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Return of Private Foundation

or Section 4947(a)(1) Nonexempt Charitable Trust

Treated as a Private Foundation

2010

Department of the Treasury
Internal Revenue Service

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

For calendar year 2010, or tax year beginning , and ending

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

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 ☐
H Check type of organization: ☒ Section 501(c)(3) exempt private foundation ☐ Section 4947(a)(1) nonexempt charitable trust ☐ Other taxable private foundation		D 1. Foreign organizations, check here ☐ 2. Foreign organizations meeting the 85% test, check here and attach computation ☐
I Fair market value of all assets at end of year (from Part II, col (c), line 16) \$ 139,087,454. (Part I, column (d) must be on cash basis)	J Accounting method: ☐ Cash ☒ Accrual ☐ Other (specify) _____	E If private foundation status was terminated under section 507(b)(1)(A), check here ☐
		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		25,188.			
2 Check ☒ if the foundation is not required to attach Sch B					
3 Interest on savings and temporary cash investments		1,416,781.	1,416,781.	1,416,781.	Statement 1
4 Dividends and interest from securities		3,842,785.	3,842,785.	3,842,785.	Statement 2
5a Gross rents		<111,409.>	<111,409.>	<111,409.>	Statement 3
b Net rental income or (loss)		<111,409.>			
6a Net gain or (loss) from sale of assets not on line 10		3,009,895.			
b Gross sales price for all assets on line 6a		3,009,895.			
7 Capital gain net income (from Part IV, line 2)			3,009,895.		
8 Net short-term capital gain				1,610,187.	
9 Income modifications					
10a Gross sales less returns and allowances					
b Less Cost of goods sold					
c Gross profit or (loss)					
11 Other income		41,512.	41,512.	41,512.	Statement 4
12 Total. Add lines 1 through 11		8,224,752.	8,199,564.	6,799,856.	
13 Compensation of officers, directors, trustees, etc		489,631.	62,101.	0.	427,530.
14 Other employee salaries and wages		574,705.	0.	0.	574,705.
15 Pension plans; employee benefits		582,967.	0.	0.	582,967.
16a Legal fees Stmt 5		28,223.	0.	0.	28,223.
b Accounting fees Stmt 6		53,341.	8,800.	0.	44,541.
c Other professional fees Stmt 7		887,531.	0.	0.	887,531.
17 Interest		181,198.	181,198.	0.	0.
18 Taxes Stmt 8		73,807.	0.	0.	65,087.
19 Depreciation and depletion		97,367.	0.	0.	
20 Occupancy		293,254.	0.	0.	293,254.
21 Travel, conferences, and meetings		332,632.	0.	0.	332,632.
22 Printing and publications		23,141.	0.	0.	23,141.
23 Other expenses Stmt 9		428,037.	166,345.	0.	168,021.
24 Total operating and administrative expenses. Add lines 13 through 23		4,045,834.	418,444.	0.	3,427,632.
25 Contributions, gifts, grants paid		4,386,088.			4,619,832.
26 Total expenses and disbursements. Add lines 24 and 25		8,431,922.	418,444.	0.	8,047,464.
27 Subtract line 26 from line 12:					
a Excess of revenue over expenses and disbursements		<207,170.>			
b Net investment income (if negative, enter -0-)			7,781,120.		
c Adjusted net income (if negative, enter -0-)				6,799,856.	

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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		150,264.	9,660.	9,660.
	2	Savings and temporary cash investments		531,035.		
	3	Accounts receivable ▶				
		Less: allowance for doubtful accounts ▶				
	4	Pledges receivable ▶				
		Less: allowance for doubtful accounts ▶				
	5	Grants receivable			25,000.	25,000.
	6	Receivables due from officers, directors, trustees, and other disqualified persons				
	7	Other notes and loans receivable Stmt 11▶	1,512,117.			
		Less: allowance for doubtful accounts ▶	0.	1,478,463.	1,512,117.	1,512,117.
	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 12		69,894,409.	73,259,197.	73,259,197.
	c	Investments - corporate bonds				
Liabilities	11	Investments - land, buildings, and equipment basis ▶				
		Less accumulated depreciation ▶				
	12	Investments - mortgage loans				
	13	Investments - other Stmt 13		66,847,264.	63,670,930.	63,670,930.
	14	Land, buildings, and equipment basis ▶	798,191.			
		Less accumulated depreciation Stmt 14▶	611,630.	283,928.	186,561.	186,561.
	15	Other assets (describe ▶	Statement 15)	396,720.	423,989.	423,989.
	16	Total assets (to be completed by all filers)		139,582,083.	139,087,454.	139,087,454.
	17	Accounts payable and accrued expenses		588,801.	664,208.	
	18	Grants payable		3,535,259.	3,501,054.	
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 ▶	Statement 16)	13,760,772.	3,579,036.	
	23	Total liabilities (add lines 17 through 22)		17,884,832.	7,744,298.	
		Foundations that follow SFAS 117, check here ▶ ☒				
		and complete lines 24 through 26 and lines 30 and 31.				
	24	Unrestricted		121,697,251.	131,343,156.	
	25	Temporarily restricted				
	26	Permanently restricted				
		Foundations that do not follow SFAS 117, check here ▶ ☐				
		and complete lines 27 through 31.				
	27	Capital stock, trust principal, or current funds				
	28	Paid-in or capital surplus, or land, bldg., and equipment fund				
	29	Retained earnings, accumulated income, endowment, or other funds				
	30	Total net assets or fund balances		121,697,251.	131,343,156.	
	31	Total liabilities and net assets/fund balances		139,582,083.	139,087,454.	

Part III Analysis of Changes in Net Assets or Fund Balances

1	Total net assets or fund balances at beginning of year - Part II, column (a), line 30 (must agree with end-of-year figure reported on prior year's return)	1	121,697,251.
2	Enter amount from Part I, line 27a	2	<207,170.>
3	Other increases not included in line 2 (itemize) ▶ NET UNREALIZED GAIN ON INVESTMENTS	3	13,035,833.
4	Add lines 1, 2, and 3	4	134,525,914.
5	Decreases not included in line 2 (itemize) ▶ See Statement 10	5	3,182,758.
6	Total net assets or fund balances at end of year (line 4 minus line 5) - Part II, column (b), line 30	6	131,343,156.

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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 1,610,187.			1,610,187.
b 1,005,035.			1,005,035.
c 394,673.			394,673.
d			
e			

Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69			(i) Gains (Col. (h) gain minus col. (k), but not less than -0-) or Losses (from col. (h))
(i) 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	
a			1,610,187.
b			1,005,035.
c			394,673.
d			
e			

2 Capital gain net income or (net capital loss)	2	3,009,895.
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	1,610,187.

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))
2009			
2008			
2007			
2006			
2005			

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 2010 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 If line 8 is equal to or greater than line 7, check the box in Part VI, line 1b, and complete that part using a 1% tax rate. See the Part VI instructions.	8	

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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		
c	All other domestic foundations enter 2% of line 27b. Exempt foreign organizations enter 4% of Part I, line 12, col. (b).		
2	Tax under section 511 (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)	2	
3	Add lines 1 and 2	3	
4	Subtitle A (income) tax (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)	4	
5	Tax based on investment income. Subtract line 4 from line 3. If zero or less, enter -0-	5	0.
6	Credits/Payments:		
a	2010 estimated tax payments and 2009 overpayment credited to 2010	6a	
b	Exempt foreign organizations - tax withheld at source	6b	
c	Tax paid with application for extension of time to file (Form 8868)	6c	
d	Backup withholding erroneously withheld	6d	
7	Total credits and payments. Add lines 6a through 6d	7	0.
8	Enter any penalty for underpayment of estimated tax. Check here ☐ if Form 2220 is attached	8	
9	Tax due. If the total of lines 5 and 8 is more than line 7, enter amount owed	9	0.
10	Overpayment. If line 7 is more than the total of lines 5 and 8, enter the amount overpaid	10	
11	Enter the amount of line 10 to be: Credited to 2011 estimated tax ☐ Refunded ☐	11	

Part VII-A Statements Regarding Activities

	Yes	No
1a During the tax year, did the foundation attempt to influence any national, state, or local legislation or did it participate or intervene in any political campaign?		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
d 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 2010 or the taxable year beginning in 2010 (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		X
12	Did the foundation acquire a direct or indirect interest in any applicable insurance contract before August 17, 2008?	12		X
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	X	
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 2010, 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 page 20 of 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 X

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 page 22 of the instructions)? Organizations relying on a current notice regarding disaster assistance check here ► ☐	1b	X
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 2010?	1c	X
2 Taxes on failure to distribute income (section 4942) (does not apply for years the foundation was a private operating foundation defined in section 4942(j)(3) or 4942(j)(5)):		
a At the end of tax year 2010, did the foundation have any undistributed income (lines 6d and 6e, Part XIII) for tax year(s) beginning before 2010? ☐ 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 2010 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 2010) N/A	3b	
4a Did the foundation invest during the year any amount in a manner that would jeopardize its charitable purposes?	4a	X
b Did the foundation make any investment in a prior year (but after December 31, 1969) that could jeopardize its charitable purpose that had not been removed from jeopardy before the first day of the tax year beginning in 2010?	4b	X

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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 17		489,631.	115000.	41,988.

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	118,459.	30,000.	11,846.
RICHARD WIENER - 4703 E. CAMP LOWELL, #201, TUCSON, AZ 85712	PROGRAM OFFICER	113,878.	11,388.	11,388.
DAN HUFF - 4703 E. CAMP LOWELL, #201, TUCSON, AZ 85712	DIR. OF COMMUNICATIONS	75,573.	7,557.	7,557.
LINDA NEEFE - 4703 E. CAMP LOWELL, #201, TUCSON, AZ 85712	EX. ASST. TO THE PRESIDENT	68,327.	15,000.	6,833.
TOMMY GOODENOW - 4703 E. CAMP LOWELL, #201, TUCSON, AZ 85712	NETWORK ADMINISTRATOR	59,287.	5,928.	5,928.

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	1,391,209.
CHANGING OUR WORLD - 220 EAST 42ND STREET, 5TH FLOOR, NEW YORK, NY 10017	FUNDRAISING/MEDIA CONSULTING	266,599.
CAPITAL GUARDIAN TRUST COMPANY P.O. BOX 35353, SANTA ANA, CA 92799-5353	INVESTMENT MANAGEMENT	166,345.
THE ACCORD GROUP - 1730 RHODE ISLAND AVENUE NW SUITE 700, WASHINGTON, DC 20036	FUNDRAISING/MEDIA CONSULTING	145,917.
GOODMAN MEDIA - 750 SEVENTH AVENUE, 28TH FLOOR, NEW YORK, NY 10019	FUNDRAISING/MEDIA CONSULTING	124,059.
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 20	
2	0.
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	
3 All other program-related investments. See instructions.	
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	67,644,908.
b	Average of monthly cash balances	1b	4,728,354.
c	Fair market value of all other assets	1c	65,677,804.
d	Total (add lines 1a, b, and c)	1d	138,051,066.
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	138,051,066.
4	Cash deemed held for charitable activities. Enter 1 1/2% of line 3 (for greater amount, see instructions)	4	2,070,766.
5	Net value of noncharitable-use assets. Subtract line 4 from line 3. Enter here and on Part V, line 4	5	135,980,300.
6	Minimum investment return. Enter 5% of line 5	6	6,799,015.

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 2010 from Part VI, line 5	2a	
b	Income tax for 2010. (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	8,047,464.
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	8,047,464.
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	8,047,464.

