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Form **990-PF**

Department of the Treasury
Internal Revenue Service

Return of Private Foundation

or Section 4947(a)(1) Trust Treated as Private Foundation

▶ Do not enter social security numbers on this form as it may be made public

▶ Go to www.irs.gov/Form990PF for instructions and the latest information

OMB No 1545-0052

2017

Open to Public Inspection

For calendar year 2017 or tax year beginning , and ending

Name of foundation
RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

A Employer identification number
13-1963407

Number and street (or P O box number if mail is not delivered to street address) Room/suite
4703 EAST CAMP LOWELL DRIVE 201

B Telephone number
520-571-1111

City or town, state or province, country, and ZIP or foreign postal code
TUCSON, AZ 85712

C If exemption application is pending, check here ▶ ☐

G Check all that apply: ☐ Initial return ☐ Initial return of a former public charity
☐ Final return ☐ Amended return
☐ Address change ☐ Name change

D 1. Foreign organizations, check here ▶ ☐
2. Foreign organizations meeting the 85% test, check here and attach computation ▶ ☐

H Check type of organization: [X] Section 501(c)(3) exempt private foundation
☐ Section 4947(a)(1) nonexempt charitable trust ☐ Other taxable private foundation

E If private foundation status was terminated under section 507(b)(1)(A), check here ▶ ☐

I Fair market value of all assets at end of year (from Part II, col. (c), line 16) ▶$ 174,518,565.

J Accounting method: ☐ Cash [X] Accrual
☐ Other (specify)
(Part I, column (d) must be on cash basis.)

F If the foundation is in a 60-month termination under section 507(b)(1)(B), check here ▶ ☐

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))

		(a) Revenue and expenses per books	(b) Net investment income	(c) Adjusted net income	(d) Disbursements for charitable purposes (cash basis only)
Revenue	1 Contributions, gifts, grants, etc, received				
	2 Check ▶ [X] if the foundation is not required to attach Sch B				
	3 Interest on savings and temporary cash investments				
	4 Dividends and interest from securities	5,486,813.	5,486,813.	5,486,813.	STATEMENT 1
	5a Gross rents	-5,963.	-5,963.	-5,963.	STATEMENT 2
	b Net rental income or (loss) -5,963.				
	6a Net gain or (loss) from sale of assets not on line 10	2,370,220.			
	b Gross sales price for all assets on line 6a 2,952,891.				
	7 Capital gain net income (from Part IV, line 2)		2,370,220.		
	8 Net short-term capital gain			262,628.	
	9 Income modifications				
	10a Gross sales less returns and allowances				
	b Less Cost of goods sold				
	c Gross profit or (loss)				
	11 Other income	228,604.	226,299.	228,604.	STATEMENT 3
	12 Total Add lines 1 through 11	8,079,674.	8,077,369.	5,972,082.	
Operating and Administrative Expenses	13 Compensation of officers, directors, trustees, etc	519,489.	112,434.	112,466.	407,023.
	14 Other employee salaries and wages	820,040.	25,143.	25,150.	794,890.
	15 Pension plans, employee benefits	199,045.	13,920.	13,924.	374,613.
	16a Legal fees STMT 4	5,843.	0.	0.	17,475.
	b Accounting fees STMT 5	38,320.	19,160.	19,160.	19,160.
	c Other professional fees STMT 6	2,860,105.	2,624,112.	2,624,861.	235,244.
	17 Interest				
	18 Taxes STMT 7	5,712.	0.	0.	0.
	19 Depreciation and depletion	9,083.	0.	0.	
	20 Occupancy	228,663.	15,269.	15,273.	213,390.
	21 Travel, conferences, and meetings	707,293.	11,572.	11,581.	695,712.
	22 Printing and publications	24,732.	0.	0.	24,732.
	23 Other expenses STMT 8	339,062.	0.	0.	319,049.
	24 Total operating and administrative expenses. Add lines 13 through 23	5,757,387.	2,821,610.	2,822,415.	3,101,288.
	25 Contributions, gifts, grants paid	4,060,595.			3,984,865.
	26 Total expenses and disbursements Add lines 24 and 25	9,817,982.	2,821,610.	2,822,415.	7,086,153.
	27 Subtract line 26 from line 12.				
	a Excess of revenue over expenses and disbursements	-1,738,308.			
	b Net investment income (if negative, enter -0-)		5,255,759.		
	c Adjusted net income (if negative, enter -0-)			3,149,667.	

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Part II Balance Sheets

Attached schedules and amounts in the description column should be for end-of-year amounts only

			Beginning of year	End of year	
			(a) Book Value	(b) Book Value	(c) Fair Market Value
Assets	1	Cash - non-interest-bearing	5,248,606.	2,270,546.	2,270,546.
	2	Savings and temporary cash investments			
	3	Accounts receivable ▶			
		Less allowance for doubtful accounts ▶			
	4	Pledges receivable ▶			
		Less allowance for doubtful accounts ▶			
	5	Grants receivable			
	6	Receivables due from officers, directors, trustees, and other disqualified persons			
	7	Other notes and loans receivable ▶ 1,764,000.			
		Less allowance for doubtful accounts ▶ 0.	1,664,500.	1,764,000.	1,764,000.
	8	Inventories for sale or use			
	9	Prepaid expenses and deferred charges			
	10a	Investments - U S. and state government obligations			
	b	Investments - corporate stock STMT 10	87,333,409.	103,239,780.	103,239,780.
	c	Investments - corporate bonds			
	11	Investments - land, buildings, and equipment basis ▶			
		Less accumulated depreciation ▶			
	12	Investments - mortgage loans			
	13	Investments - other STMT 11	60,168,739.	66,957,377.	66,957,377.
	14	Land, buildings, and equipment basis ▶ 838,923.			
		Less accumulated depreciation ▶ 799,920.	48,086.	39,003.	39,003.
	15	Other assets (describe ▶ OTHER ASSETS)	229,265.	247,859.	247,859.
	16	Total assets (to be completed by all filers - see the instructions. Also, see page 1, item I)	154,692,605.	174,518,565.	174,518,565.
Liabilities	17	Accounts payable and accrued expenses	54,476.	74,490.	
	18	Grants payable	560,000.	665,000.	
	19	Deferred revenue			
	20	Loans from officers, directors, trustees, and other disqualified persons			
	21	Mortgages and other notes payable			
	22	Other liabilities (describe ▶ STATEMENT 12)	2,144,159.	1,943,035.	
	23	Total liabilities (add lines 17 through 22)	2,758,635.	2,682,525.	
Net Assets or Fund Balances		Foundations that follow SFAS 117, check here ▶ [X] and complete lines 24 through 26, and lines 30 and 31.			
	24	Unrestricted	151,933,970.	171,836,040.	
	25	Temporarily restricted			
	26	Permanently restricted			
		Foundations that do not follow SFAS 117, check here ▶ [ ] 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	151,933,970.	171,836,040.	
	31	Total liabilities and net assets/fund balances	154,692,605.	174,518,565.	

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	151,933,970.
2	Enter amount from Part I, line 27a	2	-1,738,308.
3	Other increases not included in line 2 (itemize) ▶ SEE STATEMENT 9	3	21,640,378.
4	Add lines 1, 2, and 3	4	171,836,040.
5	Decreases not included in line 2 (itemize) ▶	5	0.
6	Total net assets or fund balances at end of year (line 4 minus line 5) - Part II, column (b), line 30	6	171,836,040.

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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.)
1a				
b	SEE ATTACHED STATEMENT			
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	2,952,891.		582,671.	2,370,220.

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				2,370,220.

2 Capital gain net income or (net capital loss) { If gain, also enter in Part I, line 7; If (loss), enter -0- in Part I, line 7 }	2	2,370,220.
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) If (loss), enter -0- in Part I, line 8	3	262,628.

