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Return of Private Foundation
or Section 4947(a)(1) Nonexempt Charitable Trust
Treated as a Private Foundation

2011

Note. The foundation may be able to use a copy of this return to satisfy state reporting requirements.

For calendar year 2011 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) 4703 E. Camp Lowell	Room/suite 201	B Telephone number 520-571-1111
City or town, state, and ZIP code Tucson, AZ 85712		C If exemption application is pending, check here ☐
G Check all that apply: ☐ Initial return ☐ Final return ☐ Address change ☐ Initial return of a former public charity ☐ Amended return ☐ 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: ☒ 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) \$ 128,161,757. (Part I, column (d) must be on cash basis.)	J Accounting method: ☐ Cash ☒ Accrual ☐ Other (specify) _____	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)
1 Contributions, gifts, grants, etc., received		257,626.			
2 Check ☐ if the foundation is not required to attach Sch B					
3 Interest on savings and temporary cash investments					
4 Dividends and interest from securities		4,201,843.	4,201,843.	4,201,843.	Statement 1
5a Gross rents		447,644.	447,644.	447,644.	Statement 2
b Net rental income or (loss) 447,644.					
6a Net gain or (loss) from sale of assets not on line 10		3,969,266.			
b Gross sales price for all assets on line 6a 3,969,266.					
7 Capital gain net income (from Part IV, line 2)			3,969,266.		
8 Net short-term capital gain				0.	
9 Income modifications					
10a Gross sales less returns and allowances					
b Less Cost of goods sold					
c Gross profit or (loss)					
11 Other income		<995,139.>	<995,139.>	<995,139.	Statement 3
12 Total. Add lines 1 through 11		7,881,240.	7,623,614.	3,654,348.	
13 Compensation of officers, directors, trustees, etc.		585,275.	24,403.	0.	560,873.
14 Other employee salaries and wages		801,499.	3,500.	0.	797,999.
15 Pension plans, employee benefits		982,198.	28,848.	0.	953,350.
16a Legal fees		37,940.	0.	0.	37,940.
b Accounting fees		51,588.	25,794.	0.	25,794.
c Other professional fees		1,020,833.	50,000.	0.	970,833.
17 Interest		31.	31.	0.	0.
18 Taxes		<41,213.>	0.	0.	78,050.
19 Depreciation and depletion		66,600.	0.	0.	
20 Occupancy		279,834.	6,000.	0.	273,834.
21 Travel, conferences, and meetings		333,916.	5,000.	0.	328,916.
22 Printing and publications		128,023.	0.	0.	128,023.
23 Other expenses		571,583.	178,149.	0.	418,881.
24 Total operating and administrative expenses. Add lines 13 through 23		4,818,107.	321,725.	0.	4,574,493.
25 Contributions, gifts, grants paid		3,470,747.			4,980,462.
26 Total expenses and disbursements. Add lines 24 and 25		8,288,854.	321,725.	0.	9,554,955.
27 Subtract line 26 from line 12:					
a Excess of revenue over expenses and disbursements		<407,614.>			
b Net investment income (if negative, enter -0-)			7,301,889.		
c Adjusted net income (if negative, enter -0-)				3,654,348.	

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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	9,660.	2,283,531.	2,283,531.
	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	25,000.		
	6 Receivables due from officers, directors, trustees, and other disqualified persons			
	7 Other notes and loans receivable ▶ <u>1,730,389.</u>			
	Less: allowance for doubtful accounts ▶ <u>0.</u>	1,512,117.	1,730,389.	1,730,389.
	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	73,259,197.	57,539,734.	57,539,734.
	c Investments - corporate bonds			
Liabilities	11 Investments - land, buildings, and equipment basis ▶			
	Less accumulated depreciation ▶			
	12 Investments - mortgage loans			
	13 Investments - other Stmt 11	63,670,930.	66,048,857.	66,048,857.
	14 Land, buildings, and equipment basis ▶ <u>798,191.</u>			
	Less accumulated depreciation Stmt 12 ▶ <u>678,230.</u>	186,561.	119,961.	119,961.
	15 Other assets (describe ▶ <u>Statement 13</u>)	423,989.	439,285.	439,285.
	16 Total assets (to be completed by all filers)	139,087,454.	128,161,757.	128,161,757.
	17 Accounts payable and accrued expenses	664,208.	161,905.	
	18 Grants payable	3,501,054.	2,157,582.	
Net Assets or Fund Balances	19 Deferred revenue			
	20 Loans from officers, directors, trustees, and other disqualified persons			
	21 Mortgages and other notes payable			
	22 Other liabilities (describe ▶ <u>Statement 14</u>)	3,579,036.	4,053,028.	
	23 Total liabilities (add lines 17 through 22)	7,744,298.	6,372,515.	
Net Assets or Fund Balances	Foundations that follow SFAS 117, check here ▶ ☒ <u>X</u> and complete lines 24 through 26 and lines 30 and 31.			
	24 Unrestricted	131,343,156.	121,789,242.	
	25 Temporarily restricted			
	26 Permanently restricted			
	Foundations that do not follow SFAS 117, check here ▶ ☐			
	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	131,343,156.	121,789,242.		
31 Total liabilities and net assets/fund balances	139,087,454.	128,161,757.		

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)	131,343,156.
2 Enter amount from Part I, line 27a	<407,614.>
3 Other increases not included in line 2 (itemize) ▶	0.
4 Add lines 1, 2, and 3	130,935,542.
5 Decreases not included in line 2 (itemize) ▶ <u>See Statement 9</u>	9,146,300.
6 Total net assets or fund balances at end of year (line 4 minus line 5) - Part II, column (b), line 30	121,789,242.

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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 (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 See Part IV Schedule - Statement 21	P	Various	Various
b See Part IV Schedule - Statement 21	P	Various	Various
c See Part IV Schedule - Statement 21	P	Various	Various
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 <447,929.>			<447,929.>
b 4,150,595.			4,150,595.
c 266,600.			266,600.
d			
e			

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) Gains (Col. (h) gain minus col. (k), but not less than -0-) or Losses (from col. (h))
a			<447,929.>
b			4,150,595.
c			266,600.
d			
e			

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	3,969,266.
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	<447,929.>

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 does not qualify under section 4940(e). Do not complete this part.

1 Enter the appropriate amount in each column for each year; see 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))
2010			
2009			
2008			
2007			
2006			

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, 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 2011 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.

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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 ☒ and enter "N/A" on line 1. Date of ruling or determination letter: <u>06/25/87</u> (attach copy of letter if necessary-see instructions)		1	N/A
b Domestic foundations that meet the section 4940(e) requirements in Part V, check here ☐ and enter 1% of Part I, line 27b		2	
c All other domestic foundations enter 2% of line 27b. Exempt foreign organizations enter 4% of Part I, line 12, col. (b).		3	
2 Tax under section 511 (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)		4	
3 Add lines 1 and 2		5	0.
4 Subtitle A (income) tax (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)		6a	
5 Tax based on investment income. Subtract line 4 from line 3. If zero or less, enter -0-		6b	
6 Credits/Payments:		6c	
a 2011 estimated tax payments and 2010 overpayment credited to 2011	6d	7	0.
b Exempt foreign organizations - tax withheld at source		8	
c Tax paid with application for extension of time to file (Form 8868)		9	0.
d Backup withholding erroneously withheld		10	
7 Total credits and payments. Add lines 6a through 6d		11	
8 Enter any penalty for underpayment of estimated tax. Check here ☐ if Form 2220 is attached			
9 Tax due. If the total of lines 5 and 8 is more than line 7, enter amount owed			
10 Overpayment. If line 7 is more than the total of lines 5 and 8, enter the amount overpaid			
11 Enter the amount of line 10 to be: Credited to 2012 estimated tax ☐ Refunded ☐			

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
1b Did it spend more than \$100 during the year (either directly or indirectly) for political purposes (see instructions for 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
1c Did the foundation file Form 1120-POL for this year?		X
2 Enter the amount (if any) of tax on political expenditures (section 4955) imposed during the year: (1) On the foundation. \$ <u>0.</u> (2) On foundation managers. \$ <u>0.</u>		
e Enter the reimbursement (if any) paid by the foundation during the year for political expenditure tax imposed on foundation managers. \$ <u>0.</u>		
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 General Instruction T.		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) <u>AL, AZ, CA, CT, CO, MD, MA, MS, NY, NC, PA, TX</u>		
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	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 2011 or the taxable year beginning in 2011 (see 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

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Part VII-A Statements Regarding Activities (continued)

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	☐	☒
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	☐	☒
13 Did the foundation comply with the public inspection requirements for its annual returns and exemption application? Website address ► <u>WWW.RESCORP.ORG</u>	13	☒	☐
14 The books are in care of ► <u>DANNY GASCH, CFO</u> Telephone no. ► <u>520-571-1111</u> Located at ► <u>4703 E. CAMP LOWELL, SUITE 201, TUCSON, AZ</u> ZIP+4 ► <u>85712</u>			
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	
16 At any time during calendar year 2011, 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? See the instructions for exceptions and filing requirements for Form TD F 90-22.1. If "Yes," enter the name of the foreign country ►	16	Yes ☐	No ☒

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)? Organizations relying on a current notice regarding disaster assistance check here ► ☐	1b		☒
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 2011?	1c		☒
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 2011, did the foundation have any undistributed income (lines 6d and 6e, Part XIII) for tax year(s) beginning before 2011? ☐ 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 2011 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 2011.) N/A	3b		
4a Did the foundation invest during the year any amount in a manner that would jeopardize its charitable purposes?	4a		☒
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 2011?	4b		☒

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

5a During the year did the foundation pay or incur any amount to:

- (1) Carry on propaganda, or otherwise attempt to influence legislation (section 4945(e))? ☐ Yes ☒ No
- (2) Influence the outcome of any specific public election (see section 4955); or to carry on, directly or indirectly, any voter registration drive? ☐ Yes ☒ No
- (3) Provide a grant to an individual for travel, study, or other similar purposes? ☐ Yes ☒ No
- (4) Provide a grant to an organization other than a charitable, etc., organization described in section 509(a)(1), (2), or (3), or section 4940(d)(2)? ☐ 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, 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 15		585,275.	119,447.	50,883.

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
SILVIA RONCO - 4703 E. CAMP LOWELL, #201, TUCSON, AZ 85712	PROGRAM OFFICER 40.00	121,825.	30,000.	12,083.
ALICIA SANCHEZ - 4703 E. CAMP LOWELL, #201, TUCSON, AZ 85712	DIR. OF STRATEGIC PARTNERSHIPS 40.00	136,500.	0.	6,750.
RICHARD WIENER - 4703 E. CAMP LOWELL, #201, TUCSON, AZ 85712	PROGRAM OFFICER 40.00	118,300.	11,730.	11,730.
LINDA NEEFE - 4703 E. CAMP LOWELL, #201, TUCSON, AZ 85712	CORPORATE ADMINISTRATOR 40.00	70,000.	20,000.	6,900.
TOMMY GOODENOW - 4703 E. CAMP LOWELL, #201, TUCSON, AZ 85712	NETWORK ADMINISTRATOR 40.00	63,850.	7,545.	6,285.
Total number of other employees paid over \$50,000			▶	0

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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	493,064.
PINEROCK - 1820 MICHAEL FARADAY DRIVE SUITE 22, RESTON, VA 20190	FUNDRAISING/MEDIA CONSULTING	243,578.
CAPITAL GUARDIAN TRUST COMPANY P.O. BOX 35353, SANTA ANA, CA 92799-5353	INVESTMENT MANAGEMENT	169,611.
THE ACCORD GROUP - 1730 RHODE ISLAND AVENUE NW SUITE 700, WASHINGTON, DC 20036	FUNDRAISING/MEDIA CONSULTING	150,000.
CHANGING OUR WORLD - 220 EAST 42ND STREET, 5TH FLOOR, NEW YORK, NY 10017	FUNDRAISING/MEDIA CONSULTING	137,218.
Total number of others receiving over \$50,000 for professional services		0

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 18	
	9,554,955.
2	
3	
4	

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.

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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	74,409,905.
b	Average of monthly cash balances	1b	12,688,057.
c	Fair market value of all other assets	1c	41,063,795.
d	Total (add lines 1a, b, and c)	1d	128,161,757.
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	128,161,757.
4	Cash deemed held for charitable activities. Enter 1 1/2% of line 3 (for greater amount, see instructions)	4	1,922,426.
5	Net value of noncharitable-use assets. Subtract line 4 from line 3. Enter here and on Part V, line 4	5	126,239,331.
6	Minimum investment return. Enter 5% of line 5	6	6,311,967.

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	
2a	Tax on investment income for 2011 from Part VI, line 5	2a	
b	Income tax for 2011. (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	9,554,955.
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	9,554,955.
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	9,554,955.

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.

Form 990-PF (2011)

Part XIII Undistributed Income (see instructions)

N/A

	(a) Corpus	(b) Years prior to 2010	(c) 2010	(d) 2011
1 Distributable amount for 2011 from Part XI, line 7				
2 Undistributed income, if any, as of the end of 2011				
a Enter amount for 2010 only				
b Total for prior years:				
3 Excess distributions carryover, if any, to 2011:				
a From 2006				
b From 2007				
c From 2008				
d From 2009				
e From 2010				
f Total of lines 3a through e				
4 Qualifying distributions for 2011 from Part XII, line 4: ► \$				
a Applied to 2010, 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 2011 distributable amount				
e Remaining amount distributed out of corpus				
5 Excess distributions carryover applied to 2011 (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 2010. Subtract line 4a from line 2a. Taxable amount - see instr.				
f Undistributed income for 2011. Subtract lines 4d and 5 from line 1. This amount must be distributed in 2012				
7 Amounts treated as distributions out of corpus to satisfy requirements imposed by section 170(b)(1)(F) or 4942(g)(3)				
8 Excess distributions carryover from 2006 not applied on line 5 or line 7				
9 Excess distributions carryover to 2012. Subtract lines 7 and 8 from line 6a				
10 Analysis of line 9:				
a Excess from 2007				
b Excess from 2008				
c Excess from 2009				
d Excess from 2010				
e Excess from 2011				

**RESEARCH CORPORATION DBA Research
Corporation for Science Advancement**

Form 990-PF (2011)

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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 2011, 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 ☒ 4942(j)(3) or ☐ 4942(j)(5)

	Tax year	Prior 3 years			(e) Total
	(a) 2011	(b) 2010	(c) 2009	(d) 2008	
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	3,654,348.	6,799,015.	4,541,715.	5,001,402.	19996480.
b 85% of line 2a	3,106,196.	5,779,163.	3,860,458.	4,251,192.	16997008.
c Qualifying distributions from Part XII, line 4 for each year listed	9,554,955.	8,047,464.	8,093,690.	8,992,995.	34689104.
d Amounts included in line 2c not used directly for active conduct of exempt activities	0.	0.	0.	0.	0.
e Qualifying distributions made directly for active conduct of exempt activities. Subtract line 2d from line 2c	9,554,955.	8,047,464.	8,093,690.	8,992,995.	34689104.
3 Complete 3a, b, or c for the alternative test relied upon:					
a "Assets" alternative test - enter:					
(1) Value of all assets	121,161,757.	139,087,454.	139,582,083.	116,865,124.	516,696,418.
(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	4,207,978.	4,532,677.	4,281,692.	4,847,460.	17869807.
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. (see instructions) to individuals or organizations under other conditions, complete items 2a, b, c, and d.

a The name, address, and telephone number 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:

See Statement 20

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.

Form 990-PF (2011)

Part XV	Supplementary Information (continued)
----------------	--

Recipient	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
Name and address (home or business)				
a <i>Paid during the year</i>				
See Attached Statements				4,980,472.
Total			▶ 3a	4,980,472.
b <i>Approved for future payment</i>				
See Attached Statements				2,185,333.
Total			▶ 3b	2,185,333.