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 (2010)

Part XIII Undistributed Income (see instructions)

N/A

	(a) Corpus	(b) Years prior to 2009	(c) 2009	(d) 2010
1 Distributable amount for 2010 from Part XI, line 7				
2 Undistributed income, if any, as of the end of 2010				
a Enter amount for 2009 only				
b Total for prior years:				
3 Excess distributions carryover, if any, to 2010:				
a From 2005				
b From 2006				
c From 2007				
d From 2008				
e From 2009				
f Total of lines 3a through e				
4 Qualifying distributions for 2010 from Part XII, line 4: ► \$				
a Applied to 2009, 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 2010 distributable amount				
e Remaining amount distributed out of corpus				
5 Excess distributions carryover applied to 2010 (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 2009. Subtract line 4a from line 2a. Taxable amount - see instr.				
f Undistributed income for 2010. Subtract lines 4d and 5 from line 1. This amount must be distributed in 2011				
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 2005 not applied on line 5 or line 7				
9 Excess distributions carryover to 2011. Subtract lines 7 and 8 from line 6a				
10 Analysis of line 9:				
a Excess from 2006				
b Excess from 2007				
c Excess from 2008				
d Excess from 2009				
e Excess from 2010				

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

Form 990-PF (2010)

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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 2010, 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)					
2 a Enter the lesser of the adjusted net income from Part I or the minimum investment return from Part X for each year listed	Tax year	Prior 3 years			(e) Total
	(a) 2010	(b) 2009	(c) 2008	(d) 2007	
b 85% of line 2a	6,799,015.	4,541,715.	5,001,402.	8,870,347.	25212479.
c Qualifying distributions from Part XII, line 4 for each year listed	5,779,163.	3,860,458.	4,251,192.	7,539,795.	21430607.
d Amounts included in line 2c not used directly for active conduct of exempt activities	8,047,464.	8,093,690.	8,992,995.	9,841,831.	34975980.
e Qualifying distributions made directly for active conduct of exempt activities.					
Subtract line 2d from line 2c	0.	0.	0.	0.	0.
3 Complete 3a, b, or c for the alternative test relied upon:	8,047,464.	8,093,690.	8,992,995.	9,841,831.	34975980.
a "Assets" alternative test - enter:					
(1) Value of all assets	139,087,454.	139,582,083.	116,865,124.	178,455,427.	573,990,088.
(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	4,532,677.	4,281,692.	4,847,460.	5,913,565.	19575394.
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 the 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 23

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.

RESEARCH CORPORATION DBA Research
Corporation for Science Advancement**Part XV** Supplementary Information (continued)**3** Grants and Contributions Paid During the Year or Approved for Future Payment

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
a Paid during the year				
Total	See Attached Statement(s)			4619832.
b Approved for future payment				
Total	See Attached Statement(s)			3501054.

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 | 1a(1) | X |
| | (2) Other assets | 1a(2) | X |
| b | Other transactions: | | |
| | (1) Sales of assets to a noncharitable exempt organization | 1b(1) | X |
| | (2) Purchases of assets from a noncharitable exempt organization | 1b(2) | X |
| | (3) Rental of facilities, equipment, or other assets | 1b(3) | X |
| | (4) Reimbursement arrangements | 1b(4) | X |
| | (5) Loans or loan guarantees | 1b(5) | X |
| | (6) Performance of services or membership or fundraising solicitations | 1b(6) | X |
| c | Sharing of facilities, equipment, mailing lists, other assets, or paid employees | 1c | X |
| d | If the answer to any of the above is "Yes," complete the following schedule. Column (b) should always show the fair market value of the goods, other assets, or services given by the reporting foundation. If the foundation received less than fair market value in any transaction or sharing arrangement, show in column (d) the value of the goods, other assets, or services received. | | |

[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		

**Sign
Here**

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

Signature of officer or trustee

Date _____

Title

Print/Type preparer's name

Preparer's signature

Date _____

Check ☐ self-employed

PTIN

**Paid
Preparer
Use Only**

Carla J. Keegan

Firm's name ► Keegan, Linscott & Kenon, P.C.

Firm's address ► 33 N. Stone Avenue, Suite 1100
Tucson, AZ 85701

Phone no. 520-884-0176

Form **990-PF** (2010)

2010 DEPRECIATION AND AMORTIZATION REPORT

Form 990-PF Page 1

990-PF

Asset No	Description	Date Acquired	Method	Life	C o n v	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	Various	SL	5.00		HY16	301,879.				301,879.	279,830.		22,049.	301,879.
	Furniture & Fixtures Other						301,879.				301,879.	279,830.		22,049.	301,879.
11	TENANT IMPROVEMENTS * 990-PF Pg 1 Total Other	Various	SL	10.00		HY16	496,312.				496,312.	331,800.		49,631.	381,431.
	* 990-PF Pg 1 Total - * Grand Total 990-PF Pg 1 Depr						798,191.				798,191.	611,630.		71,680.	683,310.
							798,191.				798,191.	611,630.		71,680.	683,310.

Form 990-PF Interest on Savings and Temporary Cash Investments Statement 1

Source	Amount
Interest Income	1,416,781.
Total to Form 990-PF, Part I, line 3, Column A	1,416,781.

Form 990-PF Dividends and Interest from Securities Statement 2

Source	Gross Amount	Capital Gains Dividends	Column (A) Amount
Interest & Dividend Income	3,831,492.	0.	3,831,492.
MMA Interest	7,126.	0.	7,126.
Other Interest	4,167.	0.	4,167.
Total to Fm 990-PF, Part I, ln 4	3,842,785.	0.	3,842,785.

Form 990-PF Rental Income Statement 3

Kind and Location of Property	Activity Number	Gross Rental Income
Real estate - AG Realty Fund IV, L.P.	2	28,116.
Real estate - AG Realty Fund V, L.P.	3	24,131.
Real estate - AG Realty Fund VI, L.P.	4	<119,070.>
Real estate - AG Super Fund, L.P.	5	<44,586.>
Total to Form 990-PF, Part I, line 5a		<111,409.>

Form 990-PF Other Income Statement 4

Description	(a) Revenue Per Books	(b) Net Invest- ment Income	(c) Adjusted Net Income
Other Income	448.	448.	448.
Other Income (Loss) From K-1s	41,064.	41,064.	41,064.
Total to Form 990-PF, Part I, line 11	41,512.	41,512.	41,512.

Form 990-PF	Legal Fees			Statement	5
Description	(a) Expenses Per Books	(b) Net Invest- ment Income	(c) Adjusted Net Income	(d) Charitable Purposes	
LEGAL FEES	28,223.	0.	0.	28,223.	
To Fm 990-PF, Pg 1, ln 16a	28,223.	0.	0.	28,223.	

Form 990-PF	Accounting Fees			Statement	6
Description	(a) Expenses Per Books	(b) Net Invest- ment Income	(c) Adjusted Net Income	(d) Charitable Purposes	
AUDIT AND TAX FEES	53,341.	8,800.	0.	44,541.	
To Form 990-PF, Pg 1, ln 16b	53,341.	8,800.	0.	44,541.	

Form 990-PF	Other Professional Fees			Statement	7
Description	(a) Expenses Per Books	(b) Net Invest- ment Income	(c) Adjusted Net Income	(d) Charitable Purposes	
CONSULTING	887,531.	0.	0.	887,531.	
To Form 990-PF, Pg 1, ln 16c	887,531.	0.	0.	887,531.	

Form 990-PF	Taxes			Statement	8
Description	(a) Expenses Per Books	(b) Net Invest- ment Income	(c) Adjusted Net Income	(d) Charitable Purposes	
FICA AND STATE UNEMPLOYMENT UBI TAXES	68,505. 5,302.	0. 0.	0. 0.	65,087. 0.	
To Form 990-PF, Pg 1, ln 18	73,807.	0.	0.	65,087.	

Form 990-PF	Other Expenses			Statement	9
Description	(a) Expenses Per Books	(b) Net Invest- ment Income	(c) Adjusted Net Income	(d) Charitable Purposes	
ADVERTISING	8,213.	0.	0.	8,213.	
BOOK PROJECTS	896.	0.	0.	896.	
MISCELLANEOUS	51,156.	0.	0.	51,156.	
OFFICE SUPPLIES	29,060.	0.	0.	29,060.	
COMPUTER-RELATED EXPENSES	67,807.	0.	0.	67,807.	
INSURANCE	21,780.	0.	0.	21,780.	
INVESTMENT EXPENSES	166,345.	166,345.	0.	0.	
POSTAGE AND SHIPPING	6,436.	0.	0.	6,436.	
PROGRAM RELATED EXPENSES	48,870.	0.	0.	48,870.	
LOCAL BUSINESS MEETINGS	3,852.	0.	0.	3,852.	
TELEPHONE	23,621.	0.	0.	23,621.	
ALLOCATED COSTS	1.	0.	0.	1.	
ACCRUAL-TO-CASH ADJUSTMENT	0.	0.	0.	<93,671.>	
To Form 990-PF, Pg 1, ln 23	428,037.	166,345.	0.	168,021.	

Form 990-PF	Other Decreases in Net Assets or Fund Balances	Statement	10
Description		Amount	
BOOK/TAX DIFFERENCES FROM SCHEDULE K-1'S		3,182,758.	
Total to Form 990-PF, Part III, line 5		3,182,758.	

Form 990-PF Other Notes and Loans Reported Separately Statement 11

Borrower's Name			Terms of Repayment	Interest Rate
LBT REIMBURSABLE				.00%
Date of Note	Maturity Date	Original Loan Amount	Description of Consideration	FMV of Consideration
		0.		0.

Security Provided by Borrower Purpose of Loan

Relationship of Borrower	Balance Due	Doubtful Acct Allowance	FMV of Loan
	1,503,527.	0.	0.

Borrower's Name			Terms of Repayment	Interest Rate
OTHER RECEIVABLES				.00%
Date of Note	Maturity Date	Original Loan Amount	Description of Consideration	FMV of Consideration
		0.		0.

Security Provided by Borrower Purpose of Loan

Relationship of Borrower	Balance Due	Doubtful Acct Allowance	FMV of Loan
	8,590.	0.	0.

Total to Form 990-PF, Part II, line 7	1,512,117.	0.	0.
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Form 990-PF	Corporate Stock	Statement	12
Description	Book Value	Fair Market Value	
CGT INVESTMENTS	73,259,197.	73,259,197.	
Total to Form 990-PF, Part II, line 10b	73,259,197.	73,259,197.	

Form 990-PF	Other Investments	Statement	13
Description	Valuation Method	Book Value	Fair Market Value
NOTE RECEIVABLE - RCT	FMV	0.	0.
PORTFOLIO INVESTMENTS	FMV	46,513,826.	46,513,826.
MONEY MARKET MUTUAL FUND	FMV	17,157,104.	17,157,104.
Total to Form 990-PF, Part II, line 13		63,670,930.	63,670,930.

Form 990-PF	Depreciation of Assets Not Held for Investment	Statement	14
Description	Cost or Other Basis	Accumulated Depreciation	Book Value
TENANT IMPROVEMENTS	496,312.	381,431.	114,881.
FURNITURE, FIXTURES, AND EQUIPMENT	301,879.	301,879.	0.
Total To Fm 990-PF, Part II, ln 14	798,191.	683,310.	114,881.

Form 990-PF	Other Assets	Statement	15
Description	Beginning of Yr Book Value	End of Year Book Value	Fair Market Value
DIVIDENDS AND INTEREST REC.	110,876.	140,793.	140,793.
OTHER ASSETS	285,844.	283,196.	283,196.
To Form 990-PF, Part II, line 15	396,720.	423,989.	423,989.

Form 990-PF	Other Liabilities	Statement	16
Description	BOY Amount	EOY Amount	
LINE OF CREDIT	10,200,000.	0.	
POSTRETIREMENT PENSION LIABILITY	1,198,958.	1,098,984.	
PENSION LIABILITY	808,615.	1,013,958.	
LBT LIABILITY	1,478,199.	1,416,094.	
LSST LIABILITY	75,000.	50,000.	
Total to Form 990-PF, Part II, line 22	13,760,772.	3,579,036.	