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.) N/A

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			
2015			
2014			
2013			
2012			

2 **Total** of line 1, column (d)	2	
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	
4 Enter the net value of noncharitable-use assets for 2017 from Part X, line 5	4	
5 Multiply line 4 by line 3	5	
6 Enter 1% of net investment income (1% of Part I, line 27b)	6	
7 Add lines 5 and 6	7	
8 Enter qualifying distributions from Part XII, line 4	8	

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

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 ▶ [X] and enter "N/A" on line 1. Date of ruling or determination letter 06/25/87 (attach copy of letter if necessary-see instructions)		
b	Domestic foundations that meet the section 4940(e) requirements in Part V, check here ▶ [ ] and enter 1% of Part I, line 27b	1	N/A
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	
4	Subtitle A (income) tax (domestic section 4947(a)(1) trusts and taxable foundations only; others, enter -0-)	4	
5	**Tax based on investment income.** Subtract line 4 from line 3 If zero or less, enter -0-	5	0.
6	Credits/Payments		
a	2017 estimated tax payments and 2016 overpayment credited to 2017 — 6a: 0.		
b	Exempt foreign organizations - tax withheld at source — 6b: 0.		
c	Tax paid with application for extension of time to file (Form 8868) — 6c: 0.		
d	Backup withholding erroneously withheld — 6d: 0.		
7	Total credits and payments. Add lines 6a through 6d	7	0.
8	Enter any **penalty** for underpayment of estimated tax Check here [ ] if Form 2220 is attached	8	0.
9	**Tax due.** If the total of lines 5 and 8 is more than line 7, enter **amount owed** ▶	9	0.
10	**Overpayment.** If line 7 is more than the total of lines 5 and 8, enter the **amount overpaid** ▶	10	
11	Enter the amount of line 10 to be. **Credited to 2018 estimated tax** ▶ **Refunded** ▶	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?	1a		X
b	Did it spend more than $100 during the year (either directly or indirectly) for political purposes? See the instructions for the definition	1b		X
	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			
c	Did the foundation file **Form 1120-POL** for this year?	1c		X
d	Enter the amount (if any) of tax on political expenditures (section 4955) imposed during the year: (1) On the foundation ▶ $ 0. (2) On foundation managers ▶ $ 0.			
e	Enter the reimbursement (if any) paid by the foundation during the year for political expenditure tax imposed on foundation managers. ▶ $ 0.			
2	Has the foundation engaged in any activities that have not previously been reported to the IRS?	2		X
	If "Yes," attach a detailed description of the activities.			
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	3		X
4a	Did the foundation have unrelated business gross income of $1,000 or more during the year?	4a	X	
b	If "Yes," has it filed a tax return on **Form 990-T** for this year?	4b	X	
5	Was there a liquidation, termination, dissolution, or substantial contraction during the year? If "Yes," attach the statement required by *General Instruction T*	5		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?	6	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	7	X	
8a	Enter the states to which the foundation reports or with which it is registered. See instructions ▶ AL,AZ,CA,IA,MD,MN,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 *General Instruction G*? If "No," attach explanation SEE STATEMENT 13	8b		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	9	X	
10	Did any persons become substantial contributors during the tax year? If "Yes," attach a schedule listing their names and addresses	10		X

Part VII-A Statements Regarding Activities *(continued)*

			Yes	No
11	At any time during the year, did the foundation, directly or indirectly, own a controlled entity within the meaning of section 512(b)(13)? If "Yes," attach schedule. See instructions	11		X
12	Did the foundation make a distribution to a donor advised fund over which the foundation or a disqualified person had advisory privileges? If "Yes," attach statement See instructions	12		X
13	Did the foundation comply with the public inspection requirements for its annual returns and exemption application?	13	X	

Website address ▶ WWW.RESCORP.ORG

14 The books are in care of ▶ DANIEL GASCH, CFO Telephone no.▶520-571-1111

Located at ▶4703 EAST CAMP LOWELL DRIVE, NO. 201, TUCSON, AZ ZIP+4 ▶85712

15 Section 4947(a)(1) nonexempt charitable trusts filing Form 990-PF in lieu of **Form 1041** - check here ▶ ☐

and enter the amount of tax-exempt interest received or accrued during the year ▶ 15 N/A

			Yes	No
16	At any time during calendar year 2017, did the foundation have an interest in or a signature or other authority over a bank, securities, or other financial account in a foreign country?	16		X
	See the instructions for exceptions and filing requirements for FinCEN Form 114 If "Yes," enter the name of the foreign country ▶			

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.

			Yes	No
1a	During the year, did the foundation (either directly or indirectly):			
	(1) Engage in the sale or exchange, or leasing of property with a disqualified person? ☐ Yes ☒ No			
	(2) Borrow money from, lend money to, or otherwise extend credit to (or accept it from) a disqualified person? ☐ Yes ☒ No			
	(3) Furnish goods, services, or facilities to (or accept them from) a disqualified person? ☐ Yes ☒ No			
	(4) Pay compensation to, or pay or reimburse the expenses of, a disqualified person? ☒ Yes ☐ No			
	(5) Transfer any income or assets to a disqualified person (or make any of either available for the benefit or use of a disqualified person)? ☐ Yes ☒ No			
	(6) Agree to pay money or property to a government official? (**Exception.** Check "No" if the foundation agreed to make a grant to or to employ the official for a period after termination of government service, if terminating within 90 days) ☐ Yes ☒ No			
b	If any answer is "Yes" to 1a(1)-(6), did any of the acts fail to qualify under the exceptions described in Regulations section 53.4941(d)-3 or in a current notice regarding disaster assistance? See instructions	1b		X
	Organizations relying on a current notice regarding disaster assistance, check here ▶ ☐			
c	Did the foundation engage in a prior year in any of the acts described in 1a, other than excepted acts, that were not corrected before the first day of the tax year beginning in 2017?	1c		X
2	Taxes on failure to distribute income (section 4942) (does not apply for years the foundation was a private operating foundation defined in section 4942(j)(3) or 4942(j)(5)):			
a	At the end of tax year 2017, did the foundation have any undistributed income (lines 6d and 6e, Part XIII) for tax year(s) beginning before 2017? ☐ Yes ☒ No			
	If "Yes," list the years ▶ ____, ____, ____, ____			
b	Are there any years listed in 2a for which the foundation is **not** applying the provisions of section 4942(a)(2) (relating to incorrect valuation of assets) to the year's undistributed income? (If applying section 4942(a)(2) to **all** years listed, answer "No" and attach statement - see instructions) N/A	2b		
c	If the provisions of section 4942(a)(2) are being applied to **any** of the years listed in 2a, list the years here. ▶ ____, ____, ____, ____			
3a	Did the foundation hold more than a 2% direct or indirect interest in any business enterprise at any time during the year? ☒ Yes ☐ No			
b	If "Yes," did it have excess business holdings in 2017 as a result of (**1**) any purchase by the foundation or disqualified persons after May 26, 1969; (**2**) the lapse of the 5-year period (or longer period approved by the Commissioner under section 4943(c)(7)) to dispose of holdings acquired by gift or bequest; or (**3**) the lapse of the 10-, 15-, or 20-year first phase holding period? (Use Schedule C, Form 4720, to determine if the foundation had excess business holdings in 2017.)	3b		X
4a	Did the foundation invest during the year any amount in a manner that would jeopardize its charitable purposes?	4a		X
b	Did the foundation make any investment in a prior year (but after December 31, 1969) that could jeopardize its charitable purpose that had not been removed from jeopardy before the first day of the tax year beginning in 2017?	4b		X

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

			Yes	No
5a During the year, did the foundation pay or incur any amount to:				
(1) Carry on propaganda, or otherwise attempt to influence legislation (section 4945(e))?	☐ Yes ☒ No			
(2) Influence the outcome of any specific public election (see section 4955); or to carry on, directly or indirectly, any voter registration drive?	☐ Yes ☒ No			
(3) Provide a grant to an individual for travel, study, or other similar purposes?	☐ Yes ☒ No			
(4) Provide a grant to an organization other than a charitable, etc , organization described in section 4945(d)(4)(A)? See instructions	☐ Yes ☒ No			
(5) Provide for any purpose other than religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals?	☐ Yes ☒ No			
b If any answer is "Yes" to 5a(1)-(5), did any of the transactions fail to qualify under the exceptions described in Regulations section 53 4945 or in a current notice regarding disaster assistance? See instructions	N/A	5b		
Organizations relying on a current notice regarding disaster assistance, check here	▶ ☐			
c If the answer is "Yes" to question 5a(4), does the foundation claim exemption from the tax because it maintained expenditure responsibility for the grant?	N/A ☐ Yes ☐ 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?	☐ Yes ☒ 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?	☐ Yes ☒ No			
b If "Yes," did the foundation receive any proceeds or have any net income attributable to the transaction?	N/A	7b		

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

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

(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
SEE STATEMENT 14		410,114.	78,357.	31,018.

