

**Exempt Organization Declaration and Signature for
Electronic Filing**

OMB No. 1545-1879

For calendar year 2016, or tax year beginning _____, 2016, and ending _____, 20 _____

2016Department of the Treasury
Internal Revenue Service**For use with Forms 990, 990-EZ, 990-PF, 1120-POL, and 8868**

Name of exempt organization

Employer identification number

AMERICAN CHEMICAL SOCIETY

53-0196572

Part I Type of Return and Return Information (Whole Dollars Only)

Check the box for the type of return being filed with Form 8453-EO and enter the applicable amount, if any, from the return. If you check the box on line 1a, 2a, 3a, 4a, or 5a below and the amount on that line of the return being filed with this form was blank, then leave line 1b, 2b, 3b, 4b, or 5b, whichever is applicable, blank (do not enter -0-). If you entered -0- on the return, then enter -0- on the applicable line below. **Do not** complete more than one line in Part I.

1a Form 990 check here	<input checked="" type="checkbox"/>	b Total revenue, if any (Form 990, Part VIII, column (A), line 12) . . .	1b 532,873,517
2a Form 990-EZ check here	<input type="checkbox"/>	b Total revenue, if any (Form 990-EZ, line 9)	2b _____
3a Form 1120-POL check here	<input type="checkbox"/>	b Total tax (Form 1120-POL, line 22)	3b _____
4a Form 990-PF check here	<input type="checkbox"/>	b Tax based on investment income (Form 990-PF, Part VI, line 5)	4b _____
5a Form 8868 check here	<input type="checkbox"/>	b Balance due (Form 8868, line 3c)	5b _____

Part II Declaration of Officer

6 ☐ I authorize the U.S. Treasury and its designated Financial Agent to initiate an Automated Clearing House (ACH) electronic funds withdrawal (direct debit) entry to the financial institution account indicated in the tax preparation software for payment of the organization's federal taxes owed on this return, and the financial institution to debit the entry to this account. To revoke a payment, I must contact the U.S. Treasury Financial Agent at 1-888-353-4537 no later than 2 business days prior to the payment (settlement) date. I also authorize the financial institutions involved in the processing of the electronic payment of taxes to receive confidential information necessary to answer inquiries and resolve issues related to the payment.

☐ If a copy of this return is being filed with a state agency(ies) regulating charities as part of the IRS Fed/State program, I certify that I executed the electronic disclosure consent contained within this return allowing disclosure by the IRS of this Form 990/990-EZ/990-PF (as specifically identified in Part I above) to the selected state agency(ies).

Under penalties of perjury, I declare that I am an officer of the above named organization and that I have examined a copy of the organization's 2016 electronic return and accompanying schedules and statements, and to the best of my knowledge and belief, they are true, correct, and complete. I further declare that the amount in Part I above is the amount shown on the copy of the organization's electronic return. I consent to allow my intermediate service provider, transmitter, or electronic return originator (ERO) to send the organization's return to the IRS and to receive from the IRS (a) an acknowledgement of receipt or reason for rejection of the transmission, (b) the reason for any delay in processing the return or refund, and (c) the date of any refund.

Sign
Here

Signature of officer

Date

TREASURER & CFO
Title**Part III Declaration of Electronic Return Originator (ERO) and Paid Preparer (see instructions)**

I declare that I have reviewed the above organization's return and that the entries on Form 8453-EO are complete and correct to the best of my knowledge. If I am only a collector, I am not responsible for reviewing the return and only declare that this form accurately reflects the data on the return. The organization officer will have signed this form before I submit the return. I will give the officer a copy of all forms and information to be filed with the IRS, and have followed all other requirements in Pub. 4163, Modernized e-File (MeF) Information for Authorized IRS e-file Providers for Business Returns. If I am also the Paid Preparer, under penalties of perjury I declare that I have examined the above organization's return and accompanying schedules and statements, and to the best of my knowledge and belief, they are true, correct, and complete. This Paid Preparer declaration is based on all information of which I have any knowledge.

**ERO's
Use
Only**ERO's
signatureFirm's name (or
yours if self-employed),
address, and ZIP code

Date

Check if
also paid
preparer ☐Check if
self-
employed ☐

ERO's SSN or PTIN

EIN

Phone no.

Under penalties of perjury, I declare that I have examined the above return and accompanying schedules and statements, and to the best of my knowledge and belief, they are true, correct, and complete. Declaration of preparer is based on all information of which the preparer has any knowledge.

**Paid
Preparer
Use Only**

Print/Type preparer's name

RAYMOND LY

Preparer's signature

Date

11-10-2017

Check ☐ if
self-employed

PTIN

PO1205643

Firm's name ▶ KPMG, LLP

Firm's EIN ▶ 13-5565207

Firm's address ▶ 1676 INTERNATIONAL DRIVE, MCLEAN, VA 22102

Phone no. 703-286-8000

For Privacy Act and Paperwork Reduction Act Notice, see back of form.

Form **8453-EO** (2016)

Form **990****Return of Organization Exempt From Income Tax**

OMB No. 1545-0047

Department of the Treasury
Internal Revenue Service

Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundations)

- ▶ Do not enter social security numbers on this form as it may be made public.
▶ Information about Form 990 and its instructions is at www.irs.gov/form990.

2016**Open to Public
Inspection****A For the 2016 calendar year, or tax year beginning , 2016, and ending , 20**

B Check if applicable: <input type="checkbox"/> Address change <input type="checkbox"/> Name change <input type="checkbox"/> Initial return <input type="checkbox"/> Final return/terminated <input type="checkbox"/> Amended return <input type="checkbox"/> Application pending	C Name of organization AMERICAN CHEMICAL SOCIETY		D Employer identification number 53-0196572	
	Doing business as			
	Number and street (or P.O. box if mail is not delivered to street address)		Room/suite	
	1155 SIXTEENTH STREET, N.W.			
	City or town, state or province, country, and ZIP or foreign postal code WASHINGTON, DC 20036-4892		E Telephone number (202) 872-6133	
F Name and address of principal officer: THOMAS M. CONNELLY, JR. 1155 SIXTEENTH STREET, N.W. WASHINGTON, DC 20036-4892		G Gross receipts \$ 1,764,046,408.		
I Tax-exempt status: <input checked="" type="checkbox"/> 501(c)(3) <input type="checkbox"/> 501(c) () ◀ (insert no.) <input type="checkbox"/> 4947(a)(1) or <input type="checkbox"/> 527		H(a) Is this a group return for subordinates? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No H(b) Are all subordinates included? <input type="checkbox"/> Yes <input type="checkbox"/> No If "No," attach a list. (see instructions)		
J Website: ▶ HTTPS://WWW.ACS.ORG		H(c) Group exemption number ▶ 0945		
K Form of organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Trust <input type="checkbox"/> Association <input type="checkbox"/> Other ▶		L Year of formation: 1938 M State of legal domicile:		

