

Department of the Treasury
Internal Revenue Service

or Section 4947(a)(1) Trust Treated as Private Foundation
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▶ Go to www.irs.gov/Form990PF for instructions and the latest information.

Open to Public Inspection

For calendar year **2017** or tax year beginning , **2017**, 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) 630 FIFTH AVENUE SUITE 2200	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"/>
G Check all that apply:		D 1. Foreign organizations, check here. <input type="checkbox"/> 2. Foreign organizations meeting the 85% test, check here and attach computation. <input type="checkbox"/>
<input type="checkbox"/> Initial return	<input type="checkbox"/> Initial return of a former public charity	E If private foundation status was terminated under section 507(b)(1)(A), check here. <input type="checkbox"/>
<input type="checkbox"/> Final return	<input type="checkbox"/> Amended return	F If the foundation is in a 60-month termination under section 507(b)(1)(B), check here. <input type="checkbox"/>
<input type="checkbox"/> Address change	<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) ▶ \$ 1,909,215,902.		
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)
Part I Analysis of Revenue and Expenses (The total of amounts in columns (b), (c), and (d) may not necessarily equal the amounts in column (a) (see instructions).)				
Revenue				
1 Contributions, gifts, grants, etc., received (attach schedule)				
2 Check <input type="checkbox"/> if the foundation is not required to attach Sch. B.				
3 Interest on savings and temporary cash investments		5,564,835.		
4 Dividends and interest from securities	7,230,016.	17,975,378.		
5a Gross rents				
b Net rental income or (loss)				
6a Net gain or (loss) from sale of assets not on line 10	94,320,461.			
b Gross sales price for all assets on line 6a 149,784,663.				
7 Capital gain net income (from Part IV, line 2)		52,756,131.		
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) ATCH 1	1,397,858.	2,617,084.		
12 Total. Add lines 1 through 11	102,948,335.	78,913,428.		
Operating and Administrative Expenses				
13 Compensation of officers, directors, trustees, etc.	4,312,380.	1,802,215.		2,216,961.
14 Other employee salaries and wages	4,654,505.	1,876,311.		3,185,235.
15 Pension plans, employee benefits	3,293,691.	521,804.		1,851,848.
16a Legal fees (attach schedule) ATCH 2	207,207.	115,641.		77,248.
b Accounting fees (attach schedule) ATCH 3	147,125.	27,920.		68,250.
c Other professional fees (attach schedule) [4]	3,027,702.	2,472,095.		530,636.
17 Interest				
18 Taxes (attach schedule) (see instructions) [5]	1,850,000.	778,684.		
19 Depreciation (attach schedule) and depletion				
20 Occupancy	1,848,933.	343,208.		1,502,258.
21 Travel, conferences, and meetings	790,795.	147,464.		643,331.
22 Printing and publications	37,401.	10,943.		26,458.
23 Other expenses (attach schedule) ATCH 6	1,615,319.	12,748,448.		1,447,766.
24 Total operating and administrative expenses. Add lines 13 through 23.	21,785,058.	20,844,733.		11,549,991.
25 Contributions, gifts, grants paid	98,469,341.			84,532,909.
26 Total expenses and disbursements. Add lines 24 and 25	120,254,399.	20,844,733.	0.	96,082,900.
27 Subtract line 26 from line 12:				
a Excess of revenue over expenses and disbursements	-17,306,064.			
b Net investment income (if negative, enter -0-)		58,068,695.		
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	1,263,525.	1,563,174.	1,563,174.
	2	Savings and temporary cash investments			
	3	Accounts receivable ▶ 46,433,963.			
		Less: allowance for doubtful accounts ▶		46,433,963.	46,433,963.
	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]	137,525,804.	24,080,791.	24,080,791.
	b	Investments - corporate stock (attach schedule) ATCH 8	113,525,052.	95,433,925.	95,433,925.
	c	Investments - corporate bonds (attach schedule) ATCH 9	90,722,502.	172,086,786.	172,086,786.
	11	Investments - land, buildings, and equipment: basis ▶ Less: accumulated depreciation (attach schedule) ▶			
12	Investments - mortgage loans				
13	Investments - other (attach schedule) ATCH 10	1,451,020,828.	1,569,617,263.	1,569,617,263.	
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)	1,794,057,711.	1,909,215,902.	1,909,215,902.	
Liabilities	17	Accounts payable and accrued expenses	23,747,340.	20,174,062.	
	18	Grants payable	54,487,194.	68,385,938.	
	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)	1,041,000.	1,573,500.	
23	Total liabilities (add lines 17 through 22)	79,275,534.	90,133,500.		
Net Assets or Fund Balances	Foundations that follow SFAS 117, check here ▶ <input checked="" type="checkbox"/> and complete lines 24 through 26, and lines 30 and 31.				
	24	Unrestricted	1,714,782,177.	1,819,082,402.	
	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)	1,714,782,177.	1,819,082,402.	
31	Total liabilities and net assets/fund balances (see instructions)	1,794,057,711.	1,909,215,902.		

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 1,714,782,177.
2	Enter amount from Part I, line 27a	2 -17,306,064.
3	Other increases not included in line 2 (itemize) ▶ ATCH 12	3 121,606,289.
4	Add lines 1, 2, and 3	4 1,819,082,402.
5	Decreases not included in line 2 (itemize) ▶	5
6	Total net assets or fund balances at end of year (line 4 minus line 5) - Part II, column (b), line 30	6 1,819,082,402.

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) FMV as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col. (i) over col. (j), if any	(l) Gains (Col. (h) gain minus col. (k), but not less than -0-) or Losses (from col. (h))			
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	52,756,131.		
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		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))
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
2012	84,434,973.	1,686,424,268.	0.050067
2	Total of line 1, column (d)		2 0.247985
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 0.049597
4	Enter the net value of noncharitable-use assets for 2017 from Part X, line 5		4 1,812,003,176.
5	Multiply line 4 by line 3.		5 89,869,922.
6	Enter 1% of net investment income (1% of Part I, line 27b).		6 580,687.
7	Add lines 5 and 6.		7 90,450,609.
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 96,082,900.

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

1a	Exempt operating foundations described in section 4940(d)(2), check here <input type="checkbox"/> and enter "N/A" on line 1. Date of ruling or determination letter: _____ (attach copy of letter if necessary - see instructions)		
b	Domestic foundations that meet the section 4940(e) requirements in Part V, check here <input checked="" type="checkbox"/> and enter 1% of Part I, line 27b.	1	580,687.
c	All other domestic foundations enter 2% of line 27b. Exempt foreign organizations enter 4% of Part I, line 12, col. (b).		
2	Tax under section 511 (domestic section 4947(a)(1) trusts and taxable foundations only; others, enter -0-)	2	
3	Add lines 1 and 2.	3	580,687.
4	Subtitle A (income) tax (domestic section 4947(a)(1) trusts and taxable foundations only; others, enter -0-)	4	0.
5	Tax based on investment income. Subtract line 4 from line 3. If zero or less, enter -0-	5	580,687.
6	Credits/Payments:		
a	2017 estimated tax payments and 2016 overpayment credited to 2017.	6a	3,793,652.
b	Exempt foreign organizations - tax withheld at source	6b	
c	Tax paid with application for extension of time to file (Form 8868).	6c	
d	Backup withholding erroneously withheld	6d	
7	Total credits and payments. Add lines 6a through 6d	7	3,793,652.
8	Enter any penalty for underpayment of estimated tax. Check here <input type="checkbox"/> if Form 2220 is attached	8	
9	Tax due. If the total of lines 5 and 8 is more than line 7, enter amount owed	9	
10	Overpayment. If line 7 is more than the total of lines 5 and 8, enter the amount overpaid	10	3,212,965.
11	Enter the amount of line 10 to be: Credited to 2018 estimated tax <input type="checkbox"/> 3,212,965. Refunded <input type="checkbox"/>	11	

Part VII-A Statements Regarding Activities

	Yes	No
1a During the tax year, did the foundation attempt to influence any national, state, or local legislation or did it participate or intervene in any political campaign?		X
b Did it spend more than \$100 during the year (either directly or indirectly) for political purposes? See the instructions for the definition If the answer is "Yes" to 1a or 1b , attach a detailed description of the activities and copies of any materials published or distributed by the foundation in connection with the activities.		X
c Did the foundation file Form 1120-POL for this year?		X
d Enter the amount (if any) of tax on political expenditures (section 4955) imposed during the year: (1) On the foundation. <input type="checkbox"/> \$ _____ (2) On foundation managers. <input type="checkbox"/> \$ _____		
e Enter the reimbursement (if any) paid by the foundation during the year for political expenditure tax imposed on foundation managers. <input type="checkbox"/> \$ _____		
2 Has the foundation engaged in any activities that have not previously been reported to the IRS? If "Yes," attach a detailed description of the activities.		X
3 Has the foundation made any changes, not previously reported to the IRS, in its governing instrument, articles of incorporation, or bylaws, or other similar instruments? If "Yes," attach a conformed copy of the changes		X
4a Did the foundation have unrelated business gross income of \$1,000 or more during the year?	X	
b If "Yes," has it filed a tax return on Form 990-T for this year?	X	
5 Was there a liquidation, termination, dissolution, or substantial contraction during the year? If "Yes," attach the statement required by <i>General Instruction T</i> .		X
6 Are the requirements of section 508(e) (relating to sections 4941 through 4945) satisfied either: • By language in the governing instrument, or • By state legislation that effectively amends the governing instrument so that no mandatory directions that conflict with the state law remain in the governing instrument?	X	
7 Did the foundation have at least \$5,000 in assets at any time during the year? If "Yes," complete Part II, col. (c), and Part XV	X	
8a Enter the states to which the foundation reports or with which it is registered. See instructions. <input type="checkbox"/> CA, DE, NY,		
b If the answer is "Yes" to line 7, has the foundation furnished a copy of Form 990-PF to the Attorney General (or designate) of each state as required by <i>General Instruction G</i> ? If "No," attach explanation	X	
9 Is the foundation claiming status as a private operating foundation within the meaning of section 4942(j)(3) or 4942(j)(5) for calendar year 2017 or the tax year beginning in 2017? See the instructions for Part XIV. If "Yes," complete Part XIV.		X
10 Did any persons become substantial contributors during the tax year? If "Yes," attach a schedule listing their names and addresses		X

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:		Yes	No
(1)	Carry on propaganda, or otherwise attempt to influence legislation (section 4945(e))?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
(2)	Influence the outcome of any specific public election (see section 4955); or to carry on, directly or indirectly, any voter registration drive?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
(3)	Provide a grant to an individual for travel, study, or other similar purposes?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
(4)	Provide a grant to an organization other than a charitable, etc., organization described in section 4945(d)(4)(A)? See instructions	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> 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?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> 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	X
	Organizations relying on a current notice regarding disaster assistance, check here	<input type="checkbox"/>		
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? . . . ATCH 14	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
	If "Yes," attach the statement required by Regulations section 53.4945-5(d).			
6a	Did the foundation, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
b	Did the foundation, during the year, pay premiums, directly or indirectly, on a personal benefit contract?		6b	X
	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?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
b	If "Yes," did the foundation receive any proceeds or have any net income attributable to the transaction?		7b	

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

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

(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
ATCH 15		4,037,380.	645,929.	0.

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

(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
ATCH 16		1,911,431.	393,995.	0.

Total number of other employees paid over \$50,000. 21

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 17		1,994,990.
Total number of others receiving over \$50,000 for professional services ▶		8

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	337,867.
2 SUPPORT PUBLIC CHARITABLE BOARD AND COMMITTEE SERVICE SEE GENERAL EXPLANATION FOR ADDITIONAL INFORMATION	253,888.
3 EDUCATIONAL CONFERENCES AND SEMINARS SEE GENERAL EXPLANATION FOR ADDITIONAL INFORMATION	180,703.
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	1,838,465,709.
b	Average of monthly cash balances	1b	1,131,424.
c	Fair market value of all other assets (see instructions).	1c	
d	Total (add lines 1a, b, and c)	1d	1,839,597,133.
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	1,839,597,133.
4	Cash deemed held for charitable activities. Enter 1 1/2% of line 3 (for greater amount, see instructions).	4	27,593,957.
5	Net value of noncharitable-use assets. Subtract line 4 from line 3. Enter here and on Part V, line 4	5	1,812,003,176.
6	Minimum investment return. Enter 5% of line 5	6	90,600,159.

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	90,600,159.
2a	Tax on investment income for 2017 from Part VI, line 5	2a	580,687.
b	Income tax for 2017. (This does not include the tax from Part VI.)	2b	
c	Add lines 2a and 2b	2c	580,687.
3	Distributable amount before adjustments. Subtract line 2c from line 1	3	90,019,472.
4	Recoveries of amounts treated as qualifying distributions	4	1,392,008.
5	Add lines 3 and 4.	5	91,411,480.
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	91,411,480.

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	96,082,900.
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	96,082,900.
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	580,687.
6	Adjusted qualifying distributions. Subtract line 5 from line 4	6	95,502,213.

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 2016	(c) 2016	(d) 2017
1 Distributable amount for 2017 from Part XI, line 7				91,411,480.
2 Undistributed income, if any, as of the end of 2017:				
a Enter amount for 2016 only.			27,333,129.	
b Total for prior years: 20 <u>15</u> , 20 <u>14</u> , 20 <u>13</u>				
3 Excess distributions carryover, if any, to 2017:				
a From 2012				
b From 2013				
c From 2014				
d From 2015				
e From 2016				
f Total of lines 3a through e	0.			
4 Qualifying distributions for 2017 from Part XII, line 4: ▶ \$ <u>96,082,900.</u>				
a Applied to 2016, but not more than line 2a			27,333,129.	
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 2017 distributable amount.				68,749,771.
e Remaining amount distributed out of corpus.				
5 Excess distributions carryover applied to 2017 (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 2016. Subtract line 4a from line 2a. Taxable amount - see instructions				
f Undistributed income for 2017. Subtract lines 4d and 5 from line 1. This amount must be distributed in 2018.				22,661,709.
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 2012 not applied on line 5 or line 7 (see instructions)				
9 Excess distributions carryover to 2018. Subtract lines 7 and 8 from line 6a	0.			
10 Analysis of line 9:				
a Excess from 2013				
b Excess from 2014				
c Excess from 2015				
d Excess from 2016				
e Excess from 2017				

Part XIV Private Operating Foundations (see instructions and Part VII-A, question 9) NOT APPLICABLE

1a If the foundation has received a ruling or determination letter that it is a private operating foundation, and the ruling is effective for 2017, 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)

Table with 5 columns: Tax year (a) 2017, (b) 2016, (c) 2015, (d) 2014, (e) Total. Rows include 2a-2e (Qualifying distributions) and 3a-3d (Alternative tests).

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).

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 18

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

ATCH 19

c Any submission deadlines:

ATCH 20

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

ATCH 21

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 <i>Paid during the year</i> ATCH 22				
Total ▶ 3a				84,532,909.
b <i>Approved for future payment</i> ATCH 23				
Total ▶ 3b				59,901,086.

Part XVI-A Analysis of Income-Producing Activities

Enter gross amounts unless otherwise indicated.

Table with 5 main columns: (a) Business code, (b) Amount, (c) Exclusion code, (d) Amount, (e) Related or exempt function income. Rows include: 1 Program service revenue; 2 Membership dues and assessments; 3 Interest on savings and temporary cash investments; 4 Dividends and interest from securities; 5 Net rental income or (loss) from real estate; 6 Net rental income or (loss) from personal property; 7 Other investment income; 8 Gain or (loss) from sales of assets other than inventory; 9 Net income or (loss) from special events; 10 Gross profit or (loss) from sales of inventory; 11 Other revenue; 12 Subtotal; 13 Total.

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 (other than by providing funds for such purposes). (See instructions.)

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.

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. 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

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

May the IRS discuss this return with the preparer shown below? See instructions. Yes No

Paid Preparer Use Only section including fields for Print/Type preparer's name (DANIEL ROMANO), Preparer's signature, Date, Firm's name (GRANT THORNTON LLP), Firm's EIN (36-6055558), Firm's address (757 THIRD AVENUE, 3RD FLOOR NEW YORK, NY), and 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)	
3,742,529.		SHORT TERM CAPITAL GAIN FROM LP'S PROPERTY TYPE: SECURITIES				P	VAR 3,742,529.	VAR
48257296.		LONG TERM CAPITAL GAIN FROM LP'S PROPERTY TYPE: SECURITIES				P	VAR 48257296.	VAR
418,078.		1231 GAIN FROM LP'S PROPERTY TYPE: SECURITIES				P	VAR 418,078.	VAR
338,228.		1250 GAIN FROM LP'S PROPERTY TYPE: SECURITIES				P	VAR 338,228.	VAR
TOTAL GAIN(LOSS)							<u>52756131.</u>	

FORM 990PF - GENERAL EXPLANATION ATTACHMENT

PUBLIC DISSEMINATION AND TECHNICAL ASSISTANCE OF AWARDS

PART IX-A, LINE 1

DURING 2017, 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 2017, 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 2017, 11 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 2017, THE FOUNDATION HELD 13 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 \$180,703.