2 Compensation of five highest-paid employees (other than those included on line 1). 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
DR. RICHARD WIENER - 4703 E. CAMP LOWELL #201, TUCSON, AZ 85712	PROGRAM DIRECTOR 40.00	162,000.	41,834.	15,700.
DR. SILVIA RONCO - 4703 E. CAMP LOWELL #201, TUCSON, AZ 85712	PROGRAM DIRECTOR 40.00	162,000.	33,812.	15,700.
MS. GAIL CRAIG-JAGER - 4703 E. CAMP LOWELL #201, TUCSON, AZ 85712	FINANCIAL ADMINISTRATOR 40.00	100,600.	21,078.	9,810.
MR. DAN HUFF - 4703 E. CAMP LOWELL #201, TUCSON, AZ 85712	COMMUNICATIONS DIRECTOR 40.00	88,400.	23,382.	8,840.
MR. THOMAS GOODENOW - 4703 E. CAMP LOWELL #201, TUCSON, AZ 85712	IT DIRECTOR 40.00	79,000.	27,236.	7,900.
Total number of other employees paid over $50,000			▶	2

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

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

(a) Name and address of each person paid more than $50,000	(b) Type of service	(c) Compensation
ANGELO, GORDON & CO. 245 PARK AVENUE, NEW YORK, NY 10167	INVESTMENT MANAGEMENT	1,057,556.
TCI - CITCO FUND SERVICES CUSTOM HOUSE PLAZA, BLOCK 6, DUBLIN, IRELAND	INVESTMENT MANAGEMENT	993,406.
SANDS CAPITAL MANAGEMENT P.O. BOX 219009, KANSAS CITY, MO 64121	INVESTMENT MANAGEMENT	306,360.
DODGE & COX FUNDS P.O. BOX 8422, BOSTON, MA 02266	INVESTMENT MANAGEMENT	192,462.
ISAACSON MILLER, INC. 263 SUMMER STREET, BOSTON, MA 02210	EXECUTIVE SEARCH	146,714.
Total number of others receiving over $50,000 for professional services ▶		1

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 SEE STATEMENT 15	4,462,840.
2 SEE STATEMENT 16	1,071,082.
3 SEE STATEMENT 17	580,169.
4 SEE STATEMENT 18	446,284.

Part IX-B Summary of Program-Related Investments

Describe the two largest program-related investments made by the foundation during the tax year on lines 1 and 2.	Amount
1 N/A	
2	
All other program-related investments. See instructions.	
3	
Total. Add lines 1 through 3 ▶	0.

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	117,719,224.
b	Average of monthly cash balances	1b	2,964,553.
c	Fair market value of all other assets	1c	44,475,664.
d	Total (add lines 1a, b, and c)	1d	165,159,441.
e	Reduction claimed for blockage or other factors reported on lines 1a and 1c (attach detailed explanation) 1e 0.		
2	Acquisition indebtedness applicable to line 1 assets	2	0.
3	Subtract line 2 from line 1d	3	165,159,441.
4	Cash deemed held for charitable activities. Enter 1 1/2% of line 3 (for greater amount, see instructions)	4	2,477,392.
5	**Net value of noncharitable-use assets** Subtract line 4 from line 3 Enter here and on Part V, line 4	5	162,682,049.
6	**Minimum investment return** Enter 5% of line 5	6	8,134,102.

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

1	Minimum investment return from Part X, line 6	1	
2a	Tax on investment income for 2017 from Part VI, line 5 — 2a		
b	Income tax for 2017. (This does not include the tax from Part VI) — 2b		
c	Add lines 2a and 2b	2c	
3	Distributable amount before adjustments Subtract line 2c from line 1	3	
4	Recoveries of amounts treated as qualifying distributions	4	
5	Add lines 3 and 4	5	
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	

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	7,086,153.
b	Program-related investments - total from Part IX-B	1b	0.
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	7,086,153.
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	5	0.
6	**Adjusted qualifying distributions** Subtract line 5 from line 4	6	7,086,153.

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)

N/A

	(a) Corpus	(b) Years prior to 2016	(c) 2016	(d) 2017
1 Distributable amount for 2017 from Part XI, line 7				
2 Undistributed income, if any, as of the end of 2017				
a Enter amount for 2016 only				
b Total for prior years: ______ , ______ , ______				
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				
4 Qualifying distributions for 2017 from Part XII, line 4. ▶ $				
a Applied to 2016, but not more than line 2a				
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				
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 instr				
f Undistributed income for 2017. Subtract lines 4d and 5 from line 1. This amount must be distributed in 2018				
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				
9 **Excess distributions carryover to 2018** Subtract lines 7 and 8 from line 6a				
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)

1 a If the foundation has received a ruling or determination letter that it is a private operating foundation, and the ruling is effective for 2017, enter the date of the ruling ▶ 06/25/87

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

	Tax year (a) 2017	Prior 3 years (b) 2016	(c) 2015	(d) 2014	(e) Total
2 a Enter the lesser of the adjusted net income from Part I or the minimum investment return from Part X for each year listed	3,149,667.	4,736,435.	6,514,998.	6,692,336.	21,093,436.
b 85% of line 2a	2,677,217.	4,025,970.	5,537,748.	5,688,486.	17,929,421.
c Qualifying distributions from Part XII, line 4 for each year listed	7,086,153.	7,776,198.	6,411,219.	7,493,824.	28,767,394.
d Amounts included in line 2c not used directly for active conduct of exempt activities	34,865.	41,298.	44,627.	52,435.	173,225.
e Qualifying distributions made directly for active conduct of exempt activities. Subtract line 2d from line 2c	7,051,288.	7,734,900.	6,366,592.	7,441,389.	28,594,169.
3 Complete 3a, b, or c for the alternative test relied upon					
a "Assets" alternative test - enter (1) Value of all assets	174,518,565.	154,692,605.	150,000,395.	157,589,550.	636,801,115.
(2) Value of assets qualifying under section 4942(j)(3)(B)(i)					0.
b "Endowment" alternative test - enter 2/3 of minimum investment return shown in Part X, line 6 for each year listed	5,422,735.	4,860,210.	5,079,617.	5,229,595.	20,592,157.
c "Support" alternative test - enter.					
(1) Total support other than gross investment income (interest, dividends, rents, payments on securities loans (section 512(a)(5)), or royalties)					0.
(2) Support from general public and 5 or more exempt organizations as provided in section 4942(j)(3)(B)(iii)					0.
(3) Largest amount of support from an exempt organization					0.
(4) Gross investment income					0.

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

1 **Information Regarding Foundation Managers:**

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

NONE

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.

NONE

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

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

DANIEL GASCH, 520-571-1111
4703 E. CAMP LOWELL, SUITE 201, TUCSON, AZ 85712

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

c Any submission deadlines

NONE

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

INDIVIDUALS PERFORMING SCIENTIFIC RESEARCH AT ACADEMIC INSTITUTIONS OF ALL LEVELS.

Part XV Supplementary Information *(continued)*

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

Recipient: Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
a *Paid during the year*				
SEE ATTACHED STATEMENT				3,984,865.
Total			▶ 3a	3,984,865.
b *Approved for future payment*				
SEE ATTACHED STATEMENT				665,000.
Total			▶ 3b	665,000.

Part XVI-A Analysis of Income-Producing Activities

Enter gross amounts unless otherwise indicated.	Unrelated business income (a) Business code	Unrelated business income (b) Amount	Excluded by section 512, 513, or 514 (c) Exclusion code	Excluded by section 512, 513, or 514 (d) Amount	(e) Related or exempt function income
1 Program service revenue:					
a					
b					
c					
d					
e					
f					
g Fees and contracts from government agencies					
2 Membership dues and assessments					
3 Interest on savings and temporary cash investments					
4 Dividends and interest from securities			14	5,486,813.	
5 Net rental income or (loss) from real estate					
a Debt-financed property					
b Not debt-financed property			16	-5,963.	
6 Net rental income or (loss) from personal property					
7 Other investment income					
8 Gain or (loss) from sales of assets other than inventory			18	2,370,220.	
9 Net income or (loss) from special events					
10 Gross profit or (loss) from sales of inventory					
11 Other revenue:					
a OTHER INCOME (LOSS) FROM					
b K-1S	900099	2,305.	14	224,270.	
c OTHER MISC. INCOME	900099		15	2,029.	
d					
e					
12 Subtotal. Add columns (b), (d), and (e)		2,305.		8,077,369.	0.
13 Total. Add line 12, columns (b), (d), and (e)				13	8,079,674.

(See worksheet in line 13 instructions to verify calculations.)

