

Form 990

Return of Organization Exempt From Income Tax
Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except black lung benefit trust or private foundation)

OMB No 1545-0047

2003

Open to Public Inspection

Department of the Treasury Internal Revenue Service

The organization may have to use a copy of this return to satisfy state reporting requirements

A For the 2003 calendar year, or tax year beginning 07/01, 2003, and ending 06/30/2004

- B Check if applicable: Address change, Name change, Initial return, Final return, Amended return, Application pending

C Name of organization: NEW YORK ACADEMY OF SCIENCES
Number and street (or P O box if mail is not delivered to street address) Room/suite: 2 EAST 63RD STREET
City or town, state or country, and ZIP + 4: NEW YORK, NY 10021-7289

D Employer identification number: 13-1773640
E Telephone number: (212) 838-0230 EXT 303
F Accounting method: Cash [X] Accrual [] Other (specify) []

Section 501(c)(3) organizations and 4947(a)(1) nonexempt charitable trusts must attach a completed Schedule A (Form 990 or 990-EZ)

H and I are not applicable to section 527 organizations

- H(a) Is this a group return for affiliates? Yes [X] No []
H(b) If "Yes," enter number of affiliates:
H(c) Are all affiliates included? (If "No," attach a list See instructions) Yes [] No []
H(d) Is this a separate return filed by an organization covered by a group ruling? Yes [] No [X]

G Website: WWW.NYAS.ORG

J Organization type (check only one) [X] 501(c)(3) [] 4947(a)(1) or [] 527

K Check here [] if the organization's gross receipts are normally not more than \$25,000. The organization need not file a return with the IRS, but if the organization received a Form 990 Package in the mail, it should file a return without financial data. Some states require a complete return.

I Group Exemption Number

M Check [] if the organization is not required to attach Sch B (Form 990, 990-EZ, or 990-PF)

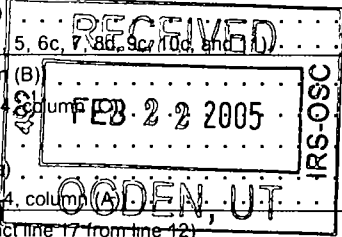
L Gross receipts Add lines 6b, 8b, 9b, and 10b to line 12: 7,973,781.

Part I Revenue, Expenses, and Changes in Net Assets or Fund Balances (See page 18 of the instructions)

Table with 21 rows detailing Revenue (lines 1-12), Expenses (lines 13-17), and Net Assets (lines 18-21). Includes sub-rows for public support, rental income, and inventory sales.

ENVELOPE POSTMARK DATE FEB 19 2005

SCANNED MAR 07 2005



For Paperwork Reduction Act Notice, see the separate instructions.

Form 990 (2003)

24 N/E

Part II Statement of Functional Expenses

All organizations must complete column (A) Columns (B), (C), and (D) are required for section 501(c)(3) and (4) organizations and section 4947(a)(1) nonexempt charitable trusts but optional for others (See page 22 of the instructions)

Table with 5 columns: (A) Total, (B) Program services, (C) Management and general, (D) Fundraising. Rows include: 22 Grants and allocations, 23 Specific assistance to individuals, 24 Benefits paid to or for members, 25 Compensation of officers, directors, etc, 26 Other salaries and wages, 27 Pension plan contributions, 28 Other employee benefits, 29 Payroll taxes, 30 Professional fundraising fees, 31 Accounting fees, 32 Legal fees, 33 Supplies, 34 Telephone, 35 Postage and shipping, 36 Occupancy, 37 Equipment rental and maintenance, 38 Printing and publications, 39 Travel, 40 Conferences, conventions, and meetings, 41 Interest, 42 Depreciation, depletion, etc, 43 Other expenses not covered above (itemize), 44 Total functional expenses.

Joint Costs. Check [] if you are following SOP 98-2

Are any joint costs from a combined educational campaign and fundraising solicitation reported in (B) Program services? [] Yes [X] No
If "Yes," enter (i) the aggregate amount of these joint costs \$, (ii) the amount allocated to Program services \$, (iii) the amount allocated to Management and general \$, and (iv) the amount allocated to Fundraising \$

Part III Statement of Program Service Accomplishments (See page 25 of the instructions.)

Table with 2 columns: Description of primary exempt purpose, Program Service Expenses. Row a: SEE STATEMENT 4, 5,504,207. Row b: (Grants and allocations \$ NONE). Row c: (Grants and allocations \$). Row d: (Grants and allocations \$). Row e: Other program services (attach schedule) (Grants and allocations \$). Row f: Total of Program Service Expenses (should equal line 44, column (B), Program services) 5,504,207.

Part IV Balance Sheets (See page 25 of the instructions)

Note: Where required, attached schedules and amounts within the description column should be for end-of-year amounts only

		(A) Beginning of year		(B) End of year	
Assets	45	Cash - non-interest-bearing	851,196.	45	525,969.
	46	Savings and temporary cash investments	178,740.	46	679,250.
	47a	Accounts receivable	47a 102,365.		
	b	Less: allowance for doubtful accounts	47b 41,855.	109,834.	47c 60,510.
	48a	Pledges receivable	48a		
	b	Less: allowance for doubtful accounts	48b		48c
	49	Grants receivable	277,501.	49	200,215.
	50	Receivables from officers, directors, trustees, and key employees (attach schedule)		50	
	51a	Other notes and loans receivable (attach schedule)	51a		
	b	Less: allowance for doubtful accounts	51b		51c
	52	Inventories for sale or use		52	
	53	Prepaid expenses and deferred charges	104,704.	53	86,657.
	54	Investments - securities (attach schedule) STMT 5. <input type="checkbox"/> Cost <input checked="" type="checkbox"/> FMV	2,038,284.	54	300,000.
	55a	Investments - land, buildings, and equipment basis	55a		
	b	Less: accumulated depreciation (attach schedule)	55b		55c
	56	Investments - other (attach schedule)		56	
	57a	Land, buildings, and equipment basis	57a 6,570,689.		
	b	Less: accumulated depreciation (attach schedule) STMT 12	57b 5,203,568.	1,533,544.	57c 1,367,121.
	58	Other assets (describe ▶)		58	
59	Total assets (add lines 45 through 58) (must equal line 74)	5,093,803.	59	3,219,722.	
Liabilities	60	Accounts payable and accrued expenses	539,108.	60	529,701.
	61	Grants payable		61	
	62	Deferred revenue	2,374,877.	62	1,986,961.
	63	Loans from officers, directors, trustees, and key employees (attach schedule)		63	
	64a	Tax-exempt bond liabilities (attach schedule)		64a	
	b	Mortgages and other notes payable (attach schedule)		64b	
	65	Other liabilities (describe ▶)		65	
66	Total liabilities (add lines 60 through 65)	2,913,985.	66	2,516,662.	
Net Assets or Fund Balances	Organizations that follow SFAS 117, check here <input checked="" type="checkbox"/> and complete lines 67 through 69 and lines 73 and 74				
	67	Unrestricted	-236,842.	67	-605,850.
	68	Temporarily restricted	1,239,412.	68	399,228.
	69	Permanently restricted	1,177,248.	69	909,682.
	Organizations that do not follow SFAS 117, check here <input type="checkbox"/> and complete lines 70 through 74				
	70	Capital stock, trust principal, or current funds		70	
	71	Paid-in or capital surplus, or land, building, and equipment fund		71	
	72	Retained earnings, endowment, accumulated income, or other funds		72	
	73	Total net assets or fund balances (add lines 67 through 69 or lines 70 through 72, column (A) must equal line 19, column (B) must equal line 21)	2,179,818.	73	703,060.
	74	Total liabilities and net assets / fund balances (add lines 66 and 73)	5,093,803.	74	3,219,722.

Form 990 is available for public inspection and, for some people, serves as the primary or sole source of information about a particular organization. How the public perceives an organization in such cases may be determined by the information presented on its return. Therefore, please make sure the return is complete and accurate and fully describes, in Part III, the organization's programs and accomplishments.

Part IV-A Reconciliation of Revenue per Audited Financial Statements with Revenue per Return (See page 27 of the instructions)			Part IV-B Reconciliation of Expenses per Audited Financial Statements with Expenses per Return		
a	Total revenue, gains, and other support per audited financial statements . . . ▶	a 6,703,363.	a	Total expenses and losses per audited financial statements ▶	a 8,180,121.
b	Amounts included on line a but not on line 12, Form 990		b	Amounts included on line a but not on line 17, Form 990	
(1)	Net unrealized gains on investments . . \$ -17,970.		(1)	Donated services and use of facilities \$	
(2)	Donated services and use of facilities \$		(2)	Prior year adjustments reported on line 20, Form 990 \$	
(3)	Recoveries of prior year grants \$		(3)	Losses reported on line 20, Form 990 \$	
(4)	Other (specify)		(4)	Other (specify)	
	STMT 6 \$ 9,522.			STMT 8 \$ 2,065,796.	
	Add amounts on lines (1) through (4) ▶	b -8,448.		Add amounts on lines (1) through (4) . . ▶	b 2,065,796.
c	Line a minus line b ▶	c 6,711,811.	c	Line a minus line b ▶	c 6,114,325.
d	Amounts included on line 12, Form 990 but not on line a:		d	Amounts included on line 17, Form 990 but not on line a:	
(1)	Investment expenses not included on line 6b, Form 990 . . . \$		(1)	Investment expenses not included on line 6b, Form 990 . . . \$	
(2)	Other (specify)		(2)	Other (specify)	
	STMT 7 \$ -2,056,274.			\$	
	Add amounts on lines (1) and (2) . . ▶	d -2,056,274.		Add amounts on lines (1) and (2) . . ▶	d
e	Total revenue per line 12, Form 990 (line c plus line d) ▶	e 4,655,537.	e	Total expenses per line 17, Form 990 (line c plus line d) ▶	e 6,114,325.