FORM 990PF - GENERAL EXPLANATION ATTACHMENT

PART VI, LINE 6A

ORIGINAL AMOUNT OF OVERPAYMENT FROM 2017 RETURN:	2,646,126
ESTIMATED PAYMENTS MADE FOR 2017:	1,625,000
UNREQUESTED TAX REFUND RECEIVED IN 2018:	(477,474)
TOTAL AMOUNT OF CREDITS AVAILABLE FOR 2017:	3,793,652

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	467,561.	
RECV'D WITH GRANT TRANSFERS	924,447.	
MISCELLANEOUS	5,850.	
INCOME FROM LP INV NOT INCLUDED ABOVE		2,617,084.
TOTALS	<u>1,397,858.</u>	<u>2,617,084.</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>
PATTERSON BELKNAP	102,070.	19,138.		68,614.
SIMPSON THACHER	96,503.	96,503.		
CLIFTON BUDD & DEMARIA LLP	7,384.			7,384.
LEGAL FILINGS (NY CHARITABLE)	1,250.			1,250.
TOTALS	<u>207,207.</u>	<u>115,641.</u>		<u>77,248.</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	147,125.	27,920.		68,250.
TOTALS	<u>147,125.</u>	<u>27,920.</u>		<u>68,250.</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>
MELLON CUSTODY	231,095.	228,784.	
CLIFON FIXED INCOME	6,320.	6,257.	
DODGE AND COX	8.	7.	
PARAMETRIC	33,554.	33,218.	
TREASURY LADDER	5,643.	5,587.	
CLIFTON MCP HEDGE	46,516.	46,051.	
PROA PARTNERS	26,170.	25,908.	
RGM CAPITAL	485,855.	480,996.	
SILCHESTER	547,826.	542,348.	
LONE CASCADE	215,800.	213,642.	
PZENA	352,021.	348,501.	
ALLIANT INSURANCE SERVICES, IN	39,950.	39,551.	
BACKSTOP SOLUTIONS GROUP, LLC	60,754.	60,146.	
BLACKROCK FINANCIAL MANAGEMENT	156,095.	154,534.	
BLOOMBERG L. P.	66,427.	65,763.	
CHECKFUNDMANAGER LLC	43,210.	42,778.	
MERCER	20,623.	20,417.	
MSCI, INC.	6,900.	6,831.	
NEW YORK STOCK EXCHANGE, INC	884.	875.	
SULLIVAN, COTTER AND ASSOCIATE	1,000.	990.	
THE BURGISS GROUP	20,040.	19,840.	
CAMBRIDGE ASSOCIATES INC.	55,000.	54,450.	
PSG COMMUNICATIONS	179,560.		179,560.
SPENCER STUART	402,001.	74,621.	326,626.
TECHNICAL COMPENSATION ADVISOR	9,750.		9,750.
PPC PENSION	8,700.		8,700.
THE CRONER COMPANY	6,000.		6,000.
TOTALS	<u>3,027,702.</u>	<u>2,472,095.</u>	<u>530,636.</u>

ATTACHMENT 5FORM 990PF, PART I - TAXES

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>
PROVISION FOR EXCISE TAX FOREIGN TAXES	1,850,000.	778,684.
TOTALS	<u>1,850,000.</u>	<u>778,684.</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>
EMPLOYEE TRAINING AND DEVELOPM	30,116.	2,300.	27,816.
BOOKS AND SUBSCRIPTIONS	26,124.		26,124.
ELECTRICITY	19,815.	3,715.	16,100.
INSURANCE	81,145.	15,215.	65,930.
MAINTENANCE AND SUPPLIES	162,038.	30,382.	131,656.
FURNITURE AND EQUIPMENT	645.	121.	524.
COMPUTER SYSTEM SUPPORT	202,202.	37,913.	164,289.
TELEPHONE AND POSTAGE	115,325.	21,624.	93,701.
RECRUITING	1,127.	387.	740.
BANK CHARGES AND PAYROLL FEES	12,383.	2,322.	10,061.
EXECUTIVE SEARCH FEES	35,060.	6,574.	28,486.
MEMORIAL GIFT	25,000.		25,000.
LP INVESTMENT EXPENSES		12,580,895.	
PROGRAM SUPPORT EXPENSES	857,339.		857,339.
INVESTMENT COMMITTEE (NON-TRUS	47,000.	47,000.	
TOTALS	<u>1,615,319.</u>	<u>12,748,448.</u>	<u>1,447,766.</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	24,080,791.	24,080,791.
US OBLIGATIONS TOTAL	<u>24,080,791.</u>	<u>24,080,791.</u>

ATTACHMENT 8FORM 990PF, PART II - CORPORATE STOCK

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>	<u>ENDING FMV</u>
GLOBAL EQUITIES	95,433,925.	95,433,925.
TOTALS	<u>95,433,925.</u>	<u>95,433,925.</u>

ATTACHMENT 9FORM 990PF, PART II - CORPORATE BONDS

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>	<u>ENDING FMV</u>
FIXED INCOME	172,086,786.	172,086,786.
TOTALS	<u>172,086,786.</u>	<u>172,086,786.</u>

ATTACHMENT 10FORM 990PF, PART II - OTHER INVESTMENTS

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>	<u>ENDING FMV</u>
PRIVATE EQUITY	202,490,989.	202,490,989.
DOMESTIC EQUITY	335,936,569.	335,936,569.
INTERNATIONAL EQUITY	455,307,684.	455,307,684.
ABSOLUTE RETURN	346,247,209.	346,247,209.
REAL ESTATE	18,000,369.	18,000,369.
HYBRID	211,634,443.	211,634,443.
TOTALS	<u>1,569,617,263.</u>	<u>1,569,617,263.</u>

ATTACHMENT 11

FORM 990PF, PART II - OTHER LIABILITIES

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>
DEFERRED COMPENSATION	1,573,500.
TOTALS	<u>1,573,500.</u>

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

<u>DESCRIPTION</u>	<u>AMOUNT</u>
AMOUNTS NOT YET RECOGNIZED AS A COMPONENT OF NET PERIODIC BENEFIT COST	1,888,807.
UNREALIZED GAIN ON INVESTMENTS	119,717,482.
TOTAL	<u>121,606,289.</u>

ATTACHMENT 13FORM 990PF, PART VII-A, LINE 11A-TRANSFERS TO CONTROLLED ENTITY STATEMENT

TOTAL AMOUNT

7,534.

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: 7,534.
EXPLANATION OF TRANSFER TO CONTROLLED ENTITY:
GENERAL SUPPORT

ATTACHMENT 14FORM 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
 VERIFICATION DATE: 08/06/2018
 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, AND ACCESSIBILITY OF DATA IN THE WORLD WEALTH AND INCOME DATABASE.
 AMOUNT EXPENDED:
 ANY DIVERSION? NO
 DATES OF REPORTS:
 VERIFICATION DATE:
 RESULTS OF VERIFICATION:

GRANTEE'S NAME: UNIVERSITY COLLEGE LONDON
 GRANTEE'S ADDRESS: GOWER STREET
 CITY, STATE & ZIP: LONDON
 FOREIGN PROVINCE: CITY OF LONDON
 FOREIGN COUNTRY: UNITED KINGDOM WC1E 6BT
 GRANT DATE: 10/18/2017
 GRANT AMOUNT: 70,000.
 GRANT PURPOSE: TO CONDUCT A WORKSHOP AND PUBLISH A JOURNAL ISSUE ON CATASTROPHIC PERTURBATION TO EARTHS DEEP CARB
 AMOUNT EXPENDED:
 ANY DIVERSION? NO
 DATES OF REPORTS:
 VERIFICATION DATE:
 RESULTS OF VERIFICATION:

GRANTEE'S NAME: UNIVERSITY COLLEGE LONDON
 GRANTEE'S ADDRESS: GOWER STREET
 CITY, STATE & ZIP: LONDON
 FOREIGN PROVINCE: CITY OF LONDON
 FOREIGN COUNTRY: UNITED KINGDOM WC1E 6BT
 GRANT DATE: 12/02/2017

CONT'D ON NEXT PAGE

ATTACHMENT 14 (CONT'D)FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

GRANT AMOUNT: 20,000.
 GRANT PURPOSE: TO EXPAND THE CONTENT AND OUTREACH OF MICROECONOMIC INSIGHTS, AN ONLINE SOURCE FOR ACCESSIBLE SUM
 AMOUNT EXPENDED:
 ANY DIVERSION? NO
 DATES OF REPORTS:
 VERIFICATION DATE:
 RESULTS OF VERIFICATION:

GRANTEE'S NAME: UNIVERSITY COLLEGE LONDON
 GRANTEE'S ADDRESS: GOWER STREET
 CITY, STATE & ZIP: LONDON
 FOREIGN PROVINCE: CITY OF LONDON
 FOREIGN COUNTRY: UNITED KINGDOM WC1E 6BT
 GRANT DATE: 12/07/2015
 GRANT AMOUNT: 50,000.
 GRANT PURPOSE: TO LAUNCH A CAREFULLY CURATED AND EDITED BLOG THAT WILL MAKE INSIGHTS FROM MICROECONOMIC RESEARCH
 AMOUNT EXPENDED: 50,000.
 ANY DIVERSION? NO
 DATES OF REPORTS: 4/23/2018
 VERIFICATION DATE: 04/23/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSES 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 EST. AN OPEN SCHOLARLY CIT. DATABASE THAT FREELY & LEGALLY MAKES AVAIL. ACCURATE CITATION DATE
 AMOUNT EXPENDED: 47,092.
 ANY DIVERSION? NO
 DATES OF REPORTS: 2/1/2018
 VERIFICATION DATE: 02/01/2018
 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
 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 BILLION YEARS TO INCORP.
 AMOUNT EXPENDED:

CONT'D ON NEXT PAGE

ATTACHMENT 14 (CONT'D)FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

ANY DIVERSION? NO
 DATES OF REPORTS:
 VERIFICATION DATE:
 RESULTS OF VERIFICATION:

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: 275,151.

ANY DIVERSION? NO
 DATES OF REPORTS: 10/4/2017
 VERIFICATION DATE: 10/23/2017
 RESULTS OF VERIFICATION:

GRANT FUNDS FOR PURPOSE VERIFIED BY REPORTS.

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 & PILOT BASELINE DATA COLLECTION
 FOR EVAL. OF THE MOORE-SLOAN DATA SCIENCE ENV

AMOUNT EXPENDED: 124,966.

ANY DIVERSION? NO
 DATES OF REPORTS: 9/30/2016;8/3/2016
 VERIFICATION DATE: 02/01/2017
 RESULTS OF VERIFICATION:

GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

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 AND LEAD "TASK FORCE 2020" TO CONSIDER POSS.
 FUTURES FOR THE DEEP CARBON OBSERVATORY

AMOUNT EXPENDED: 172,752.

ANY DIVERSION? NO
 DATES OF REPORTS: 3/7/2016; 08/06/2016; 12/5/2016
 VERIFICATION DATE: 12/05/2016
 RESULTS OF VERIFICATION:

GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

CONT'D ON NEXT PAGE

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

GRANTEE'S NAME: OPEN KNOWLEDGE FOUNDATION
 GRANTEE'S ADDRESS: ST JOHN'S INNOVATION CENTER
 CITY, STATE & ZIP: CAMBRIDGE
 FOREIGN PROVINCE: CAMBRIDGESHIRE
 FOREIGN COUNTRY: UNITED KINGDOM CB4 0WS
 GRANT DATE: 10/13/2015
 GRANT AMOUNT: 690,575.
 GRANT PURPOSE: TO REDUCE FRICTION IN THE RESEARCH PROCESS THROUGH THE
 DEVEL. AND BROAD IMPLEM. OF A LIGHTWEIGHT S
 AMOUNT EXPENDED: 690,575.
 ANY DIVERSION? NO
 DATES OF REPORTS: 1/30/2017; 4/13/2018
 VERIFICATION DATE: 04/13/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

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 SCIENTIST
 OF THE DEEP CARBON OBSERVATORY.
 AMOUNT EXPENDED: 102,753.
 ANY DIVERSION? NO
 DATES OF REPORTS: 9/25/2017
 VERIFICATION DATE: 09/25/2017
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY OF CAMBRIDGE
 GRANTEE'S ADDRESS: DOWNING STREET
 CITY, STATE & ZIP: CAMBRIDGE
 FOREIGN COUNTRY: UNITED KINGDOM CB2 3ER
 GRANT DATE: 03/22/2016
 GRANT AMOUNT: 99,376.
 GRANT PURPOSE: TO PROVIDE STRATEGIC VISION AND LEADERSHIP OF THE DEEP
 CARBON OBSERVATORY SYNTHESIS GROUP FOR 2019
 AMOUNT EXPENDED: 67,451.
 ANY DIVERSION? NO
 DATES OF REPORTS: 3/16/2017; 4/3/2017
 VERIFICATION DATE: 06/13/2017
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSES VERIFIED BY REPORTS.

GRANTEE'S NAME: ST. EDMUNDS COLLEGE, UNIV. OF CAMBRIDGE
 GRANTEE'S ADDRESS: MOUNT PLEASANT
 CITY, STATE & ZIP: CAMBRIDGE
 FOREIGN COUNTRY: UNITED KINGDOM CB3 0BN

CONT'D ON NEXT PAGE

ATTACHMENT 14 (CONT'D)FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

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: 23,916.
 ANY DIVERSION? NO
 DATES OF REPORTS: 11/28/2017
 VERIFICATION DATE: 12/14/2017
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: U.S. ASSOCIATION FOR ENERGY ECONOMICS
 GRANTEE'S ADDRESS: 28790 CHAGRIN BLVD
 CITY, STATE & ZIP: CLEVELAND, OH 44122
 GRANT DATE: 09/28/2017
 GRANT AMOUNT: 10,000.
 GRANT PURPOSE: TO SUPP THE PARTICIPATION OF GRAD STUDENTS AT THE PHD
 DAY EVENT TO BE HELD AT THE 2017 NORTH AMERIC
 AMOUNT EXPENDED: 10,000.
 ANY DIVERSION? NO
 DATES OF REPORTS: 12/7/2017
 VERIFICATION DATE: 03/16/2018
 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 ADMINISTRATIVE DATA RESEARCH FACILITY THAT
 MAKES DATA ABOUT THE PRIATE CAPITAL INDUSTRY
 AMOUNT EXPENDED: 40,500.
 ANY DIVERSION? NO
 DATES OF REPORTS: 6/1/2018
 VERIFICATION DATE: 07/05/2018
 RESULTS OF VERIFICATION:
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: OLD DOMINION UNIVERSITY RESEARCH FOUNDAT
 GRANTEE'S ADDRESS: P.O. BOX 6369
 CITY, STATE & ZIP: NORFOLK, VA 23508-0369
 GRANT DATE: 09/15/2016
 GRANT AMOUNT: 55,000.
 GRANT PURPOSE: ALFRED P SLOAN RESEARCH FELLOWSHIP FOR DR. SARA MAXWELL
 IN OCEAN SCIENCES
 AMOUNT EXPENDED: 18,087.
 ANY DIVERSION? NO
 DATES OF REPORTS: 11/8/2017
 VERIFICATION DATE: 11/08/2017

CONT'D ON NEXT PAGE

ATTACHMENT 14 (CONT'D)

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

RESULTS OF VERIFICATION:

GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

FORM 990PF, PART VIII - LIST OF OFFICERS, DIRECTORS, AND TRUSTEESATTACHMENT 15

<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 JOSKOW 630 FIFTH AVENUE SUITE 2200 NEW YORK, NY 10111	TRUSTEE/PRESIDENT 40.00	1,042,625.	335,315.	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	489,920.	79,327.	0.
ELIZABETH HEWITT 630 FIFTH AVENUE SUITE 2200 NEW YORK, NY 10111	SVP/CHIEF INVESTMENT OFFICER 40.00	1,288,770.	88,978.	0.
DORON WEBER 630 FIFTH AVENUE SUITE 2200 NEW YORK, NY 10111	VP/PROGRAM DIRECTOR 40.00	417,345.	77,190.	0.
DANIEL GOROFF 630 FIFTH AVENUE SUITE 2200 NEW YORK, NY 10111	VP/PROGRAM DIRECTOR 40.00	411,720.	65,119.	0.

FORM 990PF, PART VIII - LIST OF OFFICERS, DIRECTORS, AND TRUSTEESATTACHMENT 15 (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	29,500.	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	27,500.	0.	0.
RICHARD BERNSTEIN 630 FIFTH AVENUE SUITE 2200 NEW YORK, NY 10111	TRUSTEE 3.00	37,000.	0.	0.
KEVIN BURKE 630 FIFTH AVENUE SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	29,000.	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 15 (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	29,500.	0.	0.
ROBERT LITTERMAN 630 FIFTH AVENUE SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	31,500.	0.	0.
SANDRA O MOOSE 630 FIFTH AVENUE SUITE 2200 NEW YORK, NY 10111	TRUSTEE/CHAIRMAN (THRU 06/17) 4.00	20,000.	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.