Form 990-PF	Part VIII - List of Officers, Directors Trustees and Foundation Managers	Statement	17
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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	261,250.	75,000.	24,000.
MR. DANIEL GASCH 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	CHIEF FINANCIAL OFFICER 40.00	179,881.	40,000.	17,988.
DR. MARTHA GILLILAND 4703 E. CAMP LOWELL, SUITE 201 TUCSON, AZ 85712	VICE PRESIDENT 32.00	48,500.	0.	0.
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. ROBER 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

489,631.	115,000.	41,988.
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STATEMENT 18

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	\$ 799,642.00	Short-Term Capital Gain
CG Global Equity Fund	K-1 FLOW THROUGH	1,189,944.00	Long-Term Capital Gain
AG Capital Recovery Partners, L.P.	K-1 FLOW THROUGH	-	Short-Term Capital Gain
AG Capital Recovery Partners, L.P.	K-1 FLOW THROUGH	45,267.00	Long-Term Capital Gain
AG Capital Recovery Partners V, L.P.	K-1 FLOW THROUGH	-	Short-Term Capital Gain
AG Capital Recovery Partners V, L.P.	K-1 FLOW THROUGH	-	Long-Term Capital Gain
AG Capital Recovery Partners VI, L.P.	K-1 FLOW THROUGH	138,333.00	Short-Term Capital Gain
AG Capital Recovery Partners VI, L.P.	K-1 FLOW THROUGH	383,022.00	Long-Term Capital Gain
AG Capital Recovery Partners VI, L.P.	K-1 FLOW THROUGH	25.00	Long-Term Capital Gain
AG Realty Fund IV, L.P.	K-1 FLOW THROUGH	(49,942.00)	Long-Term Capital Gain
AG Realty Fund V, L.P.	K-1 FLOW THROUGH	37,742.00	Long-Term Capital Gain
AG Realty Fund VI, L.P.	K-1 FLOW THROUGH	136,851.00	Long-Term Capital Gain
AG Core Plus Realty Fund, L.P.	K-1 FLOW THROUGH	672,212.00	Short-Term Capital Gain
AG Super Fund, LP	K-1 FLOW THROUGH	(343,201.00)	Long-Term Capital Gain
AG Super Fund, LP	K-1 FLOW THROUGH		Short-Term Capital Gain
Emerging Markets Growth Fund	K-1 FLOW THROUGH		Long-Term Capital Gain
Emerging Markets Growth Fund	K-1 FLOW THROUGH		

Capital Gain Net Income or (Net Capital Loss) \$ 3,009,895.00 Form 990-PF, Part IV, Line 2

Net short-term capital gain or (loss) as defined in IRC Sec. 1225(5) and (6). \$ 1,610,187.00 Form 990-PF, Part IV, Line 3

Research Corporation
 EIN 13-1963407
 Statement 19

<u>Date</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
Charitable contributions			
01/14/2010	World Care Inc	Haiti relief	500 00
01/21/2010	Tucson Festival of Books	2010 Fest of Books	5,000 00
01/21/2010	Metropolitan Education Commission	Key to Emp workshop sponsorship CC 2010	500 00
01/21/2010	Community Food Bank	2010 CC	500 00
02/10/2010	University of Arizona	Innovation day 2010	500 00
02/18/2010	United Way of Tucson	table at the C Of I luncheon	500 00
02/24/2010	YMCA of Metropolitan Tucson	2010 Gift	500 00
02/24/2010	Tucson Children's Museum	2010	500 00
03/03/2010	Pima Council on Aging	2010 Copper Sponsor CC Gala Sponsorship	1,500 00
03/15/2010	United Way of Tucson	RC Match thru 03/31/10	3,120 00
03/25/2010	Rosenberg Media LLC	Half Page Schafer ad in Spring edition	1,291 00
04/13/2010	Carondelet Foundation	Annual dinner table sponsorship	1,500 00
04/29/2010	Angel Charity for Children, Inc	2010 CC	5,000 00
05/31/2010	United Way of Tucson	RC Match thru 06/30/10	920 00
06/23/2010	United Way of Tucson	accrue 06/30 payable	270 00
06/23/2010	United Way of Tucson	to reverse accrual of pledge for 06/30/10	-270 00
07/08/2010	Tucson Community Foundation	Imagine Pinda	500 00
07/09/2010	Special Olympics Arizona		250 00
08/12/2010	University of Arizona Foundation	2010 R N R /UA DRC	1,500 00
10/07/2010	United Way of Tucson	3rd Qtr match	240 00
11/03/2010	New Beginnings for Women & Children	2010 Poinsetta fundraiser	150 00
12/09/2010	AAC&U	2010 Charitable gift	2,000 00
12/09/2010	Arizona Friends of Chamber Music	2010 charitable contribution	1,000 00
12/21/2010	Educational Marketing Group, Inc	PSA on Arizona Student Radio	645 00
12/27/2010	United Way of Tucson	4th Qtr match	300 00
12/27/2010	United Way of Tucson	to reverse accrual of pledge for 12/31/10	-270 00
Total Charitable contributions			<u>28,146.00</u>

Schedule of Appropriations and Payments

12/31/2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
ACS Division of Chemical Education 2225 S. Earl Ave. Lafayette, IN 47908-2266 <i>Funding towards the 2010 ACS symposium "Chemistry and the Developing World"</i>		\$5,000 00	\$0 00	\$0 00	\$5,000 00	\$0 00
\$5,000 00 2009						
American Institute of Physics One Physics Ellipse College Park, MD 20740 <i>Funding to support travel of Nobel Laureates in chemistry and physics to minority serving institutions (MSIs)</i>		\$34,000 00	\$0 00	\$0 00	\$0 00	\$34,000 00
\$50,000.00 2006						
American Physical Society One Physics Ellipse College Park, MD 20740-3844 <i>Edward A. Bouchet Lectureship Award,</i>		\$9,427 00	\$0 00	\$0 00	\$0 00	\$9,427.00
2003-2007 \$40,000 00 2002						
American Physical Society One Physics Ellipse College Park, MD 20740-3844 <i>Research Corporation Prize to a Faculty Member for Research at an Undergraduate Institution (2007-2011)</i>		\$26,463 58	\$0 00	\$0 00	\$12,521.97	\$13,941 61
\$58,000 00 2008						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
American University 4400 Massachusetts Avenue, NW Washington, DC 20016-8003 <i>Knowledge-based redesign of enzymes to identify substrate specificity determinants</i> \$44,993 00 2009		\$44,993 00	\$0 00	\$0 00	\$24,209.00	\$20,784.00
Angelo State University 2601 West Ave N San Angelo, TX 76909 <i>Novel Selenocysteine Insertion System for Protein Labeling and Human Selenoprotein Expression</i> \$35,000.00 2010		\$0.00	\$35,000 00	\$0 00	\$22,526 00	\$12,474 00
Arkansas State University 118 S Caraway Road Jonesboro, AR 72467 <i>Experimental unimolecular rate constants for chemically activated CF₂ClCH₃</i> \$7,000 00		\$0 00	\$0.00	\$0 00	\$7,000 00	-\$7,000 00
Augustana College 2001 South Summit Avenue Sioux Falls, SD 57197 <i>Model Independent Searches for Physics Beyond the Standard Model in Data with Two Bosons</i> \$43,736 00 2009		\$23,277 00	\$0.00	\$0 00	\$23,277 00	\$0 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Barry University		\$0 00	\$35,000 00	\$0 00	\$18,625.00	\$16,375.00
11300 NE 2nd Avenue						
Miami, FL 33161						
Solid-State Synthesis of Porphyrins and						
Construction of Porphyrin-Walled						
Metal-Organic Polyhedra						
\$35,000 00						
2010						
Bates College		\$7,500 00	\$0.00	\$0 00	\$7,500.00	\$0 00
2 Andrews Rd						
Lewiston, ME 04240						
Manipulation of individual nuclear spins in						
diamond						
\$45,000 00						
2009						
Berea College		\$33,581.00	\$0.00	\$0 00	\$33,581.00	\$0.00
101 Chestnut St						
Berea, KY 40404						
Synthesis of Enantioenriched						
beta-Ketoesters via a Ketene-Claisen						
Condensation						
\$33,581 00						
2008						
Berea College		\$11,303.00	\$0 00	\$0 00	\$11,303 00	\$0.00
101 Chestnut St						
Berea, KY 40404						
Strongly Correlated Fermionic Atoms in						
Rapidly Rotating Traps						
\$29,476 00						
2008						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Boston University		\$0 00	\$100,000.00	\$0 00	\$50,000 00	\$50,000 00
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						
2010						
Boston University		\$0 00	\$30,000.00	\$0.00	\$0 00	\$30,000.00
One Sherborn Street Boston, MA 02215						
<i>High Spatial Resolution Electrochemistry of Biological Inspired Systems</i>						
\$30,000.00						
2010						
Bowdoin College		\$16,574 00	\$0 00	\$0 00	\$16,574.00	\$0.00
6600 College Station Brunswick, ME 04011						
<i>Hijacking the Pseudaminic Acid Biosynthetic Pathway to Eliminate Helicobacter pylori Infection</i>						
\$45,000 00						
2008						
Bowdoin College		\$14,574 00	\$0 00	\$0 00	\$14,574.00	\$0 00
6600 College Station Brunswick, ME 04011						
<i>Multiplex coherent anti-Stokes Raman spectroscopy of optically trapped aerosols to study oxidation and growth mechanisms</i>						
\$44,900 00						
2009						

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Recipient and/or Purpose	Tax Status	Beginning Balance		Newly Allocated		Amended		Amount Paid		Ending Balance	
		2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
Butler University		\$0 00		\$35,000 00		\$0 00		\$17,500 00		\$17,500 00	
4600 Sunset Avenue											
Indianapolis, IN 46208											
<i>Identification and Characterization of</i>											
<i>Anaphase Promoting Complex Substrates</i>											
<i>that Regulate Synaptic Transmission in C</i>											
<i>Elegans</i>											
\$35,000 00											
2010											
Cal Poly, San Luis Obispo		\$0 00		\$35,000.00		\$0 00		\$17,785 00		\$17,215 00	
1 Grand Avenue											
San Luis Obispo, CA 93407											
<i>Incorporation of Latent Cysteine-Like</i>											
<i>Residues for the Development Novel</i>											
<i>Coupling Chemistry</i>											
\$35,000 00											
2010											
Cal Poly, San Luis Obispo		\$0 00		\$35,000 00		\$0 00		\$20,241 00		\$14,759 00	
1 Grand Avenue											
San Luis Obispo, CA 93407											
<i>Discovery of Helicobacter Pylori</i>											
<i>Aldo-Keto Reductase Inhibitors</i>											
\$35,000.00											
2010											
Cal Poly, Pomona		\$25,569.00		\$0.00		-\$25,569.00		\$0.00		\$0 00	
3801 W. Temple Avenue											
Pomona, CA 91768											
<i>Computational/Spectroscopic</i>											
<i>Determination of Residue-Specific Binding</i>											
<i>Interactions Between the Antiviral Peptide</i>											
<i>Retrocyclin and a Viral Protein</i>											
\$14,015 00											
2008											

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Cal Poly, Pomona		\$8,070.00	\$0.00	\$0.00	\$8,070.00	\$0.00
3801 W. Temple Avenue						
Pomona, CA 91768						
<i>Beating the Diffraction Limit in</i>						
<i>Photochemistry and Photolithography A</i>						
<i>Feasibility Study With Computer</i>						
<i>Simulations</i>						
\$28,213.00						
2008						
Cal Poly, Pomona		\$17,842.00	\$0.00	\$0.00	\$17,842.00	\$0.00
3801 W Temple Avenue						
Pomona, CA 91768						
<i>Positional Photocleavage Control of</i>						
<i>Nucleic Acid Nanoswitches</i>						
\$35,684.00						
2009						
Cal Poly, Pomona		\$19,341.00	\$0.00	\$0.00	\$19,341.00	\$0.00
3801 W Temple Avenue						
Pomona, CA 91768						
<i>Studying the evolution of</i>						
<i>metallo-beta-lactamases and their role in</i>						
<i>antibiotic resistance through a combined</i>						
<i>computational and experimental approach</i>						
\$37,432.00						
2009						
California State University, Chico		\$0.00	\$35,000.00	\$0.00	\$26,732.00	\$8,268.00
400 West First Street						
Chico, CA 95929-0210						
<i>Electronic and Geometric</i>						
<i>Characterization of Metal-Free and</i>						
<i>Metal-Bound Sulfur Radicals</i>						
\$35,000.00						
2010						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance		Newly Allocated		Amended		Amount Paid		Ending Balance	
		2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
California State University, Fresno		\$17,850.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17,850.00	\$0.00	\$0.00	\$0.00
5241 North Maple											
Fresno, CA 93740											
Electrochemical and Optical Spectroscopic											
Studies on Gold Nanoparticle Properties -											
Effect of Nanoparticle Surroundings											
\$45,000.00											
2009											
California State University, Fullerton		\$4,230.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,230.00	\$0.00	\$0.00	\$0.00
P.O. Box 34080											
Fullerton, CA 92834-6850											
An Integrated Approach to Measuring the											
Hygroscopic Properties of Biomass											
Burning Particles											
\$39,960.00											
2008											
California State University, Fullerton		\$0.00	\$35,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17,500.00	\$17,500.00	\$0.00	\$0.00
P.O. Box 34080											
Fullerton, CA 92834-6850											
Extending the Astronomical Reach of											
Gravitational-											
Wave Detectors with All-Reflective											
Interferometry											
\$35,000.00											
2010											
California State University, Fullerton		\$0.00	\$35,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17,500.00	\$17,500.00	\$0.00	\$0.00
P.O. Box 34080											
Fullerton, CA 92834-6850											
Bacterial Mn(II) oxidation and its role in											
oxidative protection											
\$35,000.00											
2010											