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) of the Code (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 | | X |
| | (2) Other assets | | X |
| b | Other transactions: | | |
| | (1) Sales of assets to a noncharitable exempt organization | | X |
| | (2) Purchases of assets from a noncharitable exempt organization | | X |
| | (3) Rental of facilities, equipment, or other assets | | X |
| | (4) Reimbursement arrangements | | X |
| | (5) Loans or loan guarantees | | X |
| | (6) Performance of services or membership or fundraising solicitations | | X |
| c | Sharing of facilities, equipment, mailing lists, other assets, or paid employees | | 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. | | |

[illegible]

- 2a** Is the foundation directly or indirectly affiliated with, or related to, one or more tax-exempt organizations described in section 501(c) of the Code (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		

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  **CFO**  **10/9/12**  **CFO**

Signature of officer or trustee Date Title

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 <i>Carla J. Keegan</i>	Date <i>10/8/12</i>	Check ☐ if self-employed	PTIN <i>P00596839</i>
	Firm's name ▶ <i>Keegan, Linscott & Kenon, P.C.</i>			Firm's EIN ▶ <i>86-0750225</i>	
	Firm's address ▶ <i>33 N. Stone Avenue, Suite 1100 Tucson, AZ 85701</i>			Phone no. <i>520-884-0176</i>	

Form **990-PF** (2011)

Schedule B(Form 990, 990-EZ,
or 990-PF)Department of the Treasury
Internal Revenue Service**Schedule of Contributors**

▶ Attach to Form 990, Form 990-EZ, or Form 990-PF.

OMB No 1545-0047

2011

Name of the organization

RESEARCH CORPORATION DBA Research
Corporation for Science Advancement

Employer identification number

13-1963407

Organization type (check one):

Filers of:

Section:

Form 990 or 990-EZ

☐ 501(c)() (enter number) organization☐ 4947(a)(1) nonexempt charitable trust **not** treated as a private foundation☐ 527 political organization

Form 990-PF

☒ 501(c)(3) exempt private foundation☐ 4947(a)(1) nonexempt charitable trust treated as a private foundation☐ 501(c)(3) taxable private foundationCheck if your organization is covered by the **General Rule** or a **Special Rule**.**Note.** Only a section 501(c)(7), (8), or (10) organization can check boxes for both the General Rule and a Special Rule. See instructions**General Rule**

- ☒ For an organization filing Form 990, 990-EZ, or 990-PF that received, during the year, \$5,000 or more (in money or property) from any one contributor. Complete Parts I and II.

Special Rules

- ☐ For a section 501(c)(3) organization filing Form 990 or 990-EZ that met the 33 1/3% support test of the regulations under sections 509(a)(1) and 170(b)(1)(A)(vi) and received from any one contributor, during the year, a contribution of the greater of (1) \$5,000 or (2) 2% of the amount on (i) Form 990, Part VIII, line 1h, or (ii) Form 990-EZ, line 1. Complete Parts I and II
- ☐ For a section 501(c)(7), (8), or (10) organization filing Form 990 or 990-EZ that received from any one contributor, during the year, total contributions of more than \$1,000 for use *exclusively* for religious, charitable, scientific, literary, or educational purposes, or the prevention of cruelty to children or animals. Complete Parts I, II, and III.
- ☐ For a section 501(c)(7), (8), or (10) organization filing Form 990 or 990-EZ that received from any one contributor, during the year, contributions for use *exclusively* for religious, charitable, etc., purposes, but these contributions did not total to more than \$1,000. If this box is checked, enter here the total contributions that were received during the year for an *exclusively* religious, charitable, etc., purpose. Do not complete any of the parts unless the **General Rule** applies to this organization because it received nonexclusively religious, charitable, etc., contributions of \$5,000 or more during the year. ▶ \$ _____

Caution. An organization that is not covered by the General Rule and/or the Special Rules does not file Schedule B (Form 990, 990-EZ, or 990-PF), but it **must** answer "No" on Part IV, line 2, of its Form 990, or check the box on line H of its Form 990-EZ or on Part I, line 2 of its Form 990-PF, to certify that it does not meet the filing requirements of Schedule B (Form 990, 990-EZ, or 990-PF)

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990, 990-EZ, or 990-PF. Schedule B (Form 990, 990-EZ, or 990-PF) (2011)

Name of organization
**RESEARCH CORPORATION DBA Research
 Corporation for Science Advancement**

Employer identification number

13-1963407**Part I Contributors** (see instructions). Use duplicate copies of Part I if additional space is needed.

(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
<u>1</u>	<u>Myself Family Trust</u> <u>12650 Riverside Drive, Suite 100</u> <u>North Hollywood, CA 91607-3442</u>	\$ <u>102,622.</u>	Person ☐ Payroll ☐ Noncash ☒ (Complete Part II if there is a noncash contribution.)
<u>2</u>	<u>Thomas and Patricia Barron</u> <u>c/o Vanguard, PO Box 55766</u> <u>Boston, MA 02205-5766</u>	\$ <u>10,000.</u>	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
<u>3</u>	<u>Mesch, Clark & Rothschild, P.C.</u> <u>259 N Meyer Avenue</u> <u>Tucson, AZ 85701</u>	\$ <u>5,000.</u>	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
<u>4</u>	<u>Jim Gentile</u> <u>4703 E Camp Lowell Drive, #201</u> <u>Tucson, AZ 85712</u>	\$ <u>5,000.</u>	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
<u>5</u>	<u>Angelo, Gordon & Co.</u> <u>245 Park Avenue #26</u> <u>New York, NY 10167</u>	\$ <u>50,000.</u>	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
<u>6</u>	<u>Keegan, Linscott & Kenon, PC</u> <u>33 N Stone Avenue, #1100</u> <u>Tucson, AZ 85701</u>	\$ <u>5,000.</u>	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)

Employer identification number

13-1963407

[illegible]

Name of organization

Employer identification number

RESEARCH CORPORATION DBA Research
Corporation for Science Advancement

13-1963407

Part III

Exclusively religious, charitable, etc., individual contributions to section 501(c)(7), (8), or (10) organizations that total more than \$1,000 for the year. Complete columns (a) through (e) and the following line entry. For organizations completing Part III, enter the total of *exclusively* religious, charitable, etc., contributions of \$1,000 or less for the year. (Enter this information once) ▶ \$

Use duplicate copies of Part III if additional space is needed

(a) No. from Part I	(b) Purpose of gift	(c) Use of gift	(d) Description of how gift is held
	(e) Transfer of gift		
	Transferee's name, address, and ZIP + 4		Relationship of transferor to transferee
	(e) Transfer of gift		
	Transferee's name, address, and ZIP + 4		Relationship of transferor to transferee
	(e) Transfer of gift		
	Transferee's name, address, and ZIP + 4		Relationship of transferor to transferee
	(e) Transfer of gift		
	Transferee's name, address, and ZIP + 4		Relationship of transferor to transferee
	(e) Transfer of gift		
	Transferee's name, address, and ZIP + 4		Relationship of transferor to transferee

2011 DEPRECIATION AND AMORTIZATION REPORT

Form 990-PF Page 1

990-PF

Asset No	Description	Date Acquired	Method	Life	Conv	Line No	Unadjusted Cost Or Basis	Bus % Excl	Section 179 Expense	* Reduction In Basis	Basis For Depreciation	Beginning Accumulated Depreciation	Current Sec 179 Expense	Current Year Deduction	Ending Accumulated Depreciation
12	Furniture & Fixtures FURNITURE, FIXTURES, AND EQUIPMENT * 990-PF Pg 1 Total Furniture & Fixtures	Various	SL	5.00		16	301,879.				301,879.	301,879.		0.	301,879.
	Other														
11	TENANT IMPROVEMENTS * 990-PF Pg 1 Total Other * 990-PF Pg 1 Total - * Grand Total 990-PF Pg 1 Depr	Various	SL	10.00		16	496,312.				496,312.	381,431.		66,600.	448,031.
							496,312.				496,312.	381,431.		66,600.	448,031.
							798,191.				798,191.	683,310.		66,600.	749,910.
							798,191.				798,191.	683,310.		66,600.	749,910.

Form 990-PF	Dividends and Interest from Securities	Statement	1
Source	Gross Amount	Capital Gains Dividends	Column (A) Amount
Interest & Dividend Income	4,185,663.	0.	4,185,663.
MMA Interest	16,180.	0.	16,180.
Total to Fm 990-PF, Part I, ln 4	4,201,843.	0.	4,201,843.

Form 990-PF	Rental Income	Statement	2
Kind and Location of Property	Activity Number	Gross Rental Income	
Real estate - AG Realty Fund IV, L.P.	2	<462.>	
Real estate - AG Realty Fund V, L.P.	3	<4,037.>	
Real estate - AG Realty Fund VI, L.P.	4	261,998.	
Real estate - AG Super Fund, L.P.	5	190,145.	
Total to Form 990-PF, Part I, line 5a		447,644.	

Form 990-PF	Other Income	Statement	3
Description	(a) Revenue Per Books	(b) Net Investment Income	(c) Adjusted Net Income
Other Income	554.	554.	554.
Other Income (Loss) From K-1s	<995,693.>	<995,693.>	<995,693.>
Total to Form 990-PF, Part I, line 11	<995,139.>	<995,139.>	<995,139.>

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	37,940.	0.	0.	37,940.	
To Fm 990-PF, Pg 1, ln 16a	37,940.	0.	0.	37,940.	

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 AND TAX FEES	51,588.	25,794.	0.	25,794.	
To Form 990-PF, Pg 1, ln 16b	51,588.	25,794.	0.	25,794.	

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	
CONSULTING	1,020,833.	50,000.	0.	970,833.	
To Form 990-PF, Pg 1, ln 16c	1,020,833.	50,000.	0.	970,833.	

Form 990-PF	Taxes			Statement	7
Description	(a) Expenses Per Books	(b) Net Invest- ment Income	(c) Adjusted Net Income	(d) Charitable Purposes	
FICA AND STATE UNEMPLOYMENT	88,052.	0.	0.	78,050.	
UBI TAXES	170,735.	0.	0.	0.	
OTHER TAXES	<300,000.>	0.	0.	0.	
To Form 990-PF, Pg 1, ln 18	<41,213.>	0.	0.	78,050.	

Form 990-PF	Other Expenses			Statement	8
Description	(a) Expenses Per Books	(b) Net Invest- ment Income	(c) Adjusted Net Income	(d) Charitable Purposes	
ADVERTISING	71,268.	0.	0.	71,268.	
MISCELLANEOUS	73,102.	0.	0.	73,102.	
OFFICE SUPPLIES	49,193.	0.	0.	49,193.	
COMPUTER-RELATED EXPENSES	80,457.	0.	0.	80,457.	
INSURANCE	29,648.	0.	0.	29,648.	
INVESTMENT EXPENSES	178,149.	178,149.	0.	0.	
POSTAGE AND SHIPPING	8,112.	0.	0.	8,112.	
PROGRAM RELATED EXPENSES	46,237.	0.	0.	46,237.	
LOCAL BUSINESS MEETINGS	5,633.	0.	0.	5,633.	
FUNDRAISING EXPENSES	2,864.	0.	0.	0.	
TELEPHONE	26,920.	0.	0.	26,920.	
ACCRUAL-TO-CASH ADJUSTMENT	0.	0.	0.	28,311.	
To Form 990-PF, Pg 1, ln 23	571,583.	178,149.	0.	418,881.	

Form 990-PF	Other Decreases in Net Assets or Fund Balances	Statement	9
Description		Amount	
NET UNREALIZED GAIN ON INVESTMENTS		7,983,713.	
BOOK/TAX DIFFERENCES FROM SCHEDULE K-1'S		1,162,587.	
Total to Form 990-PF, Part III, line 5		9,146,300.	

Form 990-PF	Corporate Stock	Statement	10
Description	Book Value	Fair Market Value	
CGT INVESTMENTS	57,539,734.	57,539,734.	
Total to Form 990-PF, Part II, line 10b	57,539,734.	57,539,734.	

Form 990-PF	Other Investments	Statement	11
Description	Valuation Method	Book Value	Fair Market Value
PORTFOLIO INVESTMENTS	FMV	46,054,322.	46,054,322.
MONEY MARKET MUTUAL FUND	FMV	0.	0.
PIMCO INVESTMENTS	FMV	19,994,535.	19,994,535.
Total to Form 990-PF, Part II, line 13		66,048,857.	66,048,857.

Form 990-PF	Depreciation of Assets Not Held for Investment	Statement	12
Description	Cost or Other Basis	Accumulated Depreciation	Book Value
TENANT IMPROVEMENTS	496,312.	448,031.	48,281.
FURNITURE, FIXTURES, AND EQUIPMENT	301,879.	301,879.	0.
Total To Fm 990-PF, Part II, ln 14	798,191.	749,910.	48,281.

Form 990-PF	Other Assets	Statement	13
Description	Beginning of Yr Book Value	End of Year Book Value	Fair Market Value
DIVIDENDS AND INTEREST REC.	140,793.	165,061.	165,061.
OTHER ASSETS	283,196.	274,224.	274,224.
To Form 990-PF, Part II, line 15	423,989.	439,285.	439,285.

Form 990-PF	Other Liabilities	Statement	14
Description	BOY Amount	EOY Amount	
POSTRETIREMENT PENSION LIABILITY	1,098,984.	1,070,110.	
PENSION LIABILITY	1,013,958.	1,574,059.	
LBT LIABILITY	1,416,094.	1,383,859.	
LSST LIABILITY	50,000.	25,000.	
Total to Form 990-PF, Part II, line 22	3,579,036.	4,053,028.	

Form 990-PF Part VIII - List of Officers, Directors Statement 15
 Trustees and Foundation Managers

Name and Address	Title and Avrg Hrs/Wk	Compen- sation	Employee Ben Plan Expense Contrib Account	
MR. JAMES M. GENTILE 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	PRESIDENT AND BOARD MEMBER 40.00	276,475.	75,000.	24,000.
MR. DANIEL GASCH 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	CHIEF FINANCIAL OFFICER 40.00	188,725.	40,000.	17,988.
DR. MARTHA GILLILAND 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	VICE PRESIDENT 32.00	120,075.	4,447.	8,895.
MS. SUZANNE D. JAFFE 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	TREASURER AND BOARD MEMBER 3.00	0.	0.	0.
DR. GAYLE P.W. JACKSON 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	CHAIRMAN OF THE BOARD 4.00	0.	0.	0.
MS. PATRICIA C. BARRON 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	BOARD MEMBER 2.00	0.	0.	0.
MR. SCOTT CLEMONS 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	BOARD MEMBER 2.00	0.	0.	0.
DR. STUART CRAMPTON 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	BOARD MEMBER 2.00	0.	0.	0.
DR. PETER K. DORHOUT 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	BOARD MEMBER 2.00	0.	0.	0.
MR. ROBERT HOLLAND, JR. 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	BOARD MEMBER 2.00	0.	0.	0.
DR. ROBERT B. HALLOCK 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	SECRETARY AND BOARD MEMBER 2.00	0.	0.	0.

DR. BRENT IVERSON 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	BOARD MEMBER 2.00	0.	0.	0.
MR. SETH LEDERMAN 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	BOARD MEMBER 2.00	0.	0.	0.
DR. ELIZABETH MCCORMICK 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	BOARD MEMBER 2.00	0.	0.	0.
DR. PATRICK S. OSMER 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	BOARD MEMBER 2.00	0.	0.	0.