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

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)

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

			Yes	No
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	1a(1)		X
	(2) Other assets	1a(2)		X
b	Other transactions:			
	(1) Sales of assets to a noncharitable exempt organization	1b(1)		X
	(2) Purchases of assets from a noncharitable exempt organization	1b(2)		X
	(3) Rental of facilities, equipment, or other assets	1b(3)		X
	(4) Reimbursement arrangements	1b(4)		X
	(5) Loans or loan guarantees	1b(5)		X
	(6) Performance of services or membership or fundraising solicitations	1b(6)		X
c	Sharing of facilities, equipment, mailing lists, other assets, or paid employees	1c		X

d If the answer to any of the above is "Yes," complete the following schedule. Column (b) should always show the fair market value of the goods, other assets, or services given by the reporting foundation. If the foundation received less than fair market value in any transaction or sharing arrangement, show in column (d) the value of the goods, other assets, or services received.

(a) Line no	(b) Amount involved	(c) Name of noncharitable exempt organization	(d) Description of transfers, transactions, and sharing arrangements
		N/A	

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

b If "Yes," complete the following schedule.

(a) Name of organization	(b) Type of organization	(c) Description of relationship
N/A		

Sign Here

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

Signature of officer or trustee — Date: 11/02/18 — Title: VP AND CFO

May the IRS discuss this return with the preparer shown below? See instr ☒ Yes ☐ No

Paid Preparer Use Only

Print/Type preparer's name	Preparer's signature	Date	Check ☐ if self-employed	PTIN
KAREN K. MCCLOSKEY, CPA	Karen K McCloskey	10/09/18		P00099644

Firm's name ▶ BEACHFLEISCHMAN PC — Firm's EIN ▶ 86-0683059

Firm's address ▶ 1985 E. RIVER ROAD, SUITE 201 TUCSON, AZ 85718 — Phone no 520-321-4600

Form **990-PF** (2017)

723622 01-03-18

Part IV Capital Gains and Losses for Tax on Investment Income

	(a) List and describe the kind(s) of property sold, e g , 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.)
1a	AG CAPITAL RECOVERY PARTNERS VI LP	P		
b	AG OPPORTUNISTIC WHOLE LOAN FUND LP	P		
c	AG REALTY FUND IV LP	P		
d	AG REALTY FUND VI LP	P		
e	AG SUPER FUND LP	P		
f	AG SUPER FUND LP	P		
g	VANGUARD	P		
h	VANGUARD	P		
i	VANGUARD	P		
j	DODGE & COX	P		
k	DODGE & COX	P		
l				
m				
n				
o				

	(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			186,256.	-186,256.
b	209,993.			209,993.
c			37.	-37.
d	585.			585.
e	98,020.			98,020.
f			396,378.	-396,378.
g	1,390.			1,390.
h	186.			186.
i	1,555,363.			1,555,363.
j	163,218.			163,218.
k	924,136.			924,136.
l				
m				
n				
o				

Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69

	(i) F.M.V. as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col. (i) over col (j), if any	(l) Losses (from col (h)) Gains (excess of col. (h) gain over col. (k), but not less than "-0-")
a				-186,256.
b				209,993.
c				-37.
d				585.
e				** 98,020.
f				-396,378.
g				** 1,390.
h				186.
i				1,555,363.
j				** 163,218.
k				924,136.
l				
m				
n				
o				

2 Capital gain net income or (net capital loss)	{ If gain, also enter in Part I, line 7 If (loss), enter "-0-" in Part I, line 7 }	2	2,370,220.
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). If (loss), enter "-0-" in Part I, line 8		3	262,628.

723591
04-01-17

** (SHORT-TERM)

FORM 990-PF DIVIDENDS AND INTEREST FROM SECURITIES STATEMENT 1

SOURCE	GROSS AMOUNT	CAPITAL GAINS DIVIDENDS	(A) REVENUE PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME
DODGE & COX	305,747.	0.	305,747.	305,747.	305,747.
K-1 INVESMENTS	1,137,520.	0.	1,137,520.	1,137,520.	1,137,520.
PFIC INVESTMENTS	3,310,196.	0.	3,310,196.	3,310,196.	3,310,196.
SAND CAPITAL	143,020.	0.	143,020.	143,020.	143,020.
VANGUARD	590,330.	0.	590,330.	590,330.	590,330.
TO PART I, LINE 4	5,486,813.	0.	5,486,813.	5,486,813.	5,486,813.

FORM 990-PF RENTAL INCOME STATEMENT 2

KIND AND LOCATION OF PROPERTY	ACTIVITY NUMBER	GROSS RENTAL INCOME
REAL ESTATE - AG REALTY FUND IV LP	1	-863.
REAL ESTATE - AG REALTY FUND VI LP	3	-439.
REAL ESTATE - AG SUPER FUND LP	4	-4,661.
TOTAL TO FORM 990-PF, PART I, LINE 5A		-5,963.

FORM 990-PF OTHER INCOME STATEMENT 3

DESCRIPTION	(A) REVENUE PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME
OTHER INCOME (LOSS) FROM K-1S	226,575.	224,270.	226,575.
OTHER MISC. INCOME	2,029.	2,029.	2,029.
TOTAL TO FORM 990-PF, PART I, LINE 11	228,604.	226,299.	228,604.

FORM 990-PF	LEGAL FEES			STATEMENT 4
DESCRIPTION	(A) EXPENSES PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME	(D) CHARITABLE PURPOSES
LEGAL FEES	5,843.	0.	0.	17,475.
TO FM 990-PF, PG 1, LN 16A	5,843.	0.	0.	17,475.

FORM 990-PF	ACCOUNTING FEES			STATEMENT 5
DESCRIPTION	(A) EXPENSES PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME	(D) CHARITABLE PURPOSES
AUDIT & TAX FEES	38,320.	19,160.	19,160.	19,160.
TO FORM 990-PF, PG 1, LN 16B	38,320.	19,160.	19,160.	19,160.

FORM 990-PF	OTHER PROFESSIONAL FEES			STATEMENT 6
DESCRIPTION	(A) EXPENSES PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME	(D) CHARITABLE PURPOSES
INVESTMENT FEES	2,624,861.	2,624,112.	2,624,861.	0.
CONSULTANT FEES	235,244.	0.	0.	235,244.
TO FORM 990-PF, PG 1, LN 16C	2,860,105.	2,624,112.	2,624,861.	235,244.

FORM 990-PF	TAXES			STATEMENT 7
DESCRIPTION	(A) EXPENSES PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME	(D) CHARITABLE PURPOSES
UBTI TAXES	5,712.	0.	0.	0.
TO FORM 990-PF, PG 1, LN 18	5,712.	0.	0.	0.

FORM 990-PF OTHER EXPENSES STATEMENT 8

DESCRIPTION	(A) EXPENSES PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME	(D) CHARITABLE PURPOSES
POSTAGE	7,028.	0.	0.	7,028.
OFFICE EXPENSE	49,764.	0.	0.	29,751.
COMPUTER HARDWARE & EXPENSES	141,069.	0.	0.	141,069.
ADVERTISING & PROMOTION	31,778.	0.	0.	31,778.
INSURANCE	28,684.	0.	0.	28,684.
PROFESSIONAL DEVELOPMENT	9,456.	0.	0.	9,456.
AWARDS & HONORARIA	71,283.	0.	0.	71,283.
TO FORM 990-PF, PG 1, LN 23	339,062.	0.	0.	319,049.

FORM 990-PF OTHER INCREASES IN NET ASSETS OR FUND BALANCES STATEMENT 9

DESCRIPTION	AMOUNT
BOOK/TAX DIFFERENCE FROM INVESTMENTS	21,640,378.
TOTAL TO FORM 990-PF, PART III, LINE 3	21,640,378.

FORM 990-PF CORPORATE STOCK STATEMENT 10

DESCRIPTION	BOOK VALUE	FAIR MARKET VALUE
PUBLIC EQUITY INVESTMENTS	103,239,780.	103,239,780.
TOTAL TO FORM 990-PF, PART II, LINE 10B	103,239,780.	103,239,780.

FORM 990-PF OTHER INVESTMENTS STATEMENT 11

DESCRIPTION	VALUATION METHOD	BOOK VALUE	FAIR MARKET VALUE
ALTERNATIVE INVESTMENTS	FMV	44,909,749.	44,909,749.
FIXED INCOME INVESTMENTS	FMV	22,047,628.	22,047,628.
TOTAL TO FORM 990-PF, PART II, LINE 13		66,957,377.	66,957,377.

FORM 990-PF OTHER LIABILITIES STATEMENT 12

DESCRIPTION	BOY AMOUNT	EOY AMOUNT
POSTRETIREMENT BENEFIT OBLIGATION	761,159.	571,667.
LBT LIABILITY	1,383,000.	1,371,368.
TOTAL TO FORM 990-PF, PART II, LINE 22	2,144,159.	1,943,035.

