF UNDERREPRESENTED MINORITY STUDENTS AND FACULTY IN THE COLLABORATION AND INCREASE THE NUMBER OF STUDENTS PURSUING ASTRONOMY PH.D. PROGRAMS	330,000.
BARNARD COLLEGE 3009 BRDWY NEW YORK, NY 10027-6598	NONE PC	TO SUPPORT THE LEADING WOMEN'S FILM FESTIVAL, THE ATHENA FILM FESTIVAL AT BARNARD, WITH MORE WOMEN-IN-STEM PROGRAMMING	300,000.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BENJAMIN EHRLICH 2176 ELLERY AVENUE FORT LEE, NJ 07627	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF THE BRAIN THAT DISCOVERED ITSELF, ABOUT THE FATHER OF NEUROSCIENCE SANTIAGO RAMON Y CAJAL, TO BE PUBLISHED BY FARRAR, STRAUS AND GIROUX IN FALL 2020	5,000.
BOSTON COLLEGE 140 COMMONWEALTH AVE CHESTNUT HILL, MA 02467	NONE PC	TO STRENGTHEN NETWORK MEMBER ENGAGEMENT OF THE SLOAN RESEARCH NETWORK AND SUCCESSFULLY TRANSITION TO A NEW STRUCTURE AND LEADERSHIP	258,319.
BOSTON COLLEGE 140 COMMONWEALTH AVE CHESTNUT HILL, MA 02467	NONE PC	TO PRODUCE RESEARCH AND INFORM POLICY-MAKERS ABOUT THE ROLE THAT NON-TRADITIONAL JOBS PLAY FOR OLDER WORKERS	120,384.
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	TO DEVELOP, EVALUATE, AND TRANSFER TO PRACTICE A ROBUST FRAMEWORK OF DISTRIBUTION LOCATIONAL MARGINAL PRICES THAT CAN IMPROVE EFFICIENCIES IN ELECTRICITY DISTRIBUTION	49,360.
BRANDY SCHILLACE 324 EAST 218TH STREET EUCLID, OH 44123	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF MR. HUMBLE AND DR. BUTCHER TO BE PUBLISHED BY SIMON AND SHUSTER BY 2021	36,000.
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVE, NW WASHINGTON, DC 20036	NONE PC	TO CONTINUE SUPPORTING THE PRODUCTION AND DISSEMINATION OF ACCESSIBLE, RELIABLE, AND INFLUENTIAL RESEARCH THROUGH THE BROOKINGS PAPERS ON ECONOMIC ACTIVITY	200,000.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVE, NW WASHINGTON, DC 20036	NONE PC	TO DEVELOP AND JUSTIFY SPECIFIC, ACTIONABLE POLICY REFORMS TO ENCOURAGE INCREASED SAVING AND ENABLE LONGER WORKING LIVES, AS WELL AS TO IDENTIFY POLICY REFORMS TO ENABLE CONSUMERS TO HAVE GREATER ACCESS TO AND UNDERSTANDING OF RETIREMENT PRODUCTS IN THE PRIVATE MARKET	233,661.
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO ORGANIZE, STRUCTURE, AND SYNTHESIZE RESEARCH ON THE MEASUREMENT OF PRODUCTIVITY	496,589.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	TO DEVELOP, TEST, AND APPLY NEURO-ECONOMIC MODELS OF HOW DECISION-MAKERS SWITCH BETWEEN HABIT-DRIVEN AND GOAL-SEEKING BEHAVIORS	102,557.
CALIFORNIA POLYTECHNIC STATE UNIVERSITY ONE GRAND AVENUE SAN LUIS OBISPO, CA 93407	NONE PC	TO DEVELOP SOFTWARE AND OTHER COMPUTATIONAL RESEARCH INFRASTRUCTURE FOR PROVIDING SAFE AND SECURE ACCESS TO SENSITIVE DATA	1,136,089.
CARNEGIE INSTITUTION OF WASHINGTON 1530 P STREET, N.W. WASHINGTON, DC 20005	NONE PC	TO SUPPORT THE SECRETARIAT OF THE DEEP CARBON OBSERVATORY TO BRING THE PROGRAM TO EFFECTIVE CLOSURE AND ASSURE ITS LEGACIES	1,000,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	200,000.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO ANALYZE THE CHALLENGES AND OPPORTUNITIES ASSOCIATED WITH UPGRADING AND TRANSFORMING HIGH VOLTAGE TRANSMISSION LINES AS COMPARED WITH SITING NEW TRANSMISSION INFRASTRUCTURE	65,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO STUDY THE ECONOMICS AND MAINTENANCE OF DIGITAL INFRASTRUCTURE BY TESTING THE IMPACT OF NON-FINANCIAL AND REPUTATIONAL INCENTIVES ON OPEN SOURCE PARTICIPATION	49,500.
CENTER FOR OPEN SCIENCE 210 RIDGE MCINTIRE RD., STE 500 CHARLOTTESVILLE, VA 22903	NONE PC	TO IMPLEMENT AND TEST FEATURES TO SIGNAL CREDIBILITY AND TRUST ON PREPRINT SERVICES	252,188.
CHICAGO PUBLIC MEDIA, INC. 848 E. GRAND AVE, NAVY PIER CHICAGO, IL 60611	NONE PC	TO SUPPORT SCIENCE-AND-TECHNOLOGY-THEMED EPISODES ON THE NERDETTTE PODCAST	30,000.
CITY COLLEGE OF NEW YORK - CUNY CONVENT AVENUE AT 138TH STREET NEW YORK, NY 10031	NONE PC	TO DEVELOP AN OPEN SOURCE FRAMEWORK FOR PROTOTYPING 3D SCIENTIFIC VISUALIZATION APPLICATIONS USING GAME ENGINES	125,000.
COLORADO SCHOOL OF MINES 1500 ILLINOIS STREET GOLDEN, CO 80401	NONE GOV	TO CONTINUE A SUMMER SCHOOL TRAINING PROGRAM THAT PROVIDES EARLY CAREER ECONOMISTS AND SOCIAL SCIENTISTS WITH AN UNDERSTANDING OF TECHNOLOGICAL DIMENSIONS OF ELECTRICITY DISTRIBUTION SYSTEMS	161,098.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO SUPPORT THE COLUMBIA ENERGY EXCHANGE PODCAST SERIES TO DISSEMINATE INFORMATION AND DEEPEN DIALOGUE AROUND ENERGY AND ENVIRONMENT ISSUES	50,000.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO INTEGRATE BEHAVIORAL INSIGHTS INTO THE FOUNDATIONS OF STANDARD MACROECONOMIC MODELS BY RE-EXAMINING THE ROLE OF THE EULER EQUATION	264,789.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO CONTINUE THE ENERGY JOURNALISM INITIATIVE AND EDUCATE JOURNALISTS ON RECENT RESEARCH TOPICS AND KEY FINDINGS RELATED TO ENERGY ECONOMICS, POLICY, SECURITY, AND TECHNOLOGY	180,000.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO CONDUCT EXPERIMENTS ON THE BEHAVIORAL WELFARE EFFECTS OF HETEROGENEOUS NUDGING	59,677.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO DEVELOP A GLOBAL, SCALABLE, AND SUSTAINABLE TECHNICAL AND ORGANIZATIONAL INFRASTRUCTURE FOR PERSISTENT UNIQUE IDENTIFIERS OF PHYSICAL SCIENTIFIC SAMPLES	189,041.
COMMUNITY INITIATIVES 354 PINE STREET, STE 700 SAN FRANCISCO, CA 94104	NONE PC	TO SUPPORT THE DEVELOPMENT OF DATA AND COMPUTATIONAL SKILLS TRAINING CURRICULA IN IMAGE ANALYSIS, ECONOMICS, AND CHEMISTRY	237,188.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CONSUMER REPORTS 101 TRUMAN AVENUE YONKERS, NY 10703	NONE PC	TO RESEARCH CONSUMER ATTITUDES ON DIGITAL PRIVACY, CONVENE EXPERTS AND TEST TECHNOLOGY PLATFORMS ON THEIR PRIVACY PRACTICES, AND EDUCATE CONSUMERS ABOUT DIGITAL PRIVACY AND SECURITY	171,039.
COOLIDGE CORNER THEATRE FOUNDATION 290 HARVARD STREET BROOKLINE, MA 02446	NONE PC	TO SUSTAIN AND EXPAND THE NATIONAL SCIENCE ON SCREEN PROGRAM, WITH A FOCUS ON ENHANCED WEB AND SOCIAL MEDIA PROMOTION	191,000.
COOPER UNION FOR THE ADVANCEMENT OF SCIENCE & ART 30 COOPER SQUARE, 8TH FLOOR NEW YORK, NY 10003	NONE PC	TO PROVIDE RENEWED SUPPORT FOR STEM SATURDAYS	125,000.
CORNELL UNIVERSITY 373 PINE TREE RD. ITHACA, NY 14850-2820	NONE PC	TO ENHANCE THE TRANSPARENCY, REPRODUCIBILITY, AND REPLICABILITY OF EMPIRICAL RESEARCH IN THE SOCIAL SCIENCES BY SIMPLIFYING HOW AUTHORS CAN, WHEN SUBMITTING A PAPER TO A JOURNAL, ALSO PROVIDE STRUCTURED METADATA ABOUT THE PROVENANCE AND ARCHIVING OF CODE, DATA, AND OTHER SUPPLEMENTARY MATERIALS	50,000.
COUNCIL ON LIBRARY AND INFO. RESOURCES 1707 L STREET NW, STE 650 WASHINGTON, DC 20036-2124	NONE PC	TO IMPROVE DATA MANAGEMENT PRACTICES IN ENERGY ECONOMICS AND POLICY ANALYSIS RESEARCH THROUGH A POSTDOCTORAL FELLOWSHIP PROGRAM IN DATA CURATION FOR ENERGY ECONOMICS	100,000.
COUNCIL ON LIBRARY AND INFO. RESOURCES 1707 L STREET NW, STE 650 WASHINGTON, DC 20036-2124	NONE PC	TO SUPPORT DATA AND SOFTWARE CURATION POSTDOCTORAL FELLOWSHIPS, IN ORDER TO DEVELOP EMERGING LEADERS IN THE FIELD AND BUILD CAPACITY WITHIN ACADEMIC LIBRARIES	200,000.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
DARTMOUTH COLLEGE 11 ROPE FERRY RD. HANOVER, NH 03755	NONE PC	TO STUDY, BY RUNNING BEHAVIORAL EXPERIMENTS, HOW CONSUMERS MAKE DECISIONS ABOUT INSURANCE PRODUCTS LIKE ANNUITIES	43,311.
DECISION SCIENCE RESEARCH INSTITUTE, INC. 1201 OAK STREET, STE 200 EUGENE, OR 97401	NONE PC	TO CONDUCT SURVEYS, MEASUREMENTS, AND BEHAVIORAL EXPERIMENTS ABOUT PUBLIC PERCEPTIONS OF RISK USING NEW METHODS AND TECHNOLOGIES	313,139.
DIGITAL PUBLIC LIBRARY OF AMERICA, INC. P.O. BOX 426038 CAMBRIDGE, MA 02142	NONE PC	TO CONTINUE THE GROWTH OF DPLA EXCHANGE FOR ENHANCED EBOOK ACCESS BY THOUSANDS OF LIBRARIES WHILE DEVELOPING AN ONGOING REVENUE STREAM FOR DPLA'S FUTURE	1,510,542.
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	TO LAUNCH AN INTERNATIONAL SUMMER SCHOOL ON COMPUTATIONAL SOCIAL SCIENCE	206,873.
ENVIRONMENTAL DEFENSE FUND INC. 257 PARK AVENUE SOUTH NEW YORK, NY 10010	NONE PC	TO UNDERSTAND THE ECONOMIC AND ENVIRONMENTAL IMPACTS OF COST-REFLECTIVE ELECTRICITY PRICING SCHEMES RELATED TO DISTRIBUTED ENERGY RESOURCES DEPLOYMENT	150,000.