Totals included on 990-PF, Page 6, Part VIII

585,275.	119,447.	50,883.
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STATEMENT 16

Research Corporation
EIN: 13-1963407

Form 990-PF, Part IV, Capital Gains and Losses for Tax on Investment Income

Type of Property Sold	How Acquired	Gain or Loss	Character of Gain (Loss) and Holding Period
CG Global Equity Fund	K-1 FLOW THROUGH	\$ (199,437 00)	Short-Term Capital Gain
CG Global Equity Fund	K-1 FLOW THROUGH	4,159,616 00	Long-Term Capital Gain
AG Capital Recovery Partners VI, L P.	K-1 FLOW THROUGH	(19,142 00)	Short-Term Capital Gain
AG Capital Recovery Partners VI, L P.	K-1 FLOW THROUGH	169,414 00	Long-Term Capital Gain
AG Realty Fund IV, L P	K-1 FLOW THROUGH	2,476 00	Long-Term Capital Gain
AG Realty Fund V, L P	K-1 FLOW THROUGH	(12,985 00)	Long-Term Capital Gain
AG Realty Fund VI, L P	K-1 FLOW THROUGH	(406,203 00)	Short-Term Capital Gain
AG Realty Fund VI, L P	K-1 FLOW THROUGH	(291,729 00)	Long-Term Capital Gain
Emerging Markets Growth Fund	RC Reconciliation	176,853 00	Short-Term Capital Gain
Emerging Markets Growth Fund	RC Reconciliation	383,181 00	Long-Term Capital Gain
PIMCO Global Advantage Strat Bond Inst	December Statement	7,221 70	Long-Term Capital Gain

Capital Gain Net Income or (Net Capital Loss) \$ 3,969,265 70 **Form 990-PF, Part IV, Line 2**

Net short-term capital gain or (loss) as defined
in IRC Sec 1225(5) and (6) \$ (447,929 00) **Form 990-PF, Part IV, Line 3**

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<u>Date</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
Charitable contributions			
01/01/2011	American Express Company	Chemical Hentage Fdn	1,000 00
01/05/2011	Metropolitan Eduction Commission	Key to Emp workshop sponsorship CC 2011	500 00
01/05/2011	Jewish Community Foundation of So AZ	Zuckerman Luncheon 1/18/11	500 00
01/05/2011	Community Food Bank	2011 CC	500 00
01/05/2011	SciEn Tek- 12	SARSEF 2011 support	1,000 00
01/05/2011	Tucson Children's Museum	2011 CC	500 00
01/12/2011	Community Food Bank	2011 CC	2,500 00
01/12/2011	American Red Cross	in support of G Guffordspo	2,500 00
02/16/2011	Tucson Festival of Books	2011 Fest of Books	5,000 00
03/24/2011	American Express Company	PCOA Gala - 04/16/11	600 00
03/30/2011	Carondelet Foundation	Annual dinner table sponsorship	1,500 00
03/31/2011	United Way of Tucson	Q1 UW match	1,390 00
04/07/2011	Hartwick College Scholarship Fund	in memory of J W Johnstone	1,000 00
04/07/2011	YMCA of Metropolitan Tucson	2011 char Gift	500 00
04/13/2011	Pima Council on Aging	2011 Copper Sponsor CC Gala Sponsorship	900 00
04/20/2011	Arizona Sonora Desert Museum	2011 Gala and donation	2,500 00
05/25/2011	San Miguel Christo Rey	2011 CC	500 00
06/21/2011	Tucson Values Teachers	2011 CC	1,000 00
08/02/2011	Angel Chanty for Children, Inc	2011 CC	5,000 00
08/03/2011	United Way of Tucson	Corporate Match thru 07/31/11	618 84
08/12/2011	Aladdin Graphics on Apparel	gift of t-shirts to Wright Elementary School	2,851 50
08/22/2011	UA Foundation/DRC	Jim Click Run N Roll Sponsor2011	1,500 00
09/01/2011	Educational Ennchment Foundation	2011 donation/full-page ad	500 00
09/07/2011	Aladdin Graphics on Apparel	gift of t-shirts to Wright Elementary School	349 50
12/08/2011	United Way of Tucson	Corporate Match thru 12/31/11	591 20
12/08/2011	United Way of Tucson	Accrue December withholdings	491 58
12/08/2011	United Way of Tucson	to reverse accrual of pledge for Dec 11	-491 58
12/08/2011	American Express Company	TMC FDN Gala Tickets	500 00
12/16/2011	American Express Company	charitable - New Beginningas	150 00
12/21/2011	San Miguel Christo Rey	2011 CC	1,250 00
12/21/2011	Pima Council on Aging	2012 Copper Sponsor CC Gala Sponsorship	1,500 00
12/21/2011	Chemical Hentage Foundation	2011 cc	1,000 00
12/21/2011	Habitat for Humanity	2011 donation	550 00
Total Chantable contributions			<u>40,251 04</u>
Total General & Administrative			<u>40,251 04</u>
TOTAL			<u><u>40,251.04</u></u>

Fiscal Year 2011

Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
American Physical Society	\$9,427.00	\$0.00	\$0.00	\$0.00	\$9,427.00
One Physics Ellipse					
College Park, MD 20740-3844					
<i>Edward A. Bouchet Lectureship</i>					
<i>Award, 2003-2007</i>					
\$40,000.00					
12/31/2002 5156					
American Institute of Physics	\$34,000.00	\$0.00	(\$34,000.00)	\$0.00	\$0.00
One Physics Ellipse					
College Park, MD 20740					
<i>Funding to support travel of Nobel</i>					
<i>Laureates in chemistry and physics to</i>					
<i>minority serving institutions (MSIs)</i>					
\$16,000.00					
6/30/2006 6798					
West Virginia University	\$0.00	\$0.00	(\$4,920.00)	(\$4,920.00)	\$0.00
P.O. Box 6315, 209 Hodges Hall					
Morgantown, WV 26506					
<i>Magneto-electronic Phenomena in</i>					
<i>Nanostructures</i>					
\$95,080.00					
5/1/2008 7444					
Towson University	\$21,609.00	\$0.00	\$0.00	\$21,609.00	\$0.00
8000 York Road					
Towson, MD 21252					
<i>Phosphanyl(organyl)boranes:</i>					
<i>Synthesis, Characterization and</i>					
<i>Applications as Novel Ligands and Co-</i>					
<i>Catalysts in Metal-Catalyzed</i>					
\$43,003.00					
5/1/2008 7820					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Calvin College	\$17,592.00	\$0.00	\$0.00	\$17,592.00	\$0.00
3201 Burton St. SE					
Grand Rapids, MI 49546					
<i>Identifying the Role of Aromatic Networks in Amyloid Protofibril Formation and Anti-Alzheimer's</i>					
\$42,225.00					
11/1/2008 7916					
University of San Diego	\$94,645.00	\$0.00	\$0.00	\$0.00	\$94,645.00
5998 Alcala Park					
San Diego, CA 92110-2492					
<i>Department Development Award</i>					
\$496,730.00					
3/20/2008 7956					
James Madison University	\$94,000.00	\$0.00	\$0.00	\$0.00	\$94,000.00
800 South Main St.					
Harrisonburg, VA 22807					
<i>Department Development Award</i>					
\$500,000.00					
3/20/2008 7957					
American Physical Society	\$13,941.61	\$0.00	\$0.00	\$11,350.30	\$2,591.31
One Physics Ellipse					
College Park, MD 20740-3844					
<i>Research Corporation Prize to a Faculty Member for Research at an Undergraduate Institution (2007-</i>					
\$58,000.00					
3/24/2008 7958					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Columbia University 3000 Broadway New York, NY 10027 <i>Achieving Synthetic Control When Nature Abandons Selectivity: Total Synthesis of Oligomeric Natural</i> \$100,000.00 5/1/2009 10313	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$0.00
Indiana University at Bloomington 107 South Indiana Avenue Bloomington, IN 47405 <i>Instrumentation and Development of New Techniques for Measuring Molecular Recognition with Ion</i> \$100,000.00 5/1/2009 10332	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$0.00
Northeastern University 360 Huntington Avenue Boston, MA 02115 <i>At the Interface of Chemistry and Biology: Integrating teaching and research on mutagenic DNA</i> \$100,000.00 5/1/2009 10339	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$0.00
West Virginia University P.O. Box 6315, 209 Hodges Hall Morgantown, WV 26506 <i>Bursts, flickers and cosmic flashers -- exploring the transient radio sky</i> \$100,000.00 5/1/2009 10363	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of California, Riverside 900 University Avenue Riverside, CA 92521-4009 <i>Self-Assembly of Superparamagnetic Colloids to Field-Responsive Photonic Crystals</i>	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$0.00
\$100,000.00 5/1/2009 10374					
University of Chicago 5801 S. Ellis Avenue Chicago, IL 60637 <i>The Second Red-Sequence Cluster Survey:</i>	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$0.00
\$100,000.00 5/1/2009 10376					
University of Wisconsin, Madison 500 Lincoln Drive Madison, WI 53706 <i>The dynamic interstellar medium: confluence of observations and numerical simulations</i>	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$0.00
\$100,000.00 5/1/2009 10405					
University of Wisconsin, Madison 500 Lincoln Drive Madison, WI 53706 <i>Noise and Cooperative Phenomena in Amorphous Dielectric and Magnetic Systems</i>	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$0.00
\$100,000.00 5/1/2009 10410					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
West Virginia University P.O. Box 6315, 209 Hodges Hall Morgantown, WV 26506 <i>Detecting Gravitational Waves Using Pulsar Timing: Drift-Scan Searches for Millisecond Pulsars</i> \$100,000.00	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$0.00
5/1/2009 10415					
University of Vermont 340 Waterman Building Burlington, VT 05405 <i>Catalytic Methods to Low-Valent Phosphorus</i> \$100,000.00	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$0.00
5/1/2009 10419					
Canisius College 2001 Main Street Buffalo, NY 14208- <i>In-medium Properties of the rho, omega, and phi Mesons at Jefferson</i> \$42,500.00	\$18,110.00	\$0.00	\$0.00	\$18,110.00	\$0.00
11/1/2009 10462					
College of Charleston 66 George Street Charleston, SC 29424 <i>Determination of the Secondary Structures Adopted by Small Gas Phase Peptides and Peptidomimetics through Torsion-Rotation Interactions</i> \$45,000.00	\$17,500.00	\$0.00	\$0.00	\$0.00	\$17,500.00
5/1/2009 10573					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Davidson College	\$14,268.00	\$0.00	\$0.00	\$14,268.00	\$0.00
...					
Davidson, NC 28035- <i>Folding and Misfolding of Myelin</i> <i>Protein Zero Mutants Implicated in</i> <i>Peripheral Neuropathy</i> \$44,536.00					
5/1/2009 10601					
Towson University	\$17,126.00	\$0.00	\$0.00	\$17,126.00	\$0.00
8000 York Road Towson, MD 21252 <i>A Chromatographic Phage-Display</i> <i>Technique for Identifying Peptides</i> <i>that Inhibit Calcium Oxalate</i> <i>Monohydrate Crystal Growth</i> \$44,100.00					
5/1/2009 10633					
University of Hawaii at Hilo	\$17,780.00	\$0.00	\$0.00	\$17,780.00	\$0.00
200 Kawili Street Hilo, HI 96720 <i>Extinction and Star Formation Rate</i> <i>Maps in Nearby Galaxies</i> \$42,056.00					
5/1/2009 10650					
California State University, Northridge	\$17,533.00	\$0.00	\$0.00	\$17,533.00	\$0.00
18111 Nordhoff Street Northridge, CA 91330 <i>Semiconducting nanosolids: new route</i> <i>to solar energy conversion</i> \$35,066.00					
11/1/2009 10688					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
American University 4400 Massachusetts Avenue, NW Washington, DC 20016-8003 <i>Knowledge-based redesign of enzymes to identify substrate specificity</i> \$44,993.00	\$20,784.00	\$0.00	\$0.00	\$20,784.00	\$0.00
11/1/2009 10701					
University of Colorado, Colorado 1420 Austin Bluffs Parkway Colorado Springs, CO 80933 <i>Mechanistic studies of ligand inhibition of hexokinase isozymes using computational and experimental</i> \$45,000.00	\$20,600.00	\$0.00	\$0.00	\$20,600.00	\$0.00
11/1/2009 10705					
James Madison University 800 South Main St. Harrisonburg, VA 22807 <i>Polycephalic (Multi-Headed) Cationic Amphiphiles as Novel Surfactants and Antimicrobial Agents</i> \$100,000.00	\$40,000.00	\$0.00	\$0.00	\$40,000.00	\$0.00
11/1/2009 10709					
University of Alaska, Anchorage 3211 Providence Drive Anchorage, AK 99508 <i>Dynamics of Protein Hydrophobic Cores by Deuteron Solid-State NMR</i> \$38,036.00	\$18,268.00	\$0.00	\$0.00	\$18,268.00	\$0.00
11/1/2009 10714					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
California State University, Northridge 18111 Nordhoff Street Northridge, CA 91330 <i>Mesoscopic Ion Transport in Graphene Nanopores</i> \$34,984.00 11/1/2009 10718	\$17,492.00	\$0.00	\$0.00	\$17,492.00	\$0.00
Hendrix College 1600 Washington Conway, AR 72032-3080 <i>Heterogeneous processing of mineral aerosol by reactive gases in the Earth's atmosphere: A combined laboratory and modeling study</i> \$45,000.00 11/1/2009 10725	\$3,445.00	\$0.00	\$0.00	\$3,445.00	\$0.00
Pepperdine University 24255 Pacific Coast Highway Malibu, CA 90263-0001 <i>Synthesis of Complexes with #61472; b-Ketoiminates bearing Pendant Nitrogen Donors as Promising Catalysts for Preparing</i> \$31,348.00 11/1/2009 10728	\$12,774.00	\$0.00	\$0.00	\$12,774.00	\$0.00
Southern Illinois University, Edwardsville, IL 62026 <i>Reductive Transformation of Organic Sulfoxides by Iron Oxides and Reduced Organic Matter</i> \$23,250.00 11/1/2009 10729	\$21,750.00	\$0.00	(\$21,750.00)	\$0.00	\$0.00

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Harvey Mudd College 301 E. 12th Street Claremont, CA 91711 <i>Variation in secondary metabolite chemistry among cryptic species of the soft coral Sarcophyton, a source of bioactive cembranoids</i> \$75,000.00 11/1/2009 10737	\$25,000.00	\$0.00	\$0.00	\$25,000.00	\$0.00
Eastern Illinois University 600 Lincoln Avenue Charleston, IL 61920 <i>Biomass Conversion: Proteomic Identification of Glycoside Hydrolases from Caulobacter crescentus</i> \$41,175.00 11/1/2009 10754	\$15,872.00	\$0.00	\$0.00	\$15,872.00	\$0.00
Fairfield University 1073 North Benson Road Fairfield, CT 06824-5195 <i>Multimodal monitoring of oxidative stress, proliferation and cell death with light: the role of peroxiredoxins</i> \$75,000.00 11/1/2009 10756	\$25,000.00	\$0.00	\$0.00	\$25,000.00	\$0.00
Kalamazoo College 1200 Academy Street Kalamazoo, MI 49006 <i>Determination of Gamow-Teller Strength Distributions and Electron Capture Rates for Nuclei (A~40-65) in Pre-supernova Stars</i> \$41,748.00 11/1/2009 10760	\$12,374.00	\$0.00	\$0.00	\$12,374.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Mount Holyoke College 50 College Street South Hadley, MA 01075 <i>Graph theoretic methods to find conduction pathways through grain</i> \$75,000.00 11/1/2009 10765	\$25,000.00	\$0.00	\$0.00	\$0.00	\$25,000.00
Texas State University, San Marcos 601 University Dr. San Marcos, TX 78666 <i>Chemistry and Physics of n-Doping Electroactive Polymers: Computationally Directed Synthesis for Improved Performance</i> \$100,000.00 11/1/2009 10775	\$40,000.00	\$0.00	\$0.00	\$40,000.00	\$0.00
Williams College 880 Main St Williamstown, MA 01267- <i>Combinatorial Approaches to the Discovery and Systematic Study of Atom Transfer Radical Polymerization</i> \$44,952.00 11/1/2009 10776	\$18,576.00	\$0.00	\$0.00	\$18,576.00	\$0.00
University of Missouri-Kansas City 5100 Rockhill Road Kansas City, MO 64110 <i>Catching Galaxy Evolution in the Act: Mining the SDSS for New Merger- formed Spheroid Galaxies</i> \$42,988.00 11/1/2009 10777	\$21,494.00	\$0.00	\$0.00	\$21,494.00	\$0.00