Part I Summary

Activities & Governance	1 Briefly describe the organization's mission or most significant activities: THE ACS IS A FEDERALLY CHARTERED ORGANIZATION WHOSE MISSION IS TO ADVANCE THE BROADER CHEMISTRY ENTERPRISE AND ITS PRACTITIONERS FOR THE BENEFIT OF EARTH & ITS PEOPLE		
	2 Check this box <input type="checkbox"/> if the organization discontinued its operations or disposed of more than 25% of its net assets.		
	3 Number of voting members of the governing body (Part VI, line 1a)	3	15.
	4 Number of independent voting members of the governing body (Part VI, line 1b)	4	15.
	5 Total number of individuals employed in calendar year 2016 (Part V, line 2a)	5	2,121.
	6 Total number of volunteers (estimate if necessary)	6	100,290.
	7a Total unrelated business revenue from Part VIII, column (C), line 12	7a	21,391,318.
b Net unrelated business taxable income from Form 990-T, line 34	7b	0.	
Revenue	8 Contributions and grants (Part VIII, line 1h)	Prior Year	Current Year
	9 Program service revenue (Part VIII, line 2g)	5,940,876.	3,590,485.
	10 Investment income (Part VIII, column (A), lines 3, 4, and 7d)	493,388,637.	509,531,150.
	11 Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)	60,063,431.	17,077,720.
	12 Total revenue - add lines 8 through 11 (must equal Part VIII, column (A), line 12)	2,824,862.	2,674,162.
Expenses	13 Grants and similar amounts paid (Part IX, column (A), lines 1-3)	562,217,806.	532,873,517.
	14 Benefits paid to or for members (Part IX, column (A), line 4)	24,421,036.	25,891,657.
	15 Salaries, other compensation, employee benefits (Part IX, column (A), lines 5-10)	0.	0.
	16a Professional fundraising fees (Part IX, column (A), line 11e)	241,959,243.	236,900,534.
	b Total fundraising expenses (Part IX, column (D), line 25) ▶ 1,231,203.	0.	0.
	17 Other expenses (Part IX, column (A), lines 11a-11d, 11f-24e)	259,750,780.	268,051,226.
	18 Total expenses. Add lines 13-17 (must equal Part IX, column (A), line 25)	526,131,059.	530,843,417.
19 Revenue less expenses. Subtract line 18 from line 12	36,086,747.	2,030,100.	
Net Assets or Fund Balances	20 Total assets (Part X, line 16)	Beginning of Current Year	End of Year
	21 Total liabilities (Part X, line 26)	1,306,055,870.	1,356,128,685.
	22 Net assets or fund balances. Subtract line 21 from line 20.	468,468,923.	478,021,985.
		837,586,947.	878,106,700.

Part II Signature Block

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.

Sign Here	Signature of officer		11/10/2017	
	BRIAN A. BERNSTEIN		Date	
Paid Preparer Use Only	Type or print name and title		TREASURER & CFO	
	Print/Type preparer's name	Preparer's signature	Date	Check <input type="checkbox"/> if self-employed PTIN
	RAYMOND LY			P01205643
	Firm's name ▶ KPMG LLP	Firm's EIN ▶ 13-5565207		
	Firm's address ▶ 1676 INTERNATIONAL DRIVE MCLEAN, VA 22102	Phone no. 703-286-8000		

May the IRS discuss this return with the preparer shown above? (see instructions) ☒ Yes ☐ No

For Paperwork Reduction Act Notice, see the separate instructions.

Form **990** (2016)

Part III Statement of Program Service AccomplishmentsCheck if Schedule O contains a response or note to any line in this Part III ☐ Yes ☒ No**1** Briefly describe the organization's mission:

THE AMERICAN CHEMICAL SOCIETY IS A FEDERALLY CHARTERED ORGANIZATION
WHOSE MISSION IS TO ADVANCE THE BROADER CHEMISTRY ENTERPRISE AND ITS
PRACTITIONERS FOR THE BENEFIT OF EARTH AND ITS PEOPLE.

2 Did the organization undertake any significant program services during the year which were not listed on the prior Form 990 or 990-EZ? ☐ Yes ☒ No

If "Yes," describe these new services on Schedule O.

3 Did the organization cease conducting, or make significant changes in how it conducts, any program services? ☐ Yes ☒ No

If "Yes," describe these changes on Schedule O.

4 Describe the organization's program service accomplishments for each of its three largest program services, as measured by expenses. Section 501(c)(3) and 501(c)(4) organizations are required to report the amount of grants and allocations to others, the total expenses, and revenue, if any, for each program service reported.**4a** (Code:) (Expenses \$ 387,080,263. including grants of \$) (Revenue \$ 478,212,331.)

ATTACHMENT 1

4b (Code:) (Expenses \$ 49,229,208. including grants of \$ 5,709,157.) (Revenue \$ 17,476,255.)

ATTACHMENT 2

4c (Code:) (Expenses \$ 23,296,718. including grants of \$ 20,182,500.) (Revenue \$)

ATTACHMENT 3

4d Other program services (Describe in Schedule O.)

(Expenses \$ 14,806,039. including grants of \$) (Revenue \$ 13,865,999.)

4e Total program service expenses ► 474,412,228.