FORM 990PF, PART VIII - LIST OF OFFICERS, DIRECTORS, AND TRUSTEESATTACHMENT 15 (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>
MARTA TIENDA 630 FIFTH AVENUE SUITE 2200 NEW YORK, NY 10111	TRUSTEE/CHAIRMAN (AS OF 06/17) 4.00	35,000.	0.	0.
	GRAND TOTALS	<u>4,037,380.</u>	<u>645,929.</u>	<u>0.</u>

990PF, PART VIII - COMPENSATION OF THE FIVE HIGHEST PAID EMPLOYEESATTACHMENT 16

<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	321,582.	68,643.
JOSHUA M GREENBERG 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	PROGRAM DIRECTOR 40.00	318,880.	85,619.
MONICA LAI 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	SR. INVESTMENT DIR. 40.00	449,945.	85,653.
WILLIAM MASLOVSKY 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	SR. INVESTMENT DIR. 40.00	501,792.	85,589.
PAULA J OLSIEWSKI 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	PROGRAM DIRECTOR 40.00	319,232.	68,491.
	TOTAL COMPENSATION	<u>1,911,431.</u>	<u>393,995.</u>

990PF, PART VIII- COMPENSATION OF THE FIVE HIGHEST PAID PROFESSIONALSATTACHMENT 17

<u>NAME AND ADDRESS</u>	<u>TYPE OF SERVICE</u>	<u>COMPENSATION</u>
SILCHESTER INTERNATIONAL INVESTORS 780 3RD AVE #4201 NEW YORK, NY 10017	INVESTMENT MGMT FEES	547,826.
RGM CAPITAL 9010 STRADA STELL CT # 105 NAPLES, FL 34109	INVESTMENT MGMT FEES	485,855.
SPENCER STUART 277 PARK AVENUE, FL. 32 NEW YORK, NY 10172	EXECUTIVE SEARCH CON	378,193.
PZENA INVESTMENT MANAGEMENT LLC 320 PARK AVENUE, 8TH FLOOR NEW YORK, NY 10022	INVESTMENT MGMT FEES	352,021.
BNY MELLON CUSTODY FEES 240 GREENWICH STREET NEW YORK, NY 10286	INVESTMENT CUSTODY	231,095.
	TOTAL COMPENSATION	<u>1,994,990.</u>

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

PAUL L. JOSKOW - GRANTS
630 FIFTH AVENUE, SUITE 2200
NEW YORK, NY 10111
212-649-1649

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

990PF, PART XV - FORM AND CONTENTS OF SUBMITTED APPLICATIONS

PAUL L. JOSKOW - GRANTS

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 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.

LAUREN VON ECKARTSBERG-FELLOWSHIPS

CANDIDATES ARE NOMINATED BY DEPARTMENT HEADS OR OTHER SENIOR SCHOLARS. DIRECT APPLICATION 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 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 AS ONE COPY OF EACH OF NO MORE THAN TWO REPRESENTATIVE PUBLICATIONS SHOULD ACCOMPANY THE NOMINATION FORM AND LETTER.