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Western Washington University 516 High Street Bellingham, WA 98225 <i>Deciphering the Roles of the Ribosomal Translocases in the Regulation of Translation</i> \$44,661.00 11/1/2009 10786	\$12,842.00	\$0.00	\$0.00	\$12,842.00	\$0.00
Western Washington University 516 High Street Bellingham, WA 98225 <i>Protonation/Reduction of Dinitrogen by Fe Complexes Utilizing Ligands Containing H-Bond Directors in the Secondary Coordination Sphere</i> \$44,960.00 11/1/2009 10787	\$12,042.00	\$0.00	\$0.00	\$12,042.00	\$0.00
Denison University 100 W. College Street Granville, OH 43023-1359 <i>Development of Modular Organic Columnar Liquid Crystals as Robust Sensitizers in Low-Cost Solar Cells</i> \$41,682.00 11/1/2009 10792	\$16,341.00	\$0.00	\$0.00	\$16,341.00	\$0.00
Macalester College 1600 Grand Avenue St. Paul, MN 55105 <i>Combining Organic Synthesis and Biochemistry to Study Siderophore Biosynthesis in Fungi</i> \$75,000.00 11/1/2009 10800	\$25,000.00	\$0.00	\$0.00	\$25,000.00	\$0.00

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Marshall University	\$21,377.00	\$0.00	\$0.00	\$21,377.00	\$0.00
One John Marshall Drive					
Huntington, WV 25755					
<i>Characterization of Radical</i>					
<i>Intermediates in the C2H3 + O2</i>					
\$43,954.00					
11/1/2009 10801					
Vassar College	\$25,000.00	\$0.00	\$0.00	\$25,000.00	\$0.00
124 Raymond Ave					
Poughkeepsie, NY 12601					
<i>Understanding Coral Bleaching:</i>					
<i>Effects of Thermal Stress on the</i>					
<i>Proteome and Lipidome of Symbiotic</i>					
\$75,000.00					
11/1/2009 10809					
Illinois State University	\$1,500.00	\$0.00	\$0.00	\$1,500.00	\$0.00
Campus Box 8000					
Normal, IL 61790-8000					
<i>On-Site Monitoring of Emerging</i>					
<i>Environmental Contaminants with</i>					
<i>Ambient Mass Spectrometry</i>					
\$43,950.00					
11/1/2009 10815					
DePaul University	\$8,074.00	\$0.00	\$0.00	\$8,074.00	\$0.00
25 E. Jackson Boulevard					
Chicago, IL 60604					
<i>Transient Strain Generated by the</i>					
<i>Momentum of Light</i>					
\$33,877.00					
11/1/2009 10819					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Salisbury University	\$20,859.00	\$0.00	\$0.00	\$20,859.00	\$0.00
1101 Camden Avenue					
Salisbury, MD 21801-6837					
<i>Synthesis of decahydroquinolines by inverse electron demand controlled intramolecular Diels-Alder reactions of oxazolium ions</i>					
\$44,718.00					
11/1/2009 10827					
Central Washington University	\$17,000.00	\$0.00	\$0.00	\$17,000.00	\$0.00
400 East University Way					
Ellensburg, WA 98926					
<i>Systematic Identification of Protein- Protein Interactions Mediating Induction of Functional Areas in</i>					
\$35,000.00					
5/1/2010 19482					
University of Utah	\$125,000.00	\$0.00	\$0.00	\$125,000.00	\$0.00
2020 Henry Eyring Building					
Salt Lake City, UT 84112					
<i>Nanoplasmonic focusing of light fields to amplify non-linear optical effects in composite photovoltaics</i>					
\$250,000.00					
5/15/2010 19489					
University of California, Irvine	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$0.00
300 University Tower					
Irvine, CA 92697-0001					
<i>Molecular Approach to Converting Solar Energy into Chemical Fuel</i>					
\$100,000.00					
5/15/2010 19593					

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Boston University One Sherborn Street Boston, MA 02215 <i>Transforming heme proteins into solar driven redox catalysts by site-directed zinc porphyrin mutation</i> \$100,000.00 5/15/2010 19608	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$0.00
Emory University 201 Dowman Dr Atlanta, GA 30322 <i>Directed evolution of hydrogenase for efficient light-driven hydrogen production via quantum dot-enzyme</i> \$100,000.00 5/15/2010 19611	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$0.00
Indiana University at Bloomington 107 South Indiana Avenue Bloomington, IN 47405 <i>Towards Converting CO2 to Fuel. A Computer-Aided Experimental Discovery of Novel CO2 Reduction</i> \$100,000.00 5/15/2010 19612	\$50,000.00	\$0.00	\$0.00	\$0.00	\$50,000.00
Pennsylvania State University, 201 Old Main University Park, PA 16802 <i>New Chemical Routes for Discovering and Improving Visible-Light</i> \$100,000.00 5/15/2010 19616	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Pennsylvania State University, 201 Old Main University Park, PA 16802 <i>Synthesis and Characterization of Core-Shell Wire Heterostructures</i> \$100,000.00 5/15/2010 19641	\$50,000.00	\$0.00	\$0.00	\$0.00	\$50,000.00
North Carolina State University 2620 Yarbrough Drive Raleigh, NC 27695 <i>Molecular-Level Design of Metal- Oxyfluoride/Organic Solids for Visible- Light Photocatalysis</i> \$100,000.00 5/15/2010 19651	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$0.00
Vanderbilt University 2201 West End Avenue Nashville, TN 37240 <i>Biologically Optimized Protein Films for Solar Energy Conversion</i> \$100,000.00 5/15/2010 19657	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$0.00
Case Western Reserve University 10900 Euclid Avenue Cleveland, OH 44106 <i>Overcoming Shockley-Queisser Limit on PV Solar-Energy Conversion Efficiency. Multiple Exciton Generation in One-Dimensional Nanostructures</i> \$100,000.00 5/15/2010 19666	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of California, Davis One Shields Avenue Davis, CA 95616 <i>Bottom-Up Assembly of Nanoscale Heterojunctions for Photochemical Energy Conversion</i> \$100,000.00 5/15/2010 19667	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$0.00
Santa Clara University 500 El Camino Real Santa Clara, CA 95053 <i>Efficient Identification of Protein</i> \$35,000.00 5/1/2010 19705	\$17,500.00	\$0.00	\$0.00	\$17,500.00	\$0.00
James Madison University 800 South Main St. Harrisonburg, VA 22807 <i>Radial structure and composition of mantle plumes: Implications from seismic discontinuities and travel-</i> \$35,000.00 5/1/2010 19722	\$15,609.00	\$0.00	\$0.00	\$15,609.00	\$0.00
Cal Poly, San Luis Obispo 1 Grand Avenue San Luis Obispo, CA 93407 <i>Incorporation of Latent Cysteine-Like Residues for the Development Novel Coupling Chemistry</i> \$35,000.00 5/1/2010 19724	\$17,215.00	\$0.00	\$0.00	\$17,215.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of Puerto Rico, Mayaguez PO Box 9000 Mayaguez, PR 00681-5000 <i>Dynamics Electron Transport in Nanoscale Structures: Modeling Nanoscale Capacitance</i> \$35,000.00 5/1/2010 19728	\$7,500.00	\$0.00	\$0.00	\$7,500.00	\$0.00
Elizabethtown College 1 Alpha Drive Elizabethtown, PA 17022 <i>Solvent and Temperature Effects on the Structure and Luminescent Properties of Metal Phosphinates.</i> \$35,000.00 5/1/2010 19730	\$13,500.00	\$0.00	\$0.00	\$13,500.00	\$0.00
California State University, Fullerton P.O. Box 34080 Fullerton, CA 92834-6850 <i>Bacterial Mn(II) oxidation and its role in oxidative protection</i> \$35,000.00 5/1/2010 19735	\$17,500.00	\$0.00	\$0.00	\$17,500.00	\$0.00
Occidental College 1600 Campus Road Los Angeles, CA 90041 <i>Targeting sulfated ligands to unnatural amino acids on virus platforms for generation of polyvalent nanoparticles with heparin-like</i> \$35,000.00 5/1/2010 19745	\$15,574.00	\$0.00	\$0.00	\$15,574.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Saint John's University	\$15,000.00	\$0.00	\$0.00	\$15,000.00	\$0.00
Grand Central & Utopia Parkways					
Queens, NY 11439					
<i>Light-control Tunable Bio-adhesion at</i>					
<i>Photo-/thermoreponsive</i>					
<i>Micropatterned Polymer Film inside</i>					
\$35,000.00					
5/1/2010 19746					
Hamilton College	\$15,609.00	\$0.00	\$0.00	\$15,609.00	\$0.00
198 College Hill Road					
Clinton, NY 13323-1218					
<i>Accurate Evaluation of Association</i>					
<i>Rate Constants of Influenza</i>					
<i>Neuraminidase Inhibitors</i>					
\$35,000.00					
5/1/2010 19748					
Gettysburg College	\$17,500.00	\$0.00	\$0.00	\$17,500.00	\$0.00
300 N. Washington Street					
Gettysburg, PA 17325					
<i>Transition Metal-Catalyzed</i>					
<i>Oxidations of Organic Molecules</i>					
<i>without Traditional Oxidants</i>					
\$35,000.00					
5/1/2010 19750					
University of Dayton	\$17,426.00	\$0.00	\$0.00	\$17,426.00	\$0.00
300 College Park Ave					
Dayton, OH 45469					
<i>Development of novel antibacterial</i>					
<i>compounds to target bacterial DNA</i>					
<i>replication restart pathways</i>					
\$35,000.00					
5/1/2010 19756					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Eastern Illinois University 600 Lincoln Avenue Charleston, IL 61920 <i>Quantum memory and Information processing using multi-level Electromagnetically Induced Transparency system</i> \$35,000.00 5/1/2010 19760	\$11,500.00	\$0.00	\$0.00	\$11,500.00	\$0.00
California State University, Long Beach 1250 Bellflower Blvd. Long Beach, CA 90840 <i>Design, Synthesis and Physical Properties of Some Novel</i> \$35,000.00 5/1/2010 19761	\$17,158.00	\$0.00	\$0.00	\$17,158.00	\$0.00
Barry University 11300 NE 2nd Avenue Miami, FL 33161 <i>Solid-State Synthesis of Porphyrins and Construction of Porphyrin-Walled Metal-Organic Polyhedra</i> \$35,000.00 5/1/2010 19762	\$16,375.00	\$0.00	\$0.00	\$16,375.00	\$0.00
Whitman College 345 Boyer Ave Walla Walla, WA 99362 <i>Structure-Based Design and Synthesis of Binodal Proteasome Inhibitors as Therapeutic Agents</i> \$35,000.00 5/1/2010 19763	\$18,134.00	\$0.00	\$0.00	\$18,134.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Hamilton College 198 College Hill Road Clinton, NY 13323-1218 <i>The Synthesis and Evaluation of Carbohydrate-Porphyrin Conjugates as Asymmetric Catalysts</i> \$35,000.00 5/1/2010 19765	\$17,500.00	\$0.00	\$0.00	\$0.00	\$17,500.00
Cal Poly, San Luis Obispo 1 Grand Avenue San Luis Obispo, CA 93407 <i>Discovery of Helicobacter Pylori Aldo- Keto Reductase Inhibitors</i> \$35,000.00 5/1/2010 19769	\$14,759.00	\$0.00	\$0.00	\$14,759.00	\$0.00
Texas State University, San Marcos 601 University Dr. San Marcos, TX 78666 <i>Immobilization of Ionic Liquids Using Layered Materials</i> \$35,000.00 5/1/2010 19770	\$17,500.00	\$0.00	\$0.00	\$0.00	\$17,500.00
Pennsylvania State University, Erie - Behrend College Station Road Erie, PA 16563 <i>Fundamental Investigation of Electrocatalytic Materials to Promote the Preferential Oxidation of H2S Over Interfering Gasotransmitters</i> \$35,000.00 5/1/2010 19772	\$13,241.00	\$0.00	\$0.00	\$13,241.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
La Sierra University 4500 Riverwalk Pkwy Riverside, CA 92515-8247 <i>Analysis of Highly Excited Vibrational-Rotational States of Small Polyatomic Molecules in Terms of Classical Relative Equilibria</i>	\$14,103.00	\$0.00	\$0.00	\$14,103.00	\$0.00
\$35,000.00 5/1/2010 19784					
Harvey Mudd College 301 E. 12th Street Claremont, CA 91711 <i>A Mathematical and Experimental Study of Surfactant Spreading on Thin</i>	\$15,810.00	\$0.00	\$0.00	\$15,810.00	\$0.00
\$35,000.00 5/1/2010 19788					
Western Washington University 516 High Street Bellingham, WA 98225 <i>Probing Dark Energy and Galaxy Cluster Evolution with Optical</i>	\$16,100.00	\$0.00	\$0.00	\$16,100.00	\$0.00
\$35,000.00 5/1/2010 19790					
Angelo State University 2601 West Ave N San Angelo, TX 76909 <i>Novel Selenocysteine Insertion System for Protein Labeling and Human Selenoprotein Expression</i>	\$12,474.00	\$0.00	\$0.00	\$12,474.00	\$0.00
\$35,000.00 5/1/2010 19796					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
United States Naval Academy 589 McNair Rd. Annapolis, MD 21402 <i>Characterization of Lipopolysaccharide (Endotoxin) in</i> \$35,000.00 5/1/2010 19799	\$13,500.00	\$0.00	\$0.00	\$13,500.00	\$0.00
Towson University 8000 York Road Towson, MD 21252 <i>Probing Many-Body Physics in Graphene Devices Using Micro-</i> \$35,000.00 5/1/2010 19800	\$12,342.00	\$0.00	\$0.00	\$0.00	\$12,342.00
California State University, Long Beach 1250 Bellflower Blvd. Long Beach, CA 90840 <i>Nanoscale Surface Plasmon Polariton Local Excitation and Focusing by Near-field Microscopy for High Efficiency Organic Photovoltaics</i> \$35,000.00 5/1/2010 19802	\$17,158.00	\$0.00	\$0.00	\$17,158.00	\$0.00
William Paterson University 300 Pompton Road Wayne, NJ 07470 <i>Leveraging Protein Homology for Rapid and Robust Molecular Dynamics Calculations</i> \$35,000.00 5/1/2010 19803	\$17,900.00	\$0.00	\$0.00	\$17,900.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of San Francisco 2130 Fulton Street San Francisco, CA 94117 <i>The Effects of Helium Reionization in the Early Universe</i> \$35,000.00 5/1/2010 19805	\$17,500.00	\$0.00	\$0.00	\$17,500.00	\$0.00
Loyola University of Chicago 1032 W. Sheridan Rd Chicago, IL 60660 <i>Development and Application of Hydrodynamic Models for Granular</i> \$35,000.00 5/1/2010 19815	\$13,500.00	\$0.00	\$0.00	\$13,500.00	\$0.00
California State University, Chico 400 West First Street Chico, CA 95929-0210 <i>Electronic and Geometric Characterization of Metal-Free and Metal-Bound Sulfur Radicals</i> \$35,000.00 5/1/2010 19816	\$8,268.00	\$0.00	\$0.00	\$8,268.00	\$0.00
Denison University 100 W. College Street Granville, OH 43023-1359 <i>Water transport in a hydrophobic layer: ATR-IR spectroscopy studies of water movement in films of plant cuticular wax components</i> \$35,000.00 5/1/2010 19817	\$11,250.00	\$0.00	\$0.00	\$11,250.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Western Carolina University University Way Cullowhee, NC 28723 <i>Synthesis and characterization of silver core-dielectric spacer-metal shell nanoparticles and their application to surface enhanced</i> · \$35,000.00	\$12,945.00	\$0.00	\$0.00	\$12,945.00	\$0.00
5/1/2010 19826					
Butler University 4600 Sunset Avenue Indianapolis, IN 46208 <i>Identification and Characterization of Anaphase Promoting Complex Substrates that Regulate Synaptic Transmission in C. Elegans</i> \$35,000.00	\$17,500.00	\$0.00	\$0.00	\$17,500.00	\$0.00
5/1/2010 19828					
Wellesley College 106 Central Street Wellesley, MA 02481- <i>Vibrationally Mediated Photodissociation and Velocity Map Imaging to Investigate the Photochemical Mechanisms that</i> \$35,000.00	\$16,153.00	\$0.00	\$0.00	\$16,153.00	\$0.00
5/1/2010 19834					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Drury University 900 N. Benton Avenue Springfield, MO 65802 <i>Separation and Characterization of Heparan Sulfate- and Heparin- Derived Oligosaccharides Important for Protein Binding</i> \$35,000.00 5/1/2010 I 19837	\$15,340.00	\$0.00	\$0.00	\$15,340.00	\$0.00
SUNY Geneseo One College Circle Geneseo, NY 14454 <i>Correlated Charge and Fluorescence Measurements from Single CdSe Quantum Dots</i> \$35,000.00 5/1/2010 I 19838	\$10,685.00	\$0.00	\$0.00	\$10,685.00	\$0.00
California State University, Fullerton P.O. Box 34080 Fullerton, CA 92834-6850 <i>Extending the Astronomical Reach of Gravitational- Wave Detectors with All-Reflective Interferometry</i> \$35,000.00 5/1/2010 I 19839	\$17,500.00	\$0.00	\$0.00	\$17,500.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Missouri State University 901 S. National Avenue Springfield, MO 65897 <i>DNA-Templated Synthesis of Pt Nanoparticles on Single-Walled Carbon Nanotubes and Structural Characterizations</i> \$35,000.00 5/1/2010 19841	\$14,274.00	\$0.00	\$0.00	\$14,274.00	\$0.00
University of San Diego 5998 Alcala Park San Diego, CA 92110-2492 <i>Elucidating the molecular dynamics, conformations, and interactions occurring in complex DNA systems via novel single-molecule techniques</i> \$35,000.00 5/1/2010 19843	\$5,779.00	\$0.00	\$0.00	\$5,779.00	\$0.00
Towson University 8000 York Road Towson, MD 21252 <i>Bistable Chiral Metal Sulfoxide Complexes as Chiral Molecular</i> \$35,000.00 5/1/2010 19849	\$17,500.00	\$0.00	\$0.00	\$17,500.00	\$0.00
Carleton College One North College Street Northfield, MN 55057 <i>The Effect of Disorder on the Superfluid Transition in Two- Dimensional Liquid Helium Films</i> \$35,000.00 5/1/2010 19852	\$7,500.00	\$0.00	\$0.00	\$7,500.00	\$0.00