ENVIRONMENTAL LAW INSTITUTE 1730 M STREET, NW, STE 700 WASHINGTON, DC 20036	NONE PC	TO GENERATE NOVEL, MULTI-DISCIPLINARY RESEARCH TO INCREASE UNDERSTANDING OF THE ENERGY AND ENVIRONMENTAL IMPACTS OF THE DIGITAL ECONOMY, WITH A FOCUS ON SHARING PLATFORMS, ARTIFICIAL INTELLIGENCE, AND BLOCKCHAIN TECHNOLOGIES	250,000.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FAIRFIELD UNIVERSITY 1073 NORTH BENSON RD. FAIRFIELD, CT 06824	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF A BOOK ABOUT THE THALIDOMIDE SCANDAL OF THE 1960S TO BE PUBLISHED BY RANDOM HOUSE IN 2020	25,000.
FILM INDEPENDENT, INC. 5670 WILSHIRE BLVD., 9TH FLOOR LOS ANGELES, CA 90036	NONE PC	TO PROVIDE DIRECT SUPPORT TO DEVELOP AND DISTRIBUTE SCIENCE AND TECHNOLOGY SCRIPTS, TELEPLAYS, AND FILMS	200,000.
FLINT CULTURAL CENTER CORPORATION 601 E. SECOND STREET FLINT, MI 48503	NONE PC	TO SUPPORT THE SCIENCE DISCOVERY HALL AT THE SLOAN MUSEUM OF DISCOVERY IN FLINT, MICHIGAN, AND TO ADVANCE PUBLIC UNDERSTANDING OF SCIENCE TO AN UNDERSERVED POPULATION	200,000.
FOOD & ENVIRONMENT REPORTING NETWORK 576 FIFTH AVENUE, STE 903 NEW YORK, NY 10036	NONE PC	TO SUPPORT IMMERSIVE SCIENCE STORYTELLING ON THE GASTROPOD PODCAST AND A DIVERSITY EVALUATION AND IMPLEMENTATION PLAN	30,000.
FORDHAM UNIVERSITY ROSE HILL, 441 E. FORDHAM RD. BRONX, NY 10458	NONE PC	TO SUPPORT A GLOBAL SUMMIT ON ANTHROPOLOGICAL CONTRIBUTIONS TO RESEARCH ON BUSINESS AND ECONOMICS	7,500.
FPF EDUCATION AND INNOVATION FOUNDATION 1400 EYE STREET NW, STE 450 WASHINGTON, DC 20005	NONE PC	TO LAUNCH THE CORPORATE-ACADEMIC DATA STEWARDSHIP RESEARCH ALLIANCE, A PRIVATE COMPANY PEER-TO-PEER NETWORK TO ACCELERATE PRIVACY PROTECTIVE SHARING OF ADMINISTRATIVE DATA BETWEEN BUSINESSES AND ACADEMIC RESEARCHERS	329,880.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FUND FOR THE CITY OF NEW YORK 121 AVENUE OF THE AMERICAS, 6TH FLR NEW YORK, NY 10013	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE SLOAN PUBLIC SERVICE AWARDS PROGRAM	540,000.
FUND FOR THE CITY OF NEW YORK 121 AVENUE OF THE AMERICAS, 6TH FLR NEW YORK, NY 10013	NONE PC	TO IMPROVE LOCAL DECISION-MAKING BY CONTINUING TO BUILD TECHNICAL CAPACITY IN NYC BOROUGH PRESIDENT OFFICES AND COMMUNITY BOARDS	175,000.
GEORGE WASHINGTON UNIVERSITY 2023 G ST. NW, LISNER 340 WASHINGTON, DC 20052	NONE PC	TO DESIGN, VET, AND LAUNCH PLANS FOR FEDERAL AGENCIES AND PRIVATE DATA HOLDERS TO COOPERATE ON IMPROVING FEDERAL ECONOMIC STATISTICS	50,000.
GEORGETOWN UNIVERSITY 37TH & O STREET, NW WASHINGTON, DC 20057	NONE PC	TO PROMOTE THE SAFE AND RESPONSIBLE USE OF ADMINISTRATIVE DATA IN ACADEMIC RESEARCH BY ESTABLISHING AN ALLIANCE WHOSE MEMBER INSTITUTIONS INTERMEDIATE BETWEEN DATA PRODUCERS AND DATA USERS	975,927.
GREATER WASHINGTON EDU. TELECOM. ASSOC. INC. 3939 CAMPBELL AVE ARLINGTON, VA 22206	NONE PC	TO SUPPORT PRODUCTION AND OUTREACH FOR THE GENE: AN INTIMATE HISTORY, A THREE-HOUR DOCUMENTARY, BASED ON SIDDHARTHA MUKHERJEE'S BOOK, TO AIR NATIONALLY ON PBS PRIMETIME	500,000.
HACKNY P.O. BOX 176 NEW YORK, NY 10276-0176	NONE PC	TO SUPPORT THE LOCAL NYC TECH STARTUP COMMUNITY THROUGH COMMUNITY EVENTS, HACKATHONS, AND SUMMER FELLOWSHIPS; AND TO HELP HACKNY DEVELOP AND EXECUTE ON NEW SUSTAINABILITY MODELS TO SUPPORT THESE ACTIVITIES IN THE FUTURE	198,950.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP BEHAVIORALLY INFORMED VERSIONS OF BASIC MACROECONOMIC MODELS	108,896.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO FASHION FUNDAMENTAL CONCEPTS AND MODELS FOR BEHAVIORAL ECONOMICS BASED ON THEORIES OF CONTEXT-DEPENDENT CHOICE	86,695.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO INCREASE BOTH THE NUMBER OF MINORITY STUDENTS ENTERING TOP PH.D. PROGRAMS IN ECONOMICS AND ECONOMICS' RELATED FIELDS AND THE DIVERSITY OF THE ECONOMICS FACULTIES AND WORK FORCE	300,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO SUPPORT RESEARCH THAT ADDRESSES HOW WORK CONDITIONS SHAPE OBSERVED EMPLOYMENT TRANSITIONS OF OLDER WORKERS AND HOW AGE AND EMPLOYMENT STATUS AFFECT PREFERENCES FOR WORKING CONDITIONS	104,534.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO RENEW AN INTERDISCIPLINARY, POSTDOCTORAL TRAINING PROGRAM CALLED THE "SLOAN FELLOWSHIP ON AGING AND WORK" THAT ADDRESSES THE CHALLENGES OF AGING SOCIETIES AND LABOR FORCE PARTICIPATION	318,636.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO EXAMINE THE ROLE OF TECHNOLOGY AND KNOWLEDGE SPILLOVERS IN THE DEVELOPMENT OF NOVEL CLEAN ENERGY TECHNOLOGIES	338,435.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP NEW STATISTICAL METHODS THAT IMPROVE BOTH THE IDENTIFICATION OF CAUSAL EFFECTS IN OBSERVATIONAL STUDIES AS WELL AS THE GENERALIZABILITY OF RANDOMIZED EXPERIMENTS	219,169.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP A BETTER AND MORE COHESIVE UNDERSTANDING OF CURRENT AND FUTURE TRENDS IN AGING AND LABOR FORCE PARTICIPATION IN THE UNITED STATES AND TO IMPART THAT INFORMATION TO THE GENERAL PUBLIC	382,052.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO IMPROVE THE ABILITY TO CURATE AND VERIFY REPLICATION DATASETS WITHIN THE DATAVERSE DATA ARCHIVING PLATFORM THROUGH A SUITE OF SOFTWARE CONTAINERIZATION AND METADATA TOOLS, AND TO SUPPORT THE DEVELOPMENT OF A NEW DATA CURATION SERVICE AT THE HARVARD DATAVERSE	252,709.
HAVERFORD COLLEGE 370 W LANCASTER AVE HAVERFORD, PA 19041	NONE PC	TO TEACH MORE UNDERGRADUATE SOCIAL SCIENTISTS ABOUT INTEGRITY, TRANSPARENCY, AND REPRODUCIBILITY IN EMPIRICAL RESEARCH	102,246.
INDIANA UNIVERSITY 150 SOUTH WOODLAWN BLOOMINGTON, IN 47405	NONE PC	TO EXAMINE RADICAL CONCENTRATIONS AND ASSOCIATED AEROSOL PRODUCTION IN INDOOR ENVIRONMENTS	473,666.
INNOVATIONS FOR POVERTY ACTION 101 WHITNEY AVENUE NEW HAVEN, CT 06510	NONE PC	TO STUDY THE BEHAVIORAL WELFARE ECONOMICS OF POTENTIAL INTERVENTIONS IN FOUR KINDS OF CRITICAL CONSUMER DECISIONS	140,365.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
INSTITUTE OF INTERNATIONAL EDUCATION 809 UNITED NATIONS PLAZA NEW YORK, NY 10017	NONE PC	TO PROVIDE 25 LIFE-SAVING FELLOWSHIPS AND ACADEMIC PLACEMENTS FOR PERSECUTED SCHOLARS FROM AROUND THE WORLD OVER THREE YEARS	250,000.
JACOB BURNS FILM CENTER, INC. 405 MANVILLE RD. PLEASANTVILLE, NY 10570	NONE PC	TO PRODUCE A FEATURE-LENGTH DOCUMENTARY ON THE BLUE BRAIN PROJECT TO BUILD A FULL-SCALE, SELF-AWARE SIMULATION OF THE HUMAN BRAIN	30,000.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	TO FUND THE OPEN CHEMISTRY COLLABORATIVE IN DIVERSITY EQUITY (OXIDE) TO ADVANCE DIVERSITY AND INCLUSION, AND REDUCE DIVERSITY INEQUITIES THROUGHOUT THE ACADEMIC CAREER LADDER IN CHEMISTRY DEPARTMENTS NATIONWIDE	325,000.
MANHATTAN THEATRE CLUB 311 WEST 43RD ST, 8TH FLR NEW YORK, NY 10036	NONE PC	TO SUPPORT THE MTC/SLOAN INITIATIVE COMMISSIONING, DEVELOPING, AND PRODUCING NEW SCIENCE AND TECHNOLOGY PLAYS	433,333.
MANHATTAN THEATRE CLUB 311 WEST 43RD ST, 8TH FLR NEW YORK, NY 10036	NONE PC	TO PROVIDE PRODUCTION SUPPORT FOR MANHATTAN CLUB THEATRE'S STAGING OF BESS WOHL'S SCIENCE-THEMED PLAY CONTINUITY	250,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO DEVELOP TOOLS THAT ARE COMPUTATIONALLY, ADMINISTRATIVELY, AND LEGALLY PRACTICAL FOR CONDUCTING PRIVACY PRESERVING RESEARCH ON SOCIAL SCIENCE DATASETS	218,954.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO EXPLORE THE EFFECTS OF ROBOTS ON EMPLOYMENT, WAGES, AND PRODUCTIVITY	212,129.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO CONDUCT RESEARCH ON THE PRIVATE AND SOCIAL RETURNS TO INNOVATION	200,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO STUDY R&D INVESTMENT LEVELS AND RETURNS IN THE CONTEXT OF CURRENT U.S. PRODUCTIVITY AND INNOVATION TRENDS	205,414.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO SUPPORT THE GROWTH OF TWELVE NEW SCIENCE FESTIVAL INITIATIVES IN COMMUNITIES ACROSS THE COUNTRY WITH SMALL RESOURCE BASES WITH A SPECIAL NEW EMPHASIS ON DIVERSITY	371,572.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO PRODUCE A COMPREHENSIVE, MULTIDISCIPLINARY FUTURE OF STORAGE STUDY THAT WILL CONSIDER THE ROLE KEY STORAGE TECHNOLOGIES MIGHT PLAY IN ELECTRICITY SYSTEMS OVER DIFFERENT TIME SCALES AND SERVICE REQUIREMENTS	593,399.