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
California State University, Long Beach 1250 Bellflower Blvd. Long Beach, CA 90840 <i>Elucidating the Chemistry Behind Nitrosamine Carcinogenesis New Redox- Induced Activation Pathways for Nitrosamines at Physiological Conditions</i> \$35,197 00 2007		\$17,339 00	\$0 00	\$0.00	\$17,339 00	\$0 00
California State University, Long Beach 1250 Bellflower Blvd Long Beach, CA 90840 <i>Equilibrium Assessment and Refinement of Molecular Models for Biomolecular Simulation of Lipid Membranes via Distributed Computing Approaches</i> \$39,084 00 2008		\$18,042 00	\$0 00	\$0.00	\$18,042 00	\$0 00
California State University, Long Beach 1250 Bellflower Blvd. Long Beach, CA 90840 <i>Preparation and Screening of a Modular alpha-Helix Peptidomimetic Library</i> \$42,083.00 2008		\$20,342.00	\$0 00	\$0 00	\$20,342 00	\$0.00
California State University, Long Beach 1250 Bellflower Blvd. Long Beach, CA 90840 <i>Design, Synthesis and Physical Properties of Some Novel Brownmillerite Compounds</i> \$35,000 00 2010		\$0 00	\$35,000 00	\$0 00	\$17,842 00	\$17,158.00

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
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>		\$0.00	\$35,000.00	\$0.00	\$17,842.00	\$17,158.00
\$35,000.00 2010						
California State University, Los Angeles 5151 State University Drive Los Angeles, CA 90032- <i>Effects of Hofmeister Anions on Antifreeze Protein Activity</i>		\$11,097.00	\$0.00	\$0.00	\$11,097.00	\$0.00
\$45,000.00 2009						
California State University, Northridge 18111 Nordhoff Street Northridge, CA 91330 <i>Development of Trinuclear Zirconium Complexes for the Activation and Reduction of Nitrogen</i>		\$19,609.00	\$0.00	\$0.00	\$19,609.00	\$0.00
\$45,000.00 2009						
California State University, Northridge 18111 Nordhoff Street Northridge, CA 91330 <i>Measurement of the angular scattering properties of Los Angeles area particulate matter Application to climate and visibility</i>		\$12,842.00	\$0.00	\$0.00	\$12,842.00	\$0.00
\$43,184.00 2009						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
California State University, Northridge 18111 Nordhoff Street Northridge, CA 91330 <i>Semiconducting nanosolids new route to solar energy conversion</i> 2009		\$35,066 00	\$0 00	\$0 00	\$17,533 00	\$17,533.00
California State University, Northridge 18111 Nordhoff Street Northridge, CA 91330 <i>Mesoscopic Ion Transport in Graphene Nanopores</i> 2009		\$34,984.00	\$0 00	\$0.00	\$17,492 00	\$17,492 00
California State University, San Marcos 333 S Twin Oaks Valley Rd San Marcos, CA 92096-0001 <i>Characterizing the Subcritical Transition to Turbulence in Taylor-Couette Flow</i> 2010		\$0.00	\$35,000 00	\$0 00	\$26,926 00	\$8,074 00
Calvin College 3201 Burton St SE Grand Rapids, MI 49546 <i>Identifying the Role of Aromatic Networks in Amyloid Protofibril Formation and Anti-Alzheimer's Therapeutic Action</i> 2008		\$17,592 00	\$0 00	\$0.00	\$0.00	\$17,592 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Canisius College 2001 Main Street Buffalo, NY 14208- <i>In-medium Properties of the rho, omega, and phi Mesons at Jefferson Lab</i>		\$42,500.00	\$0.00	\$0.00	\$24,390.00	\$18,110.00
2009						
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>		\$0.00	\$35,000.00	\$0.00	\$27,500.00	\$7,500.00
\$35,000.00 2010						
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>		\$0.00	\$100,000.00	\$0.00	\$50,000.00	\$50,000.00
\$100,000.00 2010						
Central Michigan University Office of the President Mount Pleasant, MI 48859-0001 <i>Calculation of Magnetic Parameters from Noncollinear Spin Density Functional Theory</i>		\$13,842.00	\$0.00	\$0.00	\$13,842.00	\$0.00
\$33,684.00 2008						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Central Michigan University Office of the President Mount Pleasant, MI 48859-0001 <i>Investigating the connection between rapid stellar spin and disk formation mechanisms in early-type stars</i> \$29,366 00 2009		\$14,342 00	\$0.00	\$0 00	\$14,342 00	\$0 00
Central Washington University 400 East University Way Ellensburg, WA 98926 <i>Systematic Identification of Protein-Protein Interactions Mediating Induction of Functional Areas in Mammalian Neocortex</i> \$35,000 00 2010		\$0 00	\$35,000.00	\$0.00	\$18,000 00	\$17,000 00
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 in Rotational Spectra</i> \$45,000 00 2009		\$17,500.00	\$0 00	\$0.00	\$0 00	\$17,500 00
College of Charleston 66 George Street Charleston, SC 29424 <i>Absorption and Scattering in Correlated Random Media</i> \$35,000.00 2010		\$0.00	\$35,000 00	\$0 00	\$0 00	\$35,000 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
College of New Jersey 2000 Pennington Rd Ewing, NJ 08628 <i>Full 3-D Receiver Function Common Conversion Point Stacking with Verification from Synthetic Seismograms for the Afar Hotspot</i> \$44,000.00 2009		\$7,000.00	\$0.00	\$0.00	\$7,000.00	\$0.00
College of New Jersey 2000 Pennington Rd Ewing, NJ 08628 <i>Experimental Investigation of Depositional Mechanisms in Ice Crystals under Cirrus-Like Conditions</i> \$35,000.00 2010		\$0.00	\$35,000.00	\$0.00	\$26,875.00	\$8,125.00
College of William and Mary P O Box 8795 Williamsburg, VA 23187 <i>Chiral Non-racemic Bicyclic Diketopiperazines A Common Precursor to Explore Diverse Asymmetric Reactions</i> \$35,000.00 2010		\$0.00	\$35,000.00	\$0.00	\$18,000.00	\$17,000.00
Columbia University 3000 Broadway New York, NY 10027 <i>Achieving Synthetic Control When Nature Abandons Selectivity Total Synthesis of Oligomeric Natural Products</i> \$100,000.00 2009		\$5,000.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Cornell University 120 Day Hall Ithaca, NY 14853 <i>Shedding Light on Quantum Interactions in New Correlated Electronic States of Matter</i>		\$0.00	\$75,000.00	\$0.00	\$0.00	\$75,000.00
2010 CUNY, Lehman College 250 Bedford Park Boulevard West Bronx, NY 10468-1589 <i>Temporal and Spatial Resolution of Fundamental Processes in Quantum Field Theory</i>		\$17,079.00	\$0.00	\$0.00	\$17,079.00	\$0.00
2007 CUNY, York College 94-20 Guy Brewer Blvd. Jamaica, NY 11451 <i>Investigating the Gas Phase Chemistry of Phosphorylated Peptide Ions Using Mass Spectrometry</i>		\$21,106.00	\$0.00	\$0.00	\$21,106.00	\$0.00
2008 Davidson College Davidson, NC 28035- <i>Folding and Misfolding of Myelin Protein Zero Mutants Implicated in Peripheral Neuropathy</i>		\$14,268.00	\$0.00	\$0.00	\$0.00	\$14,268.00
2009						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
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 2009		\$41,682.00	\$0.00	\$0.00	\$25,341.00	\$16,341.00
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 2010		\$0.00	\$35,000.00	\$0.00	\$23,750.00	\$11,250.00
DePaul University 25 E. Jackson Boulevard Chicago, IL 60604 <i>Transient Strain Generated by the Momentum of Light</i> \$33,877.00 2009		\$33,877.00	\$0.00	\$0.00	\$25,803.00	\$8,074.00
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 2010		\$0.00	\$35,000.00	\$0.00	\$19,660.00	\$15,340.00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Earth & Sky, Inc. PO Box 1965 Austin, TX 78767-1965 <i>The Sky in Google Earth</i> \$389,989 00 2008		\$134,024.00	\$0.00	\$0 00	\$134,024 00	\$0 00
East Carolina University East Fifth Street Greenville, NC 27858 <i>Investigation on Luminescent Tetradentate Cyclometalated Platinum(II) Complexes Synthesis, Photophysics, and Application</i> \$45,000.00 2008		\$21,219 00	\$0 00	\$0 00	\$21,219 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 2009		\$41,175.00	\$0.00	\$0.00	\$25,303 00	\$15,872.00
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 2010		\$0 00	\$35,000 00	\$0 00	\$23,500 00	\$11,500 00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
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 2010		\$0 00	\$35,000 00	\$0 00	\$21,500 00	\$13,500 00
Emory University 201 Dowman Dr Atlanta, GA 30322 <i>Directed evolution of hydrogenase for efficient light-driven hydrogen production via quantum dot-enzyme hybrid systems</i> \$100,000 00 2010		\$0 00	\$100,000 00	\$0 00	\$50,000 00	\$50,000 00
Emory University 201 Dowman Dr Atlanta, GA 30322 <i>High Spatial Resolution Electrochemistry of Biological Inspired Systems</i> \$30,000 00 2010		\$0 00	\$30,000 00	\$0 00	\$0 00	\$30,000 00
Fairfield University 1073 North Benson Road Fairfield, CT 06824-5195 <i>Electrochemical and Spectroscopic Characterization of Proteins Organized Within Superstructures and Encapsulated Within Aerogels</i> \$44,754 00 2008		\$22,377 00	\$0 00	\$0 00	\$22,377 00	\$0 00