Part V List of Officers, Directors, Trustees, and Key Employees (List each one even if not compensated, see page 27 of the instructions)

(A) Name and address	(B) Title and average hours per week devoted to position	(C) Compensation (If not paid, enter -0-)	(D) Contributions to employee benefit plans & deferred compensation	(E) Expense account and other allowances
SEE STATEMENT 9		359,363.	95,914.	NONE

75 Did any officer, director, trustee, or key employee receive aggregate compensation of more than \$100,000 from your organization and all related organizations, of which more than \$10,000 was provided by the related organizations? ▶ Yes No
 If "Yes," attach schedule - see page 28 of the instructions

Part VI Other Information (See page 28 of the instructions)

		Yes	No
76	Did the organization engage in any activity not previously reported to the IRS? If "Yes," attach a detailed description of each activity		X
77	Were any changes made in the organizing or governing documents but not reported to the IRS? If "Yes," attach a conformed copy of the changes		X
78a	Did the organization have unrelated business gross income of \$1,000 or more during the year covered by this return?	X	
78b	b If "Yes," has it filed a tax return on Form 990-T for this year?	X	
79	Was there a liquidation, dissolution, termination, or substantial contraction during the year? If "Yes," attach a statement		X
80a	Is the organization related (other than by association with a statewide or nationwide organization) through common membership, governing bodies, trustees, officers, etc., to any other exempt or nonexempt organization?	X	
b If "Yes," enter the name of the organization AMERICAN INSTITUTE OF THE CITY OF NEW YORK and check whether it is <input checked="" type="checkbox"/> exempt or <input type="checkbox"/> nonexempt			
81a	Enter direct and indirect political expenditures See line 81 instructions.	81a	NONE
81b	b Did the organization file Form 1120-POL for this year?		X
82a	Did the organization receive donated services or the use of materials, equipment, or facilities at no charge or at substantially less than fair rental value?		X
b If "Yes," you may indicate the value of these items here Do not include this amount as revenue in Part I or as an expense in Part II (See instructions in Part III)		82b	N/A
83a	Did the organization comply with the public inspection requirements for returns and exemption applications?	X	
83b	b Did the organization comply with the disclosure requirements relating to quid pro quo contributions?	X	
84a	Did the organization solicit any contributions or gifts that were not tax deductible?		N/A
b If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?		84b	N/A
85	501(c)(4), (5), or (6) organizations a Were substantially all dues nondeductible by members?	85a	N/A
b Did the organization make only in-house lobbying expenditures of \$2,000 or less? If "Yes" was answered to either 85a or 85b, do not complete 85c through 85h below unless the organization received a waiver for proxy tax owed for the prior year		85b	N/A
c Dues, assessments, and similar amounts from members		85c	N/A
d Section 162(e) lobbying and political expenditures		85d	N/A
e Aggregate nondeductible amount of section 6033(e)(1)(A) dues notices		85e	N/A
f Taxable amount of lobbying and political expenditures (line 85d less 85e)		85f	N/A
85g	g Does the organization elect to pay the section 6033(e) tax on the amount on line 85f?		N/A
h If section 6033(e)(1)(A) dues notices were sent, does the organization agree to add the amount on line 85f to its reasonable estimate of dues allocable to nondeductible lobbying and political expenditures for the following tax year?		85h	N/A
86	501(c)(7) orgs Enter a Initiation fees and capital contributions included on line 12	86a	N/A
b Gross receipts, included on line 12, for public use of club facilities		86b	N/A
87	501(c)(12) orgs Enter a Gross income from members or shareholders	87a	N/A
b Gross income from other sources (Do not net amounts due or paid to other sources against amounts due or received from them)		87b	N/A
88	At any time during the year, did the organization own a 50% or greater interest in a taxable corporation or partnership, or an entity disregarded as separate from the organization under Regulations sections 301.7701-2 and 301.7701-3? If "Yes," complete Part IX		X
89a	501(c)(3) organizations Enter Amount of tax imposed on the organization during the year under section 4911 NONE , section 4912 NONE , section 4955 NONE		
89b	b 501(c)(3) and 501(c)(4) orgs Did the organization engage in any section 4958 excess benefit transaction during the year or did it become aware of an excess benefit transaction from a prior year? If "Yes," attach a statement explaining each transaction		X
c Enter Amount of tax imposed on the organization managers or disqualified persons during the year under sections 4912, 4955, and 4958			NONE
d Enter Amount of tax on line 89c, above, reimbursed by the organization			NONE
90a	List the states with which a copy of this return is filed NEW YORK		
b Number of employees employed in the pay period that includes March 12, 2003 (See instructions)		90b	63
91	The books are in care of THE ORGANIZATION Telephone no 212-838-0230 Located at 2 EAST 63RD STREET, NEW YORK, NY ZIP + 4 10021-7289		
92	Section 4947(a)(1) nonexempt charitable trusts filing Form 990 in lieu of Form 1041 - Check here and enter the amount of tax-exempt interest received or accrued during the tax year	92	N/A

Part VII Analysis of Income-Producing Activities (See page 33 of the instructions)

Note Enter gross amounts unless otherwise indicated

	Unrelated business income		Excluded by section 512, 513, or 514		(E) Related or exempt function income
	(A) Business code	(B) Amount	(C) Exclusion code	(D) Amount	
93 Program service revenue					
a CONFERENCES					104,618.
b EDUC. & SPEC. PROG.					209,669.
c LIST SALES	541900	32,831.			
d					
e					
f Medicare/Medicaid payments					
g Fees and contracts from government agencies					
94 Membership dues and assessments					1,529,252.
95 Interest on savings and temporary cash investments					
96 Dividends and interest from securities			14	47,849.	
97 Net rental income or (loss) from real estate					
a debt-financed property					
b not debt-financed property					
98 Net rental income or (loss) from personal property					
99 Other investment income					
100 Gain or (loss) from sales of assets other than inventory			18	-11,970.	
101 Net income or (loss) from special events					
102 Gross profit or (loss) from sales of inventory					54,591.
103 Other revenue					
a					
b ROYALTIES			15	41,000.	
c MISCELLANEOUS			01	165,000.	
d					
e					
104 Subtotal (add columns (B), (D), and (E))		32,831.		241,879.	1,898,130.
105 Total (add line 104, columns (B), (D), and (E))					2,172,840.

Note. Line 105 plus line 1d, Part I, should equal the amount on line 12, Part I

Part VIII Relationship of Activities to the Accomplishment of Exempt Purposes (See page 34 of the instructions.)

Line No.	Explain how each activity for which income is reported in column (E) of Part VII contributed importantly to the accomplishment of the organization's exempt purposes (other than by providing funds for such purposes)
▼	STMT 10

Part IX Information Regarding Taxable Subsidiaries and Disregarded Entities (See page 34 of the instructions)

(A) Name, address, and EIN of corporation, partnership, or disregarded entity	(B) Percentage of ownership interest	(C) Nature of activities	(D) Total income	(E) End-of-year assets
N/A	%			
	%			
	%			
	%			

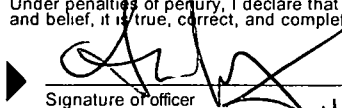
Part X Information Regarding Transfers Associated with Personal Benefit Contracts (See page 34 of the instructions)

- (a) Did the organization, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract? Yes No
- (b) Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract? Yes No

Note: If "Yes" to (b), file Form 8870 and Form 4720 (see instructions)

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 officer) is based on all information of which preparer has any knowledge.

Please Sign Here

Signature of officer:  Date: 12/11/05

Date	2-10-05	Check if self-employed	<input type="checkbox"/>	Preparer's SSN or PTIN (See Gen. Inst. W)
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SCHEDULE A
(Form 990 or 990-EZ)

Organization Exempt Under Section 501(c)(3)

(Except Private Foundation) and Section 501(e), 501(f), 501(k),
501(n), or Section 4947(a)(1) Nonexempt Charitable Trust

Supplementary Information - (See separate instructions.)

▶ **MUST be completed by the above organizations and attached to their Form 990 or 990-EZ**

OMB No 1545-0047

2003

Department of the Treasury
Internal Revenue Service

Name of the organization

NEW YORK ACADEMY OF SCIENCES

Employer identification number

13-1773640

Part I

Compensation of the Five Highest Paid Employees Other Than Officers, Directors, and Trustees
(See page 1 of the instructions. List each one. If there are 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 & deferred compensation	(e) Expense account and other allowances
RASHID SHAIKH 2 EAST 63RD STREET NEW YORK, NY 10021-7289	DIRECTOR, PROGRAMS 35 HRS/WK	146,363.	39,064.	NONE
FRED MORENO 2 EAST 63RD STREET NEW YORK, NY 10021-7289	DIRECTOR, COMM 35 HRS/WK	105,040.	28,035.	NONE
JEREMY PAUL 2 EAST 63RD STREET NEW YORK, NY 10021-7289	DIRECTOR, F.O.S 35 HRS/WK	105,613.	28,188.	NONE
SARAH GREENE 2 EAST 63RD STREET NEW YORK, NY 10021-7289	DIRECTOR, PUBLISHING 35 HRS/WK	156,154.	41,678.	NONE
RICHARD KELLEY 2 EAST 63RD STREET NEW YORK, NY 10021-7289	DIRECTOR, MARKETING 35 HRS/WK	126,038.	33,640.	NONE
Total number of other employees paid over \$50,000	▶ 19			

Part II

Compensation of the Five Highest Paid Independent Contractors for Professional Services
(See page 2 of the instructions. List each one (whether individuals or firms). If there are none, enter "None.")