MATHEMATICAL SCIENCES RESEARCH INSTITUTE 17 GAUSS WAY BERKELEY, CA 94720-5070	NONE PC	TO INCREASE THE NUMBER OF STUDENTS FROM UNDERREPRESENTED GROUPS IN MATHEMATICS GRADUATE PROGRAMS	298,000.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MATHEMATICAL SCIENCES RESEARCH INSTITUTE 17 GAUSS WAY BERKELEY, CA 94720-5070	NONE PC	TO SUPPORT THE 2019 AND 2021 NATIONAL MATH FESTIVALS, EVENTS THAT INCREASE THE APPRECIATION FOR MATHEMATICS AND MATHEMATICAL RESEARCH THROUGH THE ARTS, ENGAGING LECTURES, AND INTERACTIVE ACTIVITIES	250,000.
MAX PLANCK INSTITUTE FOR CHEMISTRY ADMINISTRATIONHAHN-MEITNER-WEG 1 GERMANY D-55128	NONE NC	TO EXAMINE THE ROLE OF HUMANS AND HUMAN EMISSIONS IN INDOOR AIR CHEMISTRY	409,975.
MICHELLE NIJHUIS P.O. BOX 2273 WHITE SALMON, WA 98672	NONE I	TO SUPPORT THE RESEARCH, FACT-CHECKING, AND PROMOTION OF A BOOK ABOUT THE SPECIES CONSERVATION MOVEMENT TO BE PUBLISHED BY W.W. NORTON IN 2020	20,000.
MIDDLEBURY COLLEGE 287 BICENTENNIAL WAY MIDDLEBURY, VT 05753	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF AN UPDATED VERSION OF THE 1993 SLOAN-SUPPORTED BOOK NUCLEAR CHOICES: A CITIZEN'S GUIDE TO NUCLEAR TECHNOLOGY TO BE PUBLISHED BY MIT PRESS	22,761.
MONTANA STATE UNIVERSITY, BOZEMAN 309 MONTANA HALL, PO BOX 172470 BOZEMAN, MT 59717	NONE GOV	TO SUPPORT A BOOK ON THE EVOLUTIONARY AND ECOLOGICAL SCIENCE UNDERLYING AGRICULTURE, ETERNAL HARVEST: AN EXTRAORDINARY BIOGRAPHY OF WHEAT, TO BE PUBLISHED BY UNIVERSITY OF CHICAGO PRESS	20,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO SUSTAIN THE SCIENCE AND ENTERTAINMENT EXCHANGE AND THE ROLE OF SCIENCE AND SCIENCE CONSULTANTS IN HOLLYWOOD AND TO PROVIDE SCIENCE ADVISORS FOR THE SLOAN FILM PROGRAM	250,000.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO HEIGHTEN QUALITY, VIGOR, AND INNOVATION IN THE U.S. STEM ENTERPRISE BY INCREASING THE DIVERSITY OF INDIVIDUALS, RESEARCH TEAMS, AND LEADERSHIP THROUGH A CONSENSUS STUDY AND ONLINE RESOURCE GUIDE ON EFFECTIVE MENTORING PROGRAMS AND PRACTICES	100,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO REPORT ON HOW SOCIAL AND BEHAVIORAL INSIGHTS CAN IMPROVE THE RELIABILITY AND REPRODUCIBILITY OF SCIENTIFIC FINDINGS	120,595.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO CONVENE AN INTERNATIONAL WORKSHOP THAT WILL PLAN GLOBAL COOPERATION AND COORDINATION CONCERNING ARTIFICIAL INTELLIGENCE RESEARCH AND ITS APPLICATIONS	63,472.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO SUPPORT THE DEVELOPMENT OF A NOBEL PRIZE-LEVEL SCIENCE COMMUNICATION PRIZE AND ACTIVITIES AT THE ARTHUR M. SACKLER COLLOQUIUM ON MISINFORMATION, TO BE HELD APRIL 3 AND 4, 2019	18,994.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO BROADLY DISSEMINATE TO VARIOUS STAKEHOLDERS THE NEW NATIONAL ACADEMIES REPORT, "MINORITY SERVING INSTITUTIONS: AMERICA'S UNDERUTILIZED RESOURCE FOR STRENGTHENING THE STEM WORKFORCE"	65,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO DEVELOP A SHARED VISION AND APPROACH FOR A COLLABORATION BETWEEN NASEM, OECD AND IAP TO UNDERSTAND THE IMPACT OF AI ON WORK BY ASSESSING AI AND ROBOTICS CAPABILITIES	25,000.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWDY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO SUPPORT THE ALFRED P. SLOAN MINORITY PH.D. PROGRAM (MPHD) THROUGH PHASE 1 RENEWAL GRANTS FOR UNIVERSITY CENTERS OF EXEMPLARY MENTORING (UCEMS) AT CORNELL UNIVERSITY, GEORGIA INSTITUTE OF TECHNOLOGY, AND THE PENNSYLVANIA STATE UNIVERSITY	900,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWDY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO PROVIDE SCHOLARSHIP SUPPORT FOR THE SLOAN INDIGENOUS GRADUATE PARTNERSHIP (SIGP) ENABLING CONSORTIUM MEMBERS TO RECRUIT, SUPPORT, AND GRADUATE INDIGENOUS STUDENTS EARNING GRADUATE DEGREES IN STEM DISCIPLINES	1,100,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWDY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO SUPPORT SCHOLARSHIPS AND PROGRAM EXPENSES FOR A THREE-YEAR RENEWAL OF A UNIVERSITY CENTER OF EXEMPLARY MENTORING (UCEM) AT THE UNIVERSITY OF SOUTH FLORIDA	330,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWDY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO SUPPORT A NEW ALFRED P. SLOAN MINORITY PH.D. (MPHD) UNIVERSITY CENTER OF EXEMPLARY MENTORING (UCEM) PROGRAM AT DUKE UNIVERSITY (COMBINING \$700,000 IN NEW FUNDING WITH \$300,000 IN UNSPENT NACME FUNDS)	500,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWDY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO MANAGE EFFECTIVELY AND EFFICIENTLY THE FOUNDATION'S PORTFOLIO OF GRADUATE SCHOLARSHIP PROGRAMS	204,328.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. ONE NORTH BRDWDY, STE 601 WHITE PLAINS, NY 10601	NONE PC	TO SUPPORT THE ALFRED P. SLOAN MINORITY PH.D. PROGRAM (MPHD) THROUGH PHASE 3 RENEWAL GRANTS FOR UNIVERSITY CENTERS OF EXEMPLARY MENTORING (UCEMS) AT MASSACHUSETTS INSTITUTE OF TECHNOLOGY, UNIVERSITY OF CALIFORNIA, SAN DIEGO AND THE UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	1,870,643.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO RENEW SUPPORT FOR A THREE-YEAR POSTDOCTORAL PROGRAM ON THE ECONOMICS OF THE AGING WORKFORCE	127,075.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO EXAMINE THE LINK BETWEEN THE RECEDING RETIREMENT AGE OF OLDER WORKERS AND THE SHIFTS IN DEMAND FOR THESE WORKERS ASSOCIATED WITH THE EXPANSION OF ARTIFICIAL INTELLIGENCE AND ROBOTIC SUBSTITUTES	292,150.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO COMPARE THE RETIREMENT PATHS OF PUBLIC AND PRIVATE EMPLOYEES, ASSESSING DIFFERENCES IN WORKING CONDITIONS, RETIREMENT BENEFITS, AND GOVERNMENT REGULATIONS AND IMPACTS ON THE AGE OF RETIREMENT FROM CAREER JOBS AND THE LIKELIHOOD OF POST-RETIREMENT WORK	155,661.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO ORGANIZE AND SUPPORT INNOVATIVE RESEARCH ON THE ECONOMICS OF DIGITIZATION	194,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO UNDERTAKE A RESEARCH PROJECT EXAMINING HOW MARKET FORCES, PUBLIC POLICIES, AND TECHNOLOGICAL CHANGE AFFECT ENERGY CONSUMPTION AND USE IN THE TRANSPORTATION SECTOR	100,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO CONTINUE SUPPORT FOR PREDOCTORAL RESEARCH AND TRAINING FELLOWSHIPS IN ENERGY ECONOMICS	411,500.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO DEVELOP NEW DISSEMINATION CHANNELS FOR RIGOROUS, NONPARTISAN RESEARCH IN ENVIRONMENTAL AND ENERGY ECONOMICS THROUGH A NEW FORUMS FOR RESEARCH PRESENTATION AND PUBLICATION	200,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO BUILD A RESEARCH COMMUNITY ON THE ECONOMICS OF SCIENCE BY HOLDING REGULAR CONFERENCES AND BY OTHER COMMUNITY-BUILDING ACTIVITIES	180,136.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO DEVELOP AN ACTIVE AND DIVERSE RESEARCH COMMUNITY THAT STUDIES THE ECONOMICS OF ARTIFICIAL INTELLIGENCE	609,500.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO SUPPORT A TWO-YEAR PHASE OF COLLABORATIVE STUDY ON FACILITATING WORK AT OLDER AGES	126,500.
NEW JERSEY INSTITUTE OF TECHNOLOGY 323 DR MARTIN LUTHER KING BLVD NEWARK, NJ 07201	NONE GOV	TO DEVELOP AND TEST PRIVACY-PROTECTION TECHNIQUES THAT ENABLE RESEARCHERS TO COLLECT AND ANALYZE SENSITIVE DATA	109,038.
NEW VENTURE FUND 1201 CONNECTICUT AVE NW, STE 300 WASHINGTON, DC 20036	NONE PC	TO ENCOURAGE CHARITABLE GIVING IN SUPPORT OF BASIC SCIENTIFIC RESEARCH THROUGH SLOAN MEMBERSHIP IN THE SCIENCE PHILANTHROPY ALLIANCE	175,000.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW YORK ACADEMY OF SCIENCES 7 WTC, 250 GREENWICH ST., 40TH FL. NEW YORK, NY 10007-2157	NONE PC	TO EXPAND THE DEVELOPING PILOT PROGRAM, SCIENCE ALLIANCE LEADERSHIP TRAINING (SALT), TO TRAIN 90 DIVERSE, ADVANCED DOCTORAL STUDENTS TO LEAD INSTITUTIONAL CHANGE THROUGH ACQUISITION OF STRONG ENTREPRENEURIAL, INTERPERSONAL, AND TECHNICAL SKILLS	250,000.
NEW YORK PUBLIC RADIO 160 VARICK STREET NEW YORK, NY 10013	NONE PC	TO SUPPORT STORY-DRIVEN HEALTH CARE REPORTING AT WNYC, INCLUDING COVERAGE OF HEALTH CARE POLICY AND ECONOMICS, MEDICAL SCIENCE AND DISCOVERY, AND PERSONAL HEALTH	400,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10013	NONE PC	FOR AN ANNUAL FEATURE FILM PRODUCTION GRANT OVER THREE YEARS TO ENABLE FILM STUDENTS TO SHOOT A FIRST FEATURE FILM ABOUT SCIENCE AND TECHNOLOGY	334,596.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	TO FURTHER DEVELOP THE PH.D. EXCELLENCE INITIATIVE TO CHANGE THE FACE OF U.S. ECONOMICS DEPARTMENTS BY PREPARING A SELECT CADRE OF HIGH-ACHIEVING POST-BACCALAUREATE STUDENTS OF COLOR FOR THE RIGORS OF PH.D. STUDY IN THE FIELD	347,511.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280, MEYER HALL NEW YORK, NY 10003	NONE PC	TO STUDY HOW ATTENTION AND PERCEPTION AFFECT MICROECONOMIC BEHAVIORS AND MACROECONOMIC OUTCOMES	172,511.