990PF, PART XV - SUBMISSION DEADLINES

PAUL L. JOSKOW - GRANTS
NONE

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

990PF, PART XV - RESTRICTIONS OR LIMITATIONS ON AWARDS

PAUL L. JOSKOW - GRANTS

- 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

- 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 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>
ABT ASSOCIATES 55 WHEELER STREET CAMBRIDGE, MA 02138	NONE NC	TO COMPLETE AN EVALUATION OF THE MOORE-SLOAN DATA SCIENCE ENVIRONMENTS	558,389.
ACADEMY FOUNDATION 8949 WILSHIRE BLVD. BEVERLY HILLS, CA 90211	NONE PC	TO SUPPORT THE ACADEMY OF MOTIONS PICTURES ART AND SCIENCES AND ITS SCI-TECH COUNCIL IN A SCREENING AND PANEL DISCUSSION OF HIDDEN FIGURES, PRESENTED IN COLLABORATION WITH NASA	20,000.
ADAM BECKER 815 WALKER AVENUE OAKLAND, CA 94610	NONE I	TO RESEARCH AND WRITE A BOOK ON THE HISTORY OF THE FOUNDATIONS OF QUANTUM PHYSICS, WITH A PARTICULAR EMPHASIS ON THE CONTINUED DOMINANCE OF THE TROUBLED "COPENHAGEN INTERPRETATION"	50,000.
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	10,000.
AMERICAN ACADEMY OF ARTS AND SCIENCES NORTON'S WOODS, 136 IRVING STREET CAMBRIDGE, MA '02138	NONE PC	TO SUPPORT A TWO-YEAR STUDY AND ACCOMPANYING WORKSHOP ON BETTER UNDERSTANDING PUBLIC ATTITUDES TOWARD SCIENCE	40,000.
AMERICAN ACADEMY OF ARTS AND SCIENCES NORTON'S WOODS, 136 IRVING STREET CAMBRIDGE, MA '02138	NONE PC	TO BETTER UNDERSTAND THE BENEFITS AND CHALLENGES OF INTERNATIONAL SCIENCE PARTNERSHIPS, INCLUDING ENERGY AND ENVIRONMENTAL ISSUES, THROUGH A WORKSHOP AND WHITE PAPER	50,000.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 ASSOCIATES OF THE NATIONAL THEATRE 214 WEST 29TH STREET NEW YORK, NY 10001	NONE PC	TO COMMISSION A PLAY ABOUT HUNGARIAN PHYSICIAN IGNAZ SEMMELWEIS AND HIS BREAKTHROUGH DISCOVERY ON THE IMPORTANCE OF ANTISEPTIC PRACTICES IN MEDICINE, TO BE WRITTEN BY PLAYWRIGHT STEPHEN BROWN AND POTENTIALLY PRODUCED BY THE NATIONAL THEATRE	10,820.
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENC 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	250,000.
AMERICAN FILM INSTITUTE 2021 NORTH WESTERN AVENUE LOS ANGELES, CA 90027	NONE PC	TO ENCOURAGE THE NEXT GENERATION OF STORYTELLERS TO CREATE MORE REALISTIC AND DRAMATIC STORIES ABOUT SCIENCE AND TECHNOLOGY, AND TO CHALLENGE STEREOTYPES ABOUT SCIENTISTS AND ENGINEERS THROUGH FILM	90,000.
AMERICAN FRIENDS OF TOULOUSE SCHOOL OF ECONOMICS C/O SARATOGA, 116 W MAIN ST, STE 302 SALISBURY, MD 21801	NONE PC	TO SUPPORT TWO ANNUAL CONFERENCES ORGANIZED BY THE TOULOUSE SCHOOL OF ECONOMICS CENTRE ON ENERGY AND CLIMATE CHANGE	50,000.
AMERICAN INDIAN SCIENCE AND ENGINEERING SOCIETY 4263 MONTGOMERY BLVD., NE, STE 200 ALBUQUERQUE, NM 87109	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE UNDERGRADUATE RESEARCH COMPETITION AT THE 2017 AND 2018 AISES NATIONAL CONFERENCES TO HIGHLIGHT THE RESEARCH EFFORTS OF NATIVE YOUTH AND ESTABLISH CONNECTIONS WITH SIGP INSTITUTIONS	20,000.
AMERICAN MUSEUM OF THE MOVING IMAGE 36-01 35TH AVENUE	NONE	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	126,111.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
ASTORIA, NY 11106	PC		
AMERICAN SOCIETY FOR ENGINEERING EDUCATION 1818 N STREET, NW WASHINGTON, DC 20036	NONE PC	TO CONNECT CURRENT DOCTORAL ENGINEERING AND COMPUTER SCIENCE STUDENTS, POSTDOCTORAL FELLOWS, AND RECENT FACULTY TO SOURCES OF FEDERAL RESEARCH SUPPORT AND PRIVATE VENDORS OF RESEARCH TOOLS THROUGH AN INTERACTIVE RESEARCH SHOWCASE	20,000.
APPALACHIAN STATE UNIVERSITY P.O. BOX 32174 BOONE, NC 28608	NONE GOV	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	150,000.
ARIZONA STATE UNIVERSITY 300 E UNIVERSITY DRIVE 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.	209,959.
ARIZONA STATE UNIVERSITY 300 E UNIVERSITY DRIVE 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	155,000.
ARIZONA STATE UNIVERSITY 300 E UNIVERSITY DRIVE TEMPE, AZ 85287-7205	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ALEXANDER GREEN IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
ARIZONA STATE UNIVERSITY 300 E UNIVERSITY DRIVE TEMPE, AZ 85287-7205	NONE GOV	TO DEVELOPE PREDICTIVE MODEL SYSTEMS OF POLYMICROBIAL BIOFILM FORMATION AND SUSCEPTIBILITY TO CHEMICAL DISINFECTANT: A LONGITUDINAL STUDY WITH IMPLICATIONS FOR SPACEFLIGHT SYSTEMS INTEGRITY AND HEALTH RISKS	70,000.
ART OF PROBLEM SOLVING FOUNDATION 55 EXCHANGE PLACE, SUITE 603 NEW YORK, NY 10005	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE BEAM 6 PROGRAM	20,000.
ASPIRATION 2973 16TH STREET SAN FRANCISCO, CA 94103	NONE PC	TO SUPPORT PARTICIPATION IN A SUMMIT ON THE SUSTAINABILITY OF OPEN SOURCE SOFTWARE PROJECTS	20,000.
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	150,437.
ASTROPHYSICAL RESEARCH CONSORTIUM UNIVERSITY 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	4,750,000.
ASTROPHYSICAL RESEARCH CONSORTIUM UNIVERSITY 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	300,000.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
BAYLOR COLLEGE OF MEDICINE ONE BAYLOR PLAZA HOUSTON, TX 77030	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NUO LI IN NEUROSCIENCE	60,000.
BENEFITS DATA TRUST CENTRE SQUARE WEST, STE 2800 PHILADELPHIA, PA 19102	NONE PC	TO TEST NEOCLASSICAL AND BEHAVIORAL ACCOUNTS OF GOVERNMENT BENEFITS UPTAKE BY RUNNING A RANDOMIZED CONTROLLED EXPERIMENT ON FOOD STAMP PROGRAM ENROLLMENT PROCEDURES	30,515.
BIGELOW LABORATORY FOR OCEAN SCIENCES P.O. BOX 475 WEST BOOTHBAY HARBOR, ME 04575-0475	NONE PC	TO LEAD THE CREATION AND EDITING OF THE PRINCIPLE SUMMARY SCIENTIFIC VOLUME OF THE INITIAL DECADE OF THE DEEP CARBON OBSERVATORY	86,128.
BOSTON COLLEGE 140 COMMONWEALTH AVE CHESTNUT HILL, MA '02467	NONE PC	TO BUILD A ROBUST AND SUSTAINABLE MULTI-DISCIPLINARY RESEARCH NETWORK ON AGING AND WORK	62,630.
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	TO MEASURE THE WORK DISINCENTIVES FACING OLDER AMERICANS ARISING FROM AMERICA'S MAJOR FISCAL PROGRAMS AND PROVISIONS	154,982.
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	275,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANDREW LIAM FITZPATRICK IN PHYSICS	60,000.
BRANDEIS UNIVERSITY 415 SOUTH STREET 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	222,682.
BRANDEIS UNIVERSITY 415 SOUTH STREET WALTHAM, MA 02454-9110	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AMY LEE IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO MEASURE HOW EMPLOYERS' BENEFIT COSTS CHANGE WITH AGE OF EMPLOYEES	213,229.
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO PROMOTE INDEPENDENT, UNBIASED, AND NONPARTISAN ECONOMIC RESEARCH ON REGULATORY ECONOMICS	532,355.
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	200,000.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
BROWN UNIVERSITY 164 ANGELL STREET PROVIDENCE, RI 02912	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TIM KRASKA IN COMPUTER SCIENCE	60,000.
BUSINESS-HIGHER EDUCATION FORUM 2025 M STREET NW SUITE 800 WASHINGTON, DC 20036-0000	NONE PC	TO SUPPORT THE NEW YORK CITY (NYC) DATA SCIENCE TASK FORCE AS IT LEADS THE PLANNING, DESIGN, AND IMPLEMENTATION OF NEW PARTNERSHIPS, PATHWAYS, AND LEARNING OPPORTUNITIES IN DATA SCIENCE AND ANALYTICS AT THE UNDERGRADUATE LEVEL	250,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR XIE CHEN IN PHYSICS	60,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MANUEL ENDRES IN PHYSICS	60,000.
CARL ZIMMER 115 UNION STREET GUILFORD, CT '06437	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF A POPULAR BOOK ON THE NATURE OF HEREDITY, FROM ITS EARLY HISTORY TO THE LATEST SCIENTIFIC FINDINGS AND THEIR IMPLICATIONS FOR SOCIETY	50,000.
CARNEGIE INSTITUTION OF WASHINGTON 1530 P STREET, N.W. WASHINGTON, DC 20005	NONE PC	TO PROVIDE PENULTIMATE SUPPORT FOR THE SECRETARIAT OF THE DEEP CARBON OBSERVATORY	1,198,534.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 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	1,000,000.
CARNEGIE INSTITUTION OF WASHINGTON 1530 P STREET, N.W. WASHINGTON, DC 20005	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE 4-D WORKSHOP ON DEEP-TIME, DATA-DRIVEN DISCOVERY AND THE EVOLUTION OF EARTH	115,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO ENCOURAGE TOP FILM STUDENTS TO WRITE SCREENPLAYS ABOUT SCIENCE AND TECHNOLOGY	100,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO STUDY AND DEVELOP BEST PRACTICES FOR COMMUNITY CODE ENGAGEMENTS IN THE CONTEXT OF SCIENTIFIC SOFTWARE DEVELOPMENT	198,493.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO STUDY THE CURRENT AND FUTURE FACTORS CONTRIBUTING TO THE TECHNOLOGICAL VIABILITY, ECONOMIC IMPACT, AND ENVIRONMENTAL CONSEQUENCES OF FUEL CELL TECHNOLOGIES	87,546.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO SUPPORT A WORKSHOP ON COMMUNITY CODE ENGAGEMENTS IN SCIENTIFIC SOFTWARE	13,473.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
CATTICUS CORPORATION 2600 TENTH STREET BERKELEY, CA 94710	NONE PC	FOR PRODUCTION SUPPORT FOR A THREE-HOUR SERIES TRACING THE HISTORY OF SILICON VALLEY TO BE AIRED ON PBS PRIMETIME, ALONG WITH DEVELOPMENT OF A PUBLIC EDUCATION AND COMMUNITY OUTREACH CAMPAIGN	100,000.
CENTER FOR ECONOMIC AND POLICY RESEARCH 1611 CONNECTICUT AVENUE, NW WASHINGTON, DC 20009	NONE PC	TO ANALYZE THE CONTINGENT WORK SUPPLEMENTS (CWS) IN ORDER TO BETTER UNDERSTAND THE INCIDENCE OF NONSTANDARD WORK ARRANGEMENTS AMONG VARYING DEMOGRAPHIC GROUPS AND TO ASSESS CHANGES FOUND BETWEEN 1995-2017	15,000.
CENTER FOR STATE AND LOCAL GOVERNMENT EXCELLENCE 777 NORTH CAPITOL STREET NE, #500 WASHINGTON, DC 20002-4290	NONE PC	TO COLLECT, ANALYZE AND CODE DATA ON U.S. STATE PENSION STATUTES AND RELATED POLICIES THAT IMPACT A RETIREE'S ABILITY TO CONTINUE WORKING OR RETURN TO WORK	109,450.
CHARLES GRAEBER 223 BEDFORD AVE BROOKLYN, NY 11211	NONE I	TO SUPPORT THE WRITING OF A BOOK, THE BREAKTHROUGH, TO ENHANCE PUBLIC UNDERSTANDING OF THE SCIENCE BEHIND RECENT ADVANCES IN CANCER IMMUNOTHERAPY	50,000.
CITY LORE, INC. 56 E. FIRST STREET NEW YORK, NY 10003	NONE PC	TO SUPPORT THE THEATRICAL RELEASE, FESTIVAL RUN, AND PBS BROADCAST OF OLIVER SACKS: THE LIFE OF THE MIND, A DOCUMENTARY ABOUT THE RENOWNED NEUROLOGIST, CLINICIAN, AND WRITER	500,000.
CODE FOR AMERICA LABS INC. 85 2ND STREET, SUITE 710 SAN FRANCISCO, CA 94105	NONE PC	TO PARTIALLY SUPPORT THE 2017 CODE FOR AMERICA BRIGADE SUMMIT	20,000.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
CODE FOR SCIENCE AND SOCIETY 1221 SE 34TH AVE. PORTLAND, OR 97214	NONE PC	TO DEVELOP SOFTWARE FOR OPEN, REPRODUCIBLE, VERSION-CONTROLLED, AND TESTABLE SPREADSHEETS	394,000.
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	177,334.
COLORADO STATE UNIVERSITY 1874 CAMPUS DELIVERY FORT COLLINS, CO 80523-6015	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JAMIE NEILSON IN CHEMISTRY	60,000.
COLORADO STATE UNIVERSITY 1874 CAMPUS DELIVERY FORT COLLINS, CO 80523-6015	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR GARRET MIYAKE IN CHEMISTRY	60,000.
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.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 IMPROVE THE TRAINING OF ENERGY JOURNALISTS THROUGH AN INTRODUCTION TO HIGH QUALITY RESEARCH IN ENERGY ECONOMICS, GEOPOLITICS, AND INNOVATION	150,226.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO PROVIDE WORKING JOURNALISTS WITH COHERENT, ACCESSIBLE CURRENT RESEARCH ON WORKING LONGER AS A CENTRAL STRATEGY TOWARD MAKING POPULATION AGING INTO AN OPPORTUNITY RATHER THAN AN INDIVIDUAL AND SOCIETAL CRISIS	155,229.
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	199,989.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO STUDY THE GENERAL EQUILIBRIUM EFFECTS ON LABOR MARKETS DUE TO ROBOTS	125,000.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO PROVIDING CONTINUING SUPPORT FOR THE CENTER ON GLOBAL ENERGY POLICY'S EXTERNAL SPEAKER SERIES AND ROUNDTABLE DISCUSSIONS TO INCREASE OVERALL KNOWLEDGE AND UNDERSTANDING OF KEY ENERGY ISSUES AND TRENDS	50,000.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	TO SUPPORT A MEETING ON OFFLINE DATA TRANSFER NETWORKS	15,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 DEVELOPMENT, MAINTENANCE, AND DISSEMINATION OF STAN, A PROBABILISTIC PROGRAMMING LANGUAGE THAT SIMPLIFIES BAYESIAN MODELING AND DATA ANALYSIS	250,007.
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	154,994.
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	225,509.
COLUMBIA UNIVERSITY 116TH ST & BROADWAY NEW YORK, NY 10027	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SEBASTIAN WILL IN PHYSICS	60,000.
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	154,564.
COOLIDGE CORNER THEATRE FOUNDATION 290 HARVARD STREET BROOKLINE, MA '02446	NONE PC	TO SUPPORT THE EXPANSION OF COOLIDGE CORNER THEATRE'S SCIENCE ON SCREEN PROGRAM TO ART HOUSE CINEMAS NATIONWIDE	149,292.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
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	290,440.
CORNELL UNIVERSITY 373 PINE TREE ROAD 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	22,534.
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ILANA BRITO IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KYLE LANCASTER IN CHEMISTRY	60,000.
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR GUILLAUME LAMBERT IN PHYSICS	60,000.
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NILAY YAPICI IN NEUROSCIENCE	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
COUNCIL FOR ECONOMIC EDUCATION 122 EAST 42ND STREET 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	100,000.
COUNCIL ON FOREIGN RELATIONS 58 EAST 68TH STREET NEW YORK, NY 10065	NONE PC	TO ORGANIZE A STUDY GROUP AND ROUNDTABLE SERIES OF MEETINGS TO BETTER UNDERSTAND HOW THE UNITED STATES ENERGY SYSTEM WILL EVOLVE IN THE COMING DECADES, WITH A FOCUS ON EXPLORING THE IMPACT OF ADVANCED DIGITAL TECHNOLOGIES AND RELATED GEOPOLITICAL IMPLICATIONS	25,000.
COUNCIL ON FOREIGN RELATIONS 58 EAST 68TH STREET NEW YORK, NY 10065	NONE PC	TO WIND DOWN SUPPORT FOR CURRENT PHASE OF RESEARCH UNDERTAKEN BY THE PROGRAM ON ENERGY SECURITY AND CLIMATE CHANGE TO EXAMINE THE ECONOMIC, GEOPOLITICAL, AND TECHNOLOGICAL FACTORS ASSOCIATED WITH ADVANCING ENERGY INNOVATION	125,000.
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 INFORMATION RESOURCES 1707 L STREET NW 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	321,200.
COUNCIL ON LIBRARY AND INFORMATION RESOURCES 1707 L STREET NW 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	525,362.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 ROAD HANOVER, NH '03755	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR XIA ZHOU IN COMPUTER SCIENCE	60,000.
DIGITAL PUBLIC LIBRARY OF AMERICA, INC. P.O. BOX 426038 CAMBRIDGE, MA 02142	NONE PC	SUPPORT FOR THE DIGITAL PUBLIC LIBRARY OF AMERICA TO COMPLETE ITS NATIONWIDE SERVICE HUB NETWORK AND TO PILOT AN EBOOKS DISTRIBUTION PROGRAM	401,709.
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	650,000.
DREXEL UNIVERSITY 3141 CHESTNUT ST PHILADELPHIA, PA 19104	NONE PC	TO DISSEMINATE KEY RESULTS FROM THE CHEMISTRY OF INDOOR ENVIRONMENTS PROGRAM AND MICROBIOLOGY OF THE BUILT ENVIRONMENT PROGRAM AT INDOOR AIR 2018	84,797.
DUKE UNIVERSITY 124 SCIENCE 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	148,000.
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YIYANG GONG IN NEUROSCIENCE	60,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
EARTH SCIENCE INFORMATION PARTNERS 3980 BROADWAY BOULDER, CO 80304	NONE PC	TO SUPPORT A WORKSHOP TO DEVELOP DESIGN PATTERNS FOR SCHOLARLY COMMONS	89,015.
ENSEMBLE STUDIO THEATRE, INC. 549 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 UNDERTAKE EXPLORATORY PILOT RESEARCH PROJECTS EXAMINING THE ENVIRONMENTAL IMPACTS OF SHALE OIL AND GAS DEVELOPMENT THAT INCLUDE THE DEVELOPMENT OF IMPROVED WASTEWATER CHARACTERIZATION TECHNIQUES AND BIOLOGICAL TREATMENT METHODOLOGIES	200,000.
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	289,260.
FILM INDEPENDENT, INC. 5670 WILSHIRE BLVD., 9TH FLOOR LOS ANGELES, CA 90036	NONE PC	AS SUPPORT FOR THE TRIENNIAL SLOAN FILM SUMMIT: A THREE-DAY EVENT OF SCREENINGS, PANELS, STAGED READINGS, PROJECT UPDATES, NETWORKING OPPORTUNITIES, AND COMMUNITY BUILDING FOR SLOAN FILM GRANTEES	398,668.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
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	299,236.
FORCE11 4322 HORTENSIA STREET SAN DIEGO, CA 92103	NONE PC	TO PARTIALLY SUPPORT THE 2017 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.
FUND FOR PUBLIC HEALTH IN NEW YORK, INC. 22 CORTLANDT STREET, SUITE 1103 NEW YORK, NY 10007-3160	NONE PC	TO EVALUATE AND VALIDATE THE USE OF SOCIAL MEDIA FOR FOODBORNE OUTBREAK DETECTION	244,516.
FUND FOR THE CITY OF NEW YORK 121 AVENUE OF THE AMERICAS NEW YORK, NY 10013	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE SLOAN PUBLIC SERVICE AWARDS PROGRAM	250,000.
FUND FOR THE CITY OF NEW YORK 121 AVENUE OF THE AMERICAS NEW YORK, NY 10013	NONE PC	TO PROVIDE RENEWED SUPPORT FOR THE SLOAN AWARDS FOR EXCELLENCE IN TEACHING MATHEMATICS AND SCIENCE IN NEW YORK CITY PUBLIC HIGH SCHOOLS	285,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 NEW YORK, NY 10013	NONE PC	TO IMPROVE LOCAL DECISION-MAKING BY BUILDING TECHNICAL CAPACITY IN NYC BOROUGH PRESIDENT OFFICES AND COMMUNITY BOARDS	350,000.
FUND FOR THE CITY OF NEW YORK 121 AVENUE OF THE AMERICAS NEW YORK, NY 10013	NONE PC	TO BUILD TECHNICAL CAPACITY WITHIN NYC BOROUGH PRESIDENT OFFICES AND COMMUNITY BOARDS, AND TO DEVELOP A SUSTAINABLE MODEL FOR SUCH ACTIVITIES GOING FORWARD	124,893.
FUND FOR THE CITY OF NEW YORK 121 AVENUE OF THE AMERICAS NEW YORK, NY 10013	NONE PC	TO PROVIDE RENEWED SUPPORT FOR THE SLOAN AWARDS FOR EXCELLENCE IN TEACHING MATHEMATICS AND SCIENCE IN NEW YORK CITY PUBLIC HIGH SCHOOLS	285,000.
GEORGE MASON UNIVERSITY 4400 UNIVERSITY DRIVE FAIRFAX, VA 22030	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NATALIE BURLS IN OCEAN SCIENCES	60,000.