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Loyola College in Maryland 4501 North Charles Street Baltimore, MD 21210 <i>Production of alkyl nitrates by the marine diatom species Thalassiosira weissflogii and Skeletonema costatum</i> \$35,000.00 5/1/2010 19854	\$17,500.00	\$0.00	\$0.00	\$17,500.00	\$0.00
Willamette University 900 State Street Salem, OR 97301-3930 <i>Elucidating the Role Mechanical Forces Play in the Regulation of</i> \$35,000.00 5/1/2010 19869	\$4,069.00	\$0.00	\$0.00	\$0.00	\$4,069.00
Southeast Missouri State University One University Plaza Cape Girardeau, MO 63701 <i>Externally tunable, biocompatible, multifunctional nano-carriers for controlled release of drugs into</i> \$35,000.00 5/1/2010 19876	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$0.00
Marshall University One John Marshall Drive Huntington, WV 25755 <i>A Structure and Function Analysis of Aptamer Monolayers Created from Self-Assembling DNA Dendron</i> \$35,000.00 5/1/2010 19879	\$15,328.00	\$0.00	\$0.00	\$15,328.00	\$0.00

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Roanoke College	\$10,750.00	\$0.00	\$0.00	\$0.00	\$10,750.00
221 College Lane					
Salem, VA 24153-3794					
<i>Purine Biosynthesis in Archaea: Variations on a Theme</i>					
\$35,000.00					
5/1/2010 19885					
Grand Valley State University	\$7,331.00	\$0.00	\$0.00	\$7,331.00	\$0.00
1 Campus Drive					
Allendale, MI 49401					
<i>Investigating Polymer Confinement Effects in Model Polymer Nanocomposite Systems Using Positron Annihilation Lifetime</i>					
\$35,000.00					
5/1/2010 19886					
Georgian Court University	\$15,265.00	\$0.00	\$0.00	\$15,265.00	\$0.00
900 Lakewood Avenue					
Lakewood, NJ 08701					
<i>Origins of the Substrate Specificity of Erythrocyte Pyrimidine 5'-Nucleotidase Type 1</i>					
\$35,000.00					
5/1/2010 19888					
Union College	\$4,737.00	\$0.00	\$0.00	\$4,737.00	\$0.00
807 Union Street					
Schenectady, NY 12308					
<i>Weathering of volcanic rocks and their influence on regolith and water chemistry in the Deschutes Basin,</i>					
\$35,000.00					
5/1/2010 19889					

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Ithaca College		\$16,077.00	\$0.00	\$0.00	\$16,077.00	\$0.00
953 Danby Rd.						
Ithaca, NY 14850						
<i>Regulation of gene expression by</i>						
<i>coupling pre-mRNA splicing with RNA</i>						
\$35,000.00						
5/1/2010	I 19897					
Ithaca College		\$17,500.00	\$0.00	\$0.00	\$17,500.00	\$0.00
953 Danby Rd.						
Ithaca, NY 14850						
<i>Conducting Metal Oxides as Stable</i>						
<i>Catalyst Supports for Fuel Cell</i>						
<i>Applications</i>						
\$35,000.00						
5/1/2010	I 19900					
University of Louisville		\$10,617.00	\$0.00	\$0.00	\$10,617.00	\$0.00
2320 South Brook Street						
Louisville, KY 40292						
<i>A Comprehensive Study of the</i>						
<i>Underlying Physics in the Interface</i>						
<i>Induced Electronic Structure of the</i>						
<i>Epitaxial Graphene Grown on SiC</i>						
\$35,000.00						
5/1/2010	I 19902					
California State University, San Marcos		\$8,074.00	\$0.00	\$0.00	\$8,074.00	\$0.00
333 S. Twin Oaks Valley Rd.						
San Marcos, CA 92096-0001						
<i>Characterizing the Subcritical</i>						
<i>Transition to Turbulence in Taylor-</i>						
\$35,000.00						
5/1/2010	I 19906					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
College of William and Mary P. O. Box 8795 Williamsburg, VA 23187 <i>Chiral Non-racemic Bicyclic Diketopiperazines: A Common Precursor to Explore Diverse</i> \$35,000.00	\$17,000.00	\$0.00	\$0.00	\$0.00	\$17,000.00
5/1/2010 19910					
The College of New Jersey 2000 Pennington Road Ewing, NJ 08628-0178 <i>Experimental Investigation of Depositional Mechanisms in Ice Crystals under Cirrus-Like Conditions</i> \$35,000.00	\$8,125.00	\$0.00	\$0.00	\$8,125.00	\$0.00
5/1/2010 19914					
University of Southern California University Park Campus Los Angeles, CA 90089 <i>A Generalized Synthetic Route to Nontoxic Semiconductor Nanocrystals for Use in Inexpensive Solar Cells</i> \$75,000.00	\$75,000.00	\$0.00	\$0.00	\$72,500.00	\$2,500.00
10/1/2010 19943					
SUNY at Buffalo UB Commons, 520 Lee Entrance, Suite 211, Buffalo, NY 14260 <i>Understanding the Influence of Finite Size on Phase Transitions and Intercalation Processes in Vanadium</i> \$75,000.00	\$75,000.00	\$0.00	\$0.00	\$72,500.00	\$2,500.00
10/1/2010 19965					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of Maryland, College Park 3112 Lee Building College Park, MD 20742-0001 <i>Studying the Drivers of Galaxy Evolution: Gas Reservoirs, Molecular Fractions, and Star Formation</i> \$75,000.00 10/1/2010 19968	\$75,000.00	\$0.00	\$0.00	\$72,500.00	\$2,500.00
Syracuse University 1-014 CST 111 College Place Syracuse, NY 13244 <i>Exploring the Universe with Gravitational Waves: A New Frontier in 21st Century Astronomy and</i> \$75,000.00 10/1/2010 19970	\$75,000.00	\$0.00	\$0.00	\$72,500.00	\$2,500.00
University of Notre Dame Notre Dame, IN 46556 <i>Symmetries in the nuclear many-body problem: Conquering the computational scale explosion</i> \$75,000.00 10/1/2010 19976	\$75,000.00	\$0.00	\$0.00	\$72,500.00	\$2,500.00
University of Virginia PO Box 400195 Charlottesville, VA 22901- <i>Collective phenomena in ultracold atomic gases</i> \$75,000.00 10/1/2010 19981	\$75,000.00	\$0.00	\$0.00	\$72,500.00	\$2,500.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of Virginia PO Box 400195 Charlottesville, VA 22901- <i>Hijacking the Hijackers: Taking Advantage of the Chemistry of</i> \$75,000.00 10/1/2010 1982	\$75,000.00	\$0.00	\$0.00	\$72,500.00	\$2,500.00
University of Minnesota, Twin Cities 116 Church St, S.E. Minneapolis, MN 55455 <i>Catalytic Methods in Functionalizing Single Bonds to Carbon</i> \$75,000.00 10/1/2010 1985	\$75,000.00	\$0.00	\$0.00	\$72,500.00	\$2,500.00
University of California, San Diego 9500 Gilman La Jolla, CA 92093 <i>Isocyanide Analogues of the Unsaturated Metal Carbonyls</i> \$75,000.00 10/1/2010 1992	\$75,000.00	\$0.00	\$0.00	\$72,500.00	\$2,500.00
Cornell University 120 Day Hall Ithaca, NY 14853 <i>Shedding Light on Quantum Interactions in New Correlated</i> \$75,000.00 10/1/2010 2025	\$75,000.00	\$0.00	\$0.00	\$72,500.00	\$2,500.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of Massachusetts, Amherst 70 Butterfield Terrace Amherst, MA 01003 <i>Studies of Microtubule Intracellular Highways: Building Bridges between Physics and Biology</i> \$75,000.00 10/1/2010 20031	\$75,000.00	\$0.00	\$0.00	\$72,500.00	\$2,500.00
Washington and Lee University 204 West Washington St. Lexington, VA 24450 <i>Computational/Spectroscopic Determination of Residue-Specific Binding Interactions Between the Antiviral Peptide Retrocyclin and a</i> \$23,069.00 7/15/2010 20035	\$2,500.00	\$0.00	(\$2,500.00)	\$0.00	\$0.00
Chatham College Woodland Road Pittsburgh, PA 15232 <i>Asymmetric Synthesis of Bicyclic Azaheterocycles Utilizing Chiral Memory Cycloadditions</i> \$35,000.00 5/1/2011 20037	\$0.00	\$35,000.00	\$0.00	\$24,000.00	\$11,000.00
Texas State University, San Marcos 601 University Dr. San Marcos, TX 78666 <i>Role of unfolded protein in functional allostery: multi-domain control of DNA binding in the tumor suppressor protein p53.</i> \$35,000.00 5/1/2011 20039	\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00