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
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 in breast cancer</i>		\$75,000.00	\$0.00	\$0.00	\$50,000.00	\$25,000.00
2009						
Franklin and Marshall College PO Box 3003 Lancaster, PA 17604 <i>Synthesis and Photoelectrochemical Characterization of Earth-Abundant Semiconductors for Solar Energy Conversion</i>		\$16,322.00	\$0.00	\$0.00	\$16,322.00	\$0.00
2008						
Georgia Southern University P.O. Box 8005 Statesboro, GA 30460- <i>An Ultra-Deep Near-Infrared Emission-Line Survey for High Redshift Galaxies</i>		\$18,000.00	\$0.00	\$0.00	\$18,000.00	\$0.00
2008						
Georgian Court University 900 Lakewood Avenue Lakewood, NJ 08701 <i>Origins of the Substrate Specificity of Erythrocyte Pyrimidine 5'-Nucleotidase Type I</i>		\$0.00	\$35,000.00	\$0.00	\$19,735.00	\$15,265.00
2010						
\$35,000.00						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Gettysburg College		\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00
300 N Washington Street Gettysburg, PA 17325						
<i>Transition Metal-Catalyzed Oxidations of Organic Molecules without Traditional Oxidants</i>						
\$35,000.00						
2010						
Gonzaga University		\$11,768.00	\$0.00	\$0.00	\$11,768.00	\$0.00
502 E. Boone Avenue Spokane, WA 99258						
<i>Development and characterization of supported lipid bilayers within mesoporous silica substrates</i>						
\$35,313.00						
2009						
Grand Valley State University		\$18,510.00	\$0.00	\$0.00	\$18,510.00	\$0.00
1 Campus Drive Allendale, MI 49401						
<i>Structural analysis of mutants of the antibiotic resistance enzyme P99 cephalosporinase</i>						
\$44,895.00						
2009						
Grand Valley State University		\$0.00	\$35,000.00	\$0.00	\$27,669.00	\$7,331.00
1 Campus Drive Allendale, MI 49401						
<i>Investigating Polymer Confinement Effects in Model Polymer Nanocomposite Systems Using Positron Annihilation Lifetime Spectroscopy</i>						
\$35,000.00						
2010						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Hamilton College						
198 College Hill Road		\$78,779 00	\$0 00	\$0 00	\$78,779 00	\$0 00
Clinton, NY 13323-1218						
<i>Chemistry and physics departments</i>						
<i>proposal for a Department Development</i>						
<i>Award</i>						
\$500,000 00						
2006						
Hamilton College						
198 College Hill Road		\$0 00	\$35,000.00	\$0 00	\$17,500 00	\$17,500 00
Clinton, NY 13323-1218						
<i>The Synthesis and Evaluation of</i>						
<i>Carbohydrate-Porphyrin Conjugates as</i>						
<i>Asymmetric Catalysts</i>						
\$35,000 00						
2010						
Hamilton College						
198 College Hill Road		\$0 00	\$35,000.00	\$0 00	\$19,391 00	\$15,609.00
Clinton, NY 13323-1218						
<i>Accurate Evaluation of Association Rate</i>						
<i>Constants of Influenza Neuramidase</i>						
<i>Inhibitors</i>						
\$35,000 00						
2010						
Harvey Mudd College						
301 E. 12th Street		\$20,109.00	\$0 00	\$0 00	\$20,109.00	\$0 00
Claremont, CA 91711						
<i>Photon Pair Entanglement in Multiple</i>						
<i>Degrees of Freedom for Quantum</i>						
<i>Communication</i>						
\$41,718 00						
2009						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Harvey Mudd College		\$75,000.00	\$0.00	\$0.00	\$50,000.00	\$25,000.00
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 2009						
Harvey Mudd College		\$0.00	\$35,000.00	\$0.00	\$19,190.00	\$15,810.00
301 E. 12th Street Claremont, CA 91711						
<i>A Mathematical and Experimental Study of Surfactant Spreading on Thin Liquid Films</i>						
\$35,000.00 2010						
Haverford College		\$16,609.50	\$0.00	-\$0.50	\$16,609.00	\$0.00
370 Lancaster Ave Haverford, PA 19041						
<i>Vibrational Spectroscopy of Cysteine Side Chains to Probe Site-Specific Structural Distribution and Dynamics of Proteins</i>						
\$43,218.00 2008						
Hendrix College		\$17,887.00	\$0.00	\$0.00	\$17,887.00	\$0.00
1600 Washington Conway, AR 72032-3080						
<i>Reactive Oxygen Species and CYP2E1-Dependent Oxidation of Mitochondrial DNA in Liver Cells</i>						
\$44,869.00 2008						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
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 2009		\$45,000.00	\$0 00	\$0 00	\$41,555 00	\$3,445 00
Hope College 100 E 8th St Holland, MI 49423-9000 <i>Carbon-Carbon Single Bond Activation for the Carboacylation of Alkenes</i> \$45,000.00 2008		\$12,500 00	\$0.00	\$0 00	\$12,500 00	\$0.00
Hope College 100 E 8th St. Holland, MI 49423-9000 <i>Nonlinear Electrodynamics of Superconducting Thin Films in Microwave Fields</i> \$43,815.00 2009		\$8,074 00	\$0.00	\$0 00	\$8,074.00	\$0 00
Illinois State University Campus Box 8000 Normal, IL 61790-8000 <i>On-Site Monitoring of Emerging Environmental Contaminants with Ambient Mass Spectrometry</i> \$43,950.00 2009		\$43,950 00	\$0.00	\$0.00	\$42,450 00	\$1,500.00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Indiana University at Bloomington 107 South Indiana Avenue Bloomington, IN 47405 <i>Instrumentation and Development of New Techniques for Measuring Molecular Recognition with Ion Currents</i>		\$5,000.00	\$0.00	\$0 00	\$2,500 00	\$2,500 00
\$100,000 00 2009						
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 Catalysts</i>		\$0.00	\$100,000 00	\$0 00	\$50,000 00	\$50,000.00
\$100,000 00 2010						
Ithaca College 953 Danby Rd Ithaca, NY 14850 <i>Conducting Metal Oxides as Stable Catalyst Supports for Fuel Cell Applications</i>		\$0.00	\$35,000 00	\$0 00	\$17,500.00	\$17,500 00
\$35,000 00 2010						
Ithaca College 953 Danby Rd Ithaca, NY 14850 <i>Regulation of gene expression by coupling pre-mRNA splicing with RNA decay</i>		\$0.00	\$35,000.00	\$0 00	\$18,923.00	\$16,077 00
\$35,000 00 2010						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
James Madison University 800 South Main St. Harrisonburg, VA 22807 <i>Department Development Award</i> \$500,000.00 2008		\$174,000.00	\$0.00	\$0.00	\$80,000.00	\$94,000.00
James Madison University 800 South Main St Harrisonburg, VA 22807 <i>Understanding N-Acylethanolamine-Hydrolyzing Acid Amidase</i> \$44,722.00 2008		\$19,995.00	\$0.00	\$0.00	\$19,995.00	\$0.00
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 2009		\$100,000.00	\$0.00	\$0.00	\$60,000.00	\$40,000.00
James Madison University 800 South Main St. Harrisonburg, VA 22807 <i>Radial structure and composition of mantle plumes Implications from seismic discontinuities and travel-times</i> \$35,000.00 2010		\$0.00	\$35,000.00	\$0.00	\$19,391.00	\$15,609.00

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Recipient and/or Purpose	Tax Status	Beginning Balance		Newly Allocated		Amended		Amount Paid		Ending Balance	
		2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
Kalamazoo College		\$41,748 00	\$0 00	\$0 00	\$0 00	\$0 00	\$0 00	\$29,374 00	\$12,374 00		
1200 Academy Street											
Kalamazoo, MI 49006											
<i>Determination of Gamow-Teller Strength</i>											
<i>Distributions and Electron Capture Rates</i>											
<i>for Nuclei (A=40-65) in Pre-supernova</i>											
<i>Stars</i>											
\$41,748 00											
2009											
La Sierra University		\$0.00		\$35,000.00		\$0 00		\$20,897 00	\$14,103 00		
4500 Riverwalk Pkwy											
Riverside, CA 92515-8247											
<i>Analysis of Highly Excited</i>											
<i>Vibrational-Rotational States of Small</i>											
<i>Polyatomic Molecules in Terms of</i>											
<i>Classical Relative Equilibria</i>											
\$35,000 00											
2010											
Lawrence University		\$16,342 00		\$0.00		\$0.00		\$16,342 00	\$0.00		
711 E. Boldt Way											
Appleton, WI 54911											
<i>Measuring the bending stiffness of</i>											
<i>microtubules with varying protofilament</i>											
<i>number</i>											
\$39,584 00											
2009											
Loyola College in Maryland		\$0 00		\$35,000 00		\$0.00		\$17,500 00	\$17,500 00		
4501 North Charles Street											
Baltimore, MD 21210											
<i>Production of alkyl nitrates by the marine</i>											
<i>diatom species Thalassiosira weissflogii</i>											
<i>and Skeletonema costatum</i>											
\$35,000 00											
2010											

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance		Newly Allocated		Amended		Amount Paid		Ending Balance	
		2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
Loyola University of Chicago 6525 North Sheridan Road Chicago, IL 60626 <i>Development and Application of Hydrodynamic Models for Granular Media</i>		\$0.00		\$35,000.00		\$0.00		\$21,500.00		\$13,500.00	
2010											
Macalester College 1600 Grand Avenue St. Paul, MN 55105 <i>Characterization of the Interaction of Copper With Inhibitor of Apoptosis Protein</i>		\$14,479.00		\$0.00		\$0.00		\$14,479.00		\$0.00	
2010											
Zinc-Binding Domains \$44,988.00 2008											
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		\$0.00		\$0.00		\$50,000.00		\$25,000.00	
2009											
Marshall University One John Marshall Drive Huntington, WV 25755 <i>Characterization of Radical Intermediates in the C2H3 + O2 Reaction</i>		\$43,954.00		\$0.00		\$0.00		\$22,577.00		\$21,377.00	
2009											

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Marshall University		\$0.00	\$35,000.00	\$0.00	\$19,672.00	\$15,328.00
One John Marshall Drive Huntington, WV 25755						
<i>A Structure and Function Analysis of Aptamer Monolayers Created from Self-Assembling DNA Dendron Conjugates</i>						
\$35,000.00						
2010						
Missouri State University		\$0.00	\$35,000.00	\$0.00	\$20,726.00	\$14,274.00
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						
2010						
Monmouth College		\$20,332.00	\$0.00	\$0.00	\$20,332.00	\$0.00
700 E Broadway Monmouth, IL 61462						
<i>ESR Investigation of the Peroxidase Activity of Modified Cytochrome C</i>						
\$43,119.00						
2008						
Mount Holyoke College		\$17,556.00	\$0.00	\$0.00	\$17,556.00	\$0.00
50 College Street South Hadley, MA 01075						
<i>Investigation and Control of Magnetic Nanorings using a Scanning Probe Microscope</i>						
\$45,000.00						
2008						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Mount Holyoke College 50 College Street South Hadley, MA 01075 <i>Graph theoretic methods to find conduction pathways through grain boundaries</i> \$75,000 00 2009		\$75,000 00	\$0.00	\$0.00	\$50,000 00	\$25,000 00
National Optical Astronomy Observatory 950 N Cherry Avenue Tucson, AZ 85726-6732 <i>Benchmarking the Evolutionary State of Young Stars with Photometric Observations</i> \$14,000 00 2010		\$0 00	\$14,000.00	\$0.00	\$14,000.00	\$0.00
New College of Florida 5700 North Tamiami Trail Sarasota, FL 34243- <i>Multi-Dimensional Rotational Spectroscopy of Molecules at Room Temperature</i> \$38,546.00 2009		\$12,109.00	\$0 00	\$0 00	\$12,109 00	\$0 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 2010		\$0 00	\$100,000.00	\$0 00	\$50,000.00	\$50,000 00

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Northeastern University 360 Huntington Avenue Boston, MA 02115 <i>At the Interface of Chemistry and Biology</i> <i>Integrating teaching and research on</i> <i>mutagenic DNA polymerases</i> \$100,000.00 2009		\$5,000.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00
Northern Arizona University South San Francisco St Flagstaff, AZ 86011 <i>The Next Generation of Sandwich</i> <i>Complexes Understanding How</i> <i>Palladium, Platinum and PAH's Can</i> <i>Create New Types of Networks</i> \$29,454.00 2009		\$14,727.00	\$0.00	\$0.00	\$14,727.00	\$0.00
Occidental College 1600 Campus Road Los Angeles, CA 90041 <i>Targeting sulfated ligands to unnatural</i> <i>amino acids on virus platforms for</i> <i>generation of polyvalent nanoparticles</i> <i>with heparin-like activity</i> \$35,000.00 2010		\$0.00	\$35,000.00	\$0.00	\$19,426.00	\$15,574.00
Pace University, New York 1 Pace Plaza New York, NY 10038-1598 <i>Engineering Selective and Sensitive</i> <i>Chiroptical Fluorescent Sensors for Hg(II)</i> \$43,107.00 2008		\$21,303.00	\$0.00	\$0.00	\$21,303.00	\$0.00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Pacific University 2043 College Way Forest Grove, OR 97116 <i>Low-light-level Nonlinear and Quantum Optics via Light Confinement in an Anisotropic Magneto-optical Trap</i> \$43,373.00 2009		\$20,641.00	\$0.00	\$0.00	\$20,641.00	\$0.00
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 2010		\$0.00	\$35,000.00	\$0.00	\$21,759.00	\$13,241.00
Pennsylvania State University, University Park 201 Old Main University Park, PA 16802 <i>New Chemical Routes for Discovering and Improving Visible-Light Photocatalysts</i> \$100,000.00 2010		\$0.00	\$100,000.00	\$0.00	\$50,000.00	\$50,000.00
Pennsylvania State University, University Park 201 Old Main University Park, PA 16802 <i>Synthesis and Characterization of Core-Shell Wire Heterostructures</i> \$100,000.00 2010		\$0.00	\$100,000.00	\$0.00	\$50,000.00	\$50,000.00