Part IV Checklist of Required Schedules

	Yes	No
1 Is the organization described in section 501(c)(3) or 4947(a)(1) (other than a private foundation)? If "Yes," complete Schedule A.	1 X	
2 Is the organization required to complete Schedule B, Schedule of Contributors (see instructions)?	2 X	
3 Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for public office? If "Yes," complete Schedule C, Part I.	3	X
4 Section 501(c)(3) organizations. Did the organization engage in lobbying activities, or have a section 501(h) election in effect during the tax year? If "Yes," complete Schedule C, Part II.	4 X	
5 Is the organization a section 501(c)(4), 501(c)(5), or 501(c)(6) organization that receives membership dues, assessments, or similar amounts as defined in Revenue Procedure 98-19? If "Yes," complete Schedule C, Part III.	5	X
6 Did the organization maintain any donor advised funds or any similar funds or accounts for which donors have the right to provide advice on the distribution or investment of amounts in such funds or accounts? If "Yes," complete Schedule D, Part I.	6	X
7 Did the organization receive or hold a conservation easement, including easements to preserve open space, the environment, historic land areas, or historic structures? If "Yes," complete Schedule D, Part II.	7	X
8 Did the organization maintain collections of works of art, historical treasures, or other similar assets? If "Yes," complete Schedule D, Part III.	8	X
9 Did the organization report an amount in Part X, line 21, for escrow or custodial account liability, serve as a custodian for amounts not listed in Part X; or provide credit counseling, debt management, credit repair, or debt negotiation services? If "Yes," complete Schedule D, Part IV.	9	X
10 Did the organization, directly or through a related organization, hold assets in temporarily restricted endowments, permanent endowments, or quasi-endowments? If "Yes," complete Schedule D, Part V.	10 X	
11 If the organization's answer to any of the following questions is "Yes," then complete Schedule D, Parts VI, VII, VIII, IX, or X as applicable.		
a Did the organization report an amount for land, buildings, and equipment in Part X, line 10? If "Yes," complete Schedule D, Part VI.	11a X	
b Did the organization report an amount for investments-other securities in Part X, line 12 that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VII.	11b X	
c Did the organization report an amount for investments-program related in Part X, line 13 that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VIII.	11c	X
d Did the organization report an amount for other assets in Part X, line 15 that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part IX.	11d	X
e Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D, Part X.	11e X	
f Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? If "Yes," complete Schedule D, Part X.	11f X	
12a Did the organization obtain separate, independent audited financial statements for the tax year? If "Yes," complete Schedule D, Parts XI and XII.	12a	X
b Was the organization included in consolidated, independent audited financial statements for the tax year? If "Yes," and if the organization answered "No" to line 12a, then completing Schedule D, Parts XI and XII is optional.	12b X	
13 Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E.	13	X
14a Did the organization maintain an office, employees, or agents outside of the United States?	14a X	
b Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business, investment, and program service activities outside the United States, or aggregate foreign investments valued at \$100,000 or more? If "Yes," complete Schedule F, Parts I and IV.	14b X	
15 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or other assistance to or for any foreign organization? If "Yes," complete Schedule F, Parts II and IV.	15 X	
16 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or other assistance to or for foreign individuals? If "Yes," complete Schedule F, Parts III and IV.	16 X	
17 Did the organization report a total of more than \$15,000 of expenses for professional fundraising services on Part IX, column (A), lines 6 and 11e? If "Yes," complete Schedule G, Part I (see instructions).	17	X
18 Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines 1c and 8a? If "Yes," complete Schedule G, Part II.	18	X
19 Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? If "Yes," complete Schedule G, Part III.	19	X

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Part IV Checklist of Required Schedules (continued)

	Yes	No
20a Did the organization operate one or more hospital facilities? <i>If "Yes," complete Schedule H.</i>	20a	X
b If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return?	20b	
21 Did the organization report more than \$5,000 of grants or other assistance to any domestic organization or domestic government on Part IX, column (A), line 1? <i>If "Yes," complete Schedule I, Parts I and II.</i>	21	X
22 Did the organization report more than \$5,000 of grants or other assistance to or for domestic individuals on Part IX, column (A), line 2? <i>If "Yes," complete Schedule I, Parts I and III.</i>	22	X
23 Did the organization answer "Yes" to Part VII, Section A, line 3, 4, or 5 about compensation of the organization's current and former officers, directors, trustees, key employees, and highest compensated employees? <i>If "Yes," complete Schedule J.</i>	23	X
24a Did the organization have a tax-exempt bond issue with an outstanding principal amount of more than \$100,000 as of the last day of the year, that was issued after December 31, 2002? <i>If "Yes," answer lines 24b through 24d and complete Schedule K. If "No," go to line 25a.</i>	24a	X
b Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?	24b	
c Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease any tax-exempt bonds?	24c	
d Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?	24d	
25a Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations. Did the organization engage in an excess benefit transaction with a disqualified person during the year? <i>If "Yes," complete Schedule L, Part I.</i>	25a	X
b Is the organization aware that it engaged in an excess benefit transaction with a disqualified person in a prior year, and that the transaction has not been reported on any of the organization's prior Forms 990 or 990-EZ? <i>If "Yes," complete Schedule L, Part I.</i>	25b	X
26 Did the organization report any amount on Part X, line 5, 6, or 22 for receivables from or payables to any current or former officers, directors, trustees, key employees, highest compensated employees, or disqualified persons? <i>If "Yes," complete Schedule L, Part II.</i>	26	X
27 Did the organization provide a grant or other assistance to an officer, director, trustee, key employee, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled entity or family member of any of these persons? <i>If "Yes," complete Schedule L, Part III.</i>	27	X
28 Was the organization a party to a business transaction with one of the following parties (see Schedule L, Part IV instructions for applicable filing thresholds, conditions, and exceptions):		
a A current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV.</i>	28a	X
b A family member of a current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV.</i>	28b	X
c An entity of which a current or former officer, director, trustee, or key employee (or a family member thereof) was an officer, director, trustee, or direct or indirect owner? <i>If "Yes," complete Schedule L, Part IV.</i>	28c	X
29 Did the organization receive more than \$25,000 in non-cash contributions? <i>If "Yes," complete Schedule M.</i>	29	X
30 Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? <i>If "Yes," complete Schedule M.</i>	30	X
31 Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I.</i>	31	X
32 Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? <i>If "Yes," complete Schedule N, Part II.</i>	32	X
33 Did the organization own 100% of an entity disregarded as separate from the organization under Regulations sections 301.7701-2 and 301.7701-3? <i>If "Yes," complete Schedule R, Part I.</i>	33	X
34 Was the organization related to any tax-exempt or taxable entity? <i>If "Yes," complete Schedule R, Part II, III, or IV, and Part V, line 1.</i>	34	X
35a Did the organization have a controlled entity within the meaning of section 512(b)(13)?	35a	X
b If "Yes" to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity within the meaning of section 512(b)(13)? <i>If "Yes," complete Schedule R, Part V, line 2.</i>	35b	X
36 Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization? <i>If "Yes," complete Schedule R, Part V, line 2.</i>	36	X
37 Did the organization conduct more than 5% of its activities through an entity that is not a related organization and that is treated as a partnership for federal income tax purposes? <i>If "Yes," complete Schedule R, Part VI.</i>	37	X
38 Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11b and 19? Note. All Form 990 filers are required to complete Schedule O.	38	X

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Part V Statements Regarding Other IRS Filings and Tax ComplianceCheck if Schedule O contains a response or note to any line in this Part V ☒