NORTHEASTERN UNIVERSITY 360 HUNTINGTON AVE BOSTON, MA 02115	NONE PC	TO SUPPORT AN INTENSIVE, YEAR-LONG ACADEMIC LEADERSHIP PROGRAM FOR 40-50 MID-CAREER STEM FACULTY OF COLOR FROM A CONSORTIUM OF SEVEN BOSTON-AREA UNIVERSITIES	122,641.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO DEVELOP A PROGRAMMING TOOLKIT FOR THE CONSTRUCTION, EXECUTION, AND EVALUATION OF MACROECONOMIC SIMULATIONS WHERE HETEROGENEOUS AGENTS INTERACT BEHAVIORALLY	159,185.
OPEN KNOWLEDGE FDN. ST JOHN'S INNOV. CTR. CAMBRIDGE CAMBRIDGESHIRE UNITED KINGDOM CB4 0WS	NONE NC	TO SUPPORT ADOPTION AND USE OF A LIGHTWEIGHT DATA PACKAGING STANDARD IN ORDER TO REDUCE THE FRICTIONS EXPERIENCED IN THE ACQUISITION, SHARING, USE, AND REUSE OF RESEARCH DATA	499,749.
PARIS SCHOOL OF ECONOMICS 48 BD JOURDAN PARIS FRANCE 75014	NONE NC	TO IMPROVE THE QUALITY, QUANTITY, AND ACCESSIBILITY OF DATA IN THE WORLD WEALTH AND INCOME DATABASE (WID.WORLD) FOR RESEARCHERS OF ALL BACKGROUNDS AND FOR THE GENERAL PUBLIC	300,000.
PECAN STREET, INC. 3924 BERKMAN DRIVE AUSTIN, TX 78723	NONE PC	TO IMPROVE RESEARCHER ACCESS TO CRITICAL ENERGY DATA BY ENHANCING DATA RESOLUTION AND GRANULARITY, DIVERSIFYING DATA LINKAGES, AND EXPANDING GEOGRAPHIC SCOPE OF INSTRUMENTED HOMES	644,132.
PRIVATE CAPITAL RESEARCH INSTITUTE 114 WESTERN AVENUE BOSTON, MA 02134	NONE PF	TO SET UP AN ADMINISTRATIVE DATA RESEARCH FACILITY THAT MAKES DATA ABOUT THE PRIVATE CAPITAL INDUSTRY ACCESSIBLE TO RESEARCHERS	250,000.
PRX INCORPORATED 66 CHURCH STREET, 2ND FLR CAMBRIDGE, MA 02138	NONE PC	TO SUPPORT PRX IN DEVELOPING A NEW GENERATION OF SCIENCE SHOWS AND EXPANDING SCIENCE-THEMED AUDIO CONTENT FOR RADIO BROADCAST AND PODCAST	235,000.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PURDUE UNIVERSITY 100 S GRANT ST. WEST LAFAYETTE, IN 47907	NONE PC	TO RECRUIT, SUPPORT, AND GRADUATE INDIGENOUS STUDENTS EARNING GRADUATE DEGREES IN STEM DISCIPLINES THROUGH THE CONSORTIAL EFFORTS OF THE SLOAN INDIGENOUS GRADUATE PARTNERSHIP (SIGP)	113,754.
REBECCA SCHWARZLOSE 32 ABERDEEN PLACE SAINT LOUIS, MO 63105	NONE I	TO SUPPORT THE WRITING AND ILLUSTRATIONS FOR A BOOK ABOUT BRAIN MAPS TO BE PUBLISHED BY HOUGHTON MIFFLIN HARCOURT AND PROFILE BOOKS IN SPRING 2020	19,700.
RENSSELAER POLYTECHNIC INSTITUTE 110 8TH STREET TROY, NY 12180-3590	NONE PC	TO CONTINUE TO LEAD THE DATA SCIENCE AND MANAGEMENT DIMENSIONS OF THE DEEP CARBON OBSERVATORY AND CONTRIBUTE TO PROGRAM SYNTHESIS	83,903.
RENSSELAER POLYTECHNIC INSTITUTE 110 8TH STREET TROY, NY 12180-3590	NONE PC	TO SUPPORT THE RESEARCH DATA ALLIANCE REGIONAL U.S. ORGANIZATION	149,520.
RESEARCH FOUNDATION OF THE CUNY 230 WEST 41ST STREET NEW YORK, NY 10036	NONE PC	TO PROVIDE RENEWED SUPPORT TO ENCOURAGE AND SUPPORT PROMISING EARLY CAREER SCIENTISTS AT BOTH STUDENT AND FACULTY LEVELS THROUGH TWO AWARD PROGRAMS: A SUMMER UNDERGRADUATE RESEARCH PROGRAM AND A JUNIOR FACULTY RESEARCH AWARD PROGRAM	1,308,345.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO DEVELOP AND IMPLEMENT A TRANSPARENT, MULTIDISCIPLINARY RESEARCH INITIATIVE TO UPDATE COMPREHENSIVELY THE FRAMEWORK FOR SOCIAL COST OF CARBON DIOXIDE ESTIMATION REFLECTING THE BEST AVAILABLE SCIENCE AND ECONOMICS ANALYSIS	200,000.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO CONTINUE A POSTDOCTORAL RESEARCHER PROGRAM THAT WILL TRAIN THE NEXT GENERATION OF SCHOLARS IN ENERGY AND ENVIRONMENTAL ECONOMICS AND POLICY ANALYSIS	300,000.
RETRO REPORT 633 THIRD AVENUE, 16TH FLOOR NEW YORK, NY 10017	NONE POF	TO SUPPORT RESEARCH AND PRODUCTION OF A SHORT DIGITAL DOCUMENTARY AND ACCOMPANYING VIDEOS ON THE SCIENCE AND TECHNOLOGY BEHIND DRIVERLESS CARS	32,500.
ROCHESTER INSTITUTE OF TECHNOLOGY 79 LOMB MEMORIAL DRIVE, #09/3185 ROCHESTER, NY 14623	NONE PC	TO DEVELOP A MATHEMATICALLY-AWARE SEARCH ENGINE FOR POPULAR USE BY BOTH STUDENTS AND EXPERTS	100,000.
SOUTHERN CALIFORNIA INSTITUTE OF ARCHITECTURE 960 EAST 3RD STREET LOS ANGELES, CA 90013	NONE PC	TO SUPPORT ARCHITECTURE STUDENTS IN THE CREATION AND DISSEMINATION OF MULTI-MEDIA FICTIONAL NARRATIVES BASED ON THE LATEST RESEARCH ON AI AND AUTOMATION	90,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO DEVELOP AND APPLY A FRAMEWORK THAT CLASSIFIES, ASSESSES, AND COMPARES THE EXPLICIT AND IMPLICIT SUBSIDIES PROVIDED FOR DIFFERENT ENERGY SOURCES	300,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO MAKE RESEARCH ON MACRO-FINANCIAL MODELING MORE REPRODUCIBLE, COLLABORATIVE, AND COMPARATIVE	170,002.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO DEVELOP, TEST, AND POST NEW ALGORITHMS FOR ESTIMATING HETEROGENEOUS CAUSAL EFFECTS FROM LARGE-SCALE OBSERVATIONAL STUDIES AND FIELD EXPERIMENTS	205,854.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO SUPPORT A CONFERENCE SERIES IN ORDER TO FOSTER MORE RESEARCH AND POLICY DISCUSSION ABOUT CHANGING LABOR MARKET INSTITUTIONS TO ACCOMMODATE INCREASED LONGEVITY	233,072.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO STUDY THE BEHAVIORAL WELFARE EFFECTS OF ONLINE MEDIA CONSUMPTION	323,835.
THE GRADUATE CENTER FOUNDATION, INC. 365 FIFTH AVENUE, ROOM 8204 NEW YORK, NY 10016	NONE PC	TO PILOT A NEW, ANNUAL SCIENTIFIC BIOGRAPHY FELLOWSHIP AT THE LEON LEVY CENTER FOR BIOGRAPHY THAT WILL RESULT IN THREE NEW MAJOR BIOGRAPHIES OF SCIENTISTS AND/OR TECHNOLOGISTS	220,500.
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIVERSITY PARK, PA 16801	NONE GOV	TO SUPPORT A MULTIDISCIPLINARY RESEARCH PROJECT THAT EXAMINES THE IMPACT OF VARIABLE WIND GENERATION ON TRANSMISSION SYSTEMS	50,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO STUDY HOW THE CHOICE OF COMPUTATIONAL TOOLS SUCH AS PROGRAMMING LANGUAGES AND DATA-ANALYSIS ENVIRONMENTS IMPACTS THEIR USERS	249,297.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO COMPILE ACCURATE AND COMPREHENSIVE MICRODATA ABOUT HOUSEHOLD INCOME BY DEVELOPING NEW METHODS FOR COMBINING SURVEY RESULTS WITH ADMINISTRATIVE DATA	460,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO DEVELOP, DEBUG, AND DISSEMINATE MACROECONOMIC MODELS AND SOFTWARE THAT DO NOT ASSUME RATIONAL EXPECTATIONS	460,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO SUPPORT THE TRAINING OF EARLY CAREER SCHOLARS IN DEVELOPING A MORE DETAILED, GRANULAR APPROACH TO ESTIMATING DAMAGE FUNCTIONS THAT CAN CONTRIBUTE TO PROVIDING MORE TRANSPARENT ESTIMATES OF THE SOCIAL COST OF CARBON	300,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO STUDY THE COMPLEMENTARITY BETWEEN PREDICTION ALGORITHMS AND HUMAN DECISION-MAKING	122,671.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO SUPPORT THE WORK OF A COMMITTEE FOR THE STUDY OF DIGITAL PLATFORMS IN PREPARATION FOR AN INTERNATIONAL CONFERENCE ON ANTITRUST AND COMPETITION RESEARCH	20,000.
TRIBECA FILM INSTITUTE 32 AVENUE OF THE AMERICAS, 27TH FLR NEW YORK, NY 10013	NONE PC	TO BUILD ON THE TFI SLOAN FILMMAKER FUND'S SUCCESS IN DEVELOPING NEW SCIENCE FILMS TO PRODUCTION AND TO RAISE THE PROFILE OF SLOAN SCREENINGS, READINGS, AND PANELS AT THE TRIBECA FILM FESTIVAL	230,000.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
TRIBECA FILM INSTITUTE 32 AVENUE OF THE AMERICAS, 27TH FLR NEW YORK, NY 10013	NONE PC	TO SUPPORT THE SLOAN STUDENT GRAND JURY PRIZE FOR THE ANNUAL SELECTION AND DEVELOPMENT OF THE BEST-OF-THE-BEST SCREENPLAY FROM SLOAN'S SIX FILM SCHOOL PARTNERS AND TO PILOT A NEW SLOAN DISCOVERY AWARD SELECTED FROM SIX NEW NON-SLOAN FILM SCHOOL SCREENPLAYS WITH S&T THEMES	130,818.
UNIVERSITY OF ARIZONA 1401 E. UNIV. BLVD. TUCSON, AZ 85721	NONE GOV	TO STUDY GENDER DIFFERENCES IN THE CHOICE OF SUBFIELD SPECIALIZATION AMONG ACADEMIC ECONOMISTS	116,792.