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Pennsylvania State University, University Park		\$0 00	\$33,334 00	\$0.00	\$0.00	\$33,334 00
201 Old Main University Park, PA 16802 <i>Artificial Nanoscale Enzymes for CO2 Reduction Catalysts</i>						
\$33,334 00 2010						
Pennsylvania State University, University Park		\$0 00	\$33,334 00	\$0.00	\$0 00	\$33,334 00
201 Old Main University Park, PA 16802 <i>Bio-Inspired Electro-Optic Structure for Silicon Photovoltaics</i>						
\$33,334 00 2010						
Pepperdine University 24255 Pacific Coast Highway Malibu, CA 90263-0001 <i>Synthesis of Complexes with #61472, b-Ketominates bearing Pendant Nitrogen Donors as Promising Catalysts for Preparing Biodegradable Polymers</i>		\$31,348 00	\$0 00	\$0.00	\$18,574 00	\$12,774 00
\$31,348 00 2009						
Pomona College Alexander Hall 333 N. College Way Claremont, CA 91711 <i>Creation of an In Vivo Reporter System to Detect Hydroxylation Chemistry and Probe Duron Center Tuning in Re-Engineered Proteins</i>		\$21,609.00	\$0.00	\$0 00	\$21,609.00	\$0 00
\$43,218 00 2008						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Purdue University 302 Wood St West Lafayette, IN 47907 <i>Photoconversion Physics in Quantum-Wire Arrays with Double-Gyroid Topology</i>		\$0 00	\$100,000 00	-\$100,000.00	\$0 00	\$0 00
2010						
Reed College 3203 SE Woodstock Blvd Portland, OR 97202 <i>Synchronization of Delay-Coupled Optoelectronic Systems</i>		\$11,424.00	\$0 00	\$0 00	\$11,424.00	\$0.00
\$44,848.00 2008						
Roanoke College 221 College Lane Salem, VA 24153-3794 <i>Purine Biosynthesis in Archaea Variations on a Theme</i>		\$0.00	\$35,000.00	\$0 00	\$24,250 00	\$10,750.00
\$35,000 00 2010						
Rose-Hulman Institute of Technology 5500 Wabash Avenue Terre Haute, IN 47803 <i>Multi-photon confocal microscopy of self-assembled metal-ligands at the polymer interphase in multi-layered polymer films</i>		\$43,826.00	\$0 00	-\$16,109.00	\$27,717 00	\$0 00
\$27,717.00 2009						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Saint John's University		\$0.00	\$35,000.00	\$0.00	\$20,000.00	\$15,000.00
Grand Central & Utopia Parkways Queens, NY 11439						
<i>Light-control Tunable Bio-adhesion at Photo-/thermoresponsive Micropatterned Polymer Film inside Polymeric Microchip</i>						
\$35,000.00						
2010						
Saint Olaf College		\$1,500.00	\$0.00	\$0.00	\$1,500.00	\$0.00
1520 St Olaf Avenue Northfield, MN 55057						
<i>Recognition Award for Jeanne Narum, PKAL</i>						
\$1,500.00						
2009						
Salisbury University		\$44,718.00	\$0.00	\$0.00	\$23,859.00	\$20,859.00
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						
2009						
Samford University		\$21,110.00	\$0.00	\$0.00	\$21,110.00	\$0.00
800 Lakeshire Drive Birmingham, AL 35229						
<i>Bridging the Gap Between Potent Peptides and "Druggable" Molecules Development of Bioavailable Leucine-Based Gamma-Lactone Prodrugs</i>						
\$42,220.00						
2009						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
San Francisco State University 1600 Holloway Ave San Francisco, CA 94132 <i>Bandgap Study of Photonic Crystals and Quasicrystals</i>		\$19,974.00	\$0.00	\$0.00	\$19,974.00	\$0.00
2009 Santa Clara University 500 El Camino Real Santa Clara, CA 95053 <i>Ferromagnetic Exchange in Ga1-xMnxAs Microscopic, Time-Resolved Study by Transient-Grating Spectroscopy</i>		\$11,005.00	\$0.00	\$0.00	\$11,005.00	\$0.00
\$44,570.00 2008 Santa Clara University 500 El Camino Real Santa Clara, CA 95053 <i>Theoretical study of decoherence effects and quantum control of spin qubits in semiconductor quantum dots</i>		\$8,074.00	\$0.00	\$0.00	\$8,074.00	\$0.00
\$43,656.00 2009 Santa Clara University 500 El Camino Real Santa Clara, CA 95053 <i>Efficient Identification of Protein Mimics</i>		\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00
\$35,000.00 2010						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Science Foundation Arizona STEM Initiative		\$0.00	\$25,000 00	\$0 00	\$15,000 00	\$10,000 00
400 E Van Buren, Suite 200 Phoenix, AZ 85004						
Arizona Science Teacher Advancement and Research Training / Formula for the Future Mini Grants						
\$25,000 00 2010						
Science Friday, Inc. 4 West 43rd St., Ste 306 New York, NY 10036		\$0 00	\$25,000 00	\$0 00	\$25,000 00	\$0 00
"Science Friday" Initiative \$25,000 00 2010						
Simpson College 701 N. C Street Indianola, IA 50125-1299		\$3,709 00	\$0.00	\$0.00	\$3,709.00	\$0 00
Electrochemical properties of metallic quantum wells \$9,909 00 2009						
South Dakota School of Mines and Technology 501 E Saint Joseph St Rapid City, SD 57701		\$13,000 00	\$0 00	\$0.00	\$13,000 00	\$0.00
Probing the interactions between conjugated polymer and ZnO nanosstructure through nanosstructure surface engineering \$40,000 00 2009						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Southeast Missouri State University One University Plaza Cape Girardeau, MO 63701 <i>Externally tunable, biocompatible, multifunctional nano-carriers for controlled release of drugs into neurons</i>		\$0 00	\$35,000 00	\$0 00	\$29,000.00	\$6,000 00
\$35,000 00 2010						
Southern Illinois University, Edwardsville Edwardsville, IL 62026 <i>Mechanism of Calcium-Induced Electron Transfer in NADPH Oxidase 5 (NOX5) and Dual Oxidase (DUOX)</i>		\$18,974.00	\$0 00	\$0 00	\$18,974 00	\$0.00
\$44,948.00 2007						
Southern Illinois University, Edwardsville Edwardsville, IL 62026 <i>Reductive Transformation of Organic Sulfoxides by Iron Oxides and Reduced Organic Matter</i>		\$45,000.00	\$0 00	\$0 00	\$23,250.00	\$21,750 00
\$45,000 00 2009						
Southwest Missouri State University <i>Studies on the combustion of organic compounds in a hydrogen/air flame</i>		\$17,000 00	\$0.00	\$0 00	\$17,000.00	\$0 00
\$17,000 00 1988						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
SUNY at Buffalo						
UB Commons, 520 Lee Entrance, Suite		\$0 00	\$75,000.00	\$0 00	\$0.00	\$75,000.00
Buffalo, NY 14260						
<i>Understanding the Influence of Finite Size</i>						
<i>on Phase Transitions and Intercalation</i>						
<i>Processes in Vanadium Oxides</i>						
\$75,000.00						
2010						
SUNY at New Paltz						
75 South Manheim Blvd		\$10,091 00	\$0 00	\$0.00	\$10,091 00	\$0.00
New Paltz, NY 12561-2499						
<i>Chemical structure and function of</i>						
<i>membrane-bound biosurfactants produced</i>						
<i>by Pseudomonas putida</i>						
\$28,928 00						
2009						
SUNY College at Cortland						
PO Box 2000		\$18,918.00	\$0.00	\$0 00	\$18,918 00	\$0 00
Cortland, NY 13045-0900						
<i>A facile method for the preparation of</i>						
<i>cell-permeant caged peptides using click</i>						
<i>chemistry</i>						
\$38,471.00						
2009						
SUNY College, Potsdam						
44 Pierrepont Avenue		\$15,825 00	\$0.00	\$0 00	\$15,825 00	\$0.00
Potsdam, NY 13676-2294						
<i>Relationships Between Iron and Hydrogen</i>						
<i>Peroxide, Free Radical Formation, and</i>						
<i>Oxidative Damage in Recombinant Human</i>						
<i>and Bacterial Ferritins</i>						
\$36,925 00						
2008						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
SUNY Geneseo		\$22,059.00	\$0.00	\$0.00	\$22,059.00	\$0.00
One College Circle Geneseo, NY 14454						
<i>Capturing Aggregates of Luminescent d8 Compounds in Homogeneous Solutions Modeling Phosphorescent Dopants in OLEDs</i>						
\$42,583.00						
2009						
SUNY Geneseo		\$0.00	\$35,000.00	\$0.00	\$24,315.00	\$10,685.00
One College Circle Geneseo, NY 14454						
<i>Correlated Charge and Fluorescence Measurements from Single CdSe Quantum Dots</i>						
\$35,000.00						
2010						
Swarthmore College		\$13,870.00	\$0.00	\$0.00	\$13,870.00	\$0.00
500 College Avenue Swarthmore, PA 19081						
<i>The Effect of Chiral Modifier Properties and Temperature on Chiral Separations Using Ion Mobility Spectrometry</i>						
\$30,000.00						
2008						
Swarthmore College		\$23,985.00	\$0.00	\$0.00	\$23,985.00	\$0.00
500 College Avenue Swarthmore, PA 19081						
<i>Synthesis and G-quadruplex DNA Binding of Novel beta-substituted Cationic Porphyrins Applications to Cancer Treatment</i>						
\$41,380.00						
2008						

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Syracuse University		\$0.00	\$75,000.00	\$0 00	\$0 00	\$75,000.00
1-014 CST 111 College Place Syracuse, NY 13244						
<i>Exploring the Universe with Gravitational Waves A New Frontier in 21st Century Astronomy and Astrophysics</i>						
\$75,000 00						
2010						
Texas A&M University, Commerce		\$22,209 00	\$0.00	\$0 00	\$22,209 00	\$0.00
P O Box 3011 Commerce, TX 75429-3011						
<i>Nuclear Astrophysics with Rare Nuclear Isotopes</i>						
\$44,418 00						
2009						
Texas State University, San Marcos		\$100,000 00	\$0 00	\$0 00	\$60,000 00	\$40,000 00
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						
2009						
Texas State University, San Marcos		\$0.00	\$35,000 00	\$0 00	\$17,500 00	\$17,500.00
601 University Dr. San Marcos, TX 78666						
<i>Immobilization of Ionic Liquids Using Layered Materials</i>						
\$35,000 00						
2010						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Towson University 8000 York Road Towson, MD 21252 <i>Phosphanyl(organyl)boranes Synthesis, Characterization and Applications as Novel Ligands and Co-Catalysts in Metal-Catalyzed Oligomerizations</i> \$43,003.00 2008		\$21,609.00	\$0.00	\$0.00	\$0.00	\$21,609.00
Towson University 8000 York Road Towson, MD 21252 <i>A Chromatographic Phage-Display Technique for Identifying Peptides that Inhibit Calcium Oxalate Monohydrate Crystal Growth</i> \$44,100.00 2009		\$17,126.00	\$0.00	\$0.00	\$0.00	\$17,126.00
Towson University 8000 York Road Towson, MD 21252 <i>Bistable Chiral Metal Sulfoxide Complexes as Chiral Molecular Switches</i> \$35,000.00 2010		\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00
Towson University 8000 York Road Towson, MD 21252 <i>Probing Many-Body Physics in Graphene Devices Using Micro-Raman Spectroscopy</i> \$35,000.00 2010		\$0.00	\$35,000.00	\$0.00	\$22,658.00	\$12,342.00

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Trinity College 300 Summit Street Hartford, CT 06106 <i>Investigations of Unique Photochemistry at the Liquid-Vapor Interface</i> \$44,541.00 2008		\$8,610.00	\$0.00	\$0.00	\$8,610.00	\$0.00
Trinity University 1 Trinity Place San Antonio, TX 78212 <i>Copper Chaperones from Thermus thermophilus Structural and Functional Studies of TiSco</i> \$37,052.00 2008		\$16,074.00	\$0.00	\$0.00	\$16,074.00	\$0.00
Trinity University 1 Trinity Place San Antonio, TX 78212 <i>Designed Ankyrin Repeats as Scaffolds for Multivalent Recognition</i> \$40,000.00 2009		\$20,000.00	\$0.00	\$0.00	\$20,000.00	\$0.00
Union College 807 Union Street Schenectady, NY 12308 <i>A mechanistic investigation of the role of suspended particles on the photochemical degradation of emerging contaminants in surface waters</i> \$43,036.00 2009		\$14,268.00	\$0.00	\$0.00	\$14,268.00	\$0.00

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Union College 807 Union Street Schenectady, NY 12308 <i>Weathering of volcanic rocks and their influence on regolith and water chemistry in the Deschutes Basin, Oregon</i>		\$0.00	\$35,000.00	\$0.00	\$30,263.00	\$4,737.00
2010						
United States Naval Academy 589 McNair Rd Annapolis, MD 21402 <i>Probing the Structure of Quasar Accretion Disks by Analysis of Microlensing in Gravitationally Lensed Quasars</i>		\$13,574.00	\$0.00	\$0.00	\$13,574.00	\$0.00
\$39,348.00 2009						
United States Naval Academy 589 McNair Rd Annapolis, MD 21402 <i>Characterization of Lipopolysaccharide (Endotoxin) in Algae and Cyanobacteria</i>		\$0.00	\$35,000.00	\$0.00	\$21,500.00	\$13,500.00
\$35,000.00 2010						
University of Alaska, Anchorage 3211 Providence Drive Anchorage, AK 99508 <i>Dynamics of Protein Hydrophobic Cores by Deuteron Solid-State NMR Spectroscopy</i>		\$38,036.00	\$0.00	\$0.00	\$19,768.00	\$18,268.00
\$38,036.00 2009						