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Seattle University	\$0.00	\$35,000.00	\$0.00	\$21,926.00	\$13,074.00
901 12th Avenue					
Box 222000					
Seattle, WA 98122-4340					
<i>Investigation of the surface electric forces between metallic plates using a high-sensitivity torsion balance and a Kelvin Probe</i>					
\$35,000.00					
5/1/2011 20041					
University of San Diego	\$0.00	\$35,000.00	\$0.00	\$18,500.00	\$16,500.00
5998 Alcala Park					
San Diego, CA 92110-2492					
<i>Surface-Supported Metal Organic Frameworks: A Fundamental Investigation of Adsorption and Reactivity of Energy Relevant</i>					
\$35,000.00					
5/1/2011 20043					
Benedictine University	\$0.00	\$35,000.00	\$0.00	\$25,333.00	\$9,667.00
5700 College Road					
Lisle, IL 60532-0900					
<i>Synthesis of Transition Metal Complexes with Redox-active Ligands</i>					
\$35,000.00					
5/1/2011 20046					
Carleton College	\$0.00	\$35,000.00	\$0.00	\$22,074.00	\$12,926.00
One North College Street					
Northfield, MN 55057					
<i>Development of Silylamides as Nitrene Delivery Reagents for Late Transition Metals</i>					
\$35,000.00					
5/1/2011 20047					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Haverford College 370 Lancaster Ave Haverford, PA 19041 <i>Chemical and Isotopic Separations using Quantum Tunneling Effects</i> \$35,000.00 5/1/2011 20051	\$0.00	\$35,000.00	\$0.00	\$27,500.00	\$7,500.00
Connecticut College 270 Mohegan Avenue New London, CT 06320- <i>Disarming bacteria through inhibition of the biosynthesis of quorum sensing signal molecules</i> \$35,000.00 5/1/2011 20062	\$0.00	\$35,000.00	\$0.00	\$20,500.00	\$14,500.00
Ursinus College 601 Main Street Collegeville, PA 19426- <i>The role of the ubiquitin-proteasome system in modulating the formation, propagation and toxicity of yeast</i> \$35,000.00 5/1/2011 20070	\$0.00	\$35,000.00	\$0.00	\$20,926.00	\$14,074.00
James Madison University 800 South Main St. Harrisonburg, VA 22807 <i>A multi-dimensional exploration of the physical properties of cosmic masers' host galaxies</i> \$35,000.00 5/1/2011 20071	\$0.00	\$35,000.00	\$0.00	\$18,891.00	\$16,109.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Augusta State University 2500 Walton Way Augusta, GA 30904-2200 <i>Non-equilibrium properties of classical two dimensional XY and Heisenberg model with external time</i>	\$0.00	\$35,000.00	\$0.00	\$19,925.00	\$15,075.00
5/1/2011 20073					
Kenyon College 200 N. College Rd. Gambier, OH 43022 <i>Investigations of the inhomogeneous and anisotropic Universe</i>	\$0.00	\$35,000.00	\$0.00	\$20,500.00	\$14,500.00
\$35,000.00					
5/1/2011 20080					
Jackson State University 1400 John R. Lynch Street Jackson, MS 39217 <i>Modeling Optical Processes in Lead Salt Nanocrystal Quantum Dots</i>	\$0.00	\$35,000.00	\$0.00	\$18,000.00	\$17,000.00
\$35,000.00					
5/1/2011 20081					
College of Wooster 1189 Beall Ave. Wooster, OH 44691 <i>Exploring the Function of Thioredoxin Peroxidase I from Baker's Yeast Following Modification by</i>	\$0.00	\$35,000.00	\$0.00	\$18,750.00	\$16,250.00
\$35,000.00					
5/1/2011 20084					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Texas State University, San Marcos 601 University Dr. San Marcos, TX 78666 <i>Synthesis and Reactivity Studies of Novel Janus-Type Biscarbenes Comprised of Facially Opposed N- Heterocyclic and Carbodicarbenes</i> \$35,000.00 5/1/2011 20092	\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00
Skidmore College 815 North Broadway Saratoga Springs, NY 12866 <i>Expanding the Genetic Code with Pyroglutamate</i> \$35,000.00 5/1/2011 20102	\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00
The College of New Jersey 2000 Pennington Road Ewing, NJ 08628-0178 <i>Single-Molecule Investigation of Multi- Domain Folding: A Fluorescence Correlation Spectroscopy Study</i> \$35,000.00 5/1/2011 20108	\$0.00	\$35,000.00	\$0.00	\$23,505.00	\$11,495.00
College of Wooster 1189 Beall Ave. Wooster, OH 44691 <i>Self-association of dicarboxylic acids in solution using incoherent broadband cavity-enhanced</i> \$35,000.00 5/1/2011 20110	\$0.00	\$35,000.00	\$0.00	\$24,000.00	\$11,000.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Fort Lewis College 1000 Rim Drive Durango, CO 81301 <i>Development of a General Synthesis of Chiral alpha-Hydroxy Acids and Application to the Preparation of Potent Antiviral Compounds</i>	\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00
\$35,000.00 5/1/2011 20120					
Murray State University 102 Curris Center Murray, KY 42071 <i>Synthesis of Novel Imidazolium- Containing Ionenenes via Michael Addition Polymerization</i>	\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00
\$35,000.00 5/1/2011 20121					
University of Wisconsin, Eau Claire 105 Garfield Ave Eau Claire, WI 54702 <i>Predicting Spectra of Transition Metal Hydrides: Ligand-Dependent Effects on M-H Bonding</i>	\$0.00	\$35,000.00	\$0.00	\$20,814.00	\$14,186.00
\$35,000.00 5/1/2011 20126					
Union College 807 Union Street Schenectady, NY 12308 <i>Synthesis and evaluation of cell- permeable variants of trehalose to improve the viability of preserved</i>	\$0.00	\$35,000.00	\$0.00	\$19,000.00	\$16,000.00
\$35,000.00 5/1/2011 20129					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Gettysburg College					
300 N. Washington Street	\$0.00	\$35,000.00	\$0.00	\$19,100.00	\$15,900.00
Gettysburg, PA 17325					
<i>Elucidating Mechanisms of</i>					
<i>Compaction: Atomic Emission</i>					
<i>Spectroscopy and X-ray Scattering</i>					
<i>Investigations of the Ionic Atmosphere</i>					
\$35,000.00					
5/1/2011 20132					
San Jose State University					
One Washington Square	\$0.00	\$35,000.00	\$0.00	\$27,000.00	\$8,000.00
San Jose, CA 95192					
<i>Novel P450 hybrid enzymes with</i>					
<i>artificial electron donor</i>					
<i>photosensitizer for the selective</i>					
<i>oxidation of organic</i>					
\$35,000.00					
5/1/2011 20148					
Kalamazoo College					
1200 Academy Street	\$0.00	\$35,000.00	\$0.00	\$17,726.00	\$17,274.00
Kalamazoo, MI 49006					
<i>Development of a multiplexed</i>					
<i>molecular beacon assay for the</i>					
<i>detection of breast cancer metastasis</i>					
\$35,000.00					
5/1/2011 20156					
Winthrop University					
701 Oakland Avenue	\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00
Rock Hill, SC 29733-0001					
<i>Biophysical Characterization of Metal</i>					
<i>Homeostasis in Multiple Antibiotic</i>					
<i>Producing Streptomyces coelicolor.</i>					
\$35,000.00					
5/1/2011 20160					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Santa Clara University					
500 El Camino Real	\$0.00	\$75,000.00	\$0.00	\$36,781.00	\$38,219.00
Santa Clara, CA 95053					
<i>Investigating the role of neurohemal biogenic amines in shaping stomatogastric motor programs of the crab Cancer borealis</i>					
\$75,000.00					
5/1/2011 20164					
Union College					
807 Union Street	\$0.00	\$35,000.00	\$0.00	\$24,426.00	\$10,574.00
Schenectady, NY 12308					
<i>Developing archives of aquatic chemistry from freshwater mussel shell geochemistry: Stable isotopes, trace elements, and biomineralization.</i>					
\$35,000.00					
5/1/2011 20169					
Gonzaga University					
502 E. Boone Avenue	\$0.00	\$35,000.00	\$0.00	\$22,000.00	\$13,000.00
Spokane, WA 99258					
<i>Orbital optimization and excited-state calculation within the graphically contracted function method</i>					
\$35,000.00					
5/1/2011 20180					
Marshall University					
One John Marshall Drive	\$0.00	\$35,000.00	\$0.00	\$19,123.00	\$15,877.00
Huntington, WV 25755					
<i>Study of the photoassembly of the oxygen-evolving complex of photosystem II in extremophilic</i>					
\$35,000.00					
5/1/2011 20183					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of Southern Maine P.O. Box 9300 Portland, ME 04104-9300 <i>A novel approach to enhance bioremediation of chromate using bacteria engineered to produce</i> \$35,000.00	\$0.00	\$35,000.00	\$0.00	\$20,926.00	\$14,074.00
5/1/2011 20185					
The College of New Jersey 2000 Pennington Road Ewing, NJ 08628-0178 <i>Investigating the regulation of gene expression through the coordination of RNA splicing with transcription</i> \$35,000.00	\$0.00	\$35,000.00	\$0.00	\$22,250.00	\$12,750.00
5/1/2011 20186					
Providence College 549 River Avenue Providence, RI 02918 <i>Investigations of Solvent-dependent Structural and Chemical Reaction Dynamics of the Group VIII Transition Metal Pentacarbonyls</i> \$35,000.00	\$0.00	\$35,000.00	\$0.00	\$19,130.00	\$15,870.00
5/1/2011 20187					
Saint Olaf College 1520 St. Olaf Avenue Northfield, MN 55057 <i>The function and targeting of perilipin 2, a lipid droplet-associated protein</i> \$35,000.00	\$0.00	\$35,000.00	\$0.00	\$17,410.00	\$17,590.00
5/1/2011 20189					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of Colorado Denver 1250 14th Street Denver, CO 80217 <i>Investigation of hygroscopicity and redox activity of chemically processed atmospheric organic aerosol</i> \$35,000.00 5/1/2011 20192	\$0.00	\$35,000.00	\$0.00	\$19,750.00	\$15,250.00
Santa Clara University 500 El Camino Real Santa Clara, CA 95053 <i>Characterization of the interactions between azurin and silver</i> \$35,000.00 5/1/2011 20197	\$0.00	\$35,000.00	\$0.00	\$17,000.00	\$18,000.00
Pacific Lutheran University 12180 Park Avenue S. Tacoma, WA 98447 <i>Carbon Nanofoam Electrodes as Scaffolds for High-Rate Zinc-Air</i> \$35,000.00 5/1/2011 20201	\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00
Missouri State University 901 S. National Avenue Springfield, MO 65897 <i>Investigation of Major Groove Modifications of Nucleic Acids on DNA Polymerase Activity</i> \$35,000.00 5/1/2011 20203	\$0.00	\$35,000.00	\$0.00	\$22,303.00	\$12,697.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Bard College					
PO Box 5000	\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00
Annandale-on-Hudson, NY 12504- <i>Development and synthesis of hydrogen-bonding scaffolds and thiourea organocatalysts for enantioselective [2 + 2]</i>					
\$35,000.00					
5/1/2011 20215					
University of Nebraska, Kearney					
905 West 25th Street	\$0.00	\$35,000.00	\$0.00	\$26,233.00	\$8,767.00
Kearney, NE 68849					
<i>N-heterocycle carbenes as organocatalysts and ligands for functionalized gold nanocatalysts in</i>					
\$35,000.00					
5/1/2011 20228					
Boise State University					
1910 University Drive	\$0.00	\$35,000.00	\$0.00	\$19,391.00	\$15,609.00
Boise, ID 83725					
<i>Study of magnetic nanostructures deposited on Cu₂N/Cu(100) surfaces from first principles</i>					
\$35,000.00					
5/1/2011 20234					
Rutgers University, Camden					
303 Cooper Street, Camden	\$0.00	\$35,000.00	\$0.00	\$25,500.00	\$9,500.00
Camden, NJ 08102-1519					
<i>Mechanistic study of localization and dynamics of photoexcited charge in co- promoted TiO₂ under visible/near-IR by multiple Operando techniques</i>					
\$35,000.00					
5/1/2011 20241					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Trinity University 1 Trinity Place San Antonio, TX 78212 <i>Surface plasmon enhanced Forster resonance energy transfer in fluorescent molecules using metal</i> \$75,000.00 5/1/2011 20255	\$0.00	\$75,000.00	\$0.00	\$48,150.00	\$26,850.00
Denison University 100 W. College Street Granville, OH 43023-1359 <i>The Structural Foundation of the Force Response of Molecular Motors</i> \$35,000.00 5/1/2011 20257	\$0.00	\$35,000.00	\$0.00	\$19,391.00	\$15,609.00
The College of New Jersey 2000 Pennington Road Ewing, NJ 08628-0178 <i>Regulation of plant metabolism through CYP72A cytochrome P450</i> \$35,000.00 5/1/2011 20259	\$0.00	\$35,000.00	\$0.00	\$23,524.00	\$11,476.00
Hobart and William Smith Colleges Office of the Provost 300 Pulteney Street Geneva, NY 14456-3397 <i>Multicanonical simulations of protein aggregation: the role of the potential energy surface in oligomer and fibril formation.</i> \$35,000.00 5/1/2011 20265	\$0.00	\$35,000.00	\$0.00	\$19,426.00	\$15,574.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
SUNY College at Brockport					
350 New Campus Drive	\$0.00	\$35,000.00	\$0.00	\$19,000.00	\$16,000.00
Brockport, NY 14420-2914					
<i>Determining the effects of amino acid substitutions within the CXXCH motif of cytochrome c on reduction potential using a heme-peptide construct</i>					
\$35,000.00					
5/1/2011 20266					
University of Washington	\$50,000.00	\$0.00	\$0.00	\$0.00	\$50,000.00
301 Gerberding Hall					
Seattle, WA 98195					
<i>Photoconversion Physics in Quantum- Wire Arrays with Double-Gyroid</i>					
\$100,000.00					
5/15/2010 20271					
College of Charleston	\$0.00	\$35,000.00	\$0.00	\$23,158.00	\$11,842.00
66 George Street					
Charleston, SC 29424					
<i>Absorption and Scattering in Correlated Random Media</i>					
\$35,000.00					
1/26/2011 20273					
Tucson High Magnet School	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$0.00
400 North 2nd Avenue					
Tucson, AZ 85705					
<i>Searching for Endophytic Fungi and Novel Enzymes. Research Curriculum for the Biotechnology Classroom</i>					
\$7,000.00					
2/1/2011 20275					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Mountain View High School 3901 W. Linda Vista Blvd. Tucson, AZ 85742 <i>Bringing the Scientific Research Community and Industry to the Classroom to Evoke Insight, Elicit Interaction, and Enhance</i>	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$0.00
\$7,000.00 5/10/2011 20278					
Vail Academy and High School Box 800 Vail, AZ 85641 <i>Implementing a GIS-Infused Science Curriculum in the Vail School District through Professional Development</i>	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$0.00
\$7,000.00 5/10/2011 20279					
Willamette University 900 State Street Salem, OR 97301-3930 <i>Stress Steroids as Neuromodulators: Studying the Cellular Effects of Stress Steroids on Neurons.</i>	\$0.00	\$35,000.00	\$0.00	\$32,650.00	\$2,350.00
\$35,000.00 5/1/2011 20280					
Pennsylvania State University, 201 Old Main University Park, PA 16802 <i>Bio-Inspired Electro-Optic Structure for Silicon Photovoltaics</i>	\$33,334.00	\$0.00	\$0.00	\$33,334.00	\$0.00
\$33,334.00 11/15/2010 20281					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of North Carolina at Chapel 200 E Cameron Avenue Chapel Hill, NC 27514 <i>Bio-Inspired Electro-Optic Structure for Silicon Photovoltaics</i> \$33,334.00 11/15/2010 20282	\$33,334.00	\$0.00	\$0.00	\$33,334.00	\$0.00
University of Arizona Tucson, AZ 85721 <i>Bio-Inspired Electro-Optic Structure for Silicon Photovoltaics</i> \$33,334.00 11/15/2010 20283	\$33,334.00	\$0.00	\$0.00	\$33,334.00	\$0.00
Pennsylvania State University, 201 Old Main University Park, PA 16802 <i>Artificial Nanoscale Enzymes for CO2 Reduction Catalysis</i> \$33,334.00 11/15/2010 20284	\$33,334.00	\$0.00	\$0.00	\$33,334.00	\$0.00
University of California, Irvine 300 University Tower Irvine, CA 92697-0001 <i>Artificial Nanoscale Enzymes for CO2 Reduction Catalysis</i> \$33,334.00 11/15/2010 20285	\$33,334.00	\$0.00	\$0.00	\$33,334.00	\$0.00
Western Washington University 516 High Street Bellingham, WA 98225 <i>Artificial Nanoscale Enzymes for CO2 Reduction Catalysis</i> \$33,334.00 11/15/2010 20286	\$33,334.00	\$0.00	\$0.00	\$33,334.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Emory University 201 Dowman Dr Atlanta, GA 30322 <i>High Spatial Resolution Electrochemistry of Biological</i> \$30,000.00 11/15/2010 20287	\$30,000.00	\$0.00	\$0.00	\$30,000.00	\$0.00
Boston University One Sherborn Street Boston, MA 02215 <i>High Spatial Resolution Electrochemistry of Biological</i> \$30,000.00 11/15/2010 20288	\$30,000.00	\$0.00	\$0.00	\$30,000.00	\$0.00
Vanderbilt University 2201 West End Avenue Nashville, TN 37240 <i>High Spatial Resolution Electrochemistry of Biological</i> \$40,000.00 11/15/2010 20289	\$40,000.00	\$0.00	\$0.00	\$40,000.00	\$0.00
University of Arizona Tucson, AZ 85721 <i>Microwave Spectroscopy Measurements of Spectra and 3-D Structures of Hydrogen-Bonded</i> \$14,000.00 2/1/2011 20291	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of Arizona Tucson, AZ 85721 <i>Serum Biomarkers of Mortality Risk: a 40-year Follow-up Study</i> \$14,000.00 2/1/2011 20294	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$0.00
University of Arizona Tucson, AZ 85721 <i>Wildfire and Bird Habitat: discovering the relationship between the fire return interval and the abundance of open woodland bird</i> \$14,000.00 2/1/2011 20295	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$0.00
University of Arizona Tucson, AZ 85721 <i>Analysis of heart gene regulation</i> \$14,000.00 2/1/2011 20296	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$0.00
American Academy of Arts and Science 136 Irving Street Cambridge, MA 02138 <i>ARISE II (Advancing Research in Science and Engineering)</i> \$25,000.00 1/31/2011 20301	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$0.00
University of Denver University Park Denver, CO 80208-0001 <i>Energy Pooling as a Novel Thermodynamic Mechanism for</i> \$100,000.00 5/1/2011 20304	\$0.00	\$100,000.00	\$0.00	\$50,000.00	\$50,000.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of Central Florida 4000 Central Florida Blvd Orlando, FL 32816 <i>Investigating Charge Transport and Recombination in Bulk Heterojunction Organic Photovoltaics with Conjugated Polymer Columnar</i> \$100,000.00 5/1/2011 20315	\$0.00	\$100,000.00	\$0.00	\$50,000.00	\$50,000.00
University of Florida 219 Grinter Hall PO Box 115500 Gainesville, FL 32611 <i>A Modular Supramolecular Approach to Organic Photovoltaic Materials</i> \$145,000.00 5/1/2011 20316	\$0.00	\$145,000.00	\$0.00	\$72,500.00	\$72,500.00
University of Oregon 1371 E 13th Avenue Eugene, OR 97403 <i>Role of Fractal Patterns on New Materials for Solar Energy Applications: Inorganic Clusters, Films and Fractal Geometry</i> \$125,000.00 5/1/2011 20317	\$0.00	\$125,000.00	\$0.00	\$62,500.00	\$62,500.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of Wisconsin, Madison 500 Lincoln Drive Madison, WI 53706 <i>Enabling Solar Energy Conversion using Rational and Scalable Growth of 1D Nanomaterials Made of Inexpensive Semiconductors</i> \$100,000.00 5/1/2011 20320	\$0.00	\$100,000.00	\$0.00	\$50,000.00	\$50,000.00
University of Illinois at Urbana- 600 S. Mathews Avenue Urbana, IL 61801 <i>Computational Discovery and Optimization of Organic Photovoltaic</i> \$100,000.00 5/1/2011 20329	\$0.00	\$100,000.00	\$0.00	\$50,000.00	\$50,000.00
University of Washington 301 Gerberding Hall Seattle, WA 98195 <i>Dopant-carrier Auger de-excitation as a new approach to multi-threshold solar energy conversion devices</i> \$125,000.00 5/1/2011 20334	\$0.00	\$125,000.00	\$0.00	\$62,500.00	\$62,500.00
National Air & Space Museum, Smithsonian Institution MRC 310 Independence Avenue at Sixth St, SW Washington, D.C. 20560 <i>RCSA Centennial Event</i> \$5,000.00 1/28/2011 20336	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Nano Science and Technology Institute 696 San Ramon Valley Blvd., Suite Danville, CA 94526 <i>Sponsorship of Arp-E Summit, February, 2011</i> \$5,000.00 1/31/2011 20337	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00
Bio5 Institute The University of Arizona 1657 E. Helen St. Tucson, AZ 85721 <i>2011 KEYS Summer Internship</i> \$2,500.00 4/4/2011 20339	\$0.00	\$2,500.00	\$0.00	\$2,500.00	\$0.00
University of Wisconsin, Eau Claire 105 Garfield Ave Eau Claire, WI 54702 <i>Dr. Jack Pladziejewicz Research</i> \$10,000.00 3/29/2011 20340	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$0.00
University of Florida 219 Grinter Hall PO Box 115500 Gainesville, FL 32611 <i>A Modular Supramolecular Approach to Organic Photovoltaic Materials</i> \$105,000.00 5/1/2011 20771	\$0.00	\$105,000.00	\$0.00	\$52,500.00	\$52,500.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of Oregon 1371 E 13th Avenue Eugene, OR 97403 <i>Role of Fractal Patterns on New Materials for Solar Energy Applications: Inorganic Clusters, Films and Fractal Geometry</i> \$125,000.00 5/1/2011 20772	\$0.00	\$125,000.00	\$0.00	\$62,500.00	\$62,500.00
University of Washington 301 Gerberding Hall Seattle, WA 98195 <i>Dopant-carrier Auger de-excitation as a new approach to multi-threshold solar energy conversion devices</i> \$125,000.00 5/1/2011 20773	\$0.00	\$125,000.00	\$0.00	\$62,500.00	\$62,500.00
National Academy of Sciences 500 Fifth Street NW Washington, DC 20001 <i>The Science & Entertainment Exchange: Increasing Public Engagement</i> \$40,000.00 5/19/2011 20774	\$0.00	\$40,000.00	\$0.00	\$40,000.00	\$0.00
University of Arizona Tucson, AZ 85721 <i>UA Lecture Series Partners</i> \$20,000.00 7/20/2011 20775	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$0.00
University of Arizona Tucson, AZ 85721 <i>AZ Star Inset for College of Science</i> \$10,000.00 7/20/2011 20776	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$0.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Northeastern University 360 Huntington Avenue Boston, MA 02115 <i>Effective Practices in Learning and Pedagogy from Cottrell Scholars: A High Impact Text for Educational Leadership in the 21st Century</i> \$25,000.00 7/28/2011 20777	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$0.00
North Carolina State University 2620 Yarbrough Drive Raleigh, NC 27695 <i>Cottrell Scholars Collaborative Think and Do Tank</i> \$25,000.00 7/28/2011 20778	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$0.00
Gordon Research Conferences 512 Liberty Lane West Kingston, RI 02892 <i>Gordon Research Conferences- Renewable Energy: Solar Fuels</i> \$7,500.00 8/26/2011 20898	\$0.00	\$7,500.00	\$0.00	\$7,500.00	\$0.00
University of Arizona Foundation 1111 N. Cherry Avenue Tucson, AZ 85721 <i>Arizona Assurance Scholars Program</i> \$100,000.00 9/16/2011 21079	\$0.00	\$100,000.00	\$0.00	\$20,000.00	\$80,000.00