UNIVERSITY OF ARIZONA 1401 E. UNIV. BLVD. TUCSON, AZ 85721	NONE GOV	TO SUPPORT THE PRODUCTION OF BEYOND THE EARTH'S EDGE: THE POETRY OF SPACEFLIGHT PUBLISHED BY THE UNIVERSITY OF ARIZONA PRESS IN 2019	19,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO EXPAND UNDERSTANDING OF THE ROLES THAT MICROORGANISMS PLAY IN SHAPING THE CHEMISTRY OF INDOOR ENVIRONMENTS	625,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO CREATE THE E2E EVIDENCE-BASED POLICY FELLOWSHIP PROGRAM THAT WILL BRING ENERGY EFFICIENCY PROGRAM EVALUATION RESEARCH CAPACITY TO STATE AGENCIES	445,090.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SHED NEW LIGHT ON THE PREVALENCE AND NATURE OF INDEPENDENT CONTRACTING (INCLUDING GIG WORK), WITH A FOCUS ON DOCUMENTING HOW BOTH PRE- AND POST-RETIREMENT OLDER WORKERS COMBINE INDEPENDENT CONTRACTING WITH OTHER SOURCES OF INCOME	100,591.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO STUDY THE ECONOMICS AND MAINTENANCE OF DIGITAL INFRASTRUCTURE BY INVESTIGATING THE INVISIBLE WORK THAT SUSTAINS WIDELY USED OPEN SOURCE PROJECTS	138,035.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SUPPORT A WORKSHOP ON IMPROVING THE PROCESS AND UTILITY OF ELICITING EXPERT FORECASTS OF SOCIAL SCIENCE RESEARCH RESULTS	20,000.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO QUANTIFY EXISTING AND PENDING DISTRIBUTION SYSTEM IMPACTS OF HIGH LEVELS OF PENETRATION OF DISTRIBUTED ENERGY RESOURCES AND LOADS	100,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	241,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO ANSWER QUESTIONS ABOUT HOW CALIFORNIA'S WORKFORCE SYSTEM SERVES OLDER WORKERS IN TERMS OF TRAINING AND ITS EFFECTIVENESS	131,942.
UNIVERSITY OF CALIFORNIA, RIVERSIDE 900 UNIV. AVE RIVERSIDE, CA 92521	NONE PC	TO SUPPORT CONTINUED DEVELOPMENT OF A BROWSER-BASED INTERACTIVE PLATFORM FOR EXPLORING -OMIC DATASETS	132,743.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	TO INVESTIGATE THE FUNDAMENTAL CHEMISTRY OF INDOOR SURFACES	249,760.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	TO ASSESS THE ECONOMIC, POLICY, INSTITUTIONAL, AND TECHNOLOGICAL BARRIERS AND OPPORTUNITIES ASSOCIATED WITH THE DEVELOPMENT AND DEPLOYMENT OF CARBON CAPTURE, UTILIZATION, AND SEQUESTRATION TECHNOLOGIES	75,000.
UNIVERSITY OF CANBERRA 11 KIRINARI ST, BRUCE AUSTRALIAN CAPITAL TERRITORY AUSTRALIA 02617	NONE NC	TO STUDY THE ECONOMICS AND MAINTENANCE OF DIGITAL INFRASTRUCTURE BY EXPLORING THE RELATIONSHIP BETWEEN WAGED AND VOLUNTEER LABOR IN OPEN SOURCE PROJECTS	135,373.
UNIVERSITY OF FLORIDA E454 CSE BLDG., PO BOX 116120 GAINESVILLE, FL 32611	NONE GOV	TO PILOT THE ACQUISITION, INGESTION, AND STANDARDIZATION PROCESSES NECESSARY TO COMPILE A NATIONAL VOTER REGISTRATION DATABASE FOR USE BY ACADEMICS AND OFFICIALS CONDUCTING NON-PARTISAN RESEARCH	124,998.
UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION 300 E MARKET ST, STE 300 LOUISVILLE, KY 40202	NONE SO III NFI	TO SUPPORT A BOOK ABOUT CHARLES WILLSON PEALE, CREATOR OF A NATURAL HISTORY/ART MUSEUM IN REVOLUTIONARY-ERA AMERICA, AND HOW THE MUSEUM INFLUENCED THE PUBLIC'S PERCEPTION OF SCIENCE AND ART	15,350.
UNIVERSITY OF MARYLAND, BALTIMORE COUNTY 1000 HILLTOP CIRCLE BALTIMORE, MD 21250	NONE GOV	TO	1,109,244.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF MARYLAND, COLLEGE PARK 3112 LEE BLDG., 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	TO INFORM THE DESIGN OF QUESTIONS TO LEARN ABOUT ALTERNATIVE WORK ARRANGEMENTS AMONG THE POPULATION AGE 50 PLUS AND PROVIDE NEW EVIDENCE ON THE ROLE OF THESE ARRANGEMENTS IN OLDER ADULTS' WORK LIVES	181,205.
UNIVERSITY OF MARYLAND, COLLEGE PARK 3112 LEE BLDG., 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	TO DEVELOP MEASUREMENT TOOLS FOR ASSESSING PUBLIC ATTITUDES TOWARD POTENTIAL PRIVACY PROTECTION TECHNIQUES	1,975.
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	TO SUPPORT RESEARCH ON THE ECONOMICS OF SCIENCE THAT USES NEW DATA FROM UNIVERSITIES ABOUT ACADEMIC FUNDING, SPENDING, AND TRAINING	188,418.
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	TO ESTABLISH A COLLABORATION OF 11 LARGE R-1 UNIVERSITIES THAT WILL ACCELERATE AND ENHANCE EFFORTS TO IMPROVE FOUNDATIONAL COURSES IN STEM THROUGH LEARNING ANALYTICS RESEARCH INTO, AND DEVELOPMENT OF, EQUITABLE AND INCLUSIVE STEM CURRICULA AND TEACHING PRACTICES	661,264.
UNIVERSITY OF MICHIGAN 930 N. UNIV. AVE ANN ARBOR, MI 48109	NONE PC	TO SUPPORT A MULTIDISCIPLINARY RESEARCH PROJECT THAT EXAMINES THE IMPACT OF STORAGE ADDITIONS ON TRANSMISSION SYSTEM FREQUENCY REGULATION	49,284.
UNIVERSITY OF MINNESOTA 207 PLEASANT ST. SE MINNEAPOLIS, MN 55455	NONE GOV	TO LAUNCH AND EXPAND A CROSS-INSTITUTIONAL STAFFING MODEL FOR CURATING DISCIPLINARY RESEARCH DATA	343,701.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF NEBRASKA, OMAHA 6001 DODGE ST, EPPLEY ADMIN BLDG. OMAHA, NE 68182	NONE PC	TO ADVANCE UNDERSTANDING OF OPEN SOURCE PROJECT HEALTH AND SUSTAINABILITY AND HOW PEOPLE AND ORGANIZATIONS PROSPER FROM OPEN SOURCE WORK	225,838.
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	TO EXAMINE THE ROLES OF DAMPNES, WATER SOLUBLE ORGANIC GASES, AND SURFACE CHEMISTRY ON INDOOR AIR COMPOSITION	250,000.
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	TO IMPROVE THE ABILITY TO CURATE AND VERIFY REPLICATION DATASETS WITHIN THE DATAVERSE DATA ARCHIVING PLATFORM BY INTEGRATING COMPUTATIONAL NOTEBOOKS AND SOFTWARE CONTAINERIZATION WITH DATA CURATION WORKFLOWS	294,640.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	TO DEVELOP, ANALYZE, AND EVALUATE DATA SCIENCE ALGORITHMS THAT PROVABLY PROTECT PRIVACY WHILE AVOIDING OVERFITTING AND FALSE DISCOVERY	100,000.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	TO ESTABLISH THE MACRO FINANCE SOCIETY AS A CATALYST, FORUM, AND DISSEMINATOR FOR RESEARCH BY MACRO AND FINANCIAL ECONOMISTS	132,457.
UNIVERSITY OF PITTSBURGH 3700 O'HARA STREET PITTSBURGH, PA 15261	NONE PC	TO DEVELOP SOFTWARE AND SERVICES FOR TRANSFORMING MATHEMATICAL RESULTS AS THEY APPEAR IN JOURNAL ARTICLE ABSTRACTS INTO FORMALLY STRUCTURED DATA THAT MACHINES CAN READ, PROCESS, SEARCH, CHECK, COMPUTE WITH, AND LEARN FROM AS LOGICAL STATEMENTS	504,758.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF PUERTO RICO, MAYAGUEZ CALL BOX 9000 MAYAGUEZ PUERTO RICO 00681	NONE GOV	TO ENHANCE THE RESEARCH SKILLS AND PRODUCTIVITY OF PH.D. CANDIDATES IN 8 STEM FIELDS AT UPR HURRICANE MARIA (2017)	198,065.
UNIVERSITY OF RHODE ISLAND 79 UPPER COLLEGE RD KINGSTON, RI 02881	NONE GOV	TO SUPPORT ENGAGEMENT: THE DEEP CARBON OBSERVATORY'S ROAD TO 2019	299,795.
UNIVERSITY OF SASKATCHEWAN 110 SCIENCE PLACE, SASKATOON SASKATCHEWAN CANADA S7N 5C9	NONE PC	TO EXAMINE PHOTON FLUXES, OXIDANTS, AND OXIDANT PRECURSORS IN INDOOR ENVIRONMENTS	472,707.
UNIVERSITY OF SOUTHERN CALIFORNIA 1050 CHILD WAY, RRI 201 (MCB) LOS ANGELES, CA 90089	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	277,103.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO INVESTIGATE THE ROLE OF PHOTOCHEMISTRY INDOORS	245,345.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO STUDY THE BEHAVIORAL WELFARE ECONOMICS OF HOW NUDGES AFFECT FINANCIAL DECISION MAKING	161,369.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF VERMONT 85 S PROSPECT ST BURLINGTON, VT 05405	NONE PC	TO LOWER BARRIERS TO LARGE-SCALE RESEARCH COMPUTING THROUGH THE DEVELOPMENT OF A DISTRIBUTED, VOLUNTEER, IN-BROWSER SYSTEM FOR ELASTIC COMPUTING RESOURCES	480,822.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	TO IMPROVE THE CAPACITY OF DATA INFRASTRUCTURES TO PROVIDE ACCESS TO AND SHARING OF SENSITIVE QUALITATIVE DATA	211,799.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	TO STUDY THE ECONOMICS AND MAINTENANCE OF DIGITAL INFRASTRUCTURE BY MEASURING THE UNDERPRODUCTION THAT RESULTS FROM MISALIGNMENT OF SUPPLY AND DEMAND OF OPEN SOURCE LABOR	139,993.
URBAN INSTITUTE 2100 M STREET, NW WASHINGTON, DC 20037	NONE PC	TO ASSESS AND BETTER UNDERSTAND THE LABOR SUPPLY, ECONOMIC AND HEALTH IMPACTS OF PAID FAMILY LEAVE POLICIES ON OLDER WORKING ADULTS WHO PROVIDE CARE TO ELDERLY FAMILY MEMBERS	176,162.
VERSE VIDEO EDUCATION, INC. 207 FISHER AVE BROOKLINE, MA 02445	NONE PC	TO SUPPORT THE PRODUCTION OF TWO SCIENCE-THEMED EPISODES OF POETRY IN AMERICA, A PUBLIC TELEVISION SERIES TO ENHANCE APPRECIATION OF POETRY	300,000.
VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY 1650 RESEARCH CENTER DR BLACKSBURG, VA 24061	NONE GOV	TO SUPPORT A WORKSHOP ON VIRUSES IN THE BUILT ENVIRONMENT	30,000.