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Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
University of Arizona						
888 N Euclid Ave		\$6,000 00	\$0 00	\$0 00	\$6,000 00	\$0 00
Tucson, AZ 85721						
Pre-MARC Training Program at the						
University of Arizona						
\$12,000 00						
2008						
University of Arizona		\$0.00	\$14,000 00	\$0 00	\$14,000.00	\$0 00
888 N Euclid Ave						
Tucson, AZ 85721						
Microwave Spectroscopy Measurements of						
Spectra and 3-D Structures of Transition						
Metal Complexes						
\$14,000 00						
2010						
University of Arizona		\$0 00	\$14,000 00	\$0.00	\$14,000 00	\$0.00
888 N. Euclid Ave						
Tucson, AZ 85721						
Molecular Mechanisms of Mitochondrial						
Transport in Axons and Dendrites						
\$14,000 00						
2010						
University of Arizona		\$0 00	\$14,000 00	\$0 00	\$14,000 00	\$0.00
888 N Euclid Ave						
Tucson, AZ 85721						
Epigenetic Mechanisms in Regulation of						
Metabolism by Nuclear Receptors						
\$14,000.00						
2010						

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Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
University of Arizona 888 N. Euclid Ave Tucson, AZ 85721 <i>Scanning Probe Microscopy of Graphene</i>		\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$0.00
2010						
University of Arizona 888 N. Euclid Ave Tucson, AZ 85721 <i>Bio-Inspired Electro-Optic Structure for Silicon Photovoltaics</i>		\$0.00	\$33,334.00	\$0.00	\$0.00	\$33,334.00
\$33,334.00						
2010						
University of Arizona 888 N. Euclid Ave Tucson, AZ 85721 <i>Mental overload, productivity, and decision-making</i>		\$0.00	\$1,875.00	\$0.00	\$1,875.00	\$0.00
\$1,875.00						
2010						
University of California, Irvine 300 University Tower Irvine, CA 92697-0001 <i>Molecular Approach to Converting Solar Energy into Chemical Fuel</i>		\$0.00	\$100,000.00	\$0.00	\$50,000.00	\$50,000.00
\$100,000.00						
2010						
University of California, Irvine 300 University Tower Irvine, CA 92697-0001 <i>Artificial Nanoscale Enzymes for CO2 Reduction Catalysis</i>		\$0.00	\$33,334.00	\$0.00	\$0.00	\$33,334.00
\$33,334.00						
2010						

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Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
University of California, Davis		\$0.00	\$100,000.00	\$0.00	\$50,000.00	\$50,000.00
One Shields Avenue						
Davis, CA 95616						
Bottom-Up Assembly of Nanoscale						
Heterojunctions for Photochemical Energy						
Conversion						
\$100,000.00						
2010						
University of California, Berkeley		\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$0.00
Berkeley, CA 94720						
Essential Cosmology for the Next						
Generation						
\$10,000.00						
2010						
University of California, Riverside		\$5,000.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00
900 University Avenue						
Riverside, CA 92521-4009						
Self-Assembly of Superparamagnetic						
Colloids to Field-Responsive Photonic						
Crystals						
\$100,000.00						
2009						
University of California, San Diego		\$0.00	\$75,000.00	\$0.00	\$0.00	\$75,000.00
9500 Gilman						
La Jolla, CA 92093						
Isocyanide Analogues of the Unsaturated						
Metal Carbonyls						
\$75,000.00						
2010						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
University of Chicago		\$5,000 00	\$0 00	\$0.00	\$2,500 00	\$2,500 00
5801 S Ellis Avenue Chicago, IL 60637 <i>The Second Red-Sequence Cluster Survey</i> <i>100 Million Galaxies for the Masses</i>						
2009						
University of Colorado, Colorado Springs		\$45,000 00	\$0 00	\$0.00	\$24,400 00	\$20,600.00
1420 Austin Bluffs Parkway Colorado Springs, CO 80933 <i>Mechanistic studies of Igand inhibition of</i> <i>hexokinase isozymes using computational</i> <i>and experimental methods</i>						
\$45,000 00						
2009						
University of Dayton		\$0 00	\$35,000 00	\$0.00	\$17,574.00	\$17,426 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						
2010						
University of Hawaii at Hilo		\$17,780 00	\$0.00	\$0.00	\$0.00	\$17,780 00
200 Kawihi Street Hilo, HI 96720 <i>Extinction and Star Formation Rate Maps</i> <i>in Nearby Galaxies</i>						
\$42,056 00						
2009						

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Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
University of Louisville 2320 South Brook Street Louisville, KY 40292 <i>A Comprehensive Study of the Underlying Physics in the Interface Induced Electronic Structure of the Epitaxial Graphene Grown on SiC</i>		\$0 00	\$35,000.00	\$0 00	\$24,383.00	\$10,617 00
2010						
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>		\$0 00	\$75,000.00	\$0 00	\$0 00	\$75,000.00
\$75,000.00						
2010						
University of Massachusetts, Amherst 70 Butterfield Terrace Amherst, MA 01003 <i>Studies of Microtubule Intracellular Highways Building Bridges between Physics and Biology</i>		\$0 00	\$75,000.00	\$0 00	\$0.00	\$75,000 00
\$75,000.00						
2010						
University of Minnesota, Twin Cities 116 Church St, S.E. Minneapolis, MN 55455 <i>Catalytic Methods in Functionalizing Single Bonds to Carbon</i>		\$0 00	\$75,000.00	\$0.00	\$0 00	\$75,000 00
\$75,000 00						
2010						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
University of Missouri-Kansas City 5100 Rockhill Road Kansas City, MO 64110 <i>Catching Galaxy Evolution in the Act</i> <i>Mining the SDSS for New Merger-formed</i> <i>Spheroid Galaxies</i>		\$42,988.00	\$0.00	\$0.00	\$21,494.00	\$21,494.00
2009 University of Montana 32 Campus Drive Missoula, MT 59812 <i>Measurement of the Influence of</i> <i>Spin-Orbit Coupling on the Ultrafast</i> <i>Magnetic Response in Ferromagnetic</i> <i>Metals</i>		\$3,617.00	\$0.00	\$0.00	\$3,617.00	\$0.00
\$44,808.00 2008 University of Nebraska, Kearney 905 West 25th Street Kearney, NE 68849 <i>Absorption and Scattering in Correlated</i> <i>Random Media</i>		\$0.00	\$35,000.00	-\$35,000.00	\$0.00	\$0.00
\$0.00 2010 University of North Carolina at Chapel Hill 200 E Cameron Avenue Chapel Hill, NC 27514 <i>Bio-Inspired Electro-Optic Structure for</i> <i>Silicon Photovoltaics</i>		\$0.00	\$33,334.00	\$0.00	\$0.00	\$33,334.00
\$33,334.00 2010						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
University of North Florida 1 UNF Drive Jacksonville, FL 32224 <i>Near-field optical scattering from defect-mode plasmonic crystals</i> \$45,000 00 2009		\$17,110 00	\$0.00	\$0 00	\$17,110.00	\$0.00
University of Notre Dame 168 hurley hall Notre Dame, IN 46556 <i>Symmetries in the nuclear many-body problem Conquering the computational scale explosion</i> \$75,000 00 2010		\$0.00	\$75,000.00	\$0 00	\$0 00	\$75,000.00
University of Oregon 1371 E 13th Avenue Eugene, OR 97403 <i>Go Physical</i> \$11,600 00 2010		\$0.00	\$11,600.00	\$0.00	\$11,600 00	\$0.00
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 2010		\$0 00	\$35,000.00	\$0 00	\$27,500 00	\$7,500.00

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
University of San Diego		\$187,698.00	\$0.00	\$0.00	\$93,053.00	\$94,645.00
5998 Alcala Park						
San Diego, CA 92110-2492						
<i>Department Development Award</i>						
\$496,730.00						
2008						
University of San Diego		\$14,942.00	\$0.00	\$0.00	\$14,942.00	\$0.00
5998 Alcala Park						
San Diego, CA 92110-2492						
<i>Bacterial Chloride-Transport Proteins</i>						
<i>Bridging the Structure-Function Gap</i>						
\$44,951.00						
2008						
University of San Diego		\$0.00	\$35,000.00	\$0.00	\$29,221.00	\$5,779.00
5998 Alcala Park						
San Diego, CA 92110-2492						
<i>Elucidating the molecular dynamics,</i>						
<i>conformations, and interactions occurring</i>						
<i>in complex DNA systems via novel</i>						
<i>single-molecule techniques</i>						
\$35,000.00						
2010						
University of San Francisco		\$0.00	\$35,000.00	\$0.00	\$17,500.00	\$17,500.00
2130 Fulton Street						
San Francisco, CA 94117						
<i>The Effects of Helium Reionization in the</i>						
<i>Early Universe</i>						
\$35,000.00						
2010						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
University of Southern California		\$0.00	\$75,000.00	\$0.00	\$0.00	\$75,000.00
University Park Campus						
Los Angeles, CA 90089						
<i>A Generalized Synthetic Route to Nontoxic</i>						
<i>Semiconductor Nanocrystals for Use in</i>						
<i>Inexpensive Solar Cells</i>						
\$75,000.00						
2010						
University of Utah		\$0.00	\$250,000.00	\$0.00	\$125,000.00	\$125,000.00
2020 Henry Eyring Building						
Salt Lake City, UT 84112						
<i>Nanoplasmonic focusing of light fields to</i>						
<i>amplify non-linear optical effects in</i>						
<i>composite photovoltaics</i>						
\$250,000.00						
2010						
University of Vermont		\$12,842.00	\$0.00	-\$12,842.00	\$0.00	\$0.00
340 Waterman Building						
Burlington, VT 05405						
<i>Modification of the structure of polymer</i>						
<i>surfaces to control and direct cell growth</i>						
\$24,210.00						
2005						
University of Vermont		\$5,000.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00
340 Waterman Building						
Burlington, VT 05405						
<i>Catalytic Methods to Low-Valent</i>						
<i>Phosphorus</i>						
\$100,000.00						
2009						

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Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
University of Virginia PO Box 400195 Charlottesville, VA 22901- <i>Hijacking the Hijackers Taking Advantage of the Chemistry of Bacterial Pathogens</i> \$75,000 00 2010		\$0 00	\$75,000.00	\$0 00	\$0.00	\$75,000 00
University of Virginia PO Box 400195 Charlottesville, VA 22901- <i>Collective phenomena in ultracold atomic gases</i> \$75,000.00 2010		\$0 00	\$75,000.00	\$0 00	\$0.00	\$75,000 00
University of Washington 301 Gerberding Hall Seattle, WA 98195 <i>Photoconversion Physics in Quantum-Wire Arrays with Double-Gyroid Topology</i> \$100,000 00 2010		\$0 00	\$100,000 00	\$0.00	\$50,000 00	\$50,000 00
University of Wisconsin, Madison 500 Lincoln Drive Madison, WI 53706 <i>The dynamic interstellar medium confluence of observations and numerical simulations</i> \$100,000.00 2009		\$5,000 00	\$0 00	\$0.00	\$2,500.00	\$2,500 00