GEORGE WASHINGTON UNIVERSITY 2023 G ST. NW WASHINGTON, DC 20052	NONE PC	TO EXPLORE RESEARCH AREAS IN EXTREME BIOPHYSICS, CREATION OF NEW CARBON-BASED MATERIALS, AND IMPLICATIONS FOR ASTROPHYSICS AND MORE EXTREME CONDITIONS NOT CURRENTLY EXPLORED IN THE DCO	74,962.
GEORGETOWN UNIVERSITY 37TH & O STREET, NW WASHINGTON, DC 20057	NONE PC	TO PARTIALLY SUPPORT A MEETING ON THE CAPACITY OF ORGANIZATIONS AT THE LOCAL, STATE, NATIONAL AND INTERNATIONAL LEVELS TO UTILIZE DATA TO ADVANCE SCIENCE AND SOLVE SOCIAL PROBLEMS	7,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
GEORGIA INSTITUTE OF TECHNOLOGY 837 STATE STREET ATLANTA, GA 30332	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MARK DAVENPORT IN MATHEMATICS	60,000.
GEORGIA INSTITUTE OF TECHNOLOGY 837 STATE STREET ATLANTA, GA 30332	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DR. JAMES HAYS IN COMPUTER SCIENCE, ORIGINALLY AWARDED AT BROWN UNIVERSITY	50,000.
GORDON RESEARCH CONFERENCES GORDON RESEARCH CTR, 512 LIBERTY LANE WEST KINGSTON, RI 02892	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE INAUGURAL MICROBIOLOGY OF THE BUILT ENVIRONMENT GORDON RESEARCH CONFERENCE	74,750.
GORDON RESEARCH CONFERENCES GORDON RESEARCH CTR, 512 LIBERTY LANE WEST KINGSTON, RI 02892	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE 2017 ATMOSPHERIC CHEMISTRY GORDON RESEARCH CONFERENCE	20,000.
GREATER WASHINGTON EDUCATIONAL TELECOMMUNICATIONS 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 MEDIA, AND DIGITAL CONTENT AND AUDIENCES	400,000.
GREATER WASHINGTON EDUCATIONAL TELECOMMUNICATIONS 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	1,000,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
GUIDESTAR USA, INC. 4801 COURTHOUSE ST, STE 220 WILLIAMSBURG, VA 23188	NONE PC	TO SUPPORT WORK ON BEHALF OF THE NONPROFIT AND CHARITABLE COMMUNITY	10,000.
HARVARD MEDICAL SCHOOL 210 LONGWOOD AVE BOSTON, MA '02115	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANDREW KRUSE IN NEUROSCIENCE	60,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA '02138	NONE PC	TO ADVANCE KNOWLEDGE ON HOW HUMAN CAPITAL DEPRECIATING INNOVATION AFFECTS OLDER WORKERS AND ON THE ROLE OF TRAINING IN MODIFYING THOSE EFFECTS	141,606.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA '02138	NONE PC	TO DELIVER AN INTERDISCIPLINARY, POSTDOCTORAL TRAINING PROGRAM ON AGING AND WORK THAT ADDRESSES THE CHALLENGES OF AGING SOCIETIES AND LABOR FORCE PARTICIPATION	104,647.
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 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	400,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 ORGANIZE INTERDISCIPLINARY STUDIES OF THE SCIENTIFIC RESEARCH ENTERPRISE, INCLUDING HOW INPUTS PRODUCE THE OUTPUTS	80,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA '02138	NONE PC	TO DEVELOP PRACTICAL TECHNIQUES FOR ALLOWING RESEARCHERS TO EXTRACT AGGREGATE STATISTICS FROM LARGE DATASETS WHILE PROTECTING THE PRIVACY OF INFORMATION CONTAINED IN INDIVIDUAL ENTRIES (TRANSFERRED FROM STANFORD 2011-10-16)	472,643.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE MICROBIOLOGY OF THE BUILT ENVIRONMENT EXHIBIT AT THE HARVARD MUSEUM OF NATURAL HISTORY	30,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA '02138	NONE PC	TO IDENTIFY PRINCIPLES FOR CONDUCTING RETROSPECTIVE REVIEW OF ENERGY AND ENVIRONMENTAL REGULATIONS	20,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA '02138	NONE PC	TO SUPPORT THE THIRD ANNUAL CONFERENCE ON BIG DATA AT THE HARVARD CENTER FOR MATHEMATICAL SCIENCES AND APPLICATIONS	20,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA '02138	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JELANI NELSON IN COMPUTER SCIENCE	60,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AMANDA PALLAIS IN ECONOMICS	60,000.
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	273,082.
HAVERFORD COLLEGE 370 W LANCASTER AVE HAVERFORD, PA 19041	NONE PC	TO STUDY CAUSES AND CONSEQUENCES OF OCCUPATIONAL EXIT BY SCIENTISTS AND ENGINEERS	63,112.
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	100,000.
HOPEWELL FUND 1201 CONNECTICUT AVE NW 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	81,662.
INDIANA UNIVERSITY 150 SOUTH WOODLAWN BLOOMINGTON, IN 47405	NONE PC	TO CONDUCT PUBLIC PERCEPTION SURVEYS AND PUBLIC FINANCE RESEARCH ON THE SITING OF ENERGY INFRASTRUCTURE	109,900.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
INDIANA UNIVERSITY 150 SOUTH WOODLAWN BLOOMINGTON, IN 47405	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YAN YU IN CHEMISTRY	60,000.
INDUSTRIAL ORGANIZATIONAL SOCIETY, INC. NORTHEASTERN UNIVERSITY, DEPT OF ECONOMICS BOSTON, MA 02115-5000	NONE PC	TO SUPPORT GRADUATE STUDENT PRESENTATIONS AT THE INTERNATIONAL INDUSTRIAL ORGANIZATION CONFERENCE	20,000.
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	400,000.
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.
INTERNATIONAL ENERGY PROGRAM EVALUATION CONFERENCE 85 MONOMESSAT WAY CHATHAM, MA '02633	NONE PC	TO CONTINUE SUPPORT IN ACCELERATING AND ADVANCING THE PROFESSION OF ENERGY EVALUATION BY ENABLING GRADUATE STUDENTS TO ATTEND THE 2018 IEPPEC CONFERENCE	17,750.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
INTERNATIONAL ENERGY PROGRAM EVALUATION CONFERENCE 85 MONOMESSAT WAY CHATHAM, MA '02633	NONE PC	TO CONTINUE SUPPORT IN ACCELERATING AND ADVANCING THE PROFESSION OF ENERGY EVALUATION BY ENABLING GRADUATE STUDENTS TO ATTEND THE 2017 IEPEC CONFERENCE AT NO CHARGE	20,000.
ITHAKA HARBORS INC 2 RECTOR STREET, 18TH FL NEW YORK, NY 10065-8112	NONE PC	TO SUPPORT THE PILOT CONVENING OF THE WILLIAM G. BOWEN COLLOQUIUM	20,000.
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.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR REBEKKA KLAUSEN IN CHEMISTRY	60,000.
JON GERTNER 76 TUSCAN ROAD MAPLEWOOD, NJ 07040	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF A BOOK, THE ICE AT THE END OF THE WORLD, ON THE SCIENTIFIC AND TECHNOLOGICAL HISTORY OF GREENLAND WITH A SPECIAL FOCUS ON CLIMATE CHANGE	42,000.
JONATHAN WALDMAN 750 17TH STREET BOULDER, CO 80302	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF A GENERAL-INTEREST NONFICTION BOOK ABOUT A SMALL COMPANY'S EFFORTS TO BUILD THE WORLD'S FIRST COMMERCIALY-VIABLE BRICKLAYING ROBOT, CALLED SAM	50,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
JULIA COMPUTING 20 GARLAND RD NEWTON, MA 02459	NONE NC	TO SUPPORT THE CONTINUED DEVELOPMENT OF THE JULIA PROGRAMMING LANGUAGE	506,403.
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.
LOUISIANA STATE UNIVERSITY 156 THOMAS BOYD HALL BATON ROUGE, LA 70803	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MORGAN KELLY IN OCEAN SCIENCES	60,000.
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	200,000.
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	550,000.
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.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 CONTINUE CORE SUPPORT FOR A RESEARCH NETWORK THAT PROMOTES THE RIGOROUS EMPIRICAL STUDY OF ECONOMIC ISSUES IN NORTH AMERICA	1,000,000.
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 SUPPORT THE GROWTH OF NINE NEW SCIENCE FESTIVAL INITIATIVES IN COMMUNITIES ACROSS THE COUNTRY WITH SMALL RESOURCE BASES	174,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	AS A GIFT TO MIT TO ESTABLISH A FUND IN HONOR OF PROFESSOR PAUL JOSKOW TO RECOGNIZE HIS TEN YEARS OF EXEMPLARY SERVICE AS PRESIDENT OF THE ALFRED P. SLOAN FOUNDATION	500,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO CONDUCT RESEARCH ON THE PRIVATE AND SOCIAL RETURNS TO INNOVATION	234,269.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO DEVELOP AN INITIAL FRAMEWORK AND SET OF MODELING TOOLS TO EXAMINE NOVEL ENERGY STORAGE TECHNOLOGIES	125,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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	290,000.
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	185,073.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA '02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KERSTIN PEREZ IN PHYSICS	60,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA '02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AARON PIXTON IN MATHEMATICS	60,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA '02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ALEXANDER WOLITZKY IN ECONOMICS	60,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA '02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR VIRGINIA WILLIAMS IN COMPUTER SCIENCE	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NIKTA FAKHRI IN PHYSICS	60,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA '02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MOHAMMAD ALIZADEH IN COMPUTER SCIENCE	60,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA '02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SEMYON DYATLOV IN MATHEMATICS	60,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA '02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CAROLINE UHLER IN MATHEMATICS	60,000.
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	151,500.
MATHEMATICAL SCIENCES RESEARCH INSTITUTE 17 GAUSS WAY BERKELEY, CA 94720-5070	NONE PC	TO SUPPORT A SLOAN FILM ROOM AND RELATED MATH AND ARTS PROGRAMMING AT THE NATIONAL MATH FESTIVAL	100,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
MCGILL UNIVERSITY 3600 RUE UNIVERSITY MONTREAL QC CANADA H3A 2T8	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MAKSYM RADZIWIŁL IN MATHEMATICS	60,000.
MEMORIAL UNIVERSITY OF NEWFOUNDLAND 230 ELIZABETH AVE ST. JOHN'S NL CANADA A1C 5S7	NONE PC	TO SHARE THE KEY RESULTS FROM THE CHEMISTRY OF INDOOR ENVIRONMENTS PROGRAM AND THE MICROBIOLOGY OF THE BUILT ENVIRONMENT PROGRAM	49,800.
MICHIGAN STATE UNIVERSITY 619 RED CEDAR ROAD EAST LANSING, MI 48824	NONE GOV	TO ADVANCE OUR UNDERSTANDING OF HOW ESTABLISHMENTS RESPOND TO CHANGES IN PENSIONABLE AGES IMPLEMENTED THROUGH PUBLIC PENSION REFORM AND PHASED OVER A 13-YEAR PERIOD	248,631.
MILLER-MCCUNE CENTER FOR RESEARCH MEDIA AND PUBLIC 801 GARDEN STREET, SUITE 101 SANTA BARBARA, CA 93101	NONE POF	TO SUPPORT ACADEMIC AND NONPROFIT PARTICIPATION IN A WORKSHOP THAT WILL ALSO BRING TOGETHER INDUSTRY AND POLICY LEADERS TO DISCUSS COMPUTATIONAL SOCIAL SCIENCE	50,000.
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	200,000.
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	100,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 PROVIDE FINAL SUPPORT TO THE ROUNDTABLE ON UNCONVENTIONAL HYDROCARBON DEVELOPMENT	20,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO SUPPORT THE THIRD IN A SERIES OF SACKLER COLLOQUIA ON THE SCIENCE OF SCIENCE COMMUNICATION, TO BE HELD NOVEMBER 16 AND 17, 2017	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.
NATL ACTION COUNCIL FOR MINORITIES IN ENGINEERING ONE NORTH BROADWAY WHITE PLAINS, NY 10601	NONE PC	TO COVER EXPECTED OBLIGATIONS TO BE INCURRED BY NACME TO PROVIDE PHASE 1 TRANSITIONAL SUPPORT FOR THE SLOAN MPHD PROGRAM AS CAMPUS PROGRAMS COMPETE FOR NEW MULTI-YEAR GRANTS FOR UNIVERSITY CENTERS OF EXEMPLARY MENTORING OR PROGRAMS OF EXEMPLARY MENTORING	300,000.
NATL ACTION COUNCIL FOR MINORITIES IN ENGINEERING ONE NORTH BROADWAY WHITE PLAINS, NY 10601	NONE PC	TO PROVIDE \$2 MILLION FOR THREE AWARDS TO NEW UNIVERSITY CENTERS OF EXEMPLARY MENTORING (UCEMS) IN THE SLOAN MINORITY PH.D. PROGRAM.	300,000.
NATL ACTION COUNCIL FOR MINORITIES IN ENGINEERING ONE NORTH BROADWAY 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.	800,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
NATL ACTION COUNCIL FOR MINORITIES IN ENGINEERING ONE NORTH BROADWAY WHITE PLAINS, NY 10601	NONE PC	TO MANAGE EFFECTIVELY AND EFFICIENTLY THE FOUNDATION'S PORTFOLIO OF GRADUATE SCHOLARSHIP PROGRAMS	250,000.
NATL ACTION COUNCIL FOR MINORITIES IN ENGINEERING ONE NORTH BROADWAY 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.	50,000.
NATL ACTION COUNCIL FOR MINORITIES IN ENGINEERING ONE NORTH BROADWAY WHITE PLAINS, NY 10601	NONE PC	TO PROVIDE EMERGENCY FUNDING FOR UP TO 35 CONTINUING SLOAN SCHOLARS AT THE UNIVERSITY OF PUERTO RICO AT THE MAYAGUEZ AND RIO PIEDRAS CAMPUSES TO ENABLE PROGRESS TOWARD THEIR DOCTORAL DEGREES FOLLOWING HURRICANE MARIA	120,750.
NATL ACTION COUNCIL FOR MINORITIES IN ENGINEERING ONE NORTH BROADWAY 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.
NATL ACTION COUNCIL FOR MINORITIES IN ENGINEERING ONE NORTH BROADWAY 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	400,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO ADVANCE KNOWLEDGE ABOUT THE ECONOMIC EFFICIENCY AND DISTRIBUTIONAL EQUITY TRADEOFFS ASSOCIATED WITH ENERGY POLICY INTERVENTIONS IN THE UNITED STATES	79,100.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 ADVANCE UNDERSTANDING OF HOUSEHOLD FINANCIAL BEHAVIOR AND POLICY	200,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO CONDUCT A RANDOMIZED CONTROLLED TRIAL TO STUDY HOW PEOPLE RESPOND TO AND VALUE INFORMATION ABOUT THEIR DRIVING HABITS	99,550.
NATIONAL BUREAU OF ECONOMIC RESEARCH, 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	262,700.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO SUPPORT THE NBER SUMMER INSTITUTE	263,580.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO UNDERTAKE ECONOMIC RESEARCH ON ENERGY INFRASTRUCTURE, WITH A FOCUS ON HYDROCARBON TRANSPORT AND LOCAL ENERGY DISTRIBUTION	113,800.
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	392,100.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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	121,325.
NATIONAL BUREAU OF ECONOMIC RESEARCH, 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	86,250.
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	124,170.
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	125,000.
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	340,000.
NATIONAL OPINION RESEARCH CENTER 1155 EAST 60TH STREET CHICAGO, IL 60637	NONE PC	TO INCREASE THE AMOUNT AND QUALITY OF NEWS COVERAGE OF THE ECONOMICS OF WORKING LONGER, BY TRAINING FELLOWS IN ECONOMICS AND DATA-DRIVEN JOURNALISM AND BY SUPPORTING THE DEVELOPMENT OF AN ORIGINAL SURVEY AND ENHANCED COVERAGE	285,804.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 PRESS FOUNDATION 1211 CONNECTICUT AVENUE NW WASHINGTON, DC 20036	NONE PC	TO PROVIDE A FOUR-DAY TRAINING IN THE PUBLIC UNDERSTANDING OF WORKING LONGER TO A SET OF 20 JOURNALISTS	106,553.
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	400,000.
NATIONAL SCIENCE COMMUNICATION INSTITUTE 2320 N 137TH ST SEATTLE, WA 98133	NONE PC	TO PARTIALLY SUPPORT THE 2017 MEETING OF THE OPEN SCHOLARSHIP INITIATIVE	20,000.
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	400,000.
NEW VENTURE FUND 1201 CONNECTICUT AVE NW WASHINGTON, DC 20036	NONE PC	TO ENCOURAGE CHARITABLE GIVING IN SUPPORT OF BASIC SCIENTIFIC RESEARCH THROUGH SLOAN MEMBERSHIP IN THE SCIENCE PHILANTHROPY ALLIANCE	179,000.
NEW VENTURE FUND 1201 CONNECTICUT AVE NW WASHINGTON, DC 20036	NONE PC	TO SUPPORT THE OPEN RESEARCH FUNDERS GROUP, A PARTNERSHIP COMMITTED TO THE OPEN SHARING OF RESEARCH OUTPUTS	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 VENTURE FUND 1201 CONNECTICUT AVE NW WASHINGTON, DC 20036	NONE PC	TO PILOT A SCIENCE PHILANTHROPY ALLIANCE FELLOWSHIP TO TRAIN A PHD SCIENTIST IN BASIC SCIENCE PHILANTHROPY	125,000.
NEW YORK ACADEMY OF SCIENCES 7 WTC, 250 GREENWICH STREET, 40TH FLOOR NEW YORK, NY 10007-2157	NONE PC	TO PROVIDE A DIVERSE CADRE OF 30 ADVANCED DOCTORAL STUDENTS IN STEM FIELDS WITH LEADERSHIP SKILLS TO GIVE THEM MAXIMUM FLEXIBILITY IN CONSIDERING CAREER OPTIONS THROUGH A 5 DAY WORKSHOP AND 9-MONTH WEBINAR PROGRAM CALLED SCIENCE ALLIANCE LEADERSHIP TRAINING (SALT)	110,140.
NEW YORK CITY H2O, INC. P.O. BOX 20773 NEW YORK, NY 10009	NONE PC	TO PROVIDE SUPPORT FOR 15 WATER ECOLOGY AND ENGINEERING FIELD TRIPS	20,000.
NEW YORK PUBLIC RADIO 160 VARICK STREET NEW YORK, NY 10013	NONE PC	TO SUPPORT HEALTH CARE REPORTING AT WNYC WITH A FOCUS ON THE ECONOMICS AND POLICY OF OUR HEALTHCARE SYSTEM AND THE IMPACT OF THE AFFORDABLE CARE ACT ON CONSUMERS IN NEW YORK	200,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280 NEW YORK, NY 10003	NONE PC	TO ADVANCE DATA-INTENSIVE SCIENTIFIC DISCOVERY, EMPOWERING RESEARCHERS TO BE VASTLY MORE EFFECTIVE BY UTILIZING NEW METHODS, NEW TOOLS, NEW PARTNERSHIPS, AND NEW CAREER PATHS	600,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280 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)	363,372.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 UNIVERSITY 6 WASHINGTON PL, RM 280 NEW YORK, NY 10003	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE CYBER SECURITY PROGRAM FOR HIGH SCHOOL WOMEN	20,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280 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	200,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280 NEW YORK, NY 10003	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JAYEETA BASU IN NEUROSCIENCE	60,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280 NEW YORK, NY 10003	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NICOLAS TRITSCH IN NEUROSCIENCE	60,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280 NEW YORK, NY 10003	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DANIEL TURNER IN CHEMISTRY	60,000.
NEW YORK UNIVERSITY 6 WASHINGTON PL, RM 280 NEW YORK, NY 10003	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOHANNES STROEBEL IN ECONOMICS	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 UNIVERSITY 6 WASHINGTON PL, RM 280 NEW YORK, NY 10003	NONE PC	TO STUDY HOW ATTENTION AND PERCEPTION AFFECT MICROECONOMIC BEHAVIORS AND MACROECONOMIC OUTCOMES	176,483.
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	183,544.