ATTACHMENT 22

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
VIRGINIA POSTREL 1830 KELTON AVE. #2 LOS ANGELES, CA 90025	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF THE FABRIC OF CIVILIZATION TO BE PUBLISHED BY BASIC BOOKS IN 2020	20,000.
WASHINGTON STATE UNIVERSITY PO BOX 642814 PULLMAN, WA 99164-2814	NONE PC	TO SUPPORT A MULTIDISCIPLINARY RESEARCH PROJECT THAT EXAMINES THE IMPACT OF DEMAND RESPONSE PROGRAMS ON DISTRIBUTION SYSTEMS	49,785.
WGBH EDUCATIONAL FOUNDATION ONE GUEST STREET BOSTON, MA 02135	NONE PC	FOR A TWO-HOUR NOVA SPECIAL, BEYOND THE ELEMENTS, THAT INVESTIGATES THE SUBSTANCES COMPOSED OF THE ELEMENTS IN THE PERIODIC TABLE AND ACCOMPANYING EDUCATIONAL OUTREACH AND MARKETING	350,000.
WGBH EDUCATIONAL FOUNDATION ONE GUEST STREET BOSTON, MA 02135	NONE PC	TO SUPPORT THE PRODUCTION OF FOUR PRIME TIME AMERICAN EXPERIENCE DOCUMENTARY FILMS ABOUT THE ROLE OF SCIENCE AND TECHNOLOGY IN HISTORY	500,000.
WHITNEY MUSEUM OF AMERICAN ART 99 GANSEVOORT STREET NEW YORK, NY 10014	NONE PC	TO SUPPORT A MAJOR EXHIBITION ON THE INTERSECTION OF ART AND TECHNOLOGY FROM THE 1960S UNTIL TODAY	50,000.
WIKIMEDIA FOUNDATION 1 MONTGOMERY ST, STE 1600 SAN FRANCISCO, CA 94104	NONE PC	TO SUPPORT THREE YEARS OF WORKSHOPS, HACKATHONS, AND OUTREACH AT THE INTERSECTION OF ACADEMIC CITATION, BIBLIOGRAPHIC METADATA, AND WIKIPEDIA	133,333.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 22 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WNET 825 EIGHTH AVE, 14TH FLR NEW YORK, NY 10019	NONE PC	TO SUPPORT A TWO-HOUR PUBLIC TELEVISION BROADCAST OF A MULTIMEDIA LIVE STAGE PLAY ABOUT ALBERT EINSTEIN'S JOURNEY TO THE GENERAL THEORY OF RELATIVITY	350,000.
WNET 825 EIGHTH AVE, 14TH FLR NEW YORK, NY 10019	NONE PC	TO SUPPORT A THREE-PART TELEVISION SERIES BROADCAST AND ACCOMPANYING OUTREACH ON THE ENGINEERING AND TECHNOLOGY OF LAGUARDIA AIRPORT, WITH A FOCUS ON THE CURRENT NEW TERMINAL PROJECT	500,000.
YALE UNIVERSITY 300 GEORGE STREET, STE 901 NEW HAVEN, CT 06511	NONE PC	TO ACCELERATE SCIENTIFIC DISCOVERY BY USING STATISTICAL MACHINE LEARNING TO ENABLE ADVANCED SEARCH OF MATHEMATICAL LITERATURE	370,840.
YALE UNIVERSITY 300 GEORGE STREET, STE 901 NEW HAVEN, CT 06511	NONE PC	TO EXPAND EMULATION AND SOFTWARE PRESERVATION INFRASTRUCTURE IN ORDER TO ENSURE THAT SOFTWARE AND SOFTWARE-DEPENDENT DIGITAL CONTENT IS ACCESSIBLE BY FUTURE GENERATIONS	400,000.
TOTAL CONTRIBUTIONS APPROVED			<u>62,964,846.</u>

FORM 990-PF, PART XVI-A - ANALYSIS OF OTHER REVENUEATTACHMENT 23

<u>DESCRIPTION</u>	<u>BUSINESS CODE</u>	<u>AMOUNT</u>	<u>EXCLUSION CODE</u>	<u>AMOUNT</u>	<u>RELATED OR EXEMPT FUNCTION INCOME</u>
REFUNDED GRANTS			01	435,821.	
RECV'D WITH GRANT TRANSFERS			01	908,127.	
MISCELLANEOUS			01	4,010.	
TOTALS				<u>1,347,958.</u>	

**ALFRED P. SLOAN FOUNDATION
BY-LAWS**

Revised December [11], 2018

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**ALFRED P. SLOAN FOUNDATION
BY-LAWS**

ARTICLE I - MEMBERS

Section 1. Membership

Those individuals who are the members of the Board of Trustees (the “Board”) of the Alfred P. Sloan Foundation (the “Corporation”) from time to time shall be the members of the Corporation, who shall have all powers and authority reserved to “members” under the Delaware General Corporation Law, as amended from time to time. No separate meetings of the members are required or necessary.