FORM 990-PF EXPLANATION CONCERNING PART VII-A, LINE 8B STATEMENT 13

EXPLANATION

RESEARCH CORPORATION FILES IN SEVERAL STATES TO REPORT UNRELATED BUSINESS TAXABLE INCOME. THE CORPORATION HAS NO PRESENCE OR ACTIVITIES IN THESE STATES. SOME OF THESE STATES DO NOT REQUIRE REGISTRATION WITH THE ATTORNEY GENERAL IF CONTRIBUTIONS ARE NOT SOLICITED IN THE STATE.

FORM 990-PF PART VIII - LIST OF OFFICERS, DIRECTORS TRUSTEES AND FOUNDATION MANAGERS STATEMENT 14

NAME AND ADDRESS	TITLE AND AVRG HRS/WK	COMPEN-SATION	EMPLOYEE BEN PLAN CONTRIB	EXPENSE ACCOUNT
DR. DANIEL I. LINZER 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	PRESIDENT AND BOARD MEMBER 40.00	96,313.	13,981.	0.
DR. ROBERT N. SHELTON 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	PRESIDENT AND BOARD MEMBER 40.00	53,061.	5,610.	5,306.
DR. ELIZABETH MCCORMACK 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	CHAIR OF THE BOARD 2.00	308.	0.	0.
MR. G. SCOTT CLEMONS 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	TREASURER AND BOARD MEMBER 2.00	0.	0.	0.
MR. JONATHAN HOOK 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	TREASURER AND BOARD MEMBER 2.00	0.	0.	0.

DR. BRENT IVERSON 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	SECRETARY AND BOARD MEMBER 2.00	355.	0.	0.
MR. DAVID WENNER 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	SECRETARY AND BOARD MEMBER 2.00	0.	0.	0.
MR. DANIEL GASCH 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	CHIEF FINANCIAL OFFICER/INTERIM PRES. 40.00	257,250.	58,766.	25,712.
DR. LARS BILDSTEN 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	BOARD MEMBER 2.00	0.	0.	0.
DR. PETER DORHOUT 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	BOARD MEMBER 2.00	703.	0.	0.
DR. EUGENE FLOOD 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	BOARD MEMBER 2.00	903.	0.	0.
DR. GAYLE P. W. JACKSON 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	BOARD MEMBER 2.00	721.	0.	0.
DR. CATHERINE J. MURPHY 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	BOARD MEMBER 2.00	0.	0.	0.
DR. JOAN WOODARD 4703 E. CAMP LOWELL #201 TUCSON, AZ 85712	BOARD MEMBER 2.00	500.	0.	0.
TOTALS INCLUDED ON 990-PF, PAGE 6, PART VIII		410,114.	78,357.	31,018.

FORM 990-PF SUMMARY OF DIRECT CHARITABLE ACTIVITIES STATEMENT 15

ACTIVITY ONE

THE COTTRELL SCHOLAR AWARD DEVELOPS OUTSTANDING CHEMISTRY, PHYSICS AND ASTRONOMY TEACHER-SCHOLARS AT COLLEGES AND UNIVERSITIES WHO ARE RECOGNIZED BY THEIR SCIENTIFIC COMMUNITIES FOR THE QUALITY AND INNOVATION OF THEIR RESEARCH PROGRAMS AND THEIR ACADEMIC LEADERSHIP SKILLS. THIS AWARD

PROVIDES ENTRY INTO A NATIONAL COMMUNITY OF OUTSTANDING SCHOLAR-EDUCATORS WHO PRODUCE SIGNIFICANT RESEARCH AND EDUCATION OUTCOMES. 24 COTTRELL SCHOLAR AWARDS AND 4 COLLABORATIVE AWARDS WERE GIVEN IN 2017.

	EXPENSES
TO FORM 990-PF, PART IX-A, LINE 1	4,462,840.

FORM 990-PF SUMMARY OF DIRECT CHARITABLE ACTIVITIES STATEMENT 16

ACTIVITY TWO

SCIALOG SUPPORTS RESEARCH, INTENSIVE DIALOG AND COMMUNITY BUILDING TO ADDRESS SCIENTIFIC CHALLENGES OF GLOBAL SIGNIFICANCE. WITHIN EACH MULTI-YEAR INITIATIVE, SCIALOG FELLOWS COLLABORATE IN HIGH-RISK DISCOVERY RESEARCH ON UNTESTED IDEAS AND COMMUNICATE THEIR PROGRESS IN ANNUAL CLOSED CONFERENCES. THROUGH THE GIVE-AND-TAKE OF COMMUNITY BUILDING, IT IS THE FOUNDATION'S HOPE THAT SCIALOG FELLOWS GROW BETTER EQUIPPED TO TACKLE EVER MORE CHALLENGING MULTIDISCIPLINARY PROBLEMS. SCIALOG IS INTENDED TO: 1) SUPPORT EARLY CAREER FACULTY TO EXPAND RESEARCH IN A FOCUSED AREA OF HIGH SCIENTIFIC IMPORTANCE; 2) ENCOURAGE SCIENTISTS TO FORM MULTIDISCIPLINARY TEAMS TO TACKLE THESE CRITICAL CHALLENGES, AND; 3) HELP TRANSITION AWARDEES TO OBTAIN FURTHER FUNDING FOR THEIR INNOVATIVE IDEAS. IN 2017, TWO SCIALOG CONFERENCES, MOLECULES COME TO LIFE AND ADVANCED ENERGY STORAGE, WERE HELD AT WHICH GRANT PROPOSALS WERE RECEIVED FOR THE AWARDS MADE.

	EXPENSES
TO FORM 990-PF, PART IX-A, LINE 2	1,071,082.

FORM 990-PF SUMMARY OF DIRECT CHARITABLE ACTIVITIES STATEMENT 17

ACTIVITY THREE

COTTRELL SCHOLAR CAREER ADVANCEMENT AWARDS ARE AIMED AT ADVANCING THE SKILLS, KNOWLEDGE AND EXPERIENCE OF COTTRELL SCHOLARS TOWARD ATTAINING A LEADERSHIP ROLE IN THEIR INSTITUTIONS. THE CAREER ADVANCEMENT AWARDS REPRESENT A COMMITMENT TO COTTRELL SCHOLARS THROUGHOUT THEIR CAREERS. IN 2017, TWO TREE (TRANSFORMATIONAL RESEARCH AND EXCELLENCE

IN EDUCATION) AWARDS, ONE LEAD (LEADERSHIP ENRICHMENT AND DEVELOPMENT) AWARD, AND FIVE SEED (SINGULAR EXCEPTIONAL ENDEAVORS OF DISCOVERY) AWARDS WERE MADE.

	EXPENSES
TO FORM 990-PF, PART IX-A, LINE 3	580,169.

FORM 990-PF SUMMARY OF DIRECT CHARITABLE ACTIVITIES STATEMENT 18

ACTIVITY FOUR

THE FRED (FRONTIERS IN RESEARCH EXCELLENCE AND DISCOVERY) AWARD HAS A DUAL PURPOSE. IT REWARDS CREATIVE COTTRELL SCHOLARS WITH VIBRANT PROGRAMS OF RESEARCH AND POINTS TO THE FUTURE BY PROVIDING FUNDS TO INITIATE HIGH-RISK/HIGH-REWARD PROJECTS THAT WILL POTENTIALLY TRANSFORM A RESEARCH AREA. IN 2017, ONE AWARD OF $250,000 WAS MADE.

	EXPENSES
TO FORM 990-PF, PART IX-A, LINE 4	446,284.