(a) Name and address of each independent contractor paid more than \$50,000	(b) Type of service	(c) Compensation
PORT CITY PRESS, INC. PO BOX 751899, CHARLOTTE, NC 28275	PRINTING	283,222.
TMAR 8201 GREENSBORO DR, MCLEAN, VA 22102	SOFTWARE CONSULTANTS	185,516.
ENFORME 241 EAST 4TH STREET, FREDERICK, MD, 2170	WEBSITE CONSULTANTS	139,550.
TOPPAN PRINTING 650 5TH AVENUE, NEW YORK, NY 10019	PRINTING	129,317.
STEPHANIE J. BLUDAU 73 CITY HALL ROAD, NEW YORK, NY 12404	BOOK TYPSETTER/COMPO	117,235.
Total number of others receiving over \$50,000 for professional services	▶ 6	

For Paperwork Reduction Act Notice, see the Instructions for Form 990 and Form 990-EZ

Schedule A (Form 990 or 990-EZ) 2003

JSA

Part III Statements About Activities (See page 2 of the instructions)

Table with 3 columns: Question, Yes, No. Rows include: 1. During the year, has the organization attempted to influence national, state, or local legislation... 2. During the year, has the organization, either directly or indirectly, engaged in any of the following acts... 3a. Do you make grants for scholarships, fellowships, student loans, etc? 3b. Do you have a section 403(b) annuity plan for your employees? 4. Did you maintain any separate account for participating donors...

Part IV Reason for Non-Private Foundation Status (See pages 3 through 6 of the instructions.)

- The organization is not a private foundation because it is (Please check only ONE applicable box)
5. A church, convention of churches, or association of churches Section 170(b)(1)(A)(i)
6. A school Section 170(b)(1)(A)(ii) (Also complete Part V)
7. A hospital or a cooperative hospital service organization Section 170(b)(1)(A)(iii)
8. A Federal, state, or local government or governmental unit Section 170(b)(1)(A)(v)
9. A medical research organization operated in conjunction with a hospital Section 170(b)(1)(A)(iii) Enter the hospital's name, city, and state
10. An organization operated for the benefit of a college or university owned or operated by a governmental unit Section 170(b)(1)(A)(iv)
11a. An organization that normally receives a substantial part of its support from a governmental unit or from the general public Section 170(b)(1)(A)(vi)
11b. A community trust Section 170(b)(1)(A)(vi)
12. [X] An organization that normally receives (1) more than 33 1/3% of its support from contributions, membership fees, and gross receipts from activities related to its charitable, etc., functions - subject to certain exceptions, and (2) no more than 33 1/3% of its support from gross investment income and unrelated business taxable income (less section 511 tax) from businesses acquired by the organization after June 30, 1975 See section 509(a)(2) (Also complete the Support Schedule in Part IV-A)
13. An organization that is not controlled by any disqualified persons (other than foundation managers) and supports organizations described in (1) lines 5 through 12 above, or (2) section 501(c)(4), (5), or (6), if they meet the test of section 509(a)(2) (See section 509(a)(3))

Table with 2 columns: (a) Name(s) of supported organization(s), (b) Line number from above. Header: Provide the following information about the supported organizations (See page 5 of the instructions)

14. An organization organized and operated to test for public safety Section 509(a)(4) (See page 6 of the instructions)

Part IV-A Support Schedule (Complete only if you checked a box on line 10, 11, or 12) Use cash method of accounting.

Note: You may use the worksheet in the instructions for converting from the accrual to the cash method of accounting

Table with columns: Calendar year (or fiscal year beginning in), (a) 2002, (b) 2001, (c) 2000, (d) 1999, (e) Total. Rows include: 15 Gifts, grants, and contributions received; 16 Membership fees received; 17 Gross receipts from admissions, merchandise sold or services performed; 18 Gross income from interest, dividends, amounts received from payments on securities loans; 19 Net income from unrelated business activities not included in line 18; 20 Tax revenues levied for the organization's benefit; 21 The value of services or facilities furnished to the organization by a governmental unit without charge; 22 Other income Attach a schedule Do not include gain or (loss) from sale of capital assets; 23 Total of lines 15 through 22; 24 Line 23 minus line 17; 25 Enter 1% of line 23; 26 Organizations described on lines 10 or 11; 27 Organizations described on line 12; 28 Unusual Grants.

Part V Private School Questionnaire (See page 7 of the instructions.)
 (To be completed ONLY by schools that checked the box on line 6 in Part IV) NOT APPLICABLE

		Yes	No
29	Does the organization have a racially nondiscriminatory policy toward students by statement in its charter, bylaws, other governing instrument, or in a resolution of its governing body?		
30	Does the organization include a statement of its racially nondiscriminatory policy toward students in all its brochures, catalogues, and other written communications with the public dealing with student admissions, programs, and scholarships?		
31	Has the organization publicized its racially nondiscriminatory policy through newspaper or broadcast media during the period of solicitation for students, or during the registration period if it has no solicitation program, in a way that makes the policy known to all parts of the general community it serves? If "Yes," please describe, if "No," please explain (If you need more space, attach a separate statement)		
32	Does the organization maintain the following		
a	Records indicating the racial composition of the student body, faculty, and administrative staff?		
b	Records documenting that scholarships and other financial assistance are awarded on a racially nondiscriminatory basis?		
c	Copies of all catalogues, brochures, announcements, and other written communications to the public dealing with student admissions, programs, and scholarships?		
d	Copies of all material used by the organization or on its behalf to solicit contributions?		
	If you answered "No" to any of the above, please explain (If you need more space, attach a separate statement)		
33	Does the organization discriminate by race in any way with respect to		
a	Students' rights or privileges?		
b	Admissions policies?		
c	Employment of faculty or administrative staff?		
d	Scholarships or other financial assistance?		
e	Educational policies?		
f	Use of facilities?		
g	Athletic programs?		
h	Other extracurricular activities?		
	If you answered "Yes" to any of the above, please explain (If you need more space, attach a separate statement)		
34a	Does the organization receive any financial aid or assistance from a governmental agency?		
b	Has the organization's right to such aid ever been revoked or suspended? If you answered "Yes" to either 34a or b, please explain using an attached statement		
35	Does the organization certify that it has complied with the applicable requirements of sections 4 01 through 4 05 of Rev Proc 75-50, 1975-2 C B 587, covering racial nondiscrimination? If "No," attach an explanation		

Part VI-A Lobbying Expenditures by Electing Public Charities (See page 9 of the instructions) (To be completed ONLY by an eligible organization that filed Form 5768) NOT APPLICABLE

Check a if the organization belongs to an affiliated group Check b if you checked "a" and "limited control" provisions apply

Limits on Lobbying Expenditures

(The term "expenditures" means amounts paid or incurred)

(a) Affiliated group totals (b) To be completed for ALL electing organizations

Table with 4 columns: Line number, Description, (a) Affiliated group totals, (b) To be completed for ALL electing organizations. Rows include lines 36-44 for lobbying expenditures and nontaxable amounts.

Caution: If there is an amount on either line 43 or line 44, you must file Form 4720

4-Year Averaging Period Under Section 501(h)

(Some organizations that made a section 501(h) election do not have to complete all of the five columns below See the instructions for lines 45 through 50 on page 11 of the instructions)

Lobbying Expenditures During 4-Year Averaging Period

Table with 6 columns: Calendar year (or fiscal year beginning in), (a) 2003, (b) 2002, (c) 2001, (d) 2000, (e) Total. Rows include lines 45-50 for lobbying nontaxable and ceiling amounts.

Part VI-B Lobbying Activity by Nonelecting Public Charities

(For reporting only by organizations that did not complete Part VI-A) (See page 12 of the instructions)

Table with 3 columns: Description, Yes, No, Amount. Rows include items a-i: Volunteers, Paid staff or management, Media advertisements, Mailings, Publications, Grants, Direct contact, Rallies, Total lobbying expenditures.

If "Yes" to any of the above, also attach a statement giving a detailed description of the lobbying activities

FORM 990, PART I - GROSS SALES LESS RETURNS AND ALLOWANCES

DESCRIPTION	AMOUNT
PUBLICATION SALES	2,110,865.
COST OF GOODS SOLD	-2,056,274.
TOTAL	54,591.

FORM 990, PART I - OTHER DECREASES IN FUND BALANCES

=====

DESCRIPTION	AMOUNT
-----	-----
NET UNREALIZED LOSS ON INVESTMENTS	17,970.
TOTAL	----- 17,970. =====

FORM 990, PART II - OTHER EXPENSES

DESCRIPTION	TOTAL	PROGRAM SERVICES	MANAGEMENT AND GENERAL	FUNDRAISING
FOOD	415,234.	363,878.	23,680.	27,676.
OVERHEAD	-654,965.	1,677,391.	-2445952.	113,596.
OTHER	30,897.	27,976.	525.	2,396.
CONTRACT LABOR	291,718.	194,369.	94,658.	2,691.
INSURANCE	50,950.	1,650.	49,300.	
TOTALS	133,834.	2,265,264.	-2277789.	146,359.

Application for Extension of Time To File an Exempt Organization Return

Department of the Treasury
Internal Revenue Service

▶ 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).