ARTICLE II - TRUSTEES

Section 1. Powers and Duties

The Board shall manage and control the affairs and property of the Corporation. All corporate powers, except such as are otherwise provided for in the Certificate of Incorporation, these By-Laws, or the laws of the State of Delaware, shall be and hereby are vested in and shall be exercised by the Board. The Board shall have full power to adopt rules and regulations governing all actions which it takes, except as otherwise provided by the laws of the State of Delaware, and shall have full authority with respect to the distribution and payment of monies received by the Corporation from time to time; provided, however, that the fundamental and basic purposes and powers of the Corporation, and the limitations thereon, as expressed in the Certificate of Incorporation, shall not thereby be amended or changed. The Board may, except as otherwise provided by the laws of the State of Delaware, delegate to committees of its own number, or to officers of the Corporation, such powers as it may see fit.

Section 2. Number; Election; Term of Office

The number of Trustees shall be no fewer than three (3) and no more than seventeen (17). The number of Trustees may be changed by majority vote of the Trustees acting in their capacity as members, provided that no decrease in the number of Trustees may serve to diminish the term of any Trustee then in office. Trustees shall be elected by a majority vote of the Trustees acting in their capacity as members. Trustees’ terms shall start at the Annual Meeting of their election or, if elected between Annual Meetings, at the Annual Meeting next following their election.

Following with the adoption of these amended By-Laws, Trustees shall be elected to a four-year term and, in any event, each Trustee will continue in office until his or her successor has been elected and qualified, or until his or her earlier death, resignation, or removal. Each Trustee is subject to renomination and reelection at the end of each four-year term from which he or she may be eligible for reelection. Trustees shall not hold office for more than three (3) consecutive four-year terms or twelve (12) consecutive years; provided that any Trustee who is in the final five-year term of his or her service at the time of the adoption of these amended By-Laws may serve the remainder of his or her full five-year term. Notwithstanding the

limitations specified in this Section 2, (a) any Trustee who is nominated to serve as Chair of the Board may be elected for one additional four-year term in order to serve as Chair and (b) the term of any Trustee who is elected to serve as Chair of the Board shall be automatically extended for so long as such Trustee is serving as Chair.

Section 3. Trustee ex officio

The President, upon his or her election as President, shall be a Trustee ex officio. As such, he or she shall have all the rights and responsibilities afforded to the office of Trustee, except that years served as Trustee ex officio shall be disregarded for the purpose of determining Trustee term limits as described in Section 2 of this Article.

Section 4. Quorum and Board Action

A majority of the total number of Trustees shall constitute a quorum for the transaction of business at any meeting and, except as otherwise provided by law or these By-Laws, the act of a majority of the Trustees present at any meeting, at which a quorum is present, shall be the act of the Board.

Section 5. Place of Holding Meetings and Keeping Books

The Trustees may hold their meetings and keep the books of the Corporation outside of the State of Delaware, at any office or offices of the Corporation, or at any other place, as they may from time to time determine.

Section 6. Annual Meeting; Notice

Each newly elected Board may hold its first meeting for the purpose of organization and the transaction of business, if a quorum be present, immediately after its election, or at such time and place as may be fixed by consent in writing of all the Trustees. Thereafter there shall be an Annual Meeting of the Board at such time and place as shall be determined by resolution of the Board.

Section 7. Regular Meetings; Notice

Regular meetings may be held without notice at such times and places as shall be determined from time to time by resolution of the Board.

Section 8. Special Meetings; Notice

The Chair, President or Secretary may, and at the request of a majority of the Board shall, call a special meeting of the Board, on at least five (5) days' notice to each member of the Board given in person, by telephone, by mail to his or her last known post office address, or by electronic transmission if the Trustee has consented to receipt of electronic notice.

Section 9. Meeting Chair

The Chair of the Board shall, if present, preside at all meetings of the Board. In the absence of the Chair of the Board, the Vice Chair, if present, shall preside. In the absence of both the Chair of the Board and the Vice Chair, a member of the Board selected by a majority of the Trustees present shall preside.

Section 10. Vacancies

Any vacancy in the Board, whether arising from death, resignation, removal, an increase in the number of Trustees or any other cause, may be filled either by a majority vote of the remaining Trustees, though less than a quorum, or by the Trustees acting in their capacity as members.

Section 11. Resignation and Removal

Any Trustee may resign at any time by giving written notice of such resignation to the President or Secretary. Any Trustee may be removed without cause by a majority vote of the Trustees then in office.

Section 12. Participation by Telephone

The Corporation expects Trustees to attend meetings in person. However, any one or more members of the Board or of a committee thereof may participate in a meeting of the Board or committee by means of a conference telephone or similar communications equipment allowing all persons participating in the meeting to hear each other at the same time. Participation by such means will constitute presence in person at the meeting.

Section 13. Action Without a Meeting

Any action required or permitted to be taken by the Board or any committee thereof may be taken without a meeting, if all members of the Board or the committee consent in writing or by electronic transmission to the adoption of a resolution authorizing the action. The resolution and the written or electronically transmitted consents by the members of the Board or of such committee will be filed with the minutes of the proceedings of the Board or of such committee.

Section 14. Adjournment

At any meeting of the Board, whether or not a quorum is present, a majority of the Trustees present may adjourn the meeting to another time and place without further notice to any absent Trustees. At any such adjourned meeting at which a quorum is present, any business may be transacted which might have been transacted at the meeting as originally called.

Section 15. Compensation

Trustees may receive a stipend for their services as Trustees, provided that the stipend is reasonable in light of prevailing practices for comparable positions. The amount of the

stipend will be determined from time to time by the Board or such committee thereof as the Board may determine.

Section 16. Annual Financial Report

- (a) There shall be presented at the Annual Meeting of the Board a report, verified by the President and Secretary or certified by an independent or certified public accountant firm selected by the Board, showing the following:
 - (i) the assets and liabilities, including any trust funds, of the Corporation as of the end of the previous 12 month fiscal year;
 - (ii) the principal changes therein during such fiscal period;
 - (iii) the revenues of the Corporation during such fiscal period;
 - (iv) expenses and other disbursements of the Corporation during such fiscal period;
- (b) The Annual Financial Report shall be filed with the records of the Corporation.

ARTICLE III - OFFICERS

Section 1. Number and Manner of Election

The officers of the Corporation shall be a Chair of the Board, a Vice Chair, a President, a Treasurer and a Secretary, each to have such duties as are provided for in these By-Laws or as the Board may from time to time determine. Any person may hold two (2) or more offices at the same time.

Such officers, other than the Chair of the Board, shall be elected annually at the first meeting of the Board following the election of the Board, each to hold office until his or her successor shall have been duly elected and qualified, or until his or her earlier death, resignation or removal. Vacancies in any one or more of such offices may be filled by the Board at any time.

The Board may appoint such other officers or agents as it may from time to time determine necessary or desirable, each to hold office for such period and to perform such duties as the Board may determine.

The Board shall annually conduct a performance assessment of the officers and shall approve any changes in compensation following this assessment.

Section 2. The Chair of the Board

The Chair of the Board shall be elected from among the Trustees for a four-year term. The Chair shall, if present, preside at all meetings of the Board, the Executive Committee, and shall perform such other duties as the Board may from time to time determine. No employee of the Corporation may serve as Chair of the Board.

Section 3. The Vice Chair

The Vice Chair shall be elected from among the Trustees. The Vice Chair shall perform the duties of the Chair in the Chair's absence, and shall perform such other duties as the Board may from time to time determine.

Section 4. The President

The President shall be the chief executive officer and shall have general management and control over the business and affairs of the Corporation, subject to the direction of the Board. The President serves as a member of the Board, ex officio. The President shall have the power to appoint and discharge the employees and agents, other than officers, of the Corporation and fix their compensation, and may make and sign contracts and agreements in the name and on behalf of the Corporation, and, in general, shall perform such other duties as the Board may from time to time determine. The President's performance and compensation will be annually reviewed by the Board.

Section 5. Treasurer

The Treasurer shall perform all the duties customary to that office, and shall have the care and custody of the funds and securities of the Corporation, and shall have the general supervision of the books of account, and shall give such bonds for the faithful performance of his or her duties as the Board may determine.

Section 6. Secretary

The Secretary shall keep the minutes of the Board's meetings, and shall have the custody of the seal of the Corporation and affix the same to documents when authorized so to do. The Secretary shall coordinate Board orientation and ongoing Board education. He or she shall perform all of the other duties usual to that office.

Section 7. Resignation and Removal

Any officer may resign at any time by delivering a written resignation to the President or Secretary of the Corporation. The acceptance of any such resignation, unless required by the terms thereof, will not be necessary to make the same effective. Any officer elected or appointed by the Board or any member of any committee, may be removed at any time without cause by the majority vote of the Trustees at a meeting of the Board called for that purpose.