RESEARCH CORPORATION
DBA RESEARCH CORPORATION FOR SCIENCE ADVANCEMENT
ATTACHMENT TO FORM 990-PF, PART XV

EIN 13-1963407

Schedule of Appropriations and Payments, by Request ID   Fiscal Year 2017

12/31/2017

Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
Reed College 3203 SE Woodstock Blvd Portland, OR 97202 *Bismuth(III)-Chiral Anion Complexes Creating An Environmentally-Friendly, Versatile Chiral Catalyst* $ 40,000 00 1/1/2015 ID 23222		$20,000 00	$0 00	$0 00	$20,000 00	$0 00
Western Washington University 516 High Street Bellingham, WA 98225 *Novel Approaches to the Computational Understanding and Prediction of Perovskite Dopant Environments and Distortive Modes* $ 100 000 00 2/15/2017 ID 23959		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
California State University, Northridge 18111 Nordhoff Street Northridge, CA 91330 *Modeling Complex Solvents at Molecular Interfaces Extracting Information and Improving Accuracy* $ 100,000 00 2/15/2017 ID 23967		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
University of North Carolina at Asheville One University Heights Asheville NC 28804 *Improving Antibacterial Drug Discovery through Mixed-Microbial-Culture and Synthetic Organic Chemistry* $ 100,000 00 2/15/2017 ID 23975		$0 00	$100,000 00	$0 00	$100,000 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
University of South Carolina Osborne Administration Building Columbia, SC 29208 *Photophysics of Hybrid Hierarchical Structures with Emphasis on Directional Energy Transfer* $ 100,000 00 2/15/2017 ID 23976		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
Fort Lewis College 1000 Rim Drive Durango, CO 81301 *Structural Basis of -1 Programmed Ribosomal Frameshifting in Human T-cell Lymphotropic Virus Type I* $ 100,000 00 2/15/2017 ID 23983		$0.00	$100,000 00	$0 00	$100,000 00	$0 00
Michigan State University 220 Throwbridge Road East Lansing, MI 48824 *The Physical Drivers of Diversity in Nova Explosions* $ 100,000 00 2/15/2017 ID 23985		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
Colorado State University 0100 Campus Delivery Fort Collins, CO 80523 *Materials Design Principles for Effective Light-Induced Charge Separation in Revolutionary Photovoltaics* $ 100,000 00. 2/15/2017 ID 23997		$0 00	$100,000 00	$0 00	$100,000 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
Boston University One Silber Way Boston, MA 02215 *Chiral Pattern Formation and the Benefits of Chirality* $ 100,000 00 2/15/2017 ID 24010		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
Middlebury College 9 Old Chapel Road Middlebury, VT 05753 *Understanding the Role of Quasar Feedback in Galaxy Evolution Across Luminosities and Redshifts* $ 100,000.00 2/15/2017 ID 24021		$0 00	$100,000 00	$0.00	$100,000.00	$0 00
Williams College 880 Main Street Williamstown, MA 01267 *Measuring Nanoscale Thermal Transport with Chains of Trapped Ions* $ 100,000 00 2/15/2017 ID 24036		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
University of Pittsburgh 4200 Fifth Avenue Pittsburgh, PA 15260 *Bridging Quantum Chemistry and Chemical Intuition to Characterize, Understand and Design New Chemical Sensor Materials* $ 100,000 00 2/15/2017 ID 24053		$0 00	$100,000 00	$0 00	$100,000 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
Washington University in St. Louis One Brookings Drive St Louis, MO 63130 *Chemoenzymatic Synthesis of Strained Beta-Lactones* $ 100,000 00 2/15/2017 ID 24056		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
Stanford University 450 Serra Mall Stanford, CA 94305 *Conjugated Ladder Molecules and Polymers Containing Antiaromaticity Enabled by Efficient Catalytic Annulation* $ 100,000 00 2/15/2017 ID 24067		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
West Virginia University Stewart Hall Morgantown, WV 26506 *Combined Coherent Manipulation and Single-Shot Measurement of an Electron Spin* $ 100,000 00 2/15/2017 ID 24070		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
Massachusetts Institute of Technology 77 Massachusetts Avenue Cambridge, MA 02139 *Bridging Heterogeneous and Molecular Electrocatalysis Inner-Sphere Electron Transfer at Graphite-Conjugated Molecular Active Sites* $ 100,000 00 2/15/2017 ID 24080		$0 00	$100,000 00	$0 00	$100,000 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
Massachusetts Institute of Technology 77 Massachusetts Avenue Cambridge, MA 02139 *Simulating the Effects of Nanoscale Disorder on Energy Transport in Molecular Semiconductors* $ 100,000 00 2/15/2017 ID 24088		$0.00	$100,000 00	$0 00	$100,000 00	$0 00
Stanford University 450 Serra Mall Stanford, CA 94305 *Seeking Quantum Limits with Cold Atoms and Light from Sensing and Control to Scrambling* $ 100,000 00 2/15/2017 ID 24090		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
Duke University 2138 Campus Drive Durham, NC 27708 *Harnessing Small Molecule Receptors to Identify Patterns in RNA Structure and Implement a Course-Based Interdisciplinary Research Experience* $ 100.000 00 2/15/2017 ID 24095		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
Emory University 201 Dowman Drive Atlanta, GA 30322 *Quantitatively Characterizing the Effects of Slow Physiological Changes on Phenotypic Switching in Bacteria* $ 100,000 00 2/15/2017 ID 24097		$0 00	$100,000 00	$0 00	$100,000 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
Trinity College 300 Summit Street Hartford, CT 06106 *Biological Noisiness of Reactive Oxygen Species in Dictyostelium Discoideum* $ 100,000 00 2/15/2017 ID 24110		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
University of California, San Diego 9500 Gilman Drive La Jolla, CA 92093 *Harnessing the Mechanobiology of the Glycocalyx to Influence Stem Cell Specification* $ 100,000 00 2/15/2017 ID 24119		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
University of California, Riverside 900 University Avenue Riverside, CA 92521 *Hot Electron Optoelectronics of Atomic Layer Heterostructures* $ 100 000 00 2/15/2017 ID 24126		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
Princeton University One Nassau Hall Princeton, NJ 08544 *Confronting the Dark Matter Paradigm New Approaches for Direct and Indirect Detection* $ 100,000 00 2/15/2017 ID 24131		$0 00	$100,000 00	$0 00	$100,000 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
University of California, Irvine 510 Aldrich Hall Irvine, CA 92697 *Photoacid-Sensitized Polymers as Light-Driven Ion Pumps for Photodialysis of Salt Water and Mapping Functional Neuron Connectivity* $ 100,000 00 2/15/2017 ID 24169		$0 00	$100,000 00	$0 00	$100,000 00	$0 00
American Physical Society One Physics Ellipse College Park, MD 20740-3844 *APS Prize for a Faculty Member for Research at an Undergraduate Institution - 2017 Sponsorship - Protik K Majumder, Williams College* $ 10,000 00 12/13/2016 ID 24214		$10,000 00	$0 00	$0 00	$10,000 00	$0 00
University of Pittsburgh 4200 Fifth Avenue Pittsburgh, PA 15260 *Stellar Multiplicity Meets Stellar Evolution The APOGEE View* $ 33,334.00 12/15/2016 ID 24215		$33,334 00	$0 00	$0 00	$33,334 00	$0.00
Ohio State University 281 W Lane Avenue Columbus, OH 43210 *Stellar Multiplicity Meets Stellar Evolution The APOGEE View* $ 33,333 00 12/15/2016 ID 24216		$33,333.00	$0 00	$0 00	$33,333 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
Western Washington University 516 High Street Bellingham, WA 98225 *Stellar Multiplicity Meets Stellar Evolution* *The APOGEE View* $ 33,333 00 12/15/2016 ID 24217		$33,333 00	$0 00	$0 00	$33,333 00	$0 00
University of Washington 1410 NE Campus Pkwy Seattle, WA 98195 *Precovery of Super-Flaring G Dwarfs for* *TESS Using PTF and ZTF* $ 50,000.00 12/15/2016 ID 24221		$50,000.00	$0 00	$0 00	$50,000 00	$0 00
University of Oklahoma 660 Parrington Oval Norman, OK 73019 *Precovery of Super-Flaring G Dwarfs for* *TESS Using PTF and ZTF* $ 50,000 00 12/15/2016 ID 24222		$50,000 00	$0 00	$0.00	$50,000 00	$0 00
Princeton University One Nassau Hall Princeton, NJ 08544 *The Stellar MRI* $ 50,000 00 12/15/2016 ID 24230		$50,000 00	$0 00	$0 00	$50,000 00	$0 00
Bates College 2 Andrews Road Lewiston, ME 04240 *The Stellar MRI* $ 50,000 00 12/15/2016 ID 24231		$50,000 00	$0 00	$0 00	$50,000 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
Purdue University 610 Purdue Mall West Lafayette, IN 47907 *Identifying the Origin of the Extreme Scattering Events* $ 50,000 00 12/15/2016 ID 24247		$50,000 00	$0 00	$0 00	$50,000 00	$0 00
University of Wisconsin-Milwaukee 202 Chapman Hall Milwaukee, WI 53201 *Identifying the Origin of the Extreme Scattering Events* $ 50,000 00 12/15/2016 ID 24248		$50,000 00	$0 00	$0 00	$50,000 00	$0 00
University of California, Berkeley 200 California Hall Berkeley, CA 94720 *Supernova Light Curves Influenced by Hidden CSM Interaction* $ 33,334 00 12/15/2016 ID 24254		$33,334 00	$0 00	$0 00	$33,334 00	$0 00
Carnegie Observatories 813 Santa Barbara Street Pasadena, CA 91101- *Supernova Light Curves Influenced by Hidden CSM Interaction* $ 33,333 00 12/15/2016 ID 24255		$33,333 00	$0 00	$0 00	$33,333 00	$0 00
University of Arizona 1401 E University Blvd Tucson, AZ 85721 *Supernova Light Curves Influenced by Hidden CSM Interaction* $ 33,333 00 12/15/2016 ID 24256		$33,333 00	$0 00	$0 00	$33,333 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
University of California, San Diego 9500 Gilman Drive La Jolla, CA 92093 *TREE Award Nomination* $ 25,000 00 1/17/2017 ID 24270		$0 00	$25,000 00	$0 00	$25,000 00	$0 00
University of Washington 1410 NE Campus Pkwy Seattle, WA 98195 *TREE Award Nomination* $ 25,000 00 1/17/2017 ID 24275		$0 00	$25,000 00	$0 00	$25,000 00	$0 00
University of Vermont 85 S Prospect Street Burlington, VT 05405 *Facilitating Dialog about Teaching and Research* $ 25,000 00 12/1/2016 ID 24278		$25,000 00	$0 00	$0 00	$25,000 00	$0 00
LSST Corporation 933 N Cherry Avenue Tucson, AZ 85721 *Large Synoptic Survey Telescope Corporation* $ 25,000 00 3/8/2017 ID 24281		$0 00	$25,000 00	$0 00	$25,000 00	$0 00
ACS Division of Inorganic Chemistry 1155 16th Street NW Washington, DC 20036 *The Young Investigator Award* $ 5,000 00 3/2/2017 ID 24282		$0 00	$5,000 00	$0 00	$5,000 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
Illinois State University Campus Box 8000 Normal, IL 61790-8000 *A Non-Perturbative Approach to Identify Electron-Positron Pairs in Relativistic Interaction Zones* $ 50,000 00 7/15/2017 ID 24283		$0 00	$50,000 00	$0 00	$50,000 00	$0 00
University of Missouri 104 Jesse Hall Columbia, MO 65211 *Femtomagnetism with Time-Dependent Density-Functional Theory Exchange-Correlation Torques and Exact Benchmarks* $ 50,000 00 7/15/2017 ID 24287		$0 00	$50,000 00	$0 00	$50,000 00	$0 00
CUNY - Hunter College 695 Park Avenue New York, NY 10065 *Building a New Paradigm for Coupled Electron--Ion Dynamics via the Exact-Factorization Approach* $ 50.000 00 7/15/2017 ID 24289		$0 00	$50,000 00	$0 00	$50,000 00	$0 00
Vanderbilt University 2301 Vanderbilt Place Nashville, TN 37235 *Decoding Autistic Abilities in Visual Sense-Making to Enable Big Data Discovery in Astronomy* $ 50,000 00 7/15/2017 ID 24295		$0 00	$50,000 00	$0 00	$50,000 00	$0 00