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	50,000.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	TO IMPROVE ESTIMATES OF HOW RESEARCH INVESTMENTS TRANSLATE INTO BREAKTHROUGHS BY SCIENTIFIC TEAMS, AND HOW SCIENTIFIC BREAKTHROUGHS TRANSLATE INTO EVENTUAL ECONOMIC GROWTH	78,536.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DR. EMMY MURPHY IN MATHEMATICS, ORIGINALLY AWARDED AT MASSACHUSETTS INSTITUTE OF TECHNOLOGY	48,349.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TIFFANY SCHMIDT IN NEUROSCIENCE	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MICHAEL RUBENSTEIN IN COMPUTER SCIENCE	60,000.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YIFENG LIU IN MATHEMATICS	60,000.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR HAN LIU IN MATHEMATICS ORIGINALLY AWARDED TO PRINCETON UNIVERSITY	60,000.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR GANG LIU IN MATHEMATICS	60,000.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	TO EXAMINE HOW SURFACE FINISHES IMPACT THE INDOOR MICROBIOME AND THEIR COLLECTION OF ANTIBIOTIC RESISTANT GENES	40,481.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO BUILD CAPACITY FOR BUSINESS PLANNING AND INDUSTRY ENGAGEMENT WITHIN NUMFOCUS	295,550.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 IMPROVE TEACHING AND RESEARCH IN QUANTITATIVE ECONOMICS BY DEVELOPING CODEBASES AND OTHER RESOURCES THAT ARE COMPELLING, OPEN, AND REPRODUCIBLE	200,000.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO SUPPORT THE DEVELOPMENT OF DATA AND COMPUTATIONAL SKILLS TRAINING CURRICULA IN IMAGE ANALYSIS, ECONOMICS, AND CHEMISTRY	260,150.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO IMPROVE THE PUBLICATION AND CITATION OF SCIENTIFIC SOFTWARE THROUGH IMPROVEMENTS TO THE TECHNICAL INFRASTRUCTURE FOR THE JOURNAL OF OPEN SOURCE SOFTWARE	34,700.
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	425,000.
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.
OHIO STATE UNIVERSITY 270 BEVIS HALL COLUMBUS, OH 43210	NONE GOV	TO SUPPORT PARTICIPATION OF EARLY CAREER SCHOLARS AND STUDENTS AT THE 2017 ENERGY IMPACTS SYMPOSIUM	20,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
OPEN MIND LEGACY PROJECT 320 PARK AVENUE 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 SOURCE HARDWARE ASSOCIATION P.O. BOX 4743 BOULDER, CO 80306	NONE PC	TO SUPPORT THE DEVELOPMENT OF A DYNAMIC, WEB-BASED PLATFORM TO FACILITATE THE ADOPTION, LICENSING, AND IMPROVEMENT OF OPEN SOURCE HARDWARE	58,920.
OPEN SPACE INSTITUTE 1350 BROADWAY, 201 NEW YORK, NY 10018	NONE PC	TO IMPLEMENT TECHNOLOGY UPGRADES TO THE CULTURAL PERFORMANCE CENTER AT HARLEM'S RIVERBANK STATE PARK	25,000.
ORCID 10411 MOTOR CITY DRIVE, SUITE 750 BETHESDA, MD 20817	NONE PC	TO SUPPORT PARTICIPANT TRAVEL TO A MEETING THAT WILL INFORM THE NEXT ORCID STRATEGIC PLAN	19,900.
OREN HARMAN 5 ALEXANDER YANAY ST, # 7 TEL AVIV ISRAEL 6238201	NONE I	TO SUPPORT THE WRITING OF A BOOK, EVOLUTIONS, THAT JUXTAPOSES THE MOST CURRENT SCIENTIFIC UNDERSTANDING OF COSMOLOGY AND THE EVOLUTION WITH MYTHS	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 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>
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.
PHILANTHROPY NEW YORK 1500 BROADWAY, 7TH FLR NEW YORK, NY 10036	NONE PC	TO SUPPORT WORK ON BEHALF OF THE NONPROFIT AND CHARITABLE COMMUNITY	56,000.
PHOENIX BIOINFORMATICS 643 BAIR ISLAND RD REDWOOD CITY, CA 94063	NONE PC	TO FIRMLY ESTABLISH A NONPROFIT SUBSCRIPTION FUNDING MODEL AS A VIABLE OPTION FOR SUSTAINING RESEARCH REPOSITORIES	414,300.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ '08540	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DR. RYAN ADAMS IN COMPUTER SCIENCE, ORIGINALLY AWARDED AT HARVARD UNIVERSITY	39,686.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ '08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AMIR ALI AHMADI IN COMPUTER SCIENCE	60,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ '08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NATHALIE DE LEON IN PHYSICS	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ '08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NICHOLAS SHERIDAN IN MATHEMATICS	60,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ '08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MATTHEW KUNZ IN PHYSICS	60,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ '08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SILVIU PUFU IN PHYSICS	60,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ '08540	NONE PC	TO IMPROVE THE CONTINGENT WORKER SUPPLEMENT (CWS) QUESTIONS IN ORDER TO INCREASE VALIDITY, REDUCE MEASUREMENT ERROR, AND INCLUDE APPROPRIATE CATEGORIES OF ALTERNATIVE WORKERS	383,891.
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 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	275,744.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
PUBLIC LAB PO BOX 426113 CAMBRIDGE, MA '02142	NONE PC	TO SUPPORT A WORKSHOP AND ASSOCIATED ROADMAPING ACTIVITIES ON OPEN SCIENCE HARDWARE	124,849.
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)	150,000.
PURDUE UNIVERSITY 100 S GRANT ST. WEST LAFAYETTE, IN 47907	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CHI LI IN MATHEMATICS	60,000.
RAND CORPORATION 1776 MAIN STREET SANTA MONICA, CA 90407-2137	NONE PC	TO FIND OUT HOW LABOR FORCE PARTICIPATION AT OLDER AGES HAS INCREASED EVEN AS SOME DETERMINANTS OF PARTICIPATION HAVE WORSENER, AND WHETHER THE TREND TOWARDS WORKING AT OLDER AGES IS LIKELY TO CONTINUE IN THE FUTURE, ESPECIALLY IN VIEW OF ADVERSE TRENDS IN HEALTH	199,814.
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	250,000.
RENSSELAER POLYTECHNIC INSTITUTE 110 8TH STREET TROY, NY 12180-3590	NONE PC	TO SUPPORT THE RESEARCH DATA ALLIANCE REGIONAL U.S. ORGANIZATION	374,563.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NY 230 WEST 41ST STREET NEW YORK, NY 10036	NONE PC	TO INCREASE THE NUMBER OF DOCTORAL DEGREES IN THE MATHEMATICAL SCIENCES AWARDED TO STUDENTS FROM UNDERREPRESENTED GROUPS THROUGH THE LAUNCH OF THE NYC MATH SCIENCES ALLIANCE	4,000.
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	100,000.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO DEVELOP AND APPLY ADVANCED DATA ANALYTICS TOOLS THAT IMPROVE UNDERSTANDING ABOUT ENERGY SYSTEMS UTILIZATION	189,629.
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	948,653.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO SUPPORT PARTICIPATION OF TOP ECONOMISTS IN A ONE-DAY CONFERENCE FOCUSED ON EXAMINING THE LANDMARK CONTRIBUTIONS TO ENVIRONMENTAL ECONOMICS OF THE ESSAY "CONSERVATION RECONSIDERED" ON ITS FIFTIETH ANNIVERSARY	20,000.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO PREPARE AN UPDATED, COMPREHENSIVE LITERATURE REVIEW ON THE EFFECTIVENESS OF ENERGY EFFICIENCY INTERVENTIONS TO REFLECT RECENT FINDINGS AND ADVANCEMENTS IN PROGRAM EVALUATION METHODOLOGIES	20,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 DEVELOP A RESEARCH AGENDA AND WORKPLAN TO COMPREHENSIVELY UPDATE THE FRAMEWORK FOR SOCIAL COST OF CARBON DIOXIDE ESTIMATION TO ENSURE THAT UPDATED ESTIMATES REFLECT THE BEST AVAILABLE SCIENCE AND ECONOMICS ANALYSIS	124,708.
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	370,458.
ROCKAWAY WATERFRONT ALLIANCE, INC. P.O. BOX 900645 FAR ROCKAWAY, NY 11690	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE ENVIRONMENTOR PROGRAM, A SCIENCE RESEARCH INTERNSHIP PROGRAM	20,000.
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	350,000.
SAN DIEGO STATE UNIVERSITY 5500 CAMPANILE DRIVE SAN DIEGO, CA 92103	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NICHOLAS SHIKUMA IN OCEAN SCIENCES	60,000.
SAN FRANCISCO FILM SOCIETY 39 MESA STREET SAN FRANCISCO, CA 94129	NONE PC	TO NURTURE, DEVELOP, AND CHAMPION FILMS THAT EXPLORE SCIENTIFIC OR TECHNOLOGICAL THEMES AND CHARACTERS	237,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
SCIENCE FESTIVAL FOUNDATION 475 RIVERSIDE DRIVE NEW YORK, NY 10115	NONE PC	TO SUPPORT THE PRODUCTION AND EXECUTION OF THE ANNUAL WORLD SCIENCE FESTIVAL AND RELATED YEAR-ROUND LIVE AND DIGITAL ACTIVITIES IN 2016, 2017, AND 2018.	250,000.
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	228,500.
SETH FLETCHER 25 OLD POST ROAD 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.	15,000.
SETH STEPHENS-DAVIDOWITZ 924 WEST END AVE NEW YORK, NY 10012	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF NEEDLES AND HAYSTACKS: THE SMART WAY TO USE NEW DATA, A BOOK ON THE WIDE-RANGING APPLICATIONS OF BIG DATA ANALYSIS	20,000.
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	340,000.
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	300,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
SPONSORS FOR EDUCATIONAL OPPORTUNITY, INC. 55 EXCHANGE PLACE, SUITE 601 NEW YORK, NY 10005	NONE PC	TO PROMOTE UNREPRESENTED MINORITIES WITHIN THE INVESTMENT MANAGEMENT INDUSTRY BY MAXIMIZING THE PIPELINE OF DIVERSITY INTO FINANCE AND TOP BUSINESS SECTORS AND TO ENSURE THAT DIVERSE TALENT IS IDENTIFIED EARLY AND PROVIDED WITH THE ACCESS, RESOURCES, AND PROFESSIONAL DEVELOPMENT NEEDED TO SUCCEED	20,000.
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	602,432.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO STUDY THE EFFECTS OF THE AFFORDABLE CARE ACT ON OLDER WORKERS' LABOR MARKET OUTCOMES	103,248.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO PROVIDE SUPPORT FOR THE PARTICIPATION OF STUDENTS AND POST-DOCTORAL RESEARCHERS AT THE 2017 BEHAVIOR, ENERGY AND CLIMATE CHANGE CONFERENCE AND TO PRODUCE A REPORT TO GUIDE THE STRATEGIC PLANNING AND DEVELOPMENT OF THE CONFERENCE GOING FORWARD	20,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO RESEARCH AND PUBLISH CASE STUDIES OF EMPLOYER PRACTICES SHAPING THE WORKING LIVES OF AMERICANS 60 AND OLDER	124,999.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO PROVIDE RENEWED SUPPORT FOR A LEADERSHIP DEVELOPMENT COURSE FOR EARLY CAREER SYNTHETIC BIOLOGY RESEARCHERS (ORIGINALLY AT UC BERKELEY AS G-2013-6-05 FOR \$321,363 OF WHICH \$223,410.65 WAS SPENT)	97,952.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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	275,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOHN DUCHI IN MATHEMATICS	60,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ERIK SPERLING IN OCEAN SCIENCES	60,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR GABRIEL CARROLL IN ECONOMICS	60,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JONATHAN LUK IN MATHEMATICS	60,000.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR LEI QI IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR POLLY FORDYCE IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.
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	139,622.
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	116,094.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO DEVELOP NEW EMPIRICAL METHODS AND USE NEW "BIG DATA" RESOURCES FOR ASSESSING THE PERFORMANCE OF MEDICARE AND MEDICARE ADVANTAGE INSURANCE PLANS	270,647.
STANFORD UNIVERSITY 450 SERRA MALL STANFORD, CA 94305	NONE PC	TO CONVENE A CONFERENCE OF ACADEMIC RESEARCHERS AND HUMAN RESOURCE PRACTITIONERS TO DISCUSS PRACTICAL IDEAS TO APPLY EMERGING ACADEMIC RESEARCH TO MANAGING AN AGING WORKFORCE	80,668.
STONY BROOK FOUNDATION 230 ADMINISTRATION STONY BROOK, NY 11794-2250	NONE PC	TO SUPPORT DIVERSE PARTICIPATION BY GRADUATE STUDENTS IN A SUMMER WORKSHOP ON MACRO, BEHAVIORAL, AND EXPERIMENTAL ECONOMICS	15,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
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	300,000.
TECHNOLOGY AFFINITY GROUP 1 NORTH STATE STREET, SUITE 1500 CHICAGO, IL 60602	NONE PC	FOR 2017 MEMBERSHIP DUES	5,000.
TEMPLE UNIVERSITY 1805 N. BROAD STREET PHILADELPHIA, PA 19122	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CHELSEA WALTON IN MATHEMATICS	60,000.
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	375,000.
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	100,000.
THE CONVERSATION 745 ATLANTIC AVE. BOSTON, MA 02111	NONE PC	TO INFORM CONVERSATIONS ABOUT ECONOMICS BY EDITING AND PUBLISHING PUBLICLY ACCESSIBLE ARTICLES BY ACADEMICS ABOUT THEIR RESEARCH	75,000.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 CONVERSATION 745 ATLANTIC AVE. BOSTON, MA 02111	NONE PC	TO ENHANCE THE CONVERSATION'S PRODUCTION OF PUBLICLY ACCESSIBLE ARTICLES BY ACADEMICS ABOUT THEIR RESEARCH IN ECONOMICS	400,000.
THE NEW SCHOOL FOR SOCIAL RESEARCH 66 WEST 12TH STREET NEW YORK, NY 10011	NONE PC	TO PROVIDE NEW YORK CITY PARENTS, PARTICULARLY THOSE IN UNDERSERVED COMMUNITIES, WITH INFORMATION AND DATA NEEDED TO MAKE SOUND CHOICES ABOUT THEIR CHILDREN'S EDUCATION, ESPECIALLY IN SCIENCE, MATHEMATICS, ECONOMICS, AND COMPUTER SCIENCE	200,000.
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIVERSITY PARK, PA 16801	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KOHTA MURASE IN PHYSICS	60,000.
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIVERSITY PARK, PA 16801	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MICHAEL DEGIORGIO IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIVERSITY PARK, PA 16801	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KIN FAI MAK IN PHYSICS	60,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO DEVELOP NEW KNOWLEDGE ABOUT THE METABOLISM OF INDOOR MICROBIAL COMMUNITIES USING EXPERIMENTAL AND MODELING APPROACHES	256,666.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 FACILITATE WORKFORCE RESEARCH BY BROKERING, COMBINING, DOCUMENTING, AND MAKING AVAILABLE FOR STUDY ADMINISTRATIVE DATA ABOUT LABOR MARKETS FROM A VARIETY OF SOURCES	243,818.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO SUPPORT A CONFERENCE ON DATA SCIENCE FOR SOCIAL GOOD	30,000.
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	251,406.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BRYAN DICKINSON IN CHEMISTRY	60,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOSEPH VAVRA IN ECONOMICS	60,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO ORGANIZE A WORKSHOP THAT WILL FOSTER DEEPER, MORE PRODUCTIVE DIALOGUE BETWEEN ECONOMISTS AND ENGINEERS REGARDING THE IMPACT OF ENERGY EFFICIENCY PROGRAMS	60,375.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ABIGAIL VIEREGER IN PHYSICS	60,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ALESSANDRA VOENA IN ECONOMICS	60,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SURIYANARAYANAN VAIKUNTANATHAN IN CHEMISTRY	60,000.
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	240,000.
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	200,000.
TRIBECA FILM INSTITUTE 32 AVENUE OF THE AMERICAS 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	106,320.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 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.	330,000.
TUFTS UNIVERSITY 4 COLBY STREET, MEDFORD, MA '02155	NONE PC	TO SUPPORT A MATHEMATICAL WORKSHOP ON THE GEOMETRY OF REDISTRICTING	20,000.
UNITED STATES ASSOCIATION FOR ENERGY ECONOMICS 28790 CHAGRIN BLVD CLEVELAND, OH 44122	NONE NC	TO SUPPORT THE PARTICIPATION OF GRADUATE STUDENTS AT THE PH.D. DAY EVENT TO BE HELD AT THE 2017 NORTH AMERICAN CONFERENCE IN HOUSTON, TEXAS	10,000.
UNIVERSITY COLLEGE LONDON GOWER STREET LONDON UNITED KINGDOM WC1E 6BT	NONE NC	TO CONDUCT A WORKSHOP AND PUBLISH A SPECIAL JOURNAL ISSUE ON CATASTROPHIC PERTURBATIONS TO EARTH'S DEEP CARBON	70,000.
UNIVERSITY COLLEGE LONDON GOWER STREET LONDON UNITED KINGDOM WC1E 6BT	NONE NC	TO SUPPORT MICROECONOMIC INSIGHTS, AN ONLINE SOURCE FOR ACCESSIBLE SUMMARIES OF HIGH QUALITY MICROECONOMIC RESEARCH	20,000.
UNIVERSITY OF ARIZONA 1401 E. UNIVERSITY BLVD. TUCSON, AZ 85721	NONE GOV	TO ELUCIDATE THE CONCEPT OF CARBON MINERAL EVOLUTION	116,050.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 BOLOGNA VIA ZAMBONI 33 BOLOGNA ITALY 40126	NONE NC	TO ESTABLISH AN OPEN SCHOLARLY CITATION DATABASE THAT FREELY AND LEGALLY MAKES AVAILABLE ACCURATE CITATION DATA IN EASILY REUSED STANDARD MACHINE-READABLE FORMATS	124,993.
UNIVERSITY OF BRITISH COLUMBIA 2355 EAST MALL VANCOUVER BC CANADA V6T 1Z4	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MARK SCHMIDT IN COMPUTER SCIENCE	60,000.
UNIVERSITY OF BRITISH COLUMBIA 2355 EAST MALL VANCOUVER BC CANADA V6T 1Z4	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RUSS ALGAR IN CHEMISTRY	60,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO ADVANCE DATA-INTENSIVE SCIENTIFIC DISCOVERY, EMPOWERING RESEARCHERS TO BE VASTLY MORE EFFECTIVE BY UTILIZING NEW METHODS, NEW TOOLS, NEW PARTNERSHIPS, AND NEW CAREER PATHS	600,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO CHARACTERIZE THE MICROBIAL CONTRIBUTION TO THE VOLATILE ORGANIC COMPOUNDS (VOCs) IN REAL RESIDENTIAL ENVIRONMENTS THROUGH TEMPORALLY AND SPATIALLY RESOLVED VOC MEASUREMENTS	60,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO EXPAND UNDERSTANDING OF THE MICROBIAL ECOLOGY OF THE BUILT ENVIRONMENT	385,104.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 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 SUPPORT THE E2E PROJECT AND CONTINUE THE EXPANSION, COORDINATION, AND FACILITATION OF INTERDISCIPLINARY RESEARCH ON ENERGY EFFICIENCY THROUGH RANDOMIZED CONTROLLED TRIALS AND OTHER EXPERIMENTAL METHODOLOGIES	149,516.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SUPPORT CONTINUED DEVELOPMENT OF THE JUPYTER PLATFORM FOR SCIENTIFIC COMPUTING AND ITS DEVELOPER COMMUNITY	500,000.
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	175,000.
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	425,240.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 ORGANIZE A CONFERENCE FOR ACADEMICS, POLICYMAKERS, AND PRACTITIONERS TO CELEBRATE THE CONTRIBUTIONS TO ENERGY ECONOMICS OF PAUL L. JOSKOW	60,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO CONTINUE TO TRAIN HIGHLY QUALIFIED PH.D. GRADUATE STUDENTS FROM ACROSS NORTH AMERICA IN ENERGY AND ENVIRONMENTAL ECONOMICS TOPICS AND TECHNIQUES THROUGH AN ADVANCED SUMMER TRAINING PROGRAM	124,997.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO ORGANIZE A WORKSHOP THAT WILL FACILITATE A BETTER UNDERSTANDING OF THE ENERGY AND ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE	20,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO BROADEN UNDERSTANDING OF DISTRIBUTIONAL EQUITY OF TRANSPORTATION POLICY BY QUANTIFYING THE HETEROGENEOUS IMPACT OF FUEL ECONOMY STANDARDS	113,859.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DANIEL WEISZ IN PHYSICS	60,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR REED WALKER IN ECONOMICS	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MICHAEL YARTSEV IN NEUROSCIENCE	60,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR REN NG IN COMPUTER SCIENCE	60,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR PIERRE SIMON IN MATHEMATICS	60,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR PRABAL DUTTA IN COMPUTER SCIENCE	37,467.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO DEVELOP, DOCUMENT, AND FREELY DISTRIBUTE LINKED ADMINISTRATIVE DATA DERIVED FROM FEDERAL TAX AND EDUCATIONAL RECORDS	95,158.