Section 8. Compensation

Officers may receive compensation for their services as such, provided the compensation is reasonable in light of prevailing practices for comparable positions. The amount of the compensation will be determined from time to time by the Board or such committee thereof as the Board may determine. Officers' compensation will be annually reviewed by the Board.

ARTICLE IV - COMMITTEES

Section 1. Standing Committees

The standing committees of the Board shall be the Executive Committee, Audit Committee, Investment Committee, and such other committees as the Board may designate by resolution adopted by a majority of the entire Board. Each committee shall consist of three (3) or more Trustees, except that the Investment Committee may contain members that are not Trustees. Standing committee members shall be appointed by the Chair of the Board.

Standing committees, to the extent provided in the Board resolution authorizing their establishment and not restricted by law, will have and exercise the authority to act on behalf of the Board in the management of the Corporation; provided, however, that no such committee will have power to (i) amend the Corporation's Articles of Incorporation, (ii) adopt an agreement of merger or consolidation, or (iii) amend the Corporation's By-Laws. Notwithstanding the provisions of any charter or rules of procedure, the activities of each committee shall be reflected in minutes maintained by the committee chair or his or her designee.

Section 2. Executive Committee

The Executive Committee shall consist of the Chair of the Board, the Vice Chair, President, and such other Trustees as are designated by the Board, except that there shall at all times be at least three (3) Trustees on the Committee. The Committee shall have and may exercise all of the powers and authority of the Board, except those duties delegated to other standing committees or prohibited by law. The Committee shall review and make recommendations to the Board concerning the election of Trustees and matters of Board policies and procedures, including compensation and governance. The Committee shall also perform such tasks as are from time to time assigned to it by the Board. The Committee shall notify the full Board of its actions within a reasonable time thereafter at a Board meeting. The Chair of the Committee shall be the Chair of the Board.

Section 3. Audit Committee

The Audit Committee shall consist of at least three (3) Trustees, each of whom must be an "independent director" as defined in Section 102(a)(21) of the New York Not-for-Profit Corporation Law and each of whom shall have a familiarity with finance and accounting practices. Neither the Chair nor the President may be a member of the Committee, but both may attend any Committee meeting. The Committee shall review the annual audit of the Corporation and recommend to the Board the hiring and termination of the Corporation's outside auditors and the establishment of the terms of the outside auditor's engagement. The Committee shall be responsible for reviewing and commenting on the adequacy of the Corporation's financial disclosure and internal controls. The Committee shall meet at least twice annually and shall present reports to the Executive Committee and the Board on the above matters.

Section 4. Investment Committee

The Investment Committee shall consist of at least three (3) Trustees and may also contain persons who are not Trustees. The Investment Committee shall be responsible for

overseeing the investment and reinvestment of the Corporation's assets and setting investment policies and guidelines regarding those assets. The Committee may (a) delegate to committees, officers, employees or agents, including investment advisors, counsel or managers, the authority to act in its place in the investment and reinvestment of assets; (b) contract with investment advisors, counsel or managers to so act; and (c) authorize the payment of compensation for investment advisory, counseling or management services. The Committee shall present periodic reports to the Board regarding the performance of the Corporation's investments. The Investment Committee shall have such other powers and duties as are determined by the Board.

Section 5. Advisory Committees

The Board may create, and appoint the members of, other committees not having and exercising the authority of the Board as may be deemed desirable to advise management and the Board. Each advisory committee shall exercise such powers and perform such specific duties as may be prescribed by the Board. The designation and appointment of any such committee and delegation thereto of authority will not operate to relieve the Board, or any individual Trustee, of any responsibility imposed upon it, him or her by law.

Section 6. Quorum and Committee Action

Unless otherwise provided in the resolution of the Board designating a committee, a majority of the entire committee will constitute a quorum. The act of a majority of the committee members present at a meeting at which a quorum is present will be the act of the committee.

Section 7. Replacement

In the absence or disqualification of a member of a committee, the committee member or members thereof present at any meeting and not disqualified from voting, whether or not constituting a quorum, may unanimously appoint another Trustee to act at the meeting in the place of any such absent or disqualified member.

Section 8. Chair

Except for those committees to which a chair is assigned by these By-Laws, a chair shall be appointed by the Chair of the Board.

Section 9. Rules

Each committee may adopt rules for its own governance not inconsistent with these By-Laws.

ARTICLE V - MISCELLANEOUS PROVISIONS

Section 1. Fiscal Year

The fiscal year of the Corporation shall end on the 31st day of December of each year.

Section 2. Waiver of Notice

Whenever notice is required to be given under any provision of law or of the Certificate of Incorporation or these By-Laws, a written waiver thereof, signed by the person entitled to notice, whether before or after the time stated therein, shall be deemed equivalent to notice. Attendance of a person at a meeting shall constitute a waiver of notice of such meeting, except for the express purpose of objecting, or as otherwise provided by law.

Section 3. Indemnification

Except as otherwise required by law,

- (a) the Corporation shall, to the fullest extent permitted by applicable law as then in effect, indemnify any person who was or is involved in any manner (including, without limitation, as a party or a witness) or who is threatened to be made so involved in any threatened, pending or completed claim, action, suit or proceeding, whether civil, criminal, administrative or investigative (including, without limitation, any action, suit or proceeding by or in the right of the Corporation to procure a judgment in its favor (a “derivative suit”)) by reason of the fact that he or she, his or her testator or intestate, is or was a trustee, officer, committee member, employee or agent of the Corporation, or is or was serving at the request of the Corporation as a director, trustee, officer, committee member, employee or agent of another corporation, partnership, joint venture, trust or other enterprise (including, without limitation, any employee benefit plan) against all expenses (including attorney’s fees, judgments, fines and amounts paid in settlement actually and reasonably incurred by him or her in connection with such action, suit or proceeding, subject to the proviso that in the case of a derivative suit any payment made pursuant to a court judgment must be authorized by the court). Such indemnification shall be a contract right and shall include the right to receive payment in advance of any expense incurred by such person in connection with such action, suit or proceeding, consistent with the provisions of applicable law as then in effect;
- (b) the termination of any action, suit or proceeding by judgment, order, settlement, conviction or upon a plea of nolo contendere or its equivalent shall not, of itself, create a presumption that the person did not act in good faith and in a manner which he reasonably believed to be in or not opposed to the best interests of the Corporation, and, with respect to any criminal action or proceeding, had reasonable cause to believe that his or her conduct was unlawful;
- (c) any indemnification under subparagraph (a) of this Section shall be made by the Corporation only as authorized in the specific case upon a determination that indemnification of the director, trustee, officer, committee member, employee or agent is proper under the circumstances because he has met the applicable law as then in effect. Such determination shall be made (1) by the Board by a majority vote of a quorum consisting of Trustees who were not parties to such action, suit or proceeding, or (2) if such a quorum is not obtainable, by the Board in

accordance with such determination by independent legal counsel selected by the Board. To the extent that any such person has been successful on the merits or otherwise in defense of any action, suit or proceeding referred to in subparagraph (a) or in defense of any claim, issue or matter therein, he or she shall be indemnified against expenses (including attorneys' fees) actually and reasonably incurred by him or her in connection therewith;

- (d) expenses incurred in defending a civil or criminal action, suit or proceeding shall be paid by the Corporation in advance of the final disposition of such action, suit or proceeding, upon receipt of an undertaking by or on behalf of the director, trustee, officer, committee member, employee or agent to repay such amount if shall ultimately be determined that he is not entitled to be indemnified by the Corporation as authorized by this Section;
- (e) the foregoing right of indemnification and the advancement of expenses shall not be deemed exclusive of any rights to which any such director, trustee, officer, committee member, employee or agent may be entitled by contract or otherwise or of any power of the Corporation with respect to other rights, and shall continue as to a person who has ceased to be such a director, trustee, officer, committee member, employee or agent, and shall inure to the benefit of the heirs, executors and administrators of such person. The provisions of this Section shall be separable and if any of its provisions shall be adjudged to be invalid or unenforceable such invalidity or unenforceability shall not affect any other provision thereof; and
- (f) the Corporation shall have power to purchase and maintain insurance on behalf of any person who is or was a director, trustee, officer, committee member, employee or agent of the Corporation, or is or was serving at the request of the Corporation as a director, trustee, officer, committee member, employee or agent of another corporation, partnership, joint venture, trust or other enterprise against any liability asserted against such person and incurred by such person in any such capacity, or arising out of such person's status as such.

Section 4. Banks

The Board will from time to time and as necessary select such banks or depositories as it will deem proper for the funds of the Corporation. The Treasurer, and any other person authorized by the Board from time to time, may sign checks, drafts or other orders for the payment of money on the Corporation's behalf.

Section 5. Contracts and Other Instruments

Except as otherwise provided by these By-Laws or authorized by the Board, no Trustee, officer, committee member, employee, agent, or other person will have power or authority to bind the Corporation by any contract, agreement, or instrument or to render it liable for any purpose or for any amount. The Board may authorize any officer or officers, in the name of or on behalf of the Corporation, to enter into any contract or to execute and to deliver any

instrument, or to sign checks, drafts, endorsements, notes or other evidences of indebtedness of the Corporation, and such authority may be general or confined to specific instances. The withdrawal of funds or securities of the Corporation from banks or trust companies or vaults therein will be made only on the signature or signatures of such one or more of the Trustees, officers, or employees of the Corporation as may be designated from time to time by the Board for such purpose.

Section 6. Loans

The Corporation may not borrow or loan funds or assets and may not issue negotiable paper unless authorized by the vote of the Board. When so authorized by the Board, any officer of the Corporation may effect loans and advances at any time for the Corporation from any bank, trust company or other institution, or from any firm, Corporation, or individual. Such authority may be general or confined to specific instances. No loans other than through the purchase of bonds, debentures or similar obligations of the type customarily sold in public offerings, or through ordinary deposit of funds in a bank, will be made by the Corporation to its Trustees or officers, or to any other corporation, firm, association or other entity in which one or more of its Trustees or officers are trustees or officers or hold a substantial interest, except a loan to an organization described in Section 501(c)(3) of the Internal Revenue Code of 1986, as amended.

Section 7. Grants

Procedures for approving grants, including delegation of authority to approve grants, will be set forth by the Board from time to time.

ARTICLE VI - AMENDMENTS

These By-Laws may be amended at any regular or special meeting of the Board, by a majority vote of the entire Board then in office.