		Yes	No
1a Enter the number reported in Box 3 of Form 1096. Enter -0- if not applicable.	1a 1,116		
b Enter the number of Forms W-2G included in line 1a. Enter -0- if not applicable.	1b 0.		
c Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners?	1c	X	
2a Enter the number of employees reported on Form W-3, Transmittal of Wage and Tax Statements, filed for the calendar year ending with or within the year covered by this return.	2a 2,121		
b If at least one is reported on line 2a, did the organization file all required federal employment tax returns? Note. If the sum of lines 1a and 2a is greater than 250, you may be required to e-file (see instructions).	2b	X	
3a Did the organization have unrelated business gross income of \$1,000 or more during the year?	3a	X	
b If "Yes," has it filed a Form 990-T for this year? If "No" to line 3b, provide an explanation in Schedule O.	3b	X	
4a At any time during the calendar year, did the organization have an interest in, or a signature or other authority over, a financial account in a foreign country (such as a bank account, securities account, or other financial account)?	4a	X	
b If "Yes," enter the name of the foreign country: <u>UNITED KINGDOM</u> See instructions for filing requirements for FinCEN Form 114, Report of Foreign Bank and Financial Accounts (FBAR).			
5a Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?	5a		X
b Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?	5b		X
c If "Yes" to line 5a or 5b, did the organization file Form 8886-T?	5c		
6a Does the organization have annual gross receipts that are normally greater than \$100,000, and did the organization solicit any contributions that were not tax deductible as charitable contributions?	6a		X
b If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?	6b		
7 Organizations that may receive deductible contributions under section 170(c).			
a Did the organization receive a payment in excess of \$75 made partly as a contribution and partly for goods and services provided to the payor?	7a	X	
b If "Yes," did the organization notify the donor of the value of the goods or services provided?	7b	X	
c Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required to file Form 8282?	7c		X
d If "Yes," indicate the number of Forms 8282 filed during the year	7d		
e Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	7e		X
f Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?	7f		X
g If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required?	7g		
h If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?	7h		
8 Sponsoring organizations maintaining donor advised funds. Did a donor advised fund maintained by the sponsoring organization have excess business holdings at any time during the year?	8		
9 Sponsoring organizations maintaining donor advised funds.			
a Did the sponsoring organization make any taxable distributions under section 4966?	9a		
b Did the sponsoring organization make a distribution to a donor, donor advisor, or related person?	9b		
10 Section 501(c)(7) organizations. Enter:			
a Initiation fees and capital contributions included on Part VIII, line 12	10a		
b Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities.	10b		
11 Section 501(c)(12) organizations. Enter:			
a Gross income from members or shareholders	11a		
b Gross income from other sources (Do not net amounts due or paid to other sources against amounts due or received from them.)	11b		
12a Section 4947(a)(1) non-exempt charitable trusts. Is the organization filing Form 990 in lieu of Form 1041?	12a		
b If "Yes," enter the amount of tax-exempt interest received or accrued during the year.	12b		
13 Section 501(c)(29) qualified nonprofit health insurance issuers.			
a Is the organization licensed to issue qualified health plans in more than one state? Note. See the instructions for additional information the organization must report on Schedule O.	13a		
b Enter the amount of reserves the organization is required to maintain by the states in which the organization is licensed to issue qualified health plans	13b		
c Enter the amount of reserves on hand	13c		
14a Did the organization receive any payments for indoor tanning services during the tax year?	14a		X
b If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation in Schedule O	14b		

Part VI Governance, Management, and Disclosure For each "Yes" response to lines 2 through 7b below, and for a "No" response to line 8a, 8b, or 10b below, describe the circumstances, processes, or changes in Schedule O. See instructions.

Check if Schedule O contains a response or note to any line in this Part VI ☒ **X**

Section A. Governing Body and Management

	Yes	No
1a Enter the number of voting members of the governing body at the end of the tax year 1a 15		
If there are material differences in voting rights among members of the governing body, or if the governing body delegated broad authority to an executive committee or similar committee, explain in Schedule O.		
b Enter the number of voting members included in line 1a, above, who are independent 1b 15		
2 Did any officer, director, trustee, or key employee have a family relationship or a business relationship with any other officer, director, trustee, or key employee?	2 X	
3 Did the organization delegate control over management duties customarily performed by or under the direct supervision of officers, directors, or trustees, or key employees to a management company or other person? . .	3	X
4 Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?	4	X
5 Did the organization become aware during the year of a significant diversion of the organization's assets?	5 X	
6 Did the organization have members or stockholders?	6 X	
7a Did the organization have members, stockholders, or other persons who had the power to elect or appoint one or more members of the governing body?	7a X	
b Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or persons other than the governing body?	7b	X
8 Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:		
a The governing body?	8a X	
b Each committee with authority to act on behalf of the governing body?	8b X	
9 Is there any officer, director, trustee, or key employee listed in Part VII, Section A, who cannot be reached at the organization's mailing address? If "Yes," provide the names and addresses in Schedule O	9	X

Section B. Policies (This Section B requests information about policies not required by the Internal Revenue Code.)

	Yes	No
10a Did the organization have local chapters, branches, or affiliates?	10a X	
b If "Yes," did the organization have written policies and procedures governing the activities of such chapters, affiliates, and branches to ensure their operations are consistent with the organization's exempt purposes? . .	10b X	
11a Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form? .	11a X	
b Describe in Schedule O the process, if any, used by the organization to review this Form 990.		
12a Did the organization have a written conflict of interest policy? If "No," go to line 13	12a X	
b Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	12b X	
c Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe in Schedule O how this was done	12c X	
13 Did the organization have a written whistleblower policy?	13 X	
14 Did the organization have a written document retention and destruction policy?	14 X	
15 Did the process for determining compensation of the following persons include a review and approval by independent persons, comparability data, and contemporaneous substantiation of the deliberation and decision?		
a The organization's CEO, Executive Director, or top management official	15a X	
b Other officers or key employees of the organization	15b X	
If "Yes" to line 15a or 15b, describe the process in Schedule O (see instructions).		
16a Did the organization invest in, contribute assets to, or participate in a joint venture or similar arrangement with a taxable entity during the year?	16a	X
b If "Yes," did the organization follow a written policy or procedure requiring the organization to evaluate its participation in joint venture arrangements under applicable federal tax law, and take steps to safeguard the organization's exempt status with respect to such arrangements?	16b	

Section C. Disclosure

17 List the states with which a copy of this Form 990 is required to be filed ► **ATTACHMENT 4**

18 Section 6104 requires an organization to make its Forms 1023 (or 1024 if applicable), 990, and 990-T (Section 501(c)(3)s only) available for public inspection. Indicate how you made these available. Check all that apply.
☒ Own website ☐ Another's website ☒ Upon request ☐ Other (explain in Schedule O)

19 Describe in Schedule O whether (and if so, how) the organization made its governing documents, conflict of interest policy, and financial statements available to the public during the tax year.

20 State the name, address, and telephone number of the person who possesses the organization's books and records: ►

BRIAN A. BERNSTEIN, ACS, 1155 SIXTEENTH STREET, N.W. WASHINGTON, DC 20036 202-872-6133

Part VII Compensation of Officers, Directors, Trustees, Key Employees, Highest Compensated Employees, and Independent ContractorsCheck if Schedule O contains a response or note to any line in this Part VII. ☐**Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees****1a** Complete this table for all persons required to be listed. Report compensation for the calendar year ending with or within the organization's tax year.