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	200,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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, 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	200,000.
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	187,564.
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)	617,000.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR FEREDYDOUN HORMOZDIARI IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.
UNIVERSITY OF CALIFORNIA, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	TO DEVELOP AN INDOOR CHEMISTRY MODELING CONSORTIUM	700,000.
UNIVERSITY OF CALIFORNIA, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KATHERINE MACKEY IN OCEAN SCIENCES	60,000.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SHANE ARDO IN CHEMISTRY	60,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	FOR SCREENWRITING AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS BY TOP FILM STUDENTS	80,100.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO STUDY HOW DISCIPLINARY CONFIGURATIONS, SCALE, AND METHODS OF COLLECTION INFLUENCE THE CIRCULATION OF SCIENTIFIC RESEARCH DATA	300,000.
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	650,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO SUPPORT THE INAUGURAL GORDON RESEARCH CONFERENCE ON DEEP CARBON SCIENCE AS A LEGACY OF THE DEEP CARBON OBSERVATORY	45,000.
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	650,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DR. JUN YIN IN MATHEMATICS	34,434.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR PABLO FAJGELBAUM IN ECONOMICS	60,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ALEXANDER SPOKOYNY IN CHEMISTRY	60,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR WEIZHE HONG IN NEUROSCIENCE	60,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SRIRAM SANKARARAMAN IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.
UNIVERSITY OF CALIFORNIA, OFFICE OF THE PRESIDENT 1111 FRANKLIN STREET OAKLAND, CA 94607	NONE PC	TO DEVELOP CONNECTIONS BETWEEN OPEN SOURCE SCIENTIFIC SOFTWARE DEVELOPERS, THROUGH A ONE-DAY MEETING	20,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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, 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	376,685.
UNIVERSITY OF CALIFORNIA, RIVERSIDE 900 UNIVERSITY AVE RIVERSIDE, CA 92521	NONE PC	TO SUPPORT CONTINUED DEVELOPMENT OF A BROWSER-BASED INTERACTIVE PLATFORM FOR EXPLORING -OMIC DATASETS	165,592.
UNIVERSITY OF CALIFORNIA, RIVERSIDE 900 UNIVERSITY AVE RIVERSIDE, CA 92521	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MINGLEE TANG IN CHEMISTRY	60,000.
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	196,207.
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	500,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SIAVASH MIRARAB IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JEREMIE PALACCI IN PHYSICS	60,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KAMIL GODULA IN CHEMISTRY	60,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANDREW SUK IN MATHEMATICS	60,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SERGEY KRYAZHIMSKIY IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DANIEL KANE IN COMPUTER SCIENCE	60,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TARUN GROVER IN PHYSICS	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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	250,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DR. RAPHAEL FLAUGER IN PHYSICS, TRANSFERRED FROM UNIVERSITY OF TEXAS, AUSTIN, ORIGINALLY AWARDED AT CARNEGIE MELLON UNIVERSITY	37,723.
UNIVERSITY OF CALIFORNIA, SANTA BARBARA BROIDA HALL SANTA BARBARA, CA 93106-9530	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANDREA YOUNG IN PHYSICS	60,000.
UNIVERSITY OF CALIFORNIA, SANTA BARBARA BROIDA HALL SANTA BARBARA, CA 93106-9530	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR STEFANO TESSARO IN COMPUTER SCIENCE	60,000.
UNIVERSITY OF CALIFORNIA, SANTA CRUZ 1156 HIGH STREET SANTA CRUZ, CA 95064	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RUSSELL CORBETT-DETIG IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.
UNIVERSITY OF COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	TO CONDUCT A LONGITUDINAL ANALYSIS OF THE MICROBIOMES OF DORMITORIES AND THEIR INHABITANTS AT THE US AIR FORCE ACADEMY (USAFA)	200,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	TO ELUCIDATE BENEFICIAL PATHWAYS OF MYCOBACTERIOME EXPOSURES IN OUR BUILT ENVIRONMENT	60,000.
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	651,611.
UNIVERSITY OF COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RAHUL NANDKISHORE IN PHYSICS	60,000.
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	130,000.
UNIVERSITY OF COLORADO, DENVER 1201 LARIMER STREET DENVER, CO 80204	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOEL ZYLBERBERG IN NEUROSCIENCE	60,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 DELAWARE 217 SHARP LAB NEWARK, DE 19716	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CATHERINE GRIMES IN CHEMISTRY	60,000.
UNIVERSITY OF FLORIDA E454 CSE BUILDING GAINESVILLE, FL 32611	NONE GOV	TO ESTABLISH AN ADMINISTRATIVE DATA RESEARCH FACILITY THAT PROVIDES OPEN ACCESS TO PRECINCT-LEVEL ELECTION DATA AND VISUALIZATION TOOLS	124,999.
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	TO RESEARCH THE ECONOMICS OF ENERGY EFFICIENCY, AS RECOMMENDED BY A REQUEST FOR PROPOSALS REVIEW COMMITTEE, FOCUSED ON EVALUATING THE PROJECTED AND REALIZED SAVINGS FROM THE WEATHERIZATION ASSISTANCE PROGRAM	149,700.
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN 601 EAST JOHN STREET CHAMPAIGN, IL 61820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DAVID SARLAH IN CHEMISTRY	60,000.
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN 601 EAST JOHN STREET CHAMPAIGN, IL 61820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOAQUIN VIEIRA IN PHYSICS	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 ILLINOIS, URBANA-CHAMPAIGN 601 EAST JOHN STREET CHAMPAIGN, IL 61820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOSH VURA-WEIS IN CHEMISTRY	60,000.
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN 601 EAST JOHN STREET CHAMPAIGN, IL 61820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JEFFERSON CHAN IN CHEMISTRY	60,000.
UNIVERSITY OF MARYLAND, BALTIMORE COUNTY 1000 HILLTOP CIRCLE BALTIMORE, MD 21250	NONE GOV	TO DEVELOP AN EFFECTIVE PIPELINE FOR UNDERREPRESENTED MINORITY STUDENTS TO GAIN ADMISSION TO AND COMPLETE HIGHLY COMPETITIVE DOCTORAL PROGRAMS IN ECONOMICS BY PROVIDING STUDENT SUPPORT, HIGH-VALUE SUMMER RESEARCH EXPERIENCES, AND POSTBACCALAUREATE PROGRAMS.	195,316.
UNIVERSITY OF MARYLAND, COLLEGE PARK 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	TO DEMONSTRATE HOW TO ESTIMATE STANDARD ECONOMIC INDICATORS USING ADMINISTRATIVE DATA ABOUT BUSINESS TRANSACTIONS	845,803.
UNIVERSITY OF MARYLAND, COLLEGE PARK 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	SUPPORT FOR JASON FARMAN'S WAITING FOR WORD: HOW 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 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	TO SUPPORT THE RESEARCH AND WRITING OF A GRAPHIC NON-FICTION BOOK ON SPACE-TIME, RELATIVITY, AND GRAVITY TO BE PUBLISHED BY PRINCETON UNIVERSITY PRESS	43,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JON FROEHLICH IN COMPUTER SCIENCE	60,000.
UNIVERSITY OF MARYLAND, COLLEGE PARK 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TOM GOLDSTEIN IN MATHEMATICS	60,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	TO EXAMINE "ABUNDANCE, AEROSOLIZATION, AND QUANTITATIVE MICROBIAL RISK ASSESSMENT OF OPPORTUNISTIC BACTERIAL PATHOGENS IN THE BUILT ENVIRONMENT"	60,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	TO FACILITATE DATA ACCESS BY DEVELOPING A BROADLY ACCEPTED SYSTEM OF RESEARCHER CREDENTIALING	219,559.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	TO RESEARCH THE ECONOMICS OF ENERGY EFFICIENCY, AS RECOMMENDED BY A REQUEST FOR PROPOSALS REVIEW COMMITTEE, BY CHARACTERIZING PROFILES OF HOUSEHOLDS WHO FALL INTO FINANCING COVERAGE GAPS FOR ENERGY EFFICIENCY PROGRAMS	57,524.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	TO ORGANIZE A MEETING OF EXPERTS ON THE DEVELOPMENT OF TOOLS FOR TEACHING QUANTITATIVE EMPIRICAL REASONING	10,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	TO SUPPORT A SYMPOSIUM FOR RESEARCHERS, POLICYMAKERS, AND FINANCIAL EXPERTS THAT WILL HIGHLIGHT INTERACTIONS BETWEEN BEHAVIORAL ECONOMICS AND MACROECONOMICS	20,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	TO FACILITATE THE PARTICIPATION OF UNDERGRADUATE AND GRADUATE STUDENTS AT THE 2017 TRANSPORTATION, ECONOMICS, ENERGY AND THE ENVIRONMENT (TE3) CONFERENCE	9,625.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CORINNA SCHINDLER IN CHEMISTRY	60,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KERRI PRATT IN CHEMISTRY	60,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AMBUJ TEWARI IN COMPUTER SCIENCE	60,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR QIONG YANG IN PHYSICS	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MONICA DUS IN NEUROSCIENCE	60,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR WEI HO IN MATHEMATICS	60,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RANDY STOCKBRIDGE IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	60,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY 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	274,826.
UNIVERSITY OF MINNESOTA 207 PLEASANT ST. SE MINNEAPOLIS, MN 55455	NONE GOV	TO SUPPORT THREE PANELS AND ASSOCIATED PAPERS AT THE NATIONAL CONFERENCE ON THE 50TH ANNIVERSARY OF THE KERNER COMMISSION REPORT THAT EXPLORE THE CONSEQUENCES OF THE 1968 CIVIL DISORDERS WITH A SPECIAL FOCUS ON THE PRODUCTION OF MINORITY ECONOMISTS	42,500.
UNIVERSITY OF MINNESOTA 207 PLEASANT ST. SE MINNEAPOLIS, MN 55455	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR IAN TONKS IN CHEMISTRY	60,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 MINNESOTA 207 PLEASANT ST. SE MINNEAPOLIS, MN 55455	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR VLAD PRIBIAG IN PHYSICS	60,000.
UNIVERSITY OF NEVADA, LAS VEGAS 4505 MARYLAND PARKWAY LAS VEGAS, NV 89154-1055	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ZHAOHUAN ZHU IN PHYSICS	60,000.
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 NOTRE DAME 724 GRACE HALL NOTRE DAME, IN 46556	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CODY SMITH IN NEUROSCIENCE	60,000.
UNIVERSITY OF OREGON 1585 E 13TH AVE. EUGENE, OR 97403	NONE GOV	TO PROVIDE RENEWED SUPPORT TO THE BIOLOGY AND THE BUILT ENVIRONMENT CENTER	250,000.
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	850,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 OREGON 1585 E 13TH AVE. EUGENE, OR 97403	NONE GOV	TO WORK WITH WELLSPRING CONSULTING, LLC, TO DEVELOP A BUSINESS PLAN TO SUSTAIN THE ACTIVITIES OF THE BIOBE CENTER AT THE UNIVERSITY OF OREGON	125,000.
UNIVERSITY OF OXFORD WELLINGTON SQUARE OXFORD UNITED KINGDOM OX1 2JD	NONE PC	TO CONDUCT A FIELD CAMPAIGN OF THE DEEP CARBON OBSERVATORY (DCO) ON DIFFERENTIATION OF BIOTIC AND ABIOTIC CARBON UNITING A DOZEN EARLY CAREER SCIENTISTS REPRESENTING ALL FOUR DCO COMMUNITIES IN A SYNOPTIC STUDY EXEMPLIFYING FULFILLMENT OF THE DCO'S DECADAL GOALS.	179,129.
UNIVERSITY OF OXFORD WELLINGTON SQUARE OXFORD UNITED KINGDOM OX1 2JD	NONE PC	TO STREAMLINE THE PUBLICATION WORKFLOW FOR DATA PAPERS	65,000.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	TO HIRE, HOUSE, AND MANAGE THE INITIAL COORDINATOR FOR A NETWORK OF ADMINISTRATIVE DATA RESEARCH FACILITATORS	132,119.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DR. JIAN DING IN MATHEMATICS, ORIGINALLY AWARDED AT THE UNIVERSITY OF CHICAGO	16,565.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AMISH PATEL IN CHEMISTRY	60,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 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	144,015.
UNIVERSITY OF RHODE ISLAND 79 UPPER COLLEGE RD KINGSTON, RI 02881	NONE GOV	TO CONTINUE CONDUCTING ENGAGEMENT ACTIVITIES AND TO PROVIDE SUPPORT FOR SYNTHESIS ACTIVITIES OF THE DEEP CARBON OBSERVATORY	467,731.
UNIVERSITY OF RHODE ISLAND 79 UPPER COLLEGE RD KINGSTON, RI '02881	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AUSTIN BECKER IN OCEAN SCIENCES	60,000.
UNIVERSITY OF SOUTH CAROLINA 1523 GREENE STREET COLUMBIA, SC 29208	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NATALIA SHUSTOVA IN CHEMISTRY	60,000.
UNIVERSITY OF SOUTH FLORIDA 4202 E FOWLER AVENUE TAMPA, FL 33620	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BRADFORD GEMMELL IN OCEAN SCIENCES	60,000.
UNIVERSITY OF SOUTHERN CALIFORNIA 1050 CHILD WAY, RRI 201 (MCB) LOS ANGELES, CA 90089	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ILIAS DIAKONIKOLAS IN COMPUTER SCIENCE	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 SYDNEY MADSEN BLDG, F09 SYDNEY AUSTRALIA 2006	NONE NC	TO MODIFY MODELS OF THE MOVEMENT OF EARTH'S TECTONIC PLATES OVER THE PAST BILLION YEARS TO INCORPORATE VISUAL KNOWLEDGE OF DEEP CARBON CYCLE.	100,000.
UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	TO EXAMINE THE HYDROLOGICAL CHARACTERISTICS OF FIVE MAJOR SHALE GAS AND SHALE OIL REGIONS, INCLUDING UNDERSTANDING ENVIRONMENTAL IMPACTS ON REGIONAL WATER RESOURCES AND INDUCED SEISMICITY EFFECTS FROM WASTEWATER DISPOSAL	155,060.
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	218,603.
UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	TO CURATE, MERGE, ANONYMIZE, AND EXAMINE RESIDENTIAL SMART METER DATA IN THE COMPETITIVE ELECTRICITY MARKET AREAS OF TEXAS	300,000.
UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	TO SUPPORT STUDENTS FROM MULTIPLE DISCIPLINES TO PARTICIPATE IN THE 2018 AUSTIN ELECTRICITY CONFERENCE	10,000.
UNIVERSITY OF TEXAS, AUSTIN 2500 SPEEDWAY AUSTIN, TX 78712	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR THIBAUD TAILLEFUMIER IN NEUROSCIENCE	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 TORONTO 12 QUEENS PARK CRESCENT W, 3RD FL MCMURRICH BLDG, TORONTO ON CANADA M5S 1S8	NONE PC	TO EXPAND UNDERSTANDING OF MULTIPHASE CHEMISTRY IN INDOOR ENVIRONMENTS	193,000.
UNIVERSITY OF TORONTO 12 QUEENS PARK CRESCENT W, 3RD FL MCMURRICH BLDG, TORONTO ON CANADA M5S 1S8	NONE PC	TO INVESTIGATE THE ROLE OF PHOTOCHEMISTRY INDOORS	245,345.
UNIVERSITY OF TORONTO 12 QUEENS PARK CRESCENT W, 3RD FL MCMURRICH BLDG, TORONTO ON CANADA M5S 1S8	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BENJAMIN ROSSMAN IN MATHEMATICS	60,000.
UNIVERSITY OF TORONTO 12 QUEENS PARK CRESCENT W, 3RD FL MCMURRICH BLDG, TORONTO ON CANADA M5S 1S8	NONE PC	TO STUDY THE BEHAVIORAL WELFARE ECONOMICS OF HOW NUDGES AFFECT FINANCIAL DECISION MAKING	155,066.
UNIVERSITY OF TORONTO 12 QUEENS PARK CRESCENT W, 3RD FL MCMURRICH BLDG, TORONTO ON CANADA M5S 1S8	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANGELA SCHOELLIG IN COMPUTER SCIENCE	60,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 VIRGINIA P.O. BOX 400325 CHARLOTTESVILLE, VA 22904-4325	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR THOMAS KOBERDA IN MATHEMATICS	60,000.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE SEATTLE, WA 98195-9472	NONE GOV	TO ADVANCE DATA-INTENSIVE SCIENTIFIC DISCOVERY, EMPOWERING RESEARCHERS TO BE VASTLY MORE EFFECTIVE BY UTILIZING NEW METHODS, NEW TOOLS, NEW PARTNERSHIPS, AND NEW CAREER PATHS	600,000.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE SEATTLE, WA 98195-9472	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOHN TUTHILL IN NEUROSCIENCE	60,000.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE SEATTLE, WA 98195-9472	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ALI FARHADI IN COMPUTER SCIENCE	60,000.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE SEATTLE, WA 98195-9472	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR EMILY LEVESQUE IN PHYSICS	60,000.
UNIVERSITY OF WISCONSIN SYSTEM 1720 VAN HISE HALL MADISON, WI 53706-1490	NONE GOV	TO BUILD A NEW USER INTERFACE AND DATABASE FOR THE SMALL WORLD INITIATIVE (SWI) AND TRAIN GRADUATE STUDENTS TO TEACH WITH THE BIG DATA SETS GATHERED THROUGH SWI COURSE-SOURCING ON ANTIBIOTICS PRODUCED BY NEWLY ISOLATED SOIL BACTERIA	125,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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 WISCONSIN, MADISON 21 NORTH PARK STREET, SUITE 6401 MADISON, WI 53715-1218	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR STEVEN SAM IN MATHEMATICS	60,000.
UNIVERSITY OF WISCONSIN, MADISON 21 NORTH PARK STREET, SUITE 6401 MADISON, WI 53715-1218	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DARCIÉ MOORE IN NEUROSCIENCE	60,000.
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	800,000.
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	466,926.
VANDERBILT UNIVERSITY BOX 351634 STATION B NASHVILLE, TN 37235-1634	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JENNIFER TRUEBLOOD IN NEUROSCIENCE	60,000.
WAKE FOREST UNIVERSITY 1834 WAKE FOREST ROAD WINSTON-SALEM, NC 27109	NONE PC	TO RESEARCH THE ECONOMICS OF ENERGY EFFICIENCY, AS RECOMMENDED BY A REQUEST FOR PROPOSALS REVIEW COMMITTEE, FOCUSED ON DETERMINING HOW MANAGEMENT PRACTICES IN THE INDUSTRIAL SECTOR IMPACT ENERGY EFFICIENCY	99,933.