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

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

Note: Form 990-T corporations requesting an automatic 6-month extension - check this box and complete Part I only

All other corporations (including Form 990-C filers) must use Form 7004 to request an extension of time to file income tax returns. Partnerships, REMICs and trusts must use Form 8736 to request an extension of time to file Form 1065, 1066, or 1041.

Type or print	Name of Exempt Organization NEW YORK ACADEMY OF SCIENCES	Employer Identification number 13-1773640
	Number, street, and room or suite no. if a P.O. box, see instructions 2 EAST 63RD STREET	
	City, town or post office, state, and ZIP code. For a foreign address, see instructions. NEW YORK, NY 10036	

Check type of return to be filed (file a separate application for each return):

- | | | |
|--|--|------------------------------------|
| <input checked="" type="checkbox"/> Form 990 | <input type="checkbox"/> Form 990-T (corporation) | <input type="checkbox"/> Form 4720 |
| <input type="checkbox"/> Form 990-BL | <input type="checkbox"/> Form 990-T(sec. 401(a) or 408(a) trust) | <input type="checkbox"/> Form 5227 |
| <input type="checkbox"/> Form 990-EZ | <input type="checkbox"/> Form 990-T (trust other than above) | <input type="checkbox"/> Form 6069 |
| <input type="checkbox"/> Form 990-PF | <input type="checkbox"/> Form 1041-A | <input type="checkbox"/> Form 8870 |

- 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 will cover.

1 I request an automatic 3-month (6-month, for 990-T corporation) extension of time until **FEBRUARY 15**, **2005** to file the exempt organization return for the organization named above. The extension is for the organization's return for:

- ▶ calendar year _____ or
- ▶ tax year beginning **JULY 1**, **2003**, and ending **JUNE 30**, **2004**

2 If this tax year 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 \$ _____
- b If this application is for Form 990-PF or 990-T, enter any refundable credits and estimated tax payments made. Include any prior year overpayment allowed as a credit \$ _____
- c Balance Due. Subtract line 3b from line 3a. Include your payment with this form, or, if required, deposit with FTD coupon or, if required, by using EFTPS (Electronic Federal Tax Payment System). See instructions \$ _____

Signature and Verification

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

Signature ▶ *Tina Wilgander* Title ▶ **CPA** Date ▶ **10-15-04**

For Paperwork Reduction Act Notice, see instruction Form 8868 (12-2000)

- If you are filing for an Additional (not automatic) 3-Month Extension, complete only Part II and check this box **X**
- Note: Only complete Part II if you have already been granted an automatic 3-month extension on a previously filed Form 8868.
- If you are filing for an Automatic 3-Month Extension, complete only Part I (on page 1).

Part III Additional (not automatic) 3-Month Extension of Time - Must File Original and One Copy.

Type or print File by the extended due date for filing the return. See instructions.	Name of Exempt Organization NEW YORK ACADEMY OF SCIENCES	Employer Identification number 13-1773640
	Number, street, and room or suite no. If a P.O. box, see instructions. 2 EAST 63RD STREET	For IRS use only
	City, town or post office, state, and ZIP code. For a foreign address, see instructions. NEW YORK, NY 10036	

Check type of return to be filed (File a separate application for each return):

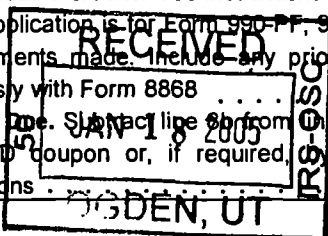
<input checked="" type="checkbox"/> Form 990	<input type="checkbox"/> Form 990-EZ	<input type="checkbox"/> Form 990-T (sec. 401(a) or 408(a) trust)	<input type="checkbox"/> Form 1041-A	<input type="checkbox"/> Form 5227	<input type="checkbox"/> Form 8870
<input type="checkbox"/> Form 990-BL	<input type="checkbox"/> Form 990-PF	<input type="checkbox"/> Form 990-T (trust other than above)	<input type="checkbox"/> Form 4720	<input type="checkbox"/> Form 6069	

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

- 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.

- I request an additional 3-month extension of time until MAY 15, 2005
- For calendar year _____, or other tax year beginning JULY 1, 2003 and ending JUNE 30, 2004
- If this tax year is for less than 12 months, check reason: Initial return Final return Change in accounting period
- State in detail why you need the extension **ALL THE INFORMATION NECESSARY TO FILE A COMPLETE AND ACCURATE RETURN IS NOT YET AVAILABLE.**

- 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 \$ _____
- If this application is for Form 990-PF, 990-T, 4720, or 6069, enter any refundable credits and estimated tax payments made. Include any prior year overpayment allowed as a credit and any amount paid previously with Form 8868 \$ _____
- Balance due. \$1,182.00 from line 8a. Include your payment with this form, or, if required, deposit with FTD coupon or, if required, using EFTPS (Electronic Federal Tax Payment System). See instructions \$ _____



Signature and Verification

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

Signature Laura Kielczewski Title CPA Date 1/10/2005

Notice to Applicant - To Be Completed by the IRS

- We have approved this application. Please attach this form to the organization's return.
- We have not approved this application. However, we have granted a 10-day grace period from the later of the date shown below or the due date of the organization's return (including any prior extensions). This grace period is considered to be a valid extension of time for elections otherwise required to be made on a timely return. Please attach this form to the organization's return.
- We have not approved this application. After considering the reasons stated in item 7, we cannot grant your request for an extension of time to file. We are not granting a 10-day grace period.
- We cannot consider this application because it was filed after the due date of the return for which an extension was requested.
- Other _____

By: _____ Date _____

Director _____ Date _____

Alternate Mailing Address - Enter the address if you want the copy of this application for an additional 3-month extension returned to an address different than the one entered above.

Type or print	Name ERNST & YOUNG LLP ATTN: LAURA KIELCZEWSKI
	Number and street (include suite, room, or apt. no.) Or a P.O. box number 1211 AVENUE OF THE AMERICAS, 14TH FLOOR
	City or town, province or state, and country (including postal or ZIP code) NEW YORK, NY 10036

FORM 990, PART IV - INVESTMENTS - SECURITIES

DESCRIPTION

ENDING
BOOK VALUE

REAL ESTATE MUTUAL FUND

300,000.

TOTALS

300,000.

FORM 990, PART IV-A - OTHER REVENUE ON BOOKS BUT NOT ON RETURN

DESCRIPTION

AMOUNT

INCOME OF THE AMERICAN
INSTITUTE OF THE CITY OF NEW
YORK

9,522.

TOTAL

9,522.

FORM 990, PART IV-A - OTHER REVENUE ON RETURN BUT NOT ON BOOKS

DESCRIPTION	AMOUNT
COST OF GOODS SOLD	-2,056,274.
TOTAL	-2,056,274.

FORM 990, PART IV-B - OTHER EXPENSES ON BOOKS BUT NOT ON RETURN

DESCRIPTION	AMOUNT
COST OF GOODS SOLD	2,056,274.
EXPENSES OF THE AMERICAN INSTITUTE OF THE CITY OF NEW YORK	9,522.
TOTAL	2,065,796.

FORM 990, PART V - LIST OF OFFICERS, DIRECTORS, AND TRUSTEES

NAME AND ADDRESS	TITLE AND TIME DEVOTED TO POSITION	COMPENSATION	CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS	EXPENSE ACCT AND OTHER ALLOWANCES
ELLIS RUBINSTEIN 2 EAST 63RD STREET NEW YORK, NY 10021	CEO/PRESIDENT 35 HRS/WK	211,000.	56,316.	NONE
THOMAS J. KELLY 2 EAST 63RD STREET NEW YORK, NY 10021	CFO/VP 35 HRS/WK	148,363.	39,598.	NONE
SEE THE FOLLOWING PAGE	BOARD OF GOVERNORS 1 HR/WEEEK	NONE	NONE	NONE
	GRAND TOTALS	359,363.	95,914.	NONE

NEW YORK ACADEMY OF SCIENCES
BOARD OF GOVERNORS

Chairman

Torsten N. Wiesel, President Emeritus, Rockefeller University & President, Human Science

Vice-Chairman

Gerald Fischbach, Executive Vice President for Health and Biomedical Sciences, Dean of the

Treasurer

John T. Morgan, Consultant, International Executive Service Corp.; former Chairman and CEO,

President

Ellis Rubinstein

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 - Peter B. Corr, Senior Vice President, Science and Technology, Pfizer, Inc.
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 - Wendy Evans Joseph, President, Wendy Evans Joseph Architecture
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 - John F. Niblack, former President, Pfizer Global Research and Development
 - Sandra Panem, Partner, Cross Atlantic Partners, Inc.
 - Peter Ringrose, Chairman, Biotechnology and Biological Sciences Research Council, UK,
and former Chief Scientific Officer, Bristol-Myers Squibb
 - David D. Sabatini, Professor of Cell Biology, New York University
 - Deborah Wiley, Senior VP, Corporate Communications, John Wiley and Sons, Inc.
- Honorary Life Governors
- William T. Golden, Chairman Emeritus, American Museum of Natural History
 - Joshua Lederberg, Raymond & Beverly Sackler Foundation Scholar, University Professor,
and former President, the Rockefeller University

FORM 990, PART VIII - ACCOMPLISHMENT OF EXEMPT PURPOSES

LINE NO.	EXPLANATION OF HOW EACH ACTIVITY FOR WHICH INCOME IS REPORTED IN COLUMN (E) OF PART VII CONTRIBUTED IMPORTANTLY TO THE ACCOMPLISHMENT OF EXEMPT PURPOSES
93A	SCIENTIFIC CONFERENCES HELD AROUND THE WORLD AND OPEN TO THE PUBLIC.
93B	EDUCATION & SPECIAL PROGRAMS BRINGS TOGETHER MEMBERS, STUDENTS, TEACHERS & PROFESSIONAL SCIENTISTS.
94	DUES RECEIVED IN EXCHANGE FOR MEMBERSHIP BENEFITS.
102	PUBLICATIONS FOR EDUCATING THE GENERAL PUBLIC ABOUT SCIENCE AND FOR PROFESSIONAL SCIENTISTS.