- List all of the organization's **current** officers, directors, trustees (whether individuals or organizations), regardless of amount of compensation. Enter -0- in columns (D), (E), and (F) if no compensation was paid.
- List all of the organization's **current** key employees, if any. See instructions for definition of "key employee."
- List the organization's five **current** highest compensated employees (other than an officer, director, trustee, or key employee) who received reportable compensation (Box 5 of Form W-2 and/or Box 7 of Form 1099-MISC) of more than \$100,000 from the organization and any related organizations.
- List all of the organization's **former** officers, key employees, and highest compensated employees who received more than \$100,000 of reportable compensation from the organization and any related organizations.
- List all of the organization's **former directors or trustees** that received, in the capacity as a former director or trustee of the organization, more than \$10,000 of reportable compensation from the organization and any related organizations.

List persons in the following order: individual trustees or directors; institutional trustees; officers; key employees; highest compensated employees; and former such persons.

☐ Check this box if neither the organization nor any related organization compensated any current officer, director, or trustee.

(A) Name and Title	(B) Average hours per week (list any hours for related organizations below dotted line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional trustee	Officer	Key employee	Highest compensated employee	Former			
(1) DR. PAT N. CONFALONE CHAIR, BOD & DIRECTOR, DIST III	20.00 0.	X		X				0.	0.	0.
(2) DR. LAURA E. PENCE DIRECTOR, DISTRICT I	10.00 0.	X						0.	0.	0.
(3) DR. GEORGE M. BODNER DIRECTOR, DISTRICT II	10.00 0.	X						0.	0.	0.
(4) PROF. RIGOBERTO HERNANDEZ DIRECTOR, DISTRICT IV	10.00 0.	X						0.	0.	0.
(5) DR. JOHN E. ADAMS DIRECTOR, DISTRICT V	10.00 0.	X						0.	0.	0.
(6) DR. PAUL W. JAGODZINSKI DIRECTOR, DISTRICT VI	10.00 0.	X						0.	0.	0.
(7) DR. WILLIAM F. CARROLL, JR. DIRECTOR-AT-LARGE	10.00 0.	X						900.	0.	0.
(8) DR. LEE H. LATIMER DIRECTOR-AT-LARGE	10.00 0.	X						0.	0.	0.
(9) DR. INGRID MONTES DIRECTOR-AT-LARGE	10.00 0.	X						0.	0.	0.
(10) DR. DOROTHY J. PHILLIPS DIRECTOR-AT-LARGE	10.00 0.	X						0.	0.	0.
(11) DR. BARBARA A. SAWREY DIRECTOR-AT-LARGE	10.00 0.	X						0.	0.	0.
(12) DR. KATHLEEN M. SCHULZ DIRECTOR-AT-LARGE	10.00 0.	X						0.	0.	0.
(13) DR. DONNA NELSON PRESIDENT	30.00 0.	X		X				0.	0.	0.
(14) DR. ALLISON A. CAMPBELL PRESIDENT-ELECT	10.00 0.	X		X				0.	0.	0.

Part VII Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees (continued)

(A) Name and title	(B) Average hours per week (list any hours for related organizations below dotted line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional trustee	Officer	Key employee	Highest compensated employee	Former			
(15) DR. DIANE GROB SCHMIDT IMMEDIATE PAST PRESIDENT	10.00 0.	X		X				0.	0.	0.
(16) DR. THOMAS M. CONNELLY, JR. EXECUTIVE DIRECTOR & CEO	40.00 .50	X		X				893,157.	0.	52,443.
(17) MR. FLINT H. LEWIS SECRETARY & GENERAL COUNSEL	40.00 1.50			X				442,258.	0.	54,170.
(18) MR. BRIAN A. BERNSTEIN TREASURER & CFO	40.00 .70			X				537,467.	0.	51,737.
(19) MR. MANUEL GUZMAN PRESIDENT, CAS	40.00 2.00				X			999,744.	0.	51,303.
(20) DR. BRIAN D. CRAWFORD PRESIDENT, PUBLICATIONS	40.00 0.				X			756,630.	0.	46,927.
(21) MR. JOHN R. SULLIVAN CHIEF INFORMATION OFFICER	40.00 0.				X			465,996.	0.	54,485.
(22) DR. MATTHEW J. TOUSSANT SVP, PRODUCT & CONTENT OPS, CAS	40.00 2.50					X		586,057.	0.	43,159.
(23) MR. CONAL THOMPSON CTO & VP, INFORMATION TECH, CAS	40.00 .50					X		508,410.	0.	48,508.
(24) DR. MICHAEL DENNIS VP, LEGAL ADM, PMO & INNVTN, CAS	40.00 1.00					X		400,836.	0.	49,830.
(25) MR. BRANDON NORDIN SVP, SALES MKTG DGT STGY, PUBS	40.00 2.00					X		380,908.	0.	42,364.
1b Sub-total								900.	0.	0.
c Total from continuation sheets to Part VII, Section A								6,327,627.	0.	547,843.
d Total (add lines 1b and 1c)								6,328,527.	0.	547,843.

2 Total number of individuals (including but not limited to those listed above) who received more than \$100,000 of reportable compensation from the organization ► 694

	Yes	No
3 Did the organization list any former officer, director, or trustee, key employee, or highest compensated employee on line 1a? If "Yes," complete Schedule J for such individual		X
4 For any individual listed on line 1a, is the sum of reportable compensation and other compensation from the organization and related organizations greater than \$150,000? If "Yes," complete Schedule J for such individual	X	
5 Did any person listed on line 1a receive or accrue compensation from any unrelated organization or individual for services rendered to the organization? If "Yes," complete Schedule J for such person		X

Section B. Independent Contractors

1 Complete this table for your five highest compensated independent contractors that received more than \$100,000 of compensation from the organization. Report compensation for the calendar year ending with or within the organization's tax year.

(A) Name and business address	(B) Description of services	(C) Compensation
ATTACHMENT 5		

2 Total number of independent contractors (including but not limited to those listed above) who received more than \$100,000 in compensation from the organization ► 188

Part VII	Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees <i>(continued)</i>
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[illegible]

2	Total number of individuals (including but not limited to those listed above) who received more than \$100,000 of reportable compensation from the organization	694
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		Yes	No
3	Did the organization list any former officer, director, or trustee, key employee, or highest compensated employee on line 1a? <i>If "Yes," complete Schedule J for such individual</i>		X
4	For any individual listed on line 1a, is the sum of reportable compensation and other compensation from the organization and related organizations greater than \$150,000? <i>If "Yes," complete Schedule J for such individual</i>	X	
5	Did any person listed on line 1a receive or accrue compensation from any unrelated organization or individual for services rendered to the organization? <i>If "Yes," complete Schedule J for such person</i>		X

Section B. Independent Contractors

1 Complete this table for your five highest compensated independent contractors that received more than \$100,000 of compensation from the organization. Report compensation for the calendar year ending with or within the organization's tax year.