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West Virginia University Stewart Hall Morgantown, WV 26506 *Simultaneous Radio and X-ray Observations of Fast Radio Bursts* $ 50,000 00 7/15/2017 ID 24299		$0 00	$50,000 00	$0 00	$50,000 00	$0.00
Arizona Assurance Program 1111 North Cherry Avenue Tucson, AZ 85721 *The Arizona Assurance Scholars Program* $ 2,500 00 3/8/2017 ID 24301		$0 00	$2,500 00	$0 00	$2,500 00	$0 00
Smith College SURF Fund Stoddard Annex 23 Elm Street Northampton, MA 01063 *Smith College SURF Fund* $ 5,000 00 3/8/2017 ID 24302		$0.00	$5,000.00	$0 00	$5,000 00	$0 00
University of Arizona Foundation 1111 N Cherry Avenue Tucson, AZ 85721 *Arizona Assurance Endowment* $ 20,000 00 3/10/2017 ID 24303		$0.00	$20,000 00	$0 00	$20,000 00	$0 00
Indiana University Bloomington 107 S Indiana Avenue Bloomington, IN 47405 *Designer Metal Nanostructures for Anti-Counterfeit and Anti-Tamper Applications* $ 250,000 00 7/6/2017 ID 24308		$0 00	$250,000 00	$0 00	$250,000 00	$0 00

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Southern Arizona Regional Science & Engineering Fair (SARSEF) 3247 N Christmas Avenue Tucson, AZ 85716 *SARSEF Sponsorship at the Leonardo Da Vinci Level* $ 5,000 00 3/13/2017 ID 24311	501c(3)	$0 00	$5,000 00	$0 00	$5,000 00	$0 00
Hendrix College 1600 Washington Avenue Conway, AR 72032-3080 *Odyssey Professorship for Undergraduate Science Research* $ 10,000 00 3/21/2017 ID 24312		$0 00	$10,000 00	$0 00	$10,000 00	$0 00
New Venture Fund (NVF) 1201 Connecticut Avenue, NW Washington, DC 20036 *2017 Grant for Research Corporation's SPA Participation* $ 50,000 00 3/28/2017 ID 24313		$0 00	$50,000 00	$0 00	$50,000 00	$0 00
University of San Diego 5998 Alcala Park San Diego, CA 92110-2492 *Southern California Regional CS Meeting Proposal* $ 1,000 00 3/30/2017 ID 24314		$0 00	$1,000 00	$0 00	$1,000 00	$0 00

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SUNY - College at Potsdam 44 Pierrepont Avenue Potsdam, NY 13676 *ACS Award for Research at an Undergraduate Institution* $ 5,000 00 4/5/2017 ID 24315		$0 00	$5,000 00	$0 00	$5,000 00	$0 00
University of Illinois at Urbana-Champaign 901 W Illinois Street Urbana, IL 61801 *Midwest Regional CS Meeting Proposal* $ 3,000 00 5/30/2017 ID 24572		$0.00	$3,000 00	$0 00	$3,000 00	$0 00
Mathematical Sciences Research Institute 17 Gauss Way Berkeley, CA 94720 *2017 National Math Festival - 2nd payment* $ 12,500 00 6/5/2017 ID 24573		$0 00	$12,500 00	$0 00	$12,500 00	$0 00
University of California, San Diego 9500 Gilman Drive La Jolla, CA 92093 *2018 UCSD Conference Sponsorship* $ 5,000 00 6/23/2017 ID 24574		$0 00	$5,000 00	$0 00	$5,000 00	$0 00
University of California, Irvine 510 Aldrich Hall Irvine, CA 92697 *Leadership Diversity Pledge* $ 10,000 00 8/1/2017 ID 24575		$0 00	$10,000 00	$0 00	$10,000 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
Northeastern University 360 Huntington Avenue Boston, MA 02115 *Teach Better Update* $ 25,000 00 8/1/2017 ID 24576		$0 00	$25,000 00	$0 00	$25,000 00	$0 00
Trinity University One Trinity Place San Antonio, TX 78212 *Training Faculty to Assist Students in Career Planning* $ 25,000 00 8/1/2017 ID 24577		$0 00	$25,000 00	$0 00	$25,000 00	$0 00
Syracuse University 900 S Crouse Avenue Syracuse, NY 13244 *Learning to Build Authentic MSI/PWI Partnerships* $ 25,000 00 8/1/2017 ID 24578		$0 00	$25,000 00	$0.00	$25,000 00	$0 00
University of Virginia 400 Ray C Hunt Drive Charlottesville, VA 22903 *Development of Practical Tools for an Inclusive STEM Learning Environment Based on Student Views and Recommendations* $ 25,000 00 8/1/2017 ID 24579		$0 00	$25,000 00	$0 00	$25,000 00	$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
Yale University 246 Church Street New Haven, CT 06520 *What Constrains Microbial Diversity? Deriving New Ecological Principles for the Microbial World* $ 75,000 00 9/1/2017 ID 25356		$0 00	$50,000 00	$25,000 00	$75,000 00	$0 00
Boston University One Silber Way Boston, MA 02215 *What Constrains Microbial Diversity? Deriving New Ecological Principles for the Microbial World* $ 25,000 00 9/1/2017 ID 25357		$0 00	$50,000 00	($25,000 00)	$25,000 00	$0 00
American Chemical Society 1155 Sixteenth Street NW Washington, DC 20036 *ACS Award for Research at an Undergraduate Institution-Sponsorship* $ 5,000 00 9/19/2017 ID 25595	501c(3)	$0 00	$5,000 00	$0 00	$5,000 00	$0 00
North Carolina State University 20 Watauga Club Drive Raleigh, NC 27695 *Bridges to Germany Junior Faculty Professional Development Workshop* $ 1,000 00 9/28/2017 ID 25660		$0 00	$1,000 00	$0 00	$1,000 00	$0 00