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Nano Science and Technology Institute (	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$0.00
696 San Ramon Valley Blvd., Suite					
Danville, CA 94526					
2012 Sponsorship of Arpa-E Energy					
Summit					
\$10,000.00					
9/16/2011 21105					
Emory University	\$0.00	\$4,920.00	\$0.00	\$4,920.00	\$0.00
201 Dowman Dr					
Atlanta, GA 30322					
Magneto-electronic Phenomena in					
Nanostructures					
\$4,920.00					
10/5/2011 21130					
University of Vermont	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$0.00
340 Waterman Building					
Burlington, VT 05405					
New Faculty Orientations to Support					
the Development of Research Scholars					
\$25,000.00					
10/6/2011 21131					
University of Denver	\$0.00	\$33,333.00	\$0.00	\$0.00	\$33,333.00
University Park					
Denver, CO 80208-0001					
Holographic Spectrum Splitting for					
Multijunction Organic Photovoltaics					
\$33,333.00					
10/15/2011 21703					

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Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Western Washington University	\$0.00	\$33,333.33	\$0.00	\$0.00	\$33,333.33
516 High Street					
Bellingham, WA 98225					
<i>Novel Low-Loss Plasmonic</i>					
<i>Waveguides to Create High Efficiency</i>					
<i>PV from Ultra-Thin Organic and Low-</i>					
<i>Purity Earth Abundant Inorganic</i>					
\$33,333.00					
10/15/2011 21719					
University of Washington	\$0.00	\$33,334.00	\$0.00	\$0.00	\$33,334.00
301 Gerberding Hall					
Seattle, WA 98195					
<i>Novel Low-Loss Plasmonic</i>					
<i>Waveguides to Create High Efficiency</i>					
<i>PV from Ultra-Thin Organic and Low-</i>					
<i>Purity Earth Abundant Inorganic</i>					
\$33,334.00					
11/12/2011 21721					
University of Arizona	\$0.00	\$33,333.00	\$0.00	\$0.00	\$33,333.00
Tucson, AZ 85721					
<i>Holographic Spectrum Splitting for</i>					
<i>Multijunction ORganic Photovoltaics</i>					
\$33,333.00					
10/15/2011 21722					
University of Washington	\$0.00	\$33,333.33	\$0.00	\$0.00	\$33,333.33
301 Gerberding Hall					
Seattle, WA 98195					
<i>Novel Low-Loss Plasmonic</i>					
<i>Waveguides to Create High Efficiency</i>					
<i>PV from Ultra-Thin Organic and Low-</i>					
<i>Purity Earth Abundant Inorganic</i>					
\$33,333.00					
10/15/2011 21723					

RESEARCH CORPORATION

EIN: 13-1963407

STATEMENT 17

Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of Washington 301 Gerberding Hall Seattle, WA 98195 <i>Holographic Spectrum Splitting for Multijunction Organic Photovoltaics</i> \$33,334.00 11/11/2011 21724	\$0.00	\$33,334.00	\$0.00	\$0.00	\$33,334.00
University of California, Davis One Shields Avenue Davis, CA 95616 <i>Fractals as a Promising Geometry for Enhanced Solar Energy Conversion</i> \$30,000.00 10/15/2011 21725	\$0.00	\$30,000.00	\$0.00	\$0.00	\$30,000.00
University of Denver University Park Denver, CO 80208-0001 <i>Fractals as a Promising Geometry for Enhanced Solar Energy Conversion</i> \$30,000.00 10/15/2011 21726	\$0.00	\$30,000.00	\$0.00	\$0.00	\$30,000.00
University of Oregon 1371 E 13th Avenue Eugene, OR 97403 <i>Fractals as a Promising Geometry for Enhanced Solar Energy Conversion</i> \$20,000.00 10/15/2011 21727	\$0.00	\$20,000.00	\$0.00	\$0.00	\$20,000.00

RESEARCH CORPORATION
EIN: 13-1963407
STATEMENT 17

Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
University of California, Merced 5200 North Lake Road Merced, CA 95343 <i>Fractals as a Promising Geometry for Enhanced Solar Energy Conversion</i> \$20,000.00 10/15/2011 21728	\$0.00	\$20,000.00	\$0.00	\$0.00	\$20,000.00
American Association of Physics One Physics Ellipse College Park, MD 20740-3845 <i>New Faculty Workshop</i> \$5,000.00 11/28/2011 21996	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00
SciEnTek12 Foundation <i>Celebrating 100 Years of Research Corporation with 100 New Student Researchers</i> \$5,000.00 12/5/2011 22164	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00
Galileo Circle / UAF <i>Galileo Circle Scholars</i> \$5,000.00 12/5/2011 22165	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00
University of Arizona Tucson, AZ 85721 <i>ITAMP/B2 Institute Winter School on AMO Science</i> \$1,500.00 12/21/2011 22166	\$0.00	\$1,500.00	\$0.00	\$1,500.00	\$0.00

RESEARCH CORPORATION

EIN: 13-1963407

STATEMENT 17

Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Institute of the Environment					
4715 E. Ft. Lowell Road	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00
Tucson, AZ 85712					
<i>Rachel Carson's Scholar Program</i>					
\$5,000.00					
12/30/2011 22167					
PKAL Leadership Scholarship Fund					
AAC&U Office of Leadership	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$0.00
Development					
Association of American Colleges and					
Universities					
1818 R Street, NW					
Washington, DC 20009-1604					
<i>PKAL Baca Scholarship Program</i>					
\$2,000.00					
12/21/2011 22168					
BECUR Conference 2012					
University of Arizona	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$0.00
Department of Chemistry and					
Biochemistry					
Tucson, AZ 85721					
<i>BECUR Conference 2012</i>					
\$1,000.00					
12/30/2011 22169					
Arizona Friends of Chamber Music					
7824 East Mc Gee Mountain Road	\$0.00	\$1,000.00	\$0.00	\$0.00	\$1,000.00
Tucson, AZ 85750					
<i>18th Annual Tucson Winter Chamber</i>					
<i>Music Festival</i>					
\$0.00					
12/29/2011 22205					
2011 Science Friday Award	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$0.00

RESEARCH CORPORATION

EIN: 13-1963407

STATEMENT 17

Recipient and/or Purpose	Beginning 2011	Newly Allocated 2011	Amended 2011	Amount Paid 2011	Ending Balance 2011
Inter-American Photochemical Society	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$0.00
AAAS	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$0.00
Miscellaneous	\$0.00	\$15,249.00	\$0.00	\$15,249.00	\$0.00
Grand Total	\$3,473,053.61	\$3,662,420.66	(\$63,170.00)	\$4,940,220.30	\$2,185,332.97

STATEMENT 18

RESEARCH CORPORATION
EIN: 13-1963407

FORM 990-PF, Part IX-A, Summary of Direct Charitable Activities

	2011 NET PROGRAM AWARD PAID	2011 INDIRECT EXPENSES ALLOCATED	2011 TOTAL PROGRAM EXPENSE
AWARD PROGRAMS.			
DEPARTMENT DEVELOPMENT AWARDS	\$ -	\$ -	\$ -
SCIALOG	\$ 1,450,003 34	1,342,656 50	2,792,659 84
COTTRELL SCHOLAR'S AWARDS	\$ 897,500 00	831,056 00	1,728,556 00
PARTNER IN SCIENCE AWARDS	\$ 77,000 00	71,299 00	148,299 00
PRESIDENT'S DISCRETIONARY AWARDS	\$ 176,850 30	163,758.00	340,608 30
COTTRELL COLLEGE SCIENCE AWARDS	\$ 2,338,867.00	2,165,714.00	4,504,581 00
GENERAL AWARDS	\$ -	-	-
	\$ 4,940,220.64	\$ 4,574,482.32	\$ 9,514,704.14
OTHER PROGRAM:			
CHARITABLE CONTRIBUTIONS	40,251 04		40,251 04
TOTAL PROGRAM	<u>\$ 4,980,471 68</u>	<u>\$ 4,574,482.32</u>	<u>\$ 9,554,955.18</u>

scialog2011®

PROPOSAL GUIDELINES

2nd Annual Scialog Conference *"Scialog: Solar Energy Conversion"*

Collaborative Innovation Award Proposal Guidelines:

1. Each award of \$100K will be made to a team consisting of attendees at this conference.
2. Members of a collaborative team must include at least one Scialog Fellow.
3. Awards are intended to "seed" highly innovative high risk/high reward ideas that emerge at this conference – give us your best new idea.
4. Funds directed toward the collaboration can be split among team members and used with broad discretion for direct costs.
5. A two-page proposal should be submitted by Friday morning at 8:30am to both Richard Wiener at rwiener@rescorp.org and Silvia Ronco at sronco@rescorp.org.
6. The proposal should briefly describe a project based on a highly innovative idea with potential transformative impact and the role of each team member. No budget is necessary.
7. Scialog Review Panel members will review proposals within about two weeks and awards will be announced within about a month.

[HOME](#) > [GRANTS & AWARDS](#) > [SCIALOG](#)> COLLABORATIVE TEAMS

Annual Scialog meetings are held at Biosphere 2 near Tucson, Arizona and are attended by a diverse group of 50 scientists, who participate in highly interactive sessions to identify bottlenecks, find avenues for breakthroughs, and build new scientific teams to facilitate the breakthroughs. At the heart of Scialog is dialog, a methodology involving a special form of communication that suspends immediate critical judgment and debate in favor of listening for what one does not know or understand and building on that. As novel possibilities are built up in this creative process, it becomes possible to form new collaborative teams to refine ideas and hone them into specific new projects. Doors are thereby opened to transformation and “game-changing” ideas, multidisciplinary collaborations, novel avenues for research, and solutions to highly complex problems. Conference participants self assemble into collaborative cross-disciplinary teams of two to four researchers and write short proposals *at the conference* for additional seed funding (\$100K per team) for highly innovative ideas that emerge from the dialog. So far, six teams formed during Scialog conferences have won Collaborative Innovation Awards based on proposals written during conferences (three each in 2010 and 2011).

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[HOME](#) > [GRANTS & AWARDS](#) • [SCIALOG®](#) • [SOLAR ENERGY CONVERSION](#) > [GUIDELINES](#)

Institutional and Faculty Requirements

Applications will be accepted from tenured science faculty members within five years of date of their first tenure appointment at public and private colleges and universities located in the United States that offer at least a baccalaureate degree in the sciences.

The complexity of the problems addressed in Scialog initiatives is such that significant progress in most cases will require extensive collaboration, team building and teamwork. These collaborations may involve scientists in the U.S. or abroad, at national laboratories, in private industry or in academia. Eligible faculty may apply individually or as a team of two or more faculty members fitting the eligibility criteria from the same or different departments and institutions. Describing existing collaborations (including collaborations with scientists who are not eligible to apply for Scialog funding) that underpin the proposed work will strengthen applications. Furthermore, it is expected that the Scialog conference will provide the opportunity for additional team building by expanding collaborations in key areas.

A single investigator may be included on no more than one proposal. There is, however, no limit on the number of proposals submitted from the same institution.

Grants awarded by RCSA will be made to non-profit U.S. colleges or universities.

Funding

Research Corporation for Science Advancement will make awards either to individuals or to teams of two or more eligible faculty. The individual awards will be for \$100,000 and the team awards for \$250,000. Budgets are not required; hence, there is no budget page in the proposal. Funds can be used to support the proposed research project at the discretion of the awardee(s) for most direct costs, with limitations only on the range of acceptable expenditures. There is no provision for indirect costs or overhead, faculty salaries, tuition, or for routine institutional services.

Applications

The application process begins with completion of the online [eligibility quiz](#). Applicants who pass the eligibility quiz will be given access to necessary forms to submit a proposal. **However, final determination of eligibility will be made by a Program Officer.** The deadline for proposal submission is Monday, January 17, 2011 at 5:00 PM Mountain Standard Time.

Multiple proposals from the same investigator will not be accepted. There is, however, no limit on the number of proposals submitted from the same institution.

Both applicant(s) and institution(s) should ensure that a proposal conforms to program guidelines, and that proposals are submitted on the unmodified application forms provided by Research Corporation for Science Advancement.

Proposal Evaluation

Research Corporation for Science Advancement will assess proposals based upon the following:

- Potential to result in transformative breakthroughs in the fundamental scientific understanding of solar energy conversion to electricity or fuels;
- Innovation of proposed research;
- Scientific merit, quality, significance and relevance of the proposed research relative to other proposals;
- Quality and significance of the collaborations to the proposed research;
- Quality, significance and relevance of the recent research record of the PI(s);
- Potential for additional funding from public or private sectors;
- Interdisciplinary education/training of graduate students and postdoctoral researchers.

Review Process

Applications that conform to guidelines will be screened by RCSA scientists and reviewed by external experts in the field. Awards will be announced by June 1, 2011.