(A) Name and business address	(B) Description of services	(C) Compensation
2 Total number of independent contractors (including but not limited to those listed above) who received more than \$100,000 in compensation from the organization ►		

Part VIII Statement of RevenueCheck if Schedule O contains a response or note to any line in this Part VIII. ☐

				(A) Total revenue	(B) Related or exempt function revenue	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections 512-514	
Contributions, Gifts, Grants and Other Similar Amounts	1a	Federated campaigns	1a					
	b	Membership dues	1b					
	c	Fundraising events	1c					
	d	Related organizations	1d					
	e	Government grants (contributions) . .	1e	659,860.				
	f	All other contributions, gifts, grants, and similar amounts not included above .	1f	2,930,625.				
	g	Noncash contributions included in lines 1a-1f: \$		111,974.				
	h	Total. Add lines 1a-1f		3,590,485.				
Program Service Revenue	2a	INFORMATION SERVICES	Business Code	541800	478,212,331.	470,770,908.	7,380,224.	61,199.
	b	EDUCATION & MEMBERSHIP		541800	17,476,255.	5,983,431.	168,530.	11,324,294.
	c	MEMBER INSURANCE PROGRAM		525920	13,842,564.		13,842,564.	
	d							
	e							
	f	All other program service revenue						
	g	Total. Add lines 2a-2f		509,531,150.				
	Other Revenue	3	Investment income (including dividends, interest, and other similar amounts).			19,874,728.		
4		Income from investment of tax-exempt bond proceeds .			0.			
5		Royalties			2,650,728.			2,650,728.
			(i) Real	(ii) Personal				
6a		Gross rents		29,578.				
b		Less: rental expenses		17,278.				
c		Rental income or (loss)		12,300.				
d		Net rental income or (loss)			12,300.	12,300.		
7a		Gross amount from sales of assets other than inventory	(i) Securities	(ii) Other	1,228,358,605.			
b		Less: cost or other basis and sales expenses		1,231,155,613.				
c		Gain or (loss)		-2,797,008.				
d		Net gain or (loss)			-2,797,008.			-2,797,008.
8a		Gross income from fundraising events (not including \$ _____ of contributions reported on line 1c). See Part IV, line 18	a	0.				
b		Less: direct expenses	b	0.				
c		Net income or (loss) from fundraising events.		0.				
9a		Gross income from gaming activities. See Part IV, line 19	a	0.				
b	Less: direct expenses	b	0.					
c	Net income or (loss) from gaming activities.		0.					
10a	Gross sales of inventory, less returns and allowances	a	0.					
b	Less: cost of goods sold	b	0.					
c	Net income or (loss) from sales of inventory.		0.					
Miscellaneous Revenue				Business Code				
11a	MISCELLANEOUS REVENUE		900099	11,134.	11,134.			
b								
c								
d	All other revenue							
e	Total. Add lines 11a-11d			11,134.				
12	Total revenue. See instructions.			532,873,517.	476,777,773.	21,391,318.	31,113,941.	

Part IX Statement of Functional Expenses

Section 501(c)(3) and 501(c)(4) organizations must complete all columns. All other organizations must complete column (A).

Check if Schedule O contains a response or note to any line in this Part IX

☒**Do not include amounts reported on lines 6b, 7b, 8b, 9b, and 10b of Part VIII.**

	(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraising expenses
1 Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21	24,436,798.	24,436,798.		
2 Grants and other assistance to domestic individuals. See Part IV, line 22	618,302.	618,302.		
3 Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, lines 15 and 16	836,557.	836,557.		
4 Benefits paid to or for members	0.			
5 Compensation of current officers, directors, trustees, and key employees	4,407,217.	1,855,504.	2,551,713.	
6 Compensation not included above, to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B)	0.			
7 Other salaries and wages	177,489,320.	155,622,524.	21,163,694.	703,102.
8 Pension plan accruals and contributions (include section 401(k) and 403(b) employer contributions)	18,638,579.	14,475,592.	4,136,572.	26,415.
9 Other employee benefits	24,228,463.	24,422,540.	-305,387.	111,310.
10 Payroll taxes	12,136,955.	10,582,334.	1,505,386.	49,235.
11 Fees for services (non-employees):				
a Management	0.			
b Legal	1,223,982.	475,576.	748,406.	
c Accounting	440,814.	15,000.	425,814.	
d Lobbying	0.			
e Professional fundraising services. See Part IV, line 17.	0.			
f Investment management fees	1,313,311.	1,312,628.		683.
g Other. (If line 11g amount exceeds 10% of line 25, column (A) amount, list line 11g expenses on Schedule O.)	118,717,069.	113,825,398.	4,815,252.	76,419.
12 Advertising and promotion	13,355,727.	13,294,508.	60,519.	700.
13 Office expenses	5,784,576.	4,341,554.	1,321,708.	121,314.
14 Information technology	29,423,799.	23,382,785.	6,035,300.	5,714.
15 Royalties	3,603,295.	3,603,235.	60.	
16 Occupancy	9,407,087.	6,961,049.	2,446,038.	
17 Travel	14,528,550.	11,060,660.	3,401,149.	66,741.
18 Payments of travel or entertainment expenses for any federal, state, or local public officials	0.			
19 Conferences, conventions, and meetings	8,027,914.	7,504,136.	518,099.	5,679.
20 Interest	0.			
21 Payments to affiliates	0.			
22 Depreciation, depletion, and amortization	27,542,336.	20,977,664.	6,564,672.	
23 Insurance	391,127.	309,578.	81,549.	
24 Other expenses. Itemize expenses not covered above (List miscellaneous expenses in line 24e. If line 24e amount exceeds 10% of line 25, column (A) amount, list line 24e expenses on Schedule O.)				
a PREMIUM	12,475,316.	12,475,316.		
b LIBRARY	7,870,981.	7,298,752.	569,045.	3,184.
c PUBLICATION AND DISTRIBUTION	3,934,999.	3,934,999.		
d EMPLOYEE TRAIN, DEV, RECRUIT	2,458,474.	1,425,672.	1,028,708.	4,094.
e All other expenses	7,551,869.	9,363,567.	-1,868,311.	56,613.
25 Total functional expenses. Add lines 1 through 24e	530,843,417.	474,412,228.	55,199,986.	1,231,203.
26 Joint costs. Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation. Check here <input type="checkbox"/> if following SOP 98-2 (ASC 958-720)	0.			