ATTACHMENT 22

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
WASHINGTON MONTHLY CORPORATION 1200 18TH ST. NW WASHINGTON, DC 20036	NONE PC	TO SUPPORT THE RE-LAUNCH OF INVENTION & TECHNOLOGY MAGAZINE WITH A SPECIAL ISSUE ON THE ACHIEVEMENTS OF WOMEN AND MINORITIES IN STEM AND TO REDESIGN THE WEBSITE	50,000.
WEISMAN ART MUSEUM, UNIVERSITY OF MINNESOTA FOUNDA 200 OAK STREET SE MINNEAPOLIS, MN 55455	NONE PC	TO EXPAND PUBLIC AWARENESS OF THE GROUNDBREAKING WORK OF SANTIAGO RAMON Y CAJAL, THE FATHER OF MODERN NEUROSCIENCE, THROUGH AN EXHIBITION AND BOOK OF HIS DRAWINGS	75,000.
WESTERN WASHINGTON UNIVERSITY 516 HIGH STREET BELLINGHAM, WA 98225-5996	NONE GOV	TO RESEARCH THE ECONOMICS OF ENERGY EFFICIENCY, AS RECOMMENDED BY A REQUEST FOR PROPOSALS REVIEW COMMITTEE, FOCUSED ON QUANTIFYING THE IMPACT OF ENERGY EFFICIENCY ON HOUSING VALUES	109,304.
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	1,000,000.
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	650,000.
WIKIMEDIA FOUNDATION 1 MONTGOMERY STREET 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.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
WIKIMEDIA FOUNDATION 1 MONTGOMERY STREET 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	2,015,000.
WIKIMEDIA FOUNDATION 1 MONTGOMERY STREET SAN FRANCISCO, CA 94104	NONE PC	TO HELP SUPPORT A WORKSHOP ON THE CITATION OF ACADEMIC RESEARCH ACROSS WIKIMEDIA PROJECTS	20,000.
WNET 825 EIGHTH AVENUE, 14TH FLOOR NEW YORK, NY 10019	NONE PC	TO PRODUCE AT LEAST THREE ANNUAL SLOAN-RELATED SCIENCE, TECHNOLOGY, AND ECONOMICS THEMED EPISODES OF THE OPEN MIND FOR TWO YEARS AND TO SUPPORT ENHANCED OUTREACH AND PROMOTION FOR THE SHOW TO A NATIONAL PBS AUDIENCE	50,000.
WNET 825 EIGHTH AVENUE, 14TH FLOOR 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	400,000.
WOMEN MAKE MOVIES, INC. 115 W 29TH ST., SUITE 1200 NEW YORK, NY 10001-5059	NONE PC	TO SHOWCASE 10 HIGH-PROFILE NEW MEDIA SCIENCE PROJECTS FROM THE U.S. AT THE 2017 WORLD CONGRESS OF SCIENCE AND FACTUAL PRODUCERS	50,000.
WOODROW WILSON INTERNATIONAL CENTER FOR SCHOLARS ONE WOODROW WILSON PLAZA WASHINGTON, DC 20004-3027	NONE PC	AS A FINAL GRANT TO SUPPORT THE GROWTH AND EXPANSION OF CITIZEN SCIENCE WITHIN AND OUTSIDE OF GOVERNMENT	250,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 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>
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	354,169.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 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	600,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT '06511	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR PINCELLI HULL IN OCEAN SCIENCES	60,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT '06511	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TIMOTHY NEWHOUSE IN CHEMISTRY	60,000.
YESHIVA UNIVERSITY 500 W 185TH STREET NEW YORK, NY 10033	NONE PC	TO SUPPORT COLLABORATION BETWEEN MATHEMATICIANS FROM THE US AND EUROPE ON THE STUDY OF FINITE AND INFINITE DIMENSIONAL DYNAMICAL SYSTEMS	20,000.
TOTAL CONTRIBUTIONS PAID			<u>84,532,909.</u>

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23

<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 ASSOCIATION FOR THE ADVANCEMENT OF SCIENC 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 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.
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.
APPALACHIAN STATE UNIVERSITY P.O. BOX 32174 287 RIVERS STREET BOONE, NC 28608	NONE GOV	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	NONE	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	93,648.

ATTACHMENT 23

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 UNIVERSITY DRIVE PO BOX 877205 TEMPE, AZ 85287-7205	GOV	SEEKS TO FOSTER AN ENGAGED COMMUNITY OF READERS	
ARIZONA STATE UNIVERSITY 300 E UNIVERSITY DRIVE PO BOX 877205 TEMPE, AZ 85287-7205	NONE GOV	INSTITUTIONS ASSOCIATED WITH GEOENGINEERING RESEARCH, FOCUSING ON SOLAR RADIATION MANAGEMENT FIELD EXPERIMENTS, USING PARTICIPATORY DELIBERATION METHODOLOGIES	89,615.
ARIZONA STATE UNIVERSITY 300 E UNIVERSITY DRIVE PO BOX 877205 TEMPE, AZ 85287-7205	NONE GOV	TO DEVELOP PREDICTIVE MODEL SYSTEMS OF POLYMICROBIAL BIOFILM FORMATION AND SUSCEPTIBILITY TO CHEMICAL DISINFECTANT: A LONGITUDINAL STUDY WITH IMPLICATIONS FOR SPACEFLIGHT SYSTEMS INTEGRITY AND HEALTH RISKS	70,000.
ASSOCIATION OF AMERICAN UNIVERSITIES 1200 NEW YORK AVE, NW SUITE 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.
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	NONE	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	11,250,000.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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>
U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	PC	NEARBY GALAXIES	
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	431,000.
BIOBUS P.O.B. 20374 NEW YORK, NY 10009	NONE PC	TO SUPPORT EXPANSION OF THE BIOBUS AND BIOBASE STEM EDUCATION PROGRAMS IN HARLEM	250,000.
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	149,360.
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 CONTINUE SUPPORTING THE PRODUCTION AND DISSEMINATION OF ACCESSIBLE, RELIABLE, AND INFLUENTIAL RESEARCH THROUGH THE BROOKINGS PAPERS ON ECONOMIC ACTIVITY	300,000.

ATTACHMENT 23

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 PROMOTE INDEPENDENT, UNBIASED, AND NONPARTISAN ECONOMIC RESEARCH ON REGULATORY ECONOMICS	100,000.
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	250,000.
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.
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	100,000.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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 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.
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	471,000.
CORNELL UNIVERSITY 373 PINE TREE ROAD 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.
COUNCIL FOR ECONOMIC EDUCATION 122 EAST 42ND STREET SUITE 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.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 LIBRARY AND INFORMATION RESOURCES 1707 L STREET NW SUITE 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	200,000.
COUNCIL ON LIBRARY AND INFORMATION RESOURCES 1707 L STREET NW SUITE 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	400,000.
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 SCIENCE 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.
ENSEMBLE STUDIO THEATRE, INC. 549 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 UNDERSTAND THE ECONOMIC AND ENVIRONMENTAL IMPACTS OF COST-REFLECTIVE ELECTRICITY PRICING SCHEMES RELATED TO DISTRIBUTED ENERGY RESOURCES DEPLOYMENT	300,000.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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>
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.
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	400,000.
GEORGE MASON UNIVERSITY 4400 UNIVERSITY 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.
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	186,695.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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	600,000.
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	384,666.
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	202,246.
HOPEWELL FUND 1201 CONNECTICUT AVE NW SUITE 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.
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	260,365.
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	500,000.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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>
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.
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.
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.
JULIA COMPUTING 20 GARLAND RD NEWTON, MA 02459	NONE I	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.
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.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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.
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.
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 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.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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 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 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.
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.
MONTANA STATE UNIVERSITY, BOZMAN 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	48,417.
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.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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.
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	300,000.
NATIONAL ACTION COUNCIL FOR MINORITIES IN ENGINEER ONE NORTH BROADWAY SUITE 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	1,700,000.
NATIONAL ACTION COUNCIL FOR MINORITIES IN ENGINEER ONE NORTH BROADWAY SUITE 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	1,600,000.
NATIONAL ACTION COUNCIL FOR MINORITIES IN ENGINEER ONE NORTH BROADWAY SUITE 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	480,000.
NATIONAL ACTION COUNCIL FOR MINORITIES IN ENGINEER ONE NORTH BROADWAY	NONE	TO SUPPORT A NEW ALFRED P. SLOAN MINORITY PH.D. (MPHD)UNIVERSITY CENTER OF EXEMPLARY MENTORING (UCEM) PROGRAM AT DUKE UNIVERSITY.	650,000.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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>
SUITE 601 WHITE PLAINS, NY 10601	PC		
NATIONAL ACTION COUNCIL FOR MINORITIES IN ENGINEER ONE NORTH BROADWAY SUITE 601 WHITE PLAINS, NY 10601	NONE PC	TO MANAGE EFFECTIVELY AND EFFICIENTLY THE FOUNDATION'S PORTFOLIO OF GRADUATE SCHOLARSHIP PROGRAMS	454,328.
NATIONAL BUREAU OF ECONOMIC RESEARCH, 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 RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO SUPPORT THE NBER SUMMER INSTITUTE	266,340.
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	254,150.
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	579,650.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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	312,161.
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	384,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, 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 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 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.
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.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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 UNIVERSITY 6 WASHINGTON PL, RM 280 MEYER HALL NEW YORK, NY 10003	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	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 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	527,511.
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	315,122.
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.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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>
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.
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	259,185.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO SUPPORT THE DEVELOPMENT OF DATA AND COMPUTATIONAL SKILLS TRAINING CURRICULA IN IMAGE ANALYSIS, ECONOMICS, AND CHEMISTRY	237,188.
OPEN MIND LEGACY PROJECT 320 PARK AVENUE 4TH FLOOR 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.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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>
PARIS SCHOOL OF ECONOMICS 48 BD JOURDAN PARIS 0 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	600,000.
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.
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.
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 FLOOR 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.
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)	233,754.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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>
RENSSELAER POLYTECHNIC INSTITUTE 110 8TH STREET TROY, NY 12180-3590	NONE PC	TO SUPPORT THE RESEARCH DATA ALLIANCE REGIONAL U.S. ORGANIZATION	400,207.
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.
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	400,000.
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.
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.
RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY 110 FRELINGHUYSEN ROAD 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.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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>
SAN FRANCISCO FILM SOCIETY 39 MESA STREET SUITE 110 SAN FRANCISCO, CA 94129	NONE PC	TO NURTURE, DEVELOP, AND CHAMPION FILMS THAT EXPLORE SCIENTIFIC OR TECHNOLOGICAL THEMES AND CHARACTERS	230,000.
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 ROAD 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.
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 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.
SOUTHERN REGIONAL EDUCATION BOARD 592 10TH STREET, NW	NONE	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.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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>
ATLANTA, GA 30318-5790	PC		
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 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	384,591.
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	460,217.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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.
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.
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.
SUSAN HAND SHETTERLY 132 CROSS ROAD 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.
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.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 CONVERSATION 745 ATLANTIC AVE. 8TH FLOOR 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 UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO ACCELERATE SCIENTIFIC DISCOVERY BY USING STATISTICAL MACHINE LEARNING TO ENABLE ADVANCED SEARCH OF MATHEMATICAL LITERATURE	400,000.
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 EXPERIMENTALLY THE WELFARE ECONOMICS OF NUDGING AND OTHER BEHAVIORAL INTERVENTIONS	105,003.
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	498,594.
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.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 FLOOR 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	500,000.
UNIVERSITY COLLEGE LONDON GOWER STREET LONDON LONDON, CITY OF GABON 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 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.

ATTACHMENT 23

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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 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 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 QUANTIFY EXISTING AND PENDING DISTRIBUTION SYSTEM IMPACTS OF HIGH LEVELS OF PENETRATION OF DISTRIBUTED ENERGY RESOURCES AND LOADS	225,000.
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 - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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.
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 FURTHER DEVELOP TOOLS FOR THE DISTRIBUTED TRANSCRIPTION AND CLASSIFICATION OF DATA FROM HISTORIC SOURCES	50,000.
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, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	TO DEVELOP AN INDOOR CHEMISTRY MODELING CONSORTIUM	300,000.
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.

ATTACHMENT 23

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 LEAD AND SYNTHESIZE THE ACTIVITIES OF THE EXTREME PHYSICS AND CHEMISTRY COMMUNITY OF THE DEEP CARBON OBSERVATORY	600,000.
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.
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, RIVERSIDE 900 UNIVERSITY AVE RIVERSIDE, CA 92521	NONE PC	TO SUPPORT CONTINUED DEVELOPMENT OF A BROWSER-BASED INTERACTIVE PLATFORM FOR EXPLORING OMIC DATASETS	333,888.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	TO INVESTIGATE THE FUNDAMENTAL CHEMISTRY OF INDOOR SURFACES	499,760.
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.

ATTACHMENT 23

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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.
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 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 MARYLAND, BALTIMORE COUNTY 1000 HILLTOP CIRCLE BALTIMORE, MD 21250	NONE GOV	TO DEVELOP AN EFFECTIVE PIPELINE FOR UNDERREPRESENTED MINORITY STUDENTS TO GAIN ADMISSION TO AND COMPLETE HIGHLY COMPETITIVE DOCTORAL PROGRAMS IN ECONOMICS PROVIDING STUDENT SUPPORT, HIGH-VALUE SUMMER RESEARCH EXPERIENCES, AND POSTBACCALAUREATE PROGRAMS.	1,109,244.

ATTACHMENT 23

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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 MICHIGAN 930 N. UNIVERSITY 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	463,174.
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	500,000.
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 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.

ATTACHMENT 23

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 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 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.
UNIVERSITY OF TORONTO 12 QUEENS PARK CRESCENT WEST3RD FL TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO EXPAND UNDERSTANDING OF MULTIPHASE CHEMISTRY IN INDOOR ENVIRONMENTS	192,000.
UNIVERSITY OF TORONTO 12 QUEENS PARK CRESCENT WEST3RD FL TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO INVESTIGATE THE ROLE OF PHOTOCHEMISTRY INDOORS	490,690.
UNIVERSITY OF TORONTO 12 QUEENS PARK CRESCENT WEST3RD FL TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO STUDY THE BEHAVIORAL WELFARE ECONOMICS OF HOW NUDGES AFFECT FINANCIAL DECISION MAKING	319,540.
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.

ATTACHMENT 23

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 DEMONSTRATE NEW STATISTICAL AND VISUALIZATION CAPABILITIES BY MIGRATING MASSIVE MICROSIMULATION MODELS TO THE CLOUD	150,000.
WGBH EDUCATIONAL FOUNDATION 2100 M STREET, NW 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	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	1,000,000.
WIKIMEDIA FOUNDATION ONE GUEST STREET SUITE 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 SUITE 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.

ATTACHMENT 23

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 23 (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 1 MONTGOMERY STREET 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.
YALE UNIVERSITY 825 EIGHTH AVENUE, 14TH FLOOR 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 EXPAND EMULATION AND SOFTWARE PRESERVATION INFRASTRUCTURE IN ORDER TO ENSURE THAT SOFTWARE AND SOFTWARE-DEPENDENT DIGITAL CONTENT IS ACCESSIBLE BY FUTURE GENERATIONS	400,000.
YALE UNIVERSITY PRESS 300 GEORGE STREET, SUITE 901 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.
TOTAL CONTRIBUTIONS APPROVED			<u>59,901,086.</u>

FORM 990-PF, PART XVI-A - ANALYSIS OF OTHER REVENUEATTACHMENT 24

<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	467,561.	
RECV'D WITH GRANT TRANSFERS			01	924,447.	
MISCELLANEOUS			01	5,850.	
TOTALS				<u>1,397,858.</u>	