Fiscal Year 2017

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American Physical Society One Physics Ellipse College Park, MD 20740-3844 *APS Prize for a Faculty Member for Research at an Undergraduate Institution - 2018 Sponsorship* $ 10,000 00 10/4/2017 ID 25661		$0.00	$10,000 00	$0 00	$0.00	$10,000 00
Arizona Public Media 1423 University Blvd P O Box 210067 Tucson, AZ 85721-0067 *2017 AZPM Documentary "100 Years in Space"* $ 25,000 00 10/4/2017 ID 25662		$0 00	$25,000 00	$0 00	$25,000 00	$0 00
Northeastern University 360 Huntington Avenue Boston, MA 02115 *LEADing to Advance Graduate Education* $ 25,000 00 11/27/2017 ID 25663		$0 00	$25,000 00	$0 00	$0 00	$25,000 00
North Carolina State University 20 Watauga Club Drive Raleigh, NC 27695 *Ion REASSIN Ion Re-coordination at Solid-State Interfaces* $ 33,334 00 12/15/2017 ID 25668		$0 00	$33,334 00	$0 00	$0 00	$33,334 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2017	Newly Allocated 2017	Amended 2017	Amount Paid 2017	Ending Balance 2017
Georgia Institute of Technology 225 North Avenue Atlanta, GA 30332 *Ion REASSIN Ion Re-coordination at Solid-State Interfaces* $ 33,333 00 12/15/2017 ID 25669	501c(3)	$0 00	$33,333 00	$0 00	$0 00	$33,333 00
University of Pennsylvania 34th & Spruce Street Philadelphia, PA 19104 *Ion REASSIN Ion Re-coordination at Solid-State Interfaces* $ 33,333 00 12/15/2017 ID 25670		$0 00	$33,333 00	$0 00	$0 00	$33,333 00
University of Illinois at Chicago 1200 W Harrison Street Chicago, IL 60607 *Defining interfacial reactivity in high capacity Li-ion cathode materials* $ 33,334 00 12/15/2017 ID 25674		$0 00	$33,334 00	$0.00	$0 00	$33,334 00
University of California, Berkeley 200 California Hall Berkeley, CA 94720 *Defining interfacial reactivity in high capacity Li-ion cathode materials* $ 33,333 00 12/15/2017 ID 25675		$0 00	$33,333 00	$0 00	$0 00	$33,333 00
University of Pennsylvania 34th & Spruce Street Philadelphia, PA 19104 *Defining interfacial reactivity in high capacity Li-ion cathode materials* $ 33,333 00 12/15/2017 ID 25676		$0 00	$33,333 00	$0 00	$0 00	$33,333 00

Fiscal Year 2017

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University of Colorado at Boulder 1050 Regent Drive Boulder, CO 80309 *Discovery of New Metal Nitrides for Divalent Cation Intercalation Systems* $ 50,000 00 12/15/2017 ID 25695		$0 00	$50,000 00	$0 00	$0 00	$50,000 00
Colorado State University 0100 Campus Delivery Fort Collins, CO 80523 *Discovery of New Metal Nitrides for Divalent Cation Intercalation Systems* $ 50,000 00 12/15/2017 ID 25696		$0 00	$50,000 00	$0 00	$0 00	$50,000 00
Binghamton University 4400 Vestal Parkway East Binghamton, NY 13902 *ReO3 A model for understanding the participation of anions in redox processes* $ 50,000 00 12/15/2017 ID 25710		$0 00	$50,000 00	$0 00	$0 00	$50,000 00
University of Southern California University Park Campus Los Angeles, CA 90089 *ReO3 A model for understanding the participation of anions in redox processes* $ 50,000 00 12/15/2017 ID 25711		$0 00	$50,000 00	$0 00	$0 00	$50,000 00
University of North Carolina at Chapel Hill 103 South Building Chapel Hill, NC 27599 *High-Voltage Dual-Ion Batteries* $ 33,334 00 12/15/2017 ID 25736		$0 00	$33,334 00	$0 00	$0 00	$33,334 00

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University of California, San Diego 9500 Gilman Drive La Jolla, CA 92093 *High-Voltage Dual-Ion Batteries* $ 33,333 00 12/15/2017 ID 25737		$0 00	$33,333 00	$0 00	$0 00	$33,333 00
Oregon State University 104 Kerr Administration Bldg Corvallis, OR 97331 *High-Voltage Dual-Ion Batteries* $ 33,333 00 12/15/2017 ID 25738		$0 00	$33,333 00	$0 00	$0 00	$33,333 00
University of Houston 4800 Calhoun Road Houston, TX 77204 *Proton-Coupled Electron Transfer in Batteries based on Quinone Crystals Integrated Experimental and Theoretical Approach* $ 33,334 00 12/15/2017 ID 25751		$0 00	$33,334 00	$0 00	$0 00	$33,334 00
University of Southern California University Park Campus Los Angeles, CA 90089 *Proton-Coupled Electron Transfer in Batteries based on Quinone Crystals Integrated Experimental and Theoretical Approach* $ 33,333 00 12/15/2017 ID 25752		$0 00	$33,333 00	$0 00	$0 00	$33,333 00

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Binghamton University 4400 Vestal Parkway East Binghamton, NY 13902 *Proton-Coupled Electron Transfer in Batteries based on Quinone Crystals Integrated Experimental and Theoretical Approach* $ 33,333 00 12/15/2017 ID 25753		$0 00	$33,333 00	$0 00	$0 00	$33,333 00
Science Friday Initiative 19 West 44th Street, Suite 412 New York, NY 10036 *General Operating Support* $ 25,000 00 11/14/2017 ID 25755		$0 00	$25,000 00	$0 00	$25,000 00	$0 00
Gordon Research Conferences 512 Liberty Lane West Kingston, RI 02892 *2018 Metallocofactors Gordon Research Conference (GRC)* $ 2,500 00 11/15/2017 ID 25756		$0 00	$2,500 00	$0 00	$2,500 00	$0.00
Rochester Institute of Technology One Lomb Memorial Drive Rochester, NY 14623 *Workshop at RIT for Undergraduate Women in Physics* $ 2,500 00 11/15/2017 ID 25757		$0 00	$2,500 00	$0 00	$2,500 00	$0 00

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University of 1040 E 4th Street Gould Simpson 935 Tucsn, AZ 85721 *University of Arizona - 2017-2018 Arizona Daily Star College of Science Annual Supplement* $ 20,000 00 11/28/2017 ID 25760		$0 00	$20,000 00	$0 00	$20,000 00	$0 00
American Chemical Society 1155 Sixteenth Street NW Washington, DC 20036 *Cottrell Scholar Collaborative New Faculty Workshop* $ 30,000 00 12/20/2017 ID 25779	501c(3)	$0 00	$30,000 00	$0 00	$0.00	$30,000 00
Grand Total (93 items)		$555,000 00	$4,055,000 00	$0 00	$3,945,000 00	$665,000 00
Other charitable contributions (see next page)					$ 34,864 95	$ 0 00
ADJUSTED TOTAL TO PART XV, LINES 3A AND 3B					$3,984,864 95	$665,000 00

RESEARCH CORPORATION
DBA RESEARCH CORPORATION FOR SCIENCE ADVANCEMENT
ATTACHMENT TO FORM 990-PF, PART XV

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Other Charitable Contributions

Independent Media	680 00
Upwardly Global	2,500 00
Tucson Values Teachers	250 00
YMCA of Southern Arizona	500 00
Tucson Children's Museum	5,000 00
Community Food Bank of Southern Arizona	284 00
Wright Elementary School	6,060 95
Educational Enrichment Foundation	900 00
John Hancock Freedom 529	1,750 00
AVIVA Children's Services	250 00
ALS Association Arizona Chapter	400 00
Arizona Polish Club	1,500 00
Community Food Bank of Southern Arizona	240 00
Independent Media	680 00
Tucson Festival of Books	5,000 00
Community Food Bank of Southern Arizona	240 00
TMC Foundation	2,500 00
Tucson Hebrew Academy	5,000 00
Community Food Bank of Southern Arizona	240 00
Community Food Bank of Southern Arizona	890 00
	34,864 95