Part X Balance Sheet

Check if Schedule O contains a response or note to any line in this Part X.

		(A) Beginning of year		(B) End of year
Assets	1 Cash - non-interest-bearing	39,882,053.	1	49,449,076.
	2 Savings and temporary cash investments	22,880,843.	2	34,019,084.
	3 Pledges and grants receivable, net	3,265,906.	3	2,438,839.
	4 Accounts receivable, net	123,711,929.	4	140,861,546.
	5 Loans and other receivables from current and former officers, directors, trustees, key employees, and highest compensated employees. Complete Part II of Schedule L	0.	5	0.
	6 Loans and other receivables from other disqualified persons (as defined under section 4958(f)(1)), persons described in section 4958(c)(3)(B), and contributing employers and sponsoring organizations of section 501(c)(9) voluntary employees' beneficiary organizations (see instructions). Complete Part II of Schedule L	0.	6	0.
	7 Notes and loans receivable, net	0.	7	0.
	8 Inventories for sale or use	223,212.	8	274,872.
	9 Prepaid expenses and deferred charges	18,753,901.	9	19,055,038.
	10a Land, buildings, and equipment: cost or other basis. Complete Part VI of Schedule D	10a 326,581,878.		
	b Less: accumulated depreciation	10b 209,407,863.		
	11 Investments - publicly traded securities	109,844,718.	10c	117,174,015.
	12 Investments - other securities. See Part IV, line 11	839,320,379.	11	844,097,675.
	13 Investments - program-related. See Part IV, line 11	147,851,147.	12	148,436,758.
	14 Intangible assets	0.	13	0.
	15 Other assets. See Part IV, line 11	0.	14	0.
16 Total assets. Add lines 1 through 15 (must equal line 34)	321,782.	15	321,782.	
	1,306,055,870.	16	1,356,128,685.	
Liabilities	17 Accounts payable and accrued expenses	63,537,796.	17	67,738,056.
	18 Grants payable	18,391,074.	18	19,355,230.
	19 Deferred revenue	197,125,827.	19	219,022,739.
	20 Tax-exempt bond liabilities	0.	20	0.
	21 Escrow or custodial account liability. Complete Part IV of Schedule D	0.	21	0.
	22 Loans and other payables to current and former officers, directors, trustees, key employees, highest compensated employees, and disqualified persons. Complete Part II of Schedule L	0.	22	0.
	23 Secured mortgages and notes payable to unrelated third parties	0.	23	0.
	24 Unsecured notes and loans payable to unrelated third parties	0.	24	0.
	25 Other liabilities (including federal income tax, payables to related third parties, and other liabilities not included on lines 17-24). Complete Part X of Schedule D	189,414,226.	25	171,905,960.
	26 Total liabilities. Add lines 17 through 25	468,468,923.	26	478,021,985.
Net Assets or Fund Balances	Organizations that follow SFAS 117 (ASC 958), check here <input checked="" type="checkbox"/> and complete lines 27 through 29, and lines 33 and 34.			
	27 Unrestricted net assets	202,322,436.	27	247,798,158.
	28 Temporarily restricted net assets	497,230,749.	28	490,714,544.
	29 Permanently restricted net assets	138,033,762.	29	139,593,998.
	Organizations that do not follow SFAS 117 (ASC 958), check here <input type="checkbox"/> and complete lines 30 through 34.			
	30 Capital stock or trust principal, or current funds		30	
	31 Paid-in or capital surplus, or land, building, or equipment fund		31	
	32 Retained earnings, endowment, accumulated income, or other funds		32	
	33 Total net assets or fund balances	837,586,947.	33	878,106,700.
	34 Total liabilities and net assets/fund balances	1,306,055,870.	34	1,356,128,685.

Part XI Reconciliation of Net AssetsCheck if Schedule O contains a response or note to any line in this Part XI. ☒

1	Total revenue (must equal Part VIII, column (A), line 12)	1	532,873,517.
2	Total expenses (must equal Part IX, column (A), line 25)	2	530,843,417.
3	Revenue less expenses. Subtract line 2 from line 1	3	2,030,100.
4	Net assets or fund balances at beginning of year (must equal Part X, line 33, column (A))	4	837,586,947.
5	Net unrealized gains (losses) on investments	5	32,803,688.
6	Donated services and use of facilities	6	0.
7	Investment expenses	7	0.
8	Prior period adjustments	8	0.
9	Other changes in net assets or fund balances (explain in Schedule O)	9	5,685,965.
10	Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 33, column (B))	10	878,106,700.

Part XII Financial Statements and ReportingCheck if Schedule O contains a response or note to any line in this Part XII. ☐

- 1** Accounting method used to prepare the Form 990: ☐ Cash ☒ Accrual ☐ Other _____
If the organization changed its method of accounting from a prior year or checked "Other," explain in Schedule O.
- 2a** Were the organization's financial statements compiled or reviewed by an independent accountant?
If "Yes," check a box below to indicate whether the financial statements for the year were compiled or reviewed on a separate basis, consolidated basis, or both:
☐ Separate basis ☐ Consolidated basis ☐ Both consolidated and separate basis
- b** Were the organization's financial statements audited by an independent accountant?
If "Yes," check a box below to indicate whether the financial statements for the year were audited on a separate basis, consolidated basis, or both:
☐ Separate basis ☒ Consolidated basis ☐ Both consolidated and separate basis
- c** If "Yes" to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the audit, review, or compilation of its financial statements and selection of an independent accountant? If the organization changed either its oversight process or selection process during the tax year, explain in Schedule O.
- 3a** As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Single Audit Act and OMB Circular A-133?
- b** If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the required audit or audits, explain why in Schedule O and describe any steps taken to undergo such audits.

	Yes	No
2a		X
2b	X	
2c	X	
3a		X
3b		

Form **990** (2016)

SCHEDULE A
(Form 990 or 990-EZ)

Department of the Treasury
Internal Revenue Service

Public Charity Status and Public Support

Complete if the organization is a section 501(c)(3) organization or a section 4947(a)(1) nonexempt charitable trust.

▶ Attach to Form 990 or Form 990-EZ.

▶ Information about Schedule A (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016

**Open to Public
Inspection**

Name of the organization

AMERICAN CHEMICAL SOCIETY

Employer identification number

53-0196572

Part I Reason for Public Charity Status (All organizations must complete this part.) See instructions.

The organization is not a private foundation because it is: (For lines 1 through 12, check only one box.)