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
University of Wisconsin, Madison		\$5,000.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00
500 Lincoln Drive						
Madison, WI 53706						
Noise and Cooperative Phenomena in						
Amorphous Dielectric and Magnetic						
Systems						
\$100,000.00						
2009						
Vanderbilt University		\$0.00	\$100,000.00	\$0.00	\$50,000.00	\$50,000.00
2201 West End Avenue						
Nashville, TN 37240						
Biologically Optimized Protein Films for						
Solar Energy Conversion						
\$100,000.00						
2010						
Vanderbilt University		\$0.00	\$40,000.00	\$0.00	\$0.00	\$40,000.00
2201 West End Avenue						
Nashville, TN 37240						
High Spatial Resolution Electrochemistry						
of Biological Inspired Systems						
\$40,000.00						
2010						
Vassar College		\$17,274.00	\$0.00	\$0.00	\$17,274.00	\$0.00
124 Raymond Ave						
Poughkeepsie, NY 12601						
Biosynthesis of						
N-acetylphosphatidylethanolamine in						
Escherichia coli						
\$43,998.00						
2008						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Vassar College 124 Raymond Ave Poughkeepsie, NY 12601 <i>Understanding Coral Bleaching Effects of Thermal Stress on the Proteome and Lipidome of Symbiotic Cnidarians</i>		\$75,000 00	\$0.00	\$0.00	\$50,000 00	\$25,000 00
2009						
Villanova University 800 Lancaster Avenue Villanova, PA 19085 <i>The Characterization of an Unusual Beta-Hydroxybutyrate Dehydrogenase and its Role in Trypanosome Energy Metabolism</i>		\$14,850.00	\$0.00	\$0.00	\$14,850.00	\$0.00
\$30,700.00 2009						
Wabash College PO Box 352 Crawfordsville, IN 47933-2484 <i>Bifunctional Organocatalytic Salts A New Approach for Asymmetric Conjugate Additions</i>		\$11,074 00	\$0.00	-\$11,074 00	\$0.00	\$0.00
\$33,926 00 2008						
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 Viral Protein</i>		\$0.00	\$25,569.00	\$0.00	\$23,069 00	\$2,500 00
\$25,569 00 2010						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Wellesley College 106 Central Street Wellesley, MA 02481 - <i>Defining the Minimum Requirements for Folding and Stability of Lin12/Notch Repeats Using Biophysical Chemistry and Human Notch1 LNRB as a Model System</i>		\$17,842.00	\$0.00	\$0.00	\$17,842.00	\$0.00
\$44,684.00 2008						
Wellesley College 106 Central Street Wellesley, MA 02481 - <i>Vibrationally Mediated Photodissociation and Velocity Map Imaging to Investigate the Photochemical Mechanisms that Mediate Atmospheric Chemistry</i>		\$0.00	\$35,000.00	\$0.00	\$18,847.00	\$16,153.00
\$35,000.00 2010						
West Chester University of Pennsylvania University & High Street West Chester, PA 19383-0001 <i>Structural and Dynamic Response of a Colloidal Glass to Local Forcing</i>		\$11,842.00	\$0.00	\$0.00	\$11,842.00	\$0.00
\$43,934.00 2008						
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>		\$5,000.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00
\$100,000.00 2009						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
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		\$5,000.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00
2009 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 spectroscopy</i> \$35,000.00		\$0.00	\$35,000.00	\$0.00	\$22,055.00	\$12,945.00
2010 Western Washington University 516 High Street Bellingham, WA 98225 <i>Enantioselective Intramolecular Carbonyl Hydroxylations Applications in Total Synthesis</i> \$44,651.00		\$18,609.00	\$0.00	\$0.00	\$18,609.00	\$0.00
2008 Western Washington University 516 High Street Bellingham, WA 98225 <i>Second Harmonic Generation Studies of Nitrogen Oxides at Water Surfaces</i> \$44,886.00		\$16,918.00	\$0.00	\$0.00	\$16,918.00	\$0.00
2008						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Western Washington University 516 High Street Bellingham, WA 98225 <i>Understanding Electronic Charge Carrier Motion in Organic and Hybrid Thin Films</i> \$45,000.00 2009		\$17,500.00	\$0.00	\$0.00	\$17,500.00	\$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 2009		\$44,960.00	\$0.00	\$0.00	\$32,918.00	\$12,042.00
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 2009		\$44,661.00	\$0.00	\$0.00	\$31,819.00	\$12,842.00
Western Washington University 516 High Street Bellingham, WA 98225 <i>Probing Dark Energy and Galaxy Cluster Evolution with Optical Spectroscopy</i> \$35,000.00 2010		\$0.00	\$35,000.00	\$0.00	\$18,900.00	\$16,100.00

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Western Washington University 516 High Street Bellingham, WA 98225 <i>Artificial Nanoscale Enzymes for CO2 Reduction Catalysis</i>		\$0 00	\$33,334.00	\$0 00	\$0.00	\$33,334 00
Whitman College 345 Boyer Ave Walla Walla, WA 99362 <i>Structure-Based Design and Synthesis of Bimodal Proteasome Inhibitors as Therapeutic Agents</i>		\$0 00	\$35,000.00	\$0 00	\$16,866 00	\$18,134.00
Willamette University 900 State Street Salem, OR 97301-3930 <i>Elucidating the Role Mechanical Forces Play in the Regulation of Myosin Function</i>		\$0 00	\$35,000 00	\$0 00	\$30,931.00	\$4,069.00
William Paterson University 300 Pompton Road Wayne, NJ 07470 <i>Leveraging Protein Homology for Rapid and Robust Molecular Dynamics Calculations</i>		\$0 00	\$35,000 00	\$0.00	\$17,100.00	\$17,900.00
2010						
2010						

Fiscal Year 2010

Recipient and/or Purpose	Tax Status	Beginning Balance 2010	Newly Allocated 2010	Amended 2010	Amount Paid 2010	Ending Balance 2010
Williams College						
880 Main St		\$20,109.00	\$0.00	\$0.00	\$20,109.00	\$0.00
Williamstown, MA 01267-						
Efficient Quantum Routing in						
Superconducting Qubit Networks						
\$40,218.00						
2009						
Williams College						
880 Main St		\$44,952.00	\$0.00	\$0.00	\$26,376.00	\$18,576.00
Williamstown, MA 01267-						
Combinatorial Approaches to the						
Discovery and Systematic Study of Atom						
Transfer Radical Polymerization Catalysts						
\$44,952.00						
2009						
Yeshiva University						
500 West 185th Street		\$14,000.00	\$0.00	\$0.00	\$14,000.00	\$0.00
New York, NY 10033						
Transport Properties and Control in						
Low-Dimensional Quantum Many-Body						
Systems						
\$30,000.00						
2008						
Grand Totals (236 items)		\$3,529,286.08	\$4,774,048.00	-\$200,594.50	\$4,591,685.97	\$3,511,053.61

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

	2010 NET PROGRAM AWARD PAID	2010 INDIRECT EXPENSES ALLOCATED	2010 TOTAL PROGRAM EXPENSE
AWARD PROGRAMS:			
DPARTMENT DEVELOPMENT AWARDS	\$ 251,832.00	\$ 187,989.00	\$ 439,821.00
SCIALOG	\$ 675,000.00	503,878.00	1,178,878.00
COTTRELL SCHOLAR'S AWARDS	\$ 25,000.00	18,662.00	43,662.00
PARTNER IN SCIENCE AWARDS	\$ 70,000.00	52,254.00	122,254.00
PRESIDENT'S DISCRETIONARY AWARDS	\$ 211,020.97	157,524.00	368,544.97
COTTRELL COLLEGE SCIENCE AWARDS	\$ 3,358,833.00	2,507,324.00	5,866,157.00
GENERAL AWARDS	\$ -	-	-
	\$ 4,591,685.97	\$ 3,427,632.27	\$ 8,019,316.97
OTHER PROGRAM.			
CHARITABLE CONTRIBUTIONS	28,146.00		28,146.00
TOTAL PROGRAM	<u>\$ 4,619,831.97</u>	<u>\$ 3,427,632.27</u>	<u>\$ 8,047,462.97</u>

Arizona Partners in Science

Introduction

Arizona Partners in Science, an RCSA program in conjunction with the M.J. Murdock Charitable Trust, provides summer research opportunities for high-school science teachers under the supervision of faculty members at Arizona universities.

The objective of this program is to provide Arizona high-school science teachers the opportunity to work on summer research projects in collaboration with individual science faculty at universities within the state. The main goals of this program are to help improve grade 9-12 science education and increase the number of students who choose to pursue science careers.

Research Corporation has joined with the M.J. Murdock Charitable Trust in a cooperative venture to bring the research opportunities offered by Partners in Science to Arizona high-school teachers. While the Murdock Trust will continue supporting opportunities for high-school teachers in the Pacific Northwest, Research Corporation will fund awards in Arizona.

For more information about this program and for complete guidelines, please visit the following website: <http://www.murdock-trust.org/grants/partners-science.php> or contact Silvia Ronco at sronco@rescorp.org.

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, 2011. 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](#). To view and print a sample application form [click here](#).

Budgets

RESEARCH CORPORATION

EIN: 13-1963407

STATEMENT 22

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 the foundation.*

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 e-mail 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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**RESEARCH CORPORATION
for SCIENCE ADVANCEMENT**

A foundation dedicated to science since 1912.

[Home](#)[Cottrell College Science Awards](#)[Cottrell Scholar Awards](#)[Scialog®](#)[AZ Partners in Science](#)[New at RCSA](#)

Scialog®

Scialog 2009: Solar Energy Conversion

Research Corporation for Science Advancement

Because reliable ~~domestic~~ ^{is a sustainable future} sources of renewable energy are vitally important for U.S. security and global stability, Research Corporation for Science Advancement has chosen to address the issue of solar energy as its first effort under the Scialog® program

Scialog will focus on funding early career scientists and building research teams to undertake groundbreaking studies in solar energy conversion. This initiative will be entitled Scialog 2009: Solar Energy Conversion.

Scialog 2009 will accept proposals describing fundamental research at the molecular and nanoscale level that show high potential to impact advanced energy technologies. Preference will be given to plans describing: (i) development of novel high-performing materials that possess greater stability, lower cost, or offer higher efficiency than materials currently used in solar energy devices, (ii) innovative, highly efficient methods for solar energy conversion that take advantage of unique chemical or optical properties and are poised to overcome current bottlenecks limiting performance efficiency.

The Scialog initiative is an experiment in collaboration and community building as much as it is about promoting transformative science. It is the intention that the Scialog conferences will facilitate the process of community building and forming new collaborations.

Scialog® Objectives

Support individuals or collaborative teams of early career researchers who present innovative approaches that address the designated research topics;

Enable higher-risk research that might fall outside the boundaries of traditional federal funding streams,

Establish and convene communities of researchers who will interact intellectually to move the broader research agenda forward,

Leverage funding from private foundations and federal agencies to further support successful lines of research

Scialog® Conferences

The conferences are an essential feature of the initiative. They will help fulfill a key objective of Scialog: forging a vibrant network of cutting-edge researchers in solar energy conversion. Awardees will meet to share critical feedback on their projects and further develop research agendas. Representatives from funding agencies, government laboratories and industry will be invited. The conferences will provide opportunities to initiate new collaborations and create new funding streams. Awardees are required to participate in three Scialog conferences, each held annually in October beginning in 2010. Expenses to attend these conferences should be factored into the award ^{budget}.

Institutional and Faculty Requirements

Applications will be accepted from tenured science faculty members within five years of date of tenure 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 and

engineers in the U.S. or abroad, at national laboratories, in private industry or in academia, however, funding will be limited to science faculty within five years of tenure. Eligible faculty may apply individually or as a team of two or more faculty members fitting this eligibility criterion from the same or different departments and institutions. Describing existing collaborations that underpin the proposed work will strengthen applications made individually. 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.

Applications

The application process begins with completion of the online eligibility quiz. If the applicant(s) and institution(s) meet the program requirements, the applicant(s) will be invited to submit a pre-proposal that will be used to determine if the proposed research conforms to program guidelines and goals. The deadline for pre-proposal submission is Monday, August 17, 2009 at the close of business. Applicants will be notified by electronic mail on approximately October 1, 2009 of the decision to invite or not invite a full proposal submission. Decisions on the pre-proposals are final with no appeal or feedback possible. The deadline for full proposal submission is Tuesday, December 1, 2009 at the close of business.

Multiple pre-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 pre-proposals and full 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:

- Scientific merit, quality, significance and relevance of the proposed research relative to other proposals;
- Potential to make significant contributions and advances in solar energy conversion research;
- 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 on June 1, 2010.

Timeline:

Preliminary Proposal (required)	August 17, 2009
Full Proposal Due ^{Due} Date	December 1, 2009
Awards Announced	June 1, 2010
Scialog Conferences (required attendance for awardees)	

Biosphere 2, October 12-15, 2010
October (TBD), 2011
October (TBD), 2012

Estimated Number of Awards: 20-30

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.

8868

January 2011)

Department of the Treasury
Internal Revenue ServiceApplication 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 ☒
- 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	Name of exempt organization RESEARCH CORPORATION DBA Research Corporation for Science Advancement	Employer identification number 13-1963407
File by the due date for filing your return See instructions	Number, street, and room or suite no. If a P.O. box, see instructions 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-T (corporation)	07
Form 990-BL	02	Form 1041-A	08
Form 990-EZ	03	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, 2011**, to file the exempt organization return for the organization named above. The extension is for the organization's return for.
- ☒ calendar year **2010** 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 Paperwork Reduction Act Notice, see Instructions.

Form 8868 (Rev. 1-2011)