SCHEDULE A, PART IV-A - OTHER INCOME

DESCRIPTION	2002	2001	2000	1999	TOTAL
ROYALTIES	39,287.	47,530.	154,933.		241,750.
TOTALS	39,287.	47,530.	154,933.		241,750.

NEW YORK ACADEMY OF SCIENCES
YEAR ENDED JUNE 30, 2004

FORM 990 - LAND, BUILDINGS, AND EQUIPMENT

<u>DESCRIPTION</u>	<u>AMOUNT</u>
LAND	270,500
BUILDINGS & IMPROVEMENTS	1,344,935
FURNITURE, FIXTURES AND EQUIPMENT	1,049,859
COMPUTER EQUIPMENT & SOFTWARE	3,905,395
GROSS LAND, BUILDINGS, & EQUIPMENT	<u>6,570,689</u>
LESS: ACCUMULATED DEPRECIATION	(5,203,568)
NET LAND, BUILDINGS, & EQUIPMENT	<u><u>1,367,121</u></u>

CURRENT-YEAR DEPRECIATION EXPENSE OF \$540,143 WAS CALCULATED USING THE STARTTIGHT-LINE METHOD OF DEPRECIATION OVER THE ESTIMATED USEFUL LIVES OF THE ASSETS.

A New Flowering

Depictions of flowers have long served other than just scientific or aesthetic roles. The pomegranate shown here, for example, has often been seen as a symbol of rebirth and hope, probably stemming from the multitude of seeds revealed when its fruit breaks open. In other contexts, *Punica granatum* has also come to represent intellectual ability and creative power.

These qualities—rebirth, hope, intellectual acumen, and creativity—are apt descriptions of the past year at the New York Academy of Sciences. The seeds planted with the arrival of new leadership at the Academy in late 2002 began to germinate, with fresh ideas and innovative initiatives. Combined with the rejuvenation of the Academy's traditional programs, the last 12 months have seen the emergence of a creative, confident organization eager to evolve and grow.

This *Annual Review* presents an outline of a new flowering that has already begun to bear fruit in the Academy's efforts to solidify its position as an international leader in building communities and advancing science. The past year has shown that like the pomegranate, which is in a botanical family that includes only one genus and two species, the Academy, too, can be said to be almost in a class by itself.



A 'Fertility of Mind'

One of the many once renowned, now forgotten personages in the nearly 200-year history of the New York Academy of Sciences is John Torrey, a cofounder, twice president, and the man sometimes called the "father of American botany." His pioneering work in the classification of American plants greatly influenced all subsequent taxonomic work, and he was often praised for his ability to devise new ways of addressing old problems and for his "remarkable fertility of mind."

I believe that Torrey would be proud of the past year at the Academy because it too has been characterized by imaginative thinking and a willingness to try innovative methods for meeting interesting and socially significant challenges. This *Annual Review* will provide an overview of the efforts we have been making at the Academy to create an organization that is more productive and responsive to our member needs and to the scientific community at large.

We focused our work this year on four primary objectives: building communities, growing membership, strengthening traditional programs, and what I would call "spreading the word." We plotted strategies for each of these goals that were independent yet complementary. Thus, the Academy's esteemed role as a cross-disciplinary convener of people and institutions in search of synergies was expressed in initiatives that brought in new members while retaining loyal ones. Our corporate partnership initiative and the development of other alliances enriched services to members. And through online enhancements and new Web offer-



Mary Jo Vath Thistle, 2002

ings, we reached beyond borders to deliver the latest information on the most vital topics in science today. I would have been disappointed had we done all this at a cost to our strengths in publishing, science education, and human rights—but these programs have grown stronger.

Nearly everyone I met in the past year has expressed amazement at the Academy's achievements. I believe the support we are receiving from all sectors indicates that we are on the right track. The Academy's renaissance has firmly taken root, and we are confident that with hard work and "fertility of mind" the new flowering we see around us will produce benefits for science and society for years to come.

—Ellis Rubinstein, President

A 'Sympathetic' Home

Architecture writer Witold Rybczynski once said that, in architecture, "the end must direct the operation." In other words, a building, no matter how well built or beautiful, must be sympathetic to its uses. The Academy building is a beautiful Italianate mansion built in 1919 as a private home. Many of us are very fond of it and consider it the embodiment of the organization's prestige and success over many years. But its inadequacies as a meeting place and office structure have been evident for quite some time. Academy programs have begun to flower once again and, once again, the building's shortcomings have become apparent.

This past year, management employed the services of architects, real estate consultants, and brokers to make

recommendations to the Board on how best to meet the Academy's needs for the foreseeable future. Under consideration is the identification of new space to serve the hundreds of attendees registering for our innovative programs. Indeed, in 1965, the Academy's leadership, with the help of David Rockefeller, came close to constructing a new home—a "World Science Center"—adjacent to the brand new Lincoln Center complex. Now, four decades later, any decision to sell the building and move to other quarters would have to be ratified by Academy members. You will hear more about this as we strive to achieve the Board's objective of identifying a space that is at once more functional and yet distinctive and welcoming.

—Torsten Wiesel, Chairman, Board of Governors

STATEMENT 4

Nurturing Young Investigators

In 2004, Ginny Cox graduated from the Weill Graduate School of Medicine of Cornell University, where she used drosophila genetics to study the mechanisms that cells use to communicate with one another. But Ginny is also interested in issues outside the lab, such as how to educate policymakers and the public about basic science and its impact on society. "Scientists can best serve the public by staying informed about socially contentious issues in their fields and by reaching out to everyday people to answer their questions about scientific issues," she says.

Ginny was also, in 2003–04, one of nearly 6,000 members of the New York Science Alliance for Graduate Students and Postdocs, a groundbreaking program created by Academy President Ellis Rubinstein to provide young investigators with such services as seminars, career mentoring, and unprecedented networking opportunities. The program, sponsored in cooperation with the deans of leading universities, teaching hospitals, and independent laboratories in the New York/New Jersey area, offers students a fast track for gaining a set of skills and experiences not taught in most curricula and labs.

Strengthening Exchanges

For example, the past year included seminars on such topics as setting up and managing a lab; open access publishing (with Nobel Laureate Harold Varmus); maintaining resident status for foreign students; making sense of stem cell issues (with Princeton University President Shirley Tilghman); and strengthening exchanges between American and European researchers (with the European Commission). A landmark event held in 2003–04 was a Career Symposium and Jobs Fair—cosponsored with *NatureJobs*—that attracted more than 700 young scientists interested in bioscience research. The Alliance also sponsored a special course, "From Idea to IPO," that provided young investigators with 12 weeks of lectures on the nuts and bolts of scientific entrepreneurship.

The special Web site for members of the Science Alliance included original content on career development as well as access to the best science news, job, and career advice from partner sites. Detailed, multimedia sum-

“ Though I do not believe that a plant will spring up where no seed has been, I have great faith in a seed. Convince me that you have a seed there, and I am prepared to expect wonders. ”

—Henry David Thoreau



Theresa Fasolino Sunflower, 1997

maries of Alliance events and links to further information were also featured.

The number of participating institutions increased this year from 12 to 14 and representatives from each served on a steering committee to help shape and develop Alliance events and programs. Membership in the Alliance also afforded valuable networking opportunities, with the scientists they meet and with each other.

Alliance members took advantage of the full range of benefits available to all members of the Academy, including attendance at meetings and lectures (especially the growing Frontiers of Science program of cutting-edge discussion groups) and access to electronic briefings and other members-only material on the Academy Web site.

The Academy's initiative on behalf of emerging scientists was named the Torsten Wiesel Young Investigators Program in tribute to the support and encouragement shown to new researchers by the Nobel Laureate and chair of the Academy's Board of Governors.

FOR MORE INFORMATION

To learn more about the *Science Alliance* visit:

www.nyas.org/sa STATEMENT 4

Expanding Scientific Exchanges

Virginia Cornish graduated *summa cum laude* in biochemistry from Columbia University in 1991 and did postgraduate work at both the University of California-Berkeley and M.I.T. But those are only the first of her many academic accolades. She has been a National Science Foundation Predoctoral—and Postdoctoral—Fellow, a recipient of fellowships from the American Chemical Society and the Howard Hughes Medical Institute, and the winner of numerous other honors. Since 1999, she has been a faculty member at Columbia University.

Of great importance to the Academy in 2003–04 was her role in helping to form the Chemical Biology Discussion Group, a new group in the Academy's innovative and fast-growing Frontiers of Science Program. The program is based on the belief that progress in science, technology and medicine is driven by cross-disciplinary collaborations and exchanges of ideas and information. In 2003–04, seven new discussion groups were developed, bringing the total to 10 in the Frontiers program: Biochemical Pharmacology, Chemical Biology, Computational Biology and Bioinformatics, Emerging Infectious Diseases, Genome Integrity, Genomic Medicine, Neurodegenerative Diseases, Neuroimmunology, RNAi, and Vision Research.