Timeline:

- Proposal Due: January 17, 2011
- Awards Announced: June 1, 2011
- [Scialog Conferences](#) (required attendance for awardees):

Biosphere 2, Tucson, AZ, October 11-14, 2011
October (TBD), 2012
October (TBD), 2013

Estimated Number of Awards: 10

Award size is \$100,000 for single investigators and up to \$250,000 for teams of two or more investigators over a 3-year award period.

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COTTRELL SCHOLAR COLLABORATIVE PROPOSAL WRITING RULES

Successful proposals should have the potential to positively impact undergraduate science education in the classroom, at the departmental level or at the national level

- Up to four \$25,000 awards will be given to teams of Cottrell Scholars working collaboratively
- Awards made to a team formed at this conference
- Members of the team are active or past Cottrell Scholars
- Award is for an innovative idea that emerged at this conference
- Award is for a new independent project or for a project that will expand the impact of existing funded Collaborative projects
- Two-page proposal submitted at the conference
- Proposal should briefly explain an innovative approach for projects with potential broad impact
- RCSA panel members will review projects within two weeks of the conference

CONFERENCE EVALUATION SURVEY

An online conference survey will be available on Friday, July 13. To access and complete the survey, please go to: <http://www.surveymonkey.com/s/2012CSconferencesurvey>.

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COTTRELL SCHOLAR AWARDS

HOW TO APPLY GUIDELINES

Eligibility

Eligible applicants are tenure-track faculty members at U.S. institutions whose primary appointment is in a Bachelor's and Ph.D.-granting department of astronomy, biochemistry, biophysics, chemistry, or physics, but not in a school of medicine or engineering. For the 2012 proposal cycle, eligibility is limited to faculty members who started their first tenure-track position anytime in calendar year 2009.

Budgets

Cottrell Scholar awards are in the amount of \$75,000. An amount of \$5,000 is set aside to cover travel expenses related to attendance at two Annual Cottrell Scholar Conferences. Budgets are not required; hence, there is no budget page in the proposal. Funds from Cottrell Scholar awards can be used at the discretion of the Scholar for most direct costs, with limitations only on the range of acceptable expenditures. There is no provision for indirect costs or overhead, faculty salaries, tuition, or for routine institutional services. Funds from an award may be used to support both the educational and research projects of the Cottrell Scholar.

Proposals

CSA proposals reflect the philosophy of the university scholar, a scientist who conducts cutting-edge research and fully embraces teaching excellence and student learning. To be successful, applicants must demonstrate a strong commitment to lower division undergraduate education and high prospects for becoming a national leader in their field of research. Proposals consist of both educational and research plans, and they are only accepted on the provided forms. Submissions must conform to guidelines and directions, and need to be endorsed by the institution. Potential applicants begin the online submission process by completing the online [eligibility quiz](#). If eligible, applicants gain access to a web page containing the Cottrell Scholar Award application packet and instructions for electronic submission. **The 2012 deadline for proposal submission is August 1, 2012.**

The educational plan should identify a significant problem in undergraduate science education and offer a feasible strategy to address it. Main criteria for evaluating the educational plan include: (a) the potential impact in lower division science courses, (b) the applicant's commitment to education excellence; (c) the originality of the proposal; (d) assessment of the proposed educational plan; and (e) the suitability and sustainability for the institutional setting.

The components of a successful educational plan will vary widely. Prior accomplishments, especially as they relate to undergraduates in both instructional and research laboratory settings, enhance the case for the applicant's commitment to education. Employing new techniques such as web-based instruction and cooperative learning can enhance a proposal, but should be connected to clearly stated educational goals and objectives. The strongest proposals will include appropriate references to the rich science education literature demonstrating the applicant's familiarity with what has already been accomplished, and will describe an approach to assessment of the educational plan. Projects that deal solely with graduate education or outreach and are not focused primarily on undergraduate science education will not be considered for an award.

Successful research plans identify a problem of high scientific significance and offer an original, creative and feasible approach to its solution. The research plan may or may not offer a new scientific thrust for the applicant. Often the proposed research addresses an area of work that is already being pursued by the applicant and for which external support and published results have been obtained. Consequently, existing support does not hinder an application. Winning proposals must convince reviewers that the applicant is pursuing an important independent program of research that is already having, or is likely to have, high impact in their area.

Evaluation

Proposals are first scrutinized internally to assess the quality of the educational plan. Only submissions with truly unique educational plans aimed at improving undergraduate science education are further considered and sent out to external evaluators. Award recommendations are made at the spring Science Advisory Committee meeting and awards are announced in early May.

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AZ PARTNERS IN SCIENCE
HOW TO APPLY
GUIDELINES

Eligibility

Applications are accepted from science faculty at Arizona universities who have established a research partnership with a high-school teacher. A principal investigator must have an active research program and hold an appointment in a natural science department. High-school teachers should have academic degrees in appropriate disciplines and must have a high-school appointment in Arizona. In 2011 we are piloting the program with the University of Arizona with the hope of finding a partner to extend the program to all three state universities in the future.

Applications

The proposal submission deadline is December 1. Applications must conform to guidelines and directions, and must be endorsed by the institution. All potential applicants begin the submission process by completing the Eligibility Quiz. If eligible, you will be able to download the application materials and complete electronic submission. No hard-copy submission is required. Completed applications will be reviewed by a committee set up by the Murdock Trust. To view and print a sample application form [click here](#).

Budgets

Awards are in the amount of \$14,000 budgeted over two years, with the following breakdown:

	First Year	Second Year
High-school teacher stipend	\$5,000	\$5,000
Discretionary funds	1,000	1,000

Academic-year enrichment	500	500
Travel funds (annual conference)*	500	500
TOTAL	\$7,000	\$7,000

**Travel funds are meant to be used to cover transportation costs to the conference. All other conference expenses (lodging and meals) are covered by RCSA.*

Supplementary Partners in Science Awards

Teachers who have completed a regular Arizona Partners in Science award, having done two summers of research, are eligible to apply through their high schools for a Supplementary Partners in Science award. For more information on Supplementary Partners in Science award applications and to receive necessary forms, contact Silvia Ronco at sronco@rescorp.org.

Submission deadline for Supplementary Partners in Science awards is November 1. For proposal submission, send a pdf file of your proposal as an email attachment to sronco@rescorp.org. Make sure that the pdf file contains all required signatures. Supplementary awards are announced in March.

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[HOME](#) > [GRANTS & AWARDS](#) > [COTTRELL COLLEGE SCIENCE AWARDS](#) > [SINGLE-INVESTIGATOR](#)

COTTRELL COLLEGE SCIENCE AWARDS SINGLE-INVESTIGATOR

Introduction

The Single-Investigator Cottrell College Science Awards support research in astronomy, chemistry, physics and closely related fields that significantly overlap these three disciplines at public and private, predominantly undergraduate institutions. The projects proposed are judged on the basis of scientific merit, originality, significance, feasibility, overlap with the three core disciplines and the ability of the institutional environment to sustain the activity. The involvement of undergraduate students in the research is expected, and is an important factor in most awards. After review by the Foundation staff and outside referees, the composite proposal material is evaluated by an advisory committee of scientists drawn from the academic community. Awards are made to the institution on behalf of the individual investigator following approval by the Foundation's Board of Directors.

Objectives

The overarching goal of the SI-CCSA program is providing "seed" funding for significant research that will enhance the professional and scholarly development of beginning faculty at predominantly undergraduate institutions, along with their students. We expect that our funding will help early career faculty establish sustainable programs of research. The program is sharply focused on faculty at the start of their careers. Faculty are expected to explore new areas of science, to make new discoveries that contribute to their discipline, and to initiate new research programs that can be sustained by other extramural funding sources, as well as with institutional support. Successful programs are not summer research projects, but rather those undertaken with continuity throughout the academic year. A key element in all such research programs is that they involve undergraduate students in meaningful ways, and thereby raise the quality of undergraduate education.

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COTTRELL COLLEGE SCIENCE AWARDS
MULTI-INVESTIGATOR

Introduction

The MI-CCSA program is a new initiative aimed at helping start sustainable, collaborative programs of research by cross-disciplinary teams of faculty from science departments in primarily undergraduate institutions (PUIs). The program is focused on early career faculty. The research project should be one that could not be effectively attacked by an individual researcher or a group of researchers within the same discipline. Rather it is aimed at projects that, by their complexity and interdisciplinary nature, require a cross-disciplinary team approach to achieve significant progress and sustainability.

The program, which began in 2009, is being run as a pilot project for the first three years with the intention of determining its potential to facilitate cooperation across disciplinary boundaries in PUIs, build sustainable programs of cross-disciplinary research and facilitate an academic culture for teaching and research in the sciences that transcends traditional disciplinary boundaries.

Objectives

- a. Fund highly significant research projects that transcend traditional disciplinary boundaries, produce peer-reviewed publications and subsequently attract competitive funding for continuation
- b. Fund projects that will build teams of students and faculty that cross traditional department boundaries.
- c. Help early career faculty to establish long-term, sustainable and productive research programs.
- d. Advance undergraduates to careers in science.
- e. Facilitate the development of an academic culture that supports and encourages cross-disciplinary and collaborative research and teaching.

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Application for Extension of Time To File an Exempt Organization Return

OMB No. 1545-1709

► File a separate application for each return.

- If you are filing for an **Automatic 3-Month Extension**, complete only **Part I** and check this box ☒ **X**
- If you are filing for an **Additional (Not Automatic) 3-Month Extension**, complete only **Part II** (on page 2 of this form).

Do not complete Part II unless you have already been granted an automatic 3-month extension on a previously filed Form 8868.

Electronic filing (e-file). You can electronically file Form 8868 if you need a 3-month automatic extension of time to file (6 months for a corporation required to file Form 990-T), or an additional (not automatic) 3-month extension of time. You can electronically file Form 8868 to request an extension of time to file any of the forms listed in Part I or Part II with the exception of Form 8870, Information Return for Transfers Associated With Certain Personal Benefit Contracts, which must be sent to the IRS in paper format (see instructions). For more details on the electronic filing of this form, visit www.irs.gov/efile and click on *e-file for Charities & Nonprofits*.

Part I Automatic 3-Month Extension of Time. Only submit original (no copies needed).

A corporation required to file Form 990-T and requesting an automatic 6-month extension - check this box and complete

Part I only ☐

All other corporations (including 1120-C filers), partnerships, REMICs, and trusts must use Form 7004 to request an extension of time to file income tax returns.

Type or print File by the due date for filing your return. See instructions.	Name of exempt organization or other filer, see instructions. RESEARCH CORPORATION DBA Research Corporation for Science Advancement	Employer identification number (EIN) or ☒ 13-1963407
	Number, street, and room or suite no. If a P.O. box, see instructions. 4703 E. Camp Lowell, No. 201	Social security number (SSN) ☐
	City, town or post office, state, and ZIP code. For a foreign address, see instructions. Tucson, AZ 85712	

Enter the Return code for the return that this application is for (file a separate application for each return) **04**

Application Is For	Return Code	Application Is For	Return Code
Form 990	01	Form 990-T (corporation)	07
Form 990-BL	02	Form 1041-A	08
Form 990-EZ	01	Form 4720	09
Form 990-PF	04	Form 5227	10
Form 990-T (sec. 401(a) or 408(a) trust)	05	Form 6069	11
Form 990-T (trust other than above)	06	Form 8870	12

DANNY GASCH, CFO

- The books are in the care of ► **4703 E. CAMP LOWELL, SUITE 201 - TUCSON, AZ 85712**
Telephone No. ► **520-571-1111** FAX No. ►
- If the organization does not have an office or place of business in the United States, check this box ☐
- If this is for a Group Return, enter the organization's four digit Group Exemption Number (GEN) . If this is for the whole group, check this box ☐. If it is for part of the group, check this box ☐ and attach a list with the names and EINs of all members the extension is for.

- 1 I request an automatic 3-month (6 months for a corporation required to file Form 990-T) extension of time until **August 15, 2012**, to file the exempt organization return for the organization named above. The extension is for the organization's return for:
► ☒ calendar year **2011** or
► ☐ tax year beginning , and ending

- 2 If the tax year entered in line 1 is for less than 12 months, check reason: ☐ Initial return ☐ Final return
☐ Change in accounting period

3a If this application is for Form 990-BL, 990-PF, 990-T, 4720, or 6069, enter the tentative tax, less any nonrefundable credits. See instructions.	3a	\$	0.
b If this application is for Form 990-PF, 990-T, 4720, or 6069, enter any refundable credits and estimated tax payments made. Include any prior year overpayment allowed as a credit.	3b	\$	0.
c Balance due. Subtract line 3b from line 3a. Include your payment with this form, if required, by using EFTPS (Electronic Federal Tax Payment System). See instructions.	3c	\$	0.

Caution. If you are going to make an electronic fund withdrawal with this Form 8868, see Form 8453-EO and Form 8879-EO for payment instructions.

LHA For Privacy Act and Paperwork Reduction Act Notice, see Instructions.

Form 8868 (Rev. 1-2012)

If you are filing for an **Additional (Not Automatic) 3-Month Extension**, complete only Part II and check this box ☒

Note. Only complete Part II if you have already been granted an automatic 3-month extension on a previously filed Form 8868.

- If you are filing for an **Automatic 3-Month Extension**, complete only Part I (on page 1)

Part II Additional (Not Automatic) 3-Month Extension of Time. Only file the original (no copies needed).

Enter filer's identifying number, see instructions

Type or print File by the due date for filing your return. See instructions.	Name of exempt organization or other filer, see instructions	Employer identification number (EIN) or
	RESEARCH CORPORATION DBA Research Corporation for Science Advancement	☒ 13-1963407
	Number, street, and room or suite no. If a P.O. box, see instructions.	Social security number (SSN)
	4703 E. Camp Lowell, No. 201	☐
	City, town or post office, state, and ZIP code. For a foreign address, see instructions.	
	Tucson, AZ 85712	

Enter the Return code for the return that this application is for (file a separate application for each return)

04

Application Is For	Return Code	Application Is For	Return Code
Form 990	01		
Form 990-BL	02	Form 1041-A	08
Form 990-EZ	01	Form 4720	09
Form 990-PF	04	Form 5227	10
Form 990-T (sec. 401(a) or 408(a) trust)	05	Form 6069	11
Form 990-T (trust other than above)	06	Form 8870	12

STOP! Do not complete Part II if you were not already granted an automatic 3-month extension on a previously filed Form 8868.

DANNY GASCH, CFO

- The books are in the care of ☒ 4703 E. CAMP LOWELL, SUITE 201 - TUCSON, AZ 85712

Telephone No. ☒ 520-571-1111

FAX No. ☐

- If the organization does not have an office or place of business in the United States, check this box ☐
- If this is for a Group Return, enter the organization's four digit Group Exemption Number (GEN) ☐. If this is for the whole group, check this box ☐. If it is for part of the group, check this box ☐ and attach a list with the names and EINs of all members the extension is for.

4 I request an additional 3-month extension of time until November 15, 2012

5 For calendar year 2011, or other tax year beginning , and ending

6 If the tax year entered in line 5 is for less than 12 months, check reason: ☐ Initial return ☐ Final return

☐ Change in accounting period

7 State in detail why you need the extension

Taxpayer respectfully requests additional time to gather information necessary to file a complete and accurate tax return.

8a	If this application is for Form 990-BL, 990-PF, 990-T, 4720, or 6069, enter the tentative tax, less any nonrefundable credits. See instructions.	8a	\$	0.
b	If this application is for Form 990-PF, 990-T, 4720, or 6069, enter any refundable credits and estimated tax payments made. Include any prior year overpayment allowed as a credit and any amount paid previously with Form 8868.	8b	\$	0.
c	Balance due. Subtract line 8b from line 8a. Include your payment with this form, if required, by using EFTPS (Electronic Federal Tax Payment System). See instructions.	8c	\$	0.

Signature and Verification must be completed for Part II only.

Under penalties of perjury, I declare that I have examined this form, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete, and that I am authorized to prepare this form.

Signature ☒ Bradley R. Sch Title ☒ CPA

Date ☒ 8/1/12

Form 8868 (Rev. 1-2012)