Cross-Disciplinary Gatherings

From these groups, seminars and meetings emerged that brought together scientists from academia and industry to discuss topics at the very cutting edge. Both established scientists as well as their younger colleagues attended these meetings in large numbers. For example, during 2003–04, topics covered included genomic approaches to neurodegenerative diseases, antiangiogenic therapeutic approaches to treating cancer, RNAi-based analysis of gene function, the genomics of cancer, and co-opting biological systems for chemical synthesis. Other cross-disciplinary gatherings, such as a timely mini-symposium on national security and biological research, were put together by members of an Academy discussion group in conjunction with outside organizations. Growing out of these dynamic discussions were electronic briefings—eBriefings—delivered worldwide via the Academy Web site, as well as printed summaries and papers. Also significant were those vital private exchanges that drive progress in science.

The Academy also began efforts to bring together other affinity groups that could benefit from interactions among like-minded individuals. A focus group of 35

women investigators determined that the Academy, in its traditional role as an independent forum, could contribute to an improvement in the conditions women scientists sometimes face in their careers. A new Women Investigators Network will launch soon.

In sum, these programs attracted hundreds of postdocs and graduate students to the Academy's meeting rooms, and have led to an extraordinary cadre of brilliant scientists who have volunteered to serve on Program Committees. The participation of scores of leading researchers in these activities is truly reinvigorating the scientific breadth of the Academy. Virginia Cornish has even gone one step further: running for office as an Academy Governor.



Dennis Kardon *Flours du Mal*, 2003



Sylvia Pilmack-Mangold *Hazel Boyd Eureka*, 1997



Spreading Science Beyond Borders

As professor of Physics and vice president for Research and Sponsored Programs at the Graduate Center of the City University of New York, Brian Schwartz is a busy man, committed to guiding the research programs at one of America's largest public universities and to promoting science in its interactions with culture. That is one reason he expressed his firm support of the Academy's programs that disseminate information and knowledge worldwide, the www.nyas.org site and its special *Science & the City* portal. "The Academy is performing a most valuable service in both collecting and disseminating information on their Web site," he said.

The Academy site fulfills an important element of the Academy's Science Without Borders program, utilizing the potential of the World Wide Web to amplify the information gathered by the Academy for the benefit of the scientific community around the globe. (The program was renamed this year in honor of Joshua Lederberg, Nobel Laureate, Honorary Life Governor of the Academy, and president emeritus of Rockefeller University.)

Spreading Science

A vital component of the program in 2003-04 was the Academy's unique eBriefings, which enable scientists to "listen in" on Academy proceedings through reports and highlights prepared by top science writers, and enhanced with audio, video, and slides when available. Distinguishing this program from so many worthy but underutilized Web offerings is its design for time-constrained visitors, which is combined with tiers of access for those wishing greater in-depth information. There are annotated links to background information, scientific literature, and to related agencies and organizations. Plus, an "Open Questions" section provides a snapshot of the future research agenda for each topic covered. In 2003-04, more than 80 eBriefings were deployed on the Academy site. They included presentations on a dizzying array of subjects, including modeling protein-membrane interactions; taking aim

at cholesterol; learning how West Nile Virus enters cells; fatty acid metabolism in obesity and diabetes; and an overview of string theory.

The rapidly expanding number of eBriefings was just one aspect of a Web site that was totally transformed in 2003-04 from a primarily informational site about the Academy to one content-rich and more visually exciting. The site features three levels of membership access, as well as a career and information Web portal developed especially for the Science Alliance for Graduate Students and Postdocs. Customized Web pages, called "channels," were added for the Academy's sections and discussion groups that assembled relevant information based on their particular subject area. For example, the Biochemical Pharmacology Discussion Group (BPDG) channel contains such items as steering committee contact information,

listings of BPDG meetings and related events, eBriefings of past BPDG events, and related *Annals*.

Perhaps the most entertaining new addition to www.nyas.org in 2003-04

“And then the day came when the risk to remain tight in a bud was more painful than the risk it took to blossom.”

—Anaïs Nin

was *Science & the City*, an area designed to draw the public as well as non-member scientists to the Academy's Web site. The central feature is an all-city calendar—the only one of its kind in the United States—that itemizes on a daily basis academic and public lectures, family events, educational programs, art and science exhibits, cultural activities and performances, and radio/TV/film listings with a science theme. Designed to appeal to anyone with an interest in science and providing hundreds of listings, the calendar utilizes a powerful search engine that provides information according to date, category, and subject. A second component of *Science & the City* is the Webzine, featuring a "Readers & Writers" forum highlighting important science books, an "Annals Extra" column that offers easy-to-understand articles on newly published *Annals*, and slideshows and essays about exhibits in the Academy's Gallery of Art & Science.



Susanna Coffey Orchid 1, 2002

Advancing Scientific Knowledge

To Paul Ekman, a psychologist at the University of California, San Francisco, expressing emotions is a serious business. Ekman is one of the editors of *Emotions Inside Out: 130 Years After Darwin's Expression of the Emotions in Man and Animals*, a celebration of Charles Darwin's pioneering work and an examination of the latest findings about facial expressions and the underlying physiology of emotions. Ekman helped revive the field by capturing displays of emotions in photographs, which could then be used in cross-cultural studies to test the universality of emotions. He notes that "emotion is relevant to everything, from counterterrorism to successful marriage."

Ekman's book, published in 2003, is a celebration in another sense as well. It was the 1000th volume in the *Annals of the New York Academy of Sciences*, one of the most illustrious series in the history of scholarly publishing. Since their inauguration in 1823, the *Annals* have continued to present high-quality volumes in emerging fields of research. More than 500 libraries around the world subscribed to the *Annals* in 2003-04, and the series was ranked once again by the Institute for Scientific Information among the top two percent of sources cited in the scientific literature.

A total of 28 volumes were published in 2003-04, providing multidisciplinary perspectives on such topics as myasthenia gravis and related disorders, steroids and the nervous system, the roots of mental illness in children, and current neuroendocrine and genetic approaches to stress. Because *Annals* volumes assemble the ideas of key contributors to a field of investigation at a time when emerging developments offer the promise of new insights and potential progress, they provide a highly useful perspective in an interdisciplinary setting.

International Authorities

For example, *Molecular Electronics III* (Volume 1006) took a close look at the miniaturization revolution in microelectronics and the likely successor technologies to nanometer-scale electronic systems. In *Astrodynamics, Space Missions, and Chaos* (Volume 1017), the contributors considered such topics as the dynamics of asteroid airm, formation flying, propulsion, and low-energy lunar transfers, which are important in any effort to establish a lunar base. Basic and clinical information by internationally known authorities in the field made *Women's Health and Disease: Gynecologic and Reproductive Issues* (Volume 997) of particular interest to the medical community. And specialists in urban affairs from 10 large cities developed innovative governance approaches for urban sustainability around the world, all reported in *Urban Biosphere and Society: Partnership of Cities* (Volume 1023).

Archive of Content

Annals Online continued to provide an archive of the full content of each *Annals* volume dating back to December 1997, as well as tables of contents for each volume back to April 1964. New features introduced in 2003-04 included the *Annals PrePrint* service, which posted edited articles online from upcoming volumes, sometimes months before the published print volume. *Annals Extra*, a column in the Academy's new *Science & the City* Webzine, was also initiated in 2003-04 to spotlight new *Annals* volumes and highlight their broad implications in both the world of science and in the public policy arena. In its debut year, *Annals Extra* featured looks at such topics as the burgeoning biology of birdsong (from *Annals* Volume 1016), the dialogue between mind and immunity (from Volume 992), and biological sculpting (from Volume 995).

FOR MORE INFORMATION

To read about all 2003-04 volumes in the *Annals* series, browse the catalog, or to order copies, visit us online at:
www.nyas.org/annals

STATEMENT 4



Fulfilling the Convening Function

P sychologist James Gilligan believes that far from deterring violent behavior, punishment is the most powerful stimulus of violent behavior among prisoners. Instead, Gilligan advocates the creation of “anti-prisons”—locked, safe, residential settings where prisoners undergo therapeutic and skill-building programs. He was one of the chief organizers of an international Academy conference in 2004 on this topic, at which scientists recommended treating violence like a public health issue that responds to well-designed interventions.

Organizers like Gilligan and conferences like “Scientific Approaches to Youth Violence Prevention” are at the heart of an Academy tradition dating back to its founding—the impetus to gather, discuss, and exchange scientific information in an impartial forum. In 2003–04, the Academy sponsored nearly 100 such meetings on a broad range of topics, from basic and clinical research in the life sciences to the practical and metaphysical concerns of the social sciences.

Oral Tolerance

These meetings included four major conferences. In addition to preventing youth violence, the Academy brought together scientists from throughout the world to discuss adolescent brain development, where most of the investigators agreed that biology plays a major role in the behavior characterizing adolescence. Another conference considered oral tolerance, a long-recognized mechanism of inducing immune tolerance which holds out hope for its use in combating such diseases as multiple sclerosis, diabetes, and rheumatoid arthritis. And at a 2004 Boston conference on vitamin E, researchers considered the vitamin’s role in such areas as cancer prevention, respiratory infections in the elderly, photo protection of the skin, and cardiovascular disease.

Major Conferences

Gatherings sponsored by the Academy’s sections, discussion groups, and special groups drew nearly 5,000 attendees in 2003–04. They heard talks on subjects ranging from “planetary weather patterns of our solar system” to “strain-dependent differences in *herpes simplex virus*.” In

“Odd as it may appear, a garden does not grow from seed, shoot, bulb, rhizome, or cutting, but from experience, surroundings, and natural conditions.”

—Karel Capek

fact, the list of lectures, mini-symposia, and special events spanned the entire scope of Academy concerns. Topics included considerations of how gated communities in America are creating new forms of exclusion and segregation; the scientific basis of carbon emissions trading; groundwater as a ecosystem resource; how leukocytes access the central nervous system; the biology of hepatitis C; the ironies of academic freedom in the life of experimental psychologist James McKeen Cattell; targeting protein phosphatases for drug discovery; and why the media often stumble when covering the biggest story on earth—the earth itself.

Special events gave members and guests opportunities to learn about the next generation of psychiatric drugs beyond Prozac, the 10 most “beautiful” experiments in science, and how recent achievements in reproductive technology are viewed by artists, scientists, and ethicists. Members of the Lyceum Society, the Academy’s retiree group, also had an active schedule in 2003–04, including lectures on dietary calcium and the electrical and mechanical properties of the heart.



Earl Nishiguchi Sundew Plant, 2001

Enriching Science Education



Mou Chung Ng graduated from Brooklyn's Midwood High School in 2004. While there, he worked on a project entitled "The Development of an Adenoviral Vector that Expresses PNC-28EG: A Gene that Encodes a Peptide Selectively Cytotoxic to Pancreatic Carcinoma." His project was so good that it won the Grand Award at the Academy's 2004 New York City Science and Engineering Fair. It also allowed him to represent NYC and compete at the Intel International Science and Engineering Fair in Portland, Oregon, where he won an \$8,000 scholarship.

The Academy's 2004 science "Expo," where Mou's successful effort began, was the largest ever held, with more than 1,100 high school students participating. First sponsored by the Academy in 1948, the Expo provides an opportunity for young scientists to learn science through hands-on research and to demonstrate their expertise to peers, teachers, and working scientists. In the past year, the Academy also sponsored the annual New York City regional "Brain Bee," which awards cash and prizes for student knowledge of neuroscience, and the Metro Junior Science and Humanities Symposium, which promotes research and experimentation in the sciences.

Enrich the Soil

But these were just a few of the Academy's projects that engaged students, teachers, and scientists in an effort to enrich the soil of science education. In summer 2003, 78 students worked with more than 60 mentors from academic, industrial, and governmental institutions in the Academy's eight-week Science Research Training Program, which provides students with real-world scientific experi-



Justin Linhares, Dutch, 2003



David Humphrey, Three Tulips, 2003

ences and supportive enrichment workshops. Since the establishment of the program in 1979, over 2,100 students have participated.

Through the Science EduNet Project, and the Science EduNet Web site, thousands of students, parents, and teachers have access to information about over 750 informal science, mathematics, and technology programs from 350 science institutions throughout the Tri-State area.

Education Agenda

Fostering dialogue among scientists and science educators was also an important aspect of the Academy's education agenda. A series of lectures was organized that looked at the effectiveness of test-based accountability systems, the science education standards imposed by the No Child Left Behind Act, and the growing reliance in schools on standardized testing as a means of measuring progress. These meetings were organized to help educators and scientists learn more about science education issues and how to deal with such difficulties as not having a coherent, challenging curriculum for students.

Helping more students have educational opportunities and challenges like those afforded Mou Chung Ng of Midwood High is a major goal of the Academy's education programs.

FOR MORE INFORMATION

To read about the Academy's work to improve science education, visit us online at:

www.nyas.org/programs/education.asp

STATEMENT 4

To learn more about the Academy's Harbor Project and its efforts on strategies to prevent pollution, visit: www.nyas.org/programs/harbor.asp

Advocating Sound Science Policy

Academy member Marcia Stone of Manhattan has cared about the environment for many years. As a local community board member, she fought to keep incinerators out of New York City and to get recycling going. Recently, she started a battery recycling program in her apartment building and even collects all the discarded batteries and personally delivers them to the Academy for proper disposal.

Ms. Stone's concern about the pollution possibilities of batteries is a real one, as verified by a report in 2003-04 from the Academy's Harbor Consortium, a diverse group of business, regulatory, labor, academic and environmental organizations from the Hudson River watershed. The report, *Pollution Prevention and Management Strategies for Cadmium in the New York/New Jersey Harbor*, noted that the major usage of cadmium in the global economy had increased dramatically from 1980 into the 1990s, namely in the form of nickel-cadmium (Ni-Cd) batteries used widely in many portable electronic devices. Recognizing that at least three-quarters of the cadmium used and disposed is coming from batteries, the Academy Consortium made recommendations to improve battery-recycling rates both as a precautionary measure and for resource conservation.

Forum Function

The Harbor Consortium and its report on cadmium exemplify how the Academy functions as a forum for dialogue to help find solutions to complex problems using the best science. Formed in 2000, the Harbor Consortium includes individuals from a diverse range of backgrounds and interests, all committed to a common objective: identifying environmentally sound and economically and politically feasible pollution prevention strategies for the harbor. The Academy effort also is unique in that the research, data collection, integration, and recommendation processes are all under the lens of public scrutiny.

The Consortium's earlier report on strategies to prevent and manage mercury (and methyl mercury) pollution in the harbor continued to reverberate in 2003-04. (The mercury report, in fact, won the National Pollution Prevention Roundtable's MVP2 Writing Award in

2004.) Independent research by members of the Consortium was completed on mercury in various forms of canned tuna.

FDA Advisories

The Academy also issued a statement on pending U.S. Food and Drug Administration fish consumption advisories for mercury and advised against policy changes by the U.S.

Environmental Protection Agency that would remove mercury from the chemical toxics lists and extend the time frame in which a reduction of mercury emissions from coal combustion could be achieved.

Work also began in 2003-04 on the next group

of watershed contaminants—PCBs, dioxins, and PAHs.

“In the possibility of change lies the imperishable charm of gardens. Forever through past experiences shine the bright alluring pictures of the future.”
—Mabel Cabot Sedgwick



Carl Plansky Passion Flowers, 2003

Promoting Human Rights

Sociologist Saad Eddin Ibrahim is a politically activist who was arrested in June 2000 in Egypt for his outspoken advocacy of democratic reform in his native country. The charges against him were widely criticized by international human rights groups, including the New York Academy of Sciences, as being unjust and politically motivated. He was tried three times, with two of his convictions overturned on appeal, and was eventually acquitted in March 2003.

Later that year, in September, Dr. Ibrahim received the Academy's Heinz R. Pagels Human Rights of Scientists Award for his "commitment to justice, human rights, and democratic values in Egypt." Dr. Ibrahim said, on being named the Pagels winner, that "my faith that the best of the best of the worldwide community of scholars do not forget a comrade at

“Die when I may, I want it said of me by those who know me best, that I always plucked a thistle and planted a flower where I thought a flower would grow.”

—Abraham Lincoln

risk strengthened my faith that the cause for which I was incarcerated will ultimately triumph.”

In thanking the Academy's Committee on Human Rights for their efforts on his behalf, he urged the Academy "to continue to support the cause not only of academic freedom, but also that of democracy in our troubled part of the world, the Middle East."

Dr. Ibrahim is one of more than 20 scientists who have received the Academy's human rights award since it was first presented in 1979 to Andrei Sakharov, the great Russian physicist and dissident. Other recipients of the

Pagels prize have included Chinese physicist Fang Li-Zhi, French mathematician Laurent Schwartz, and Cuban economist Marta Beatriz Roque Cabello. Yet, the annual award is only one part of the work done by the Academy

committee on behalf of scientists, health professionals, engineers, and educators who have been detained, imprisoned, exiled, or deprived of the rights to pursue science.

Repressed Colleagues

In 2003-4, the Committee's efforts focused on situations in Belarus, China, Cuba, Guatemala, Iran, Russia, Vietnam, and the United States. Among the means it used on behalf of repressed colleagues were letters to those in authority, personal meetings and appeals, on-the-scene and behind-the-scene pressure on U.S. and foreign authorities, public statements, and petitions.

In the past year, the Committee worked on behalf of several Chinese scientists who had been arrested for activities related to the 1989 Tiananmen Square demonstrations. It also coordinated efforts with other human rights groups in support of U.S. infectious disease expert Thomas Butler, Vietnamese doctor and activist Dr. Nguyen Dan Que, and Russian researcher Igor Sutyagin. The Committee also criticized the U.S. government for its actions in preventing scientific exchanges with colleagues in Cuba, noting that continuation of such a policy "would be detrimental to the advancement of science in the United States."

FOR MORE INFORMATION

To support the Academy's campaign to help protect the human rights of scientists, visit:
www.nyas.org/programs/human.asp

STATEMENT 4

Inspiring Appreciation for Science

Robin Marantz Henig is an award-winning journalist and the author of *The Monk in the Garden*, the story of Gregor Mendel, whose work with peas spawned a field—genetics—that continues to challenge the way we think about life itself. She also wrote a long article for the *New York Times* in spring 2004 about an exhibition in the Academy's Gallery of Art & Science that explored the reactions of contemporary artists to the sometimes controversial achievements of reproductive technology. She praised the Academy for taking on such a tough subject and noted that when art is moved out of the traditional art gallery and into the public space of a scientific organization, "it expands the discourse"—which is, of course, part of the Academy's mission.

Utilizing art to advance understanding of science among the public has been the *raison d'être* of the Academy Gallery for many years. (The Academy, in fact, traces its commitment to exploring the nexus of art, culture, and science to 1829, when Academy member John James Audubon first exhibited his watercolors of birds at the organization's headquarters in lower Manhattan.) In addition to its hit "Reprotech: Making Better Babies?" show, the Gallery invited visitors in 2003–04 to consider such topics as the first scientific oceanographic expedition (the *H.M.S. Challenger* expedition of 1872), the beauty of magic and science in Mexico, the wonder of images photographed through a microscope (from the annual Nikon "Small World" competition), and contemporary botanical art. (Most of the flower portraits featured in this *Annual Review* come from that latter exhibition.)

World Window

The Academy magazine, *Update*, also continued to provide a window into the worlds of science with seven issues detailing the Academy's own programs, activities, publications, and people, as well as important topics in the sci-

ences outside. Among the topics covered in 2003–04 were controlling the diabetes epidemic, understanding dyslexia, alternative approaches to treating cancer, epigenetics, stem cell technology, neuroscience and music, and DNA forensics. A special theme that ran through a year's worth of *Update* issues was the environment, with stories devoted to how ecosystems can thrive in crowded cities, carbon sequestration and its effect on global warming, 'green principles' in the design of buildings, hunger in Africa, and the hydrogen economy, among others.

Continuing a tradition of using fine art to illustrate its articles, *Update* featured the work of such contemporary artists as Suzanne Anker, Marshall Arisman, Teresa Fasolino, Adam Fuss, Suzanne Joelson, Mark Kessell, Mary Jo Vath, and Thomas Woodruff.

Mayor's Awards

Another effort to bring attention to scientists and their work was the annual Mayor's Awards for Excellence in Science and Technology, a partnership activity between the Academy and New York City Mayor Michael Bloomberg. At a gala event at the Brooklyn Botanical Garden, the Academy and the City honored eight distinguished scientists, including four recipients of the Young Investigator Award, which recognizes achievements of scientists under 40. Also named in



Peter Edlund Untitled Orchid (after M.J. Heade), 2003

2003–04 were seven members elected Academy Fellows for their contributions to science and two Honorary Life Members, the Academy's highest honor, for their lifetime achievements. (All winners are listed in the *Academy Awards* section of this report.)

Arts and Sciences

The Academy also partnered with the Arts and Sciences Program of The City University of New York Graduate Center to sponsor a panel discussion on medical ethics and the plays of George Bernard Shaw. And a long-standing agreement with The State University of New York-Binghamton to share curatorial expertise on gallery exhibitions was renewed.

STATEMENT 4

Enlisting Member Support

Cecily Selby has had a distinguished career in both science and education. She was a research scientist at Sloan-Kettering, where she published some of the first papers on cancer and muscle cell ultrastructure. She also taught science education at a number of colleges and served on many state and national committees on math, science, and technology education. But Ms. Selby has other noteworthy distinctions—she has been a member of the New York Academy of Sciences for nearly 20 years and a donor through the Darwin Associates, a group founded in 1991 to provide financial support for the Academy.

She is one of nearly 23,000 men and women who called themselves members of the Academy in 2003–04, 48 percent of them in the New York City area, 35 percent in other states, and 17 percent from outside the United States. While total membership numbers have remained fairly stable, growth in certain sectors—especially among young investigators in the Academy's Science Alliance for Graduate Students and Postdocs—has been substantial. In the past year, the number of Science Alliance members grew by over 2,000, a 64 percent increase.

Nature Alliance

The Academy's strategies for growing membership in the past year included developing partnerships with other scientific organizations. An alliance with the Nature Publishing Group included multiple promotional exchanges, the offering of the new digital edition of *Nature* to Science Alliance members, and co-sponsorship of the June Bioscience Research Career Fair and Symposium. Strategic partnerships with corporations like Bristol-Meyers-Squibb, Wyeth, and Boehringer-Ingelheim enabled promotions that also increased the number of corporate members. And exchanges of newsletter sponsorships with

The Language of Floras

Associating a particular meaning with a flower has a long history, drawing on mythology and folklore from around the world. The *floras* depicted in this *Annual Review* symbolize the Academy's efforts during 2003–04 to make an already fertile organization even more fruitful. Most of these images were part of a mid-winter exhibition in the Academy's Gallery of Art & Science. So let the flowers do the talking!

Pomegranate, *Punica granatum* – rebirth and creativity

Thistle, *Silybum marianum* – hard work

Sunflower, *Helianthus annuus* – pride and vitality

Poppy, *Papaver rhoeas* – imagination and fertility

Daisy, *Bellis perennis* – modesty and remembrance



Mari In Vath Pennu 2003

media like *Scientific American*, *New Scientist*, and *The Scientist* helped generate additional memberships.

To stimulate growth and meet the varied needs and interest of potential members, the Academy expanded its membership categories during 2003–04 with the introduction of Associate and Affiliate memberships. It also instituted new membership policies for meeting attendance and Web site access as ways to reward members for their allegiance to the Academy. A monthly electronic newsletter was inaugurated to keep members informed about fast-breaking news and activities, and the first new catalog of *Annals* titles in two years was published to bring members and institutions up to date on Academy publications.

Tulip, *Tulipa gesneriana* – prosperity and charity

Orchid, *Cattleya* – beauty and maturity

Carnation, *Dianthus caryophyllus* – bravery and friendship

Lily, *Lilium candidum* – resurrection

Sundew, *Drosera rotundifolia* – flexibility

STATEMENT 4

Partnering for Progress

Annette Thomas is CEO of one of the largest scientific publishing organizations in the world, the Nature Publishing Group. When NPG and the Academy formed a partnership in 2003 designed to enhance international and multidisciplinary information exchange, she noted that *Nature* and the Academy shared common ground: "to serve the scientific community and foster communications among scientists and the general public."

The NPG collaboration was just one example of a concerted effort by the Academy in 2003–04 to expand partnerships with corporations, foundations, associations, and government agencies, as well as individuals. By forging such strategic alliances, the Academy was able to reinvigorate its services to members, the scientific community, and society at large. The *Nature* partnership, for example, included plans to develop and cosponsor meetings, seminars, and symposia in New York and beyond, as well as consider ways to utilize print and electronic methods to transmit information, ideas, and conclusions from jointly-sponsored activities.

One of the major accomplishments of the alliance was the Bioscience Career Symposium and Jobs Fair, at which leaders from academia and top private companies outlined the wealth of opportunities for young investigators in such fields as bio-tech, pharmaceuticals, and the life sciences. Dozens of representatives of leading bioscience companies also participated as exhibitors. Agreements were also reached with other scientific publishers such as *Scientific American*, *The Scientist*, and *The New Scientist* for mutually beneficial exchanges.

Creative Ways

Other partnerships were formed during 2003–04 with such corporations as Affymetrix, Boehringer-Ingelheim, Bristol-Meyers-Squibb, Human Genome Science, Pfizer, and Regeneron. These ventures led to creative new ways to meet the needs of both the companies and the Academy. For example, in exchange for sponsoring discussion groups in the Academy's Frontiers of Science program, companies could receive Academy membership for their employees as well as access to online content, meeting attendance, and joint marketing possibilities. (At B-M-S

alone, more than 300 of their scientists became Academy members during the year.)

Foundations and government agencies also provided support for Academy conferences, educational programs, and other initiatives. Through programs such as the Darwin Associates and the Bicentennial Club, individuals also enhanced the Academy's financial resources.

Important Volunteers

Commitments of time, energy, and brainpower from members and other volunteers also were important during 2003–04. Leaders of research in academia, industry, finance, and government—including 16 Nobel Laureates—agreed to enlist in a new President's Council to offer advice and spur new program development.

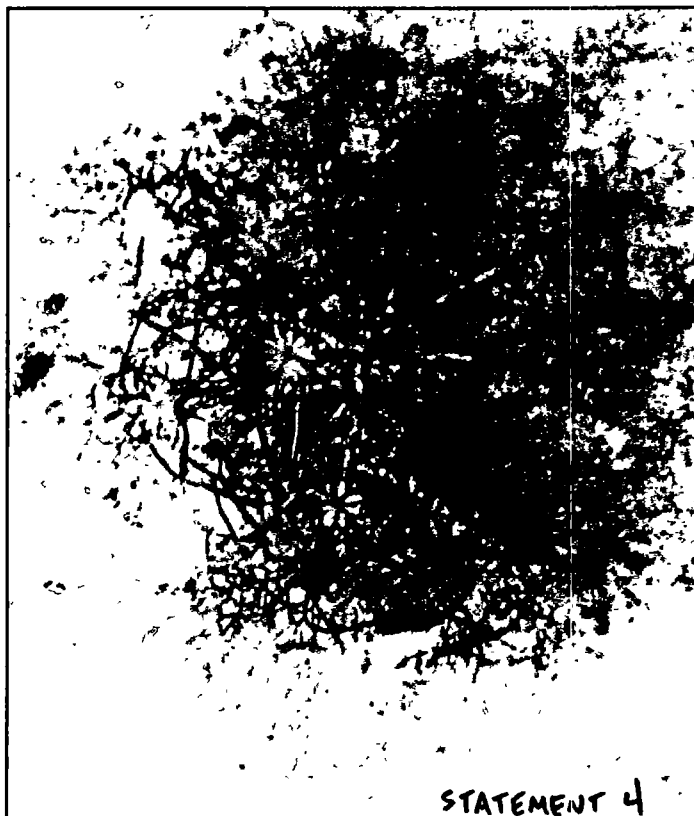
Scores of leading investigators joined the Program Committees for our disciplinary sections and discussion groups and helped in other ways, such as student mentors and 400

Academy Expo judges. And the deans responsible for graduate students and postdocs at 14 institutions worked with the Academy to encourage the participation of young scientists in Academy program.

(Names of these Strategic Partners and Program Committees are listed at the end of this report.)

“A garden is a great teacher. It teaches patience and careful watchfulness; it teaches industry and thrift; above all it teaches entire trust.”

—Gertrude Jekyll



Jay Epsalla Untitled Wreath (Wreath #1), 2002

STATEMENT 4