- 1 ☐ A church, convention of churches, or association of churches described in **section 170(b)(1)(A)(i)**.
- 2 ☐ A school described in **section 170(b)(1)(A)(ii)**. (Attach Schedule E (Form 990 or 990-EZ).)
- 3 ☐ A hospital or a cooperative hospital service organization described in **section 170(b)(1)(A)(iii)**.
- 4 ☐ A medical research organization operated in conjunction with a hospital described in **section 170(b)(1)(A)(iii)**. Enter the hospital's name, city, and state: _____
- 5 ☐ An organization operated for the benefit of a college or university owned or operated by a governmental unit described in **section 170(b)(1)(A)(iv)**. (Complete Part II.)
- 6 ☐ A federal, state, or local government or governmental unit described in **section 170(b)(1)(A)(v)**.
- 7 ☐ An organization that normally receives a substantial part of its support from a governmental unit or from the general public described in **section 170(b)(1)(A)(vi)**. (Complete Part II.)
- 8 ☐ A community trust described in **section 170(b)(1)(A)(vi)**. (Complete Part II.)
- 9 ☐ An agricultural research organization described in **section 170(b)(1)(A)(ix)** operated in conjunction with a land-grant college or university or a non-land-grant college of agriculture (see instructions). Enter the name, city, and state of the college or university: _____
- 10 ☒ 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 exempt 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)**. (Complete Part III.)
- 11 ☐ An organization organized and operated exclusively to test for public safety. See **section 509(a)(4)**.
- 12 ☐ An organization organized and operated exclusively for the benefit of, to perform the functions of, or to carry out the purposes of one or more publicly supported organizations described in **section 509(a)(1)** or **section 509(a)(2)**. See **section 509(a)(3)**. Check the box in lines 12a through 12d that describes the type of supporting organization and complete lines 12e, 12f, and 12g.
- a ☐ **Type I.** A supporting organization operated, supervised, or controlled by its supported organization(s), typically by giving the supported organization(s) the power to regularly appoint or elect a majority of the directors or trustees of the supporting organization. **You must complete Part IV, Sections A and B.**
- b ☐ **Type II.** A supporting organization supervised or controlled in connection with its supported organization(s), by having control or management of the supporting organization vested in the same persons that control or manage the supported organization(s). **You must complete Part IV, Sections A and C.**
- c ☐ **Type III functionally integrated.** A supporting organization operated in connection with, and functionally integrated with, its supported organization(s) (see instructions). **You must complete Part IV, Sections A, D, and E.**
- d ☐ **Type III non-functionally integrated.** A supporting organization operated in connection with its supported organization(s) that is not functionally integrated. The organization generally must satisfy a distribution requirement and an attentiveness requirement (see instructions). **You must complete Part IV, Sections A and D, and Part V.**
- e ☐ Check this box if the organization received a written determination from the IRS that it is a Type I, Type II, Type III functionally integrated, or Type III non-functionally integrated supporting organization.

f Enter the number of supported organizations.

g Provide the following information about the supported organization(s).

(i) Name of supported organization	(ii) EIN	(iii) Type of organization (described on lines 1-10 above (see instructions))	(iv) Is the organization listed in your governing document?		(v) Amount of monetary support (see instructions)	(vi) Amount of other support (see instructions)
			Yes	No		
(A)						
(B)						
(C)						
(D)						
(E)						
Total						

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

Schedule A (Form 990 or 990-EZ) 2016

Part II **Support Schedule for Organizations Described in Sections 170(b)(1)(A)(iv) and 170(b)(1)(A)(vi)**
(Complete only if you checked the box on line 5, 7, or 8 of Part I or if the organization failed to qualify under Part III. If the organization fails to qualify under the tests listed below, please complete Part III.)

Section A. Public Support

Calendar year (or fiscal year beginning in) ►	(a) 2012	(b) 2013	(c) 2014	(d) 2015	(e) 2016	(f) Total
1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")						
2 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
3 The value of services or facilities furnished by a governmental unit to the organization without charge						
4 Total. Add lines 1 through 3.						
5 The portion of total contributions by each person (other than a governmental unit or publicly supported organization) included on line 1 that exceeds 2% of the amount shown on line 11, column (f).						
6 Public support. Subtract line 5 from line 4.						

Section B. Total Support

Calendar year (or fiscal year beginning in) ►	(a) 2012	(b) 2013	(c) 2014	(d) 2015	(e) 2016	(f) Total
7 Amounts from line 4						
8 Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources						
9 Net income from unrelated business activities, whether or not the business is regularly carried on						
10 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.)						
11 Total support. Add lines 7 through 10.						
12 Gross receipts from related activities, etc. (see instructions)					12	
13 First five years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and stop here						<input type="checkbox"/>

Section C. Computation of Public Support Percentage

14 Public support percentage for 2016 (line 6, column (f) divided by line 11, column (f))	14	%
15 Public support percentage from 2015 Schedule A, Part II, line 14	15	%
16a 33 1/3% support test - 2016. If the organization did not check the box on line 13, and line 14 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization <input type="checkbox"/>		
b 33 1/3% support test - 2015. If the organization did not check a box on line 13 or 16a, and line 15 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization <input type="checkbox"/>		
17a 10%-facts-and-circumstances test - 2016. If the organization did not check a box on line 13, 16a, or 16b, and line 14 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization <input type="checkbox"/>		
b 10%-facts-and-circumstances test - 2015. If the organization did not check a box on line 13, 16a, 16b, or 17a, and line 15 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization <input type="checkbox"/>		
18 Private foundation. If the organization did not check a box on line 13, 16a, 16b, 17a, or 17b, check this box and see instructions <input type="checkbox"/>		

Part III Support Schedule for Organizations Described in Section 509(a)(2)

(Complete only if you checked the box on line 10 of Part I or if the organization failed to qualify under Part II.
If the organization fails to qualify under the tests listed below, please complete Part II.)

Section A. Public Support

Calendar year (or fiscal year beginning in) ►	(a) 2012	(b) 2013	(c) 2014	(d) 2015	(e) 2016	(f) Total
1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")	4,927,275.	4,197,985.	4,351,829.	5,940,876.	3,590,485.	23,008,450.
2 Gross receipts from admissions, merchandise sold or services performed, or facilities furnished in any activity that is related to the organization's tax-exempt purpose	456,355,794.	461,959,907.	467,818,907.	475,742,273.	488,139,832.	2,350,016,713.
3 Gross receipts from activities that are not an unrelated trade or business under section 513						0.
4 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						0.
5 The value of services or facilities furnished by a governmental unit to the organization without charge						0.
6 Total. Add lines 1 through 5.	461,283,069.	466,157,892.	472,170,736.	481,683,149.	491,730,317.	2,373,025,163.
7a Amounts included on lines 1, 2, and 3 received from disqualified persons						0.
b Amounts included on lines 2 and 3 received from other than disqualified persons that exceed the greater of \$5,000 or 1% of the amount on line 13 for the year						0.
c Add lines 7a and 7b.						0.
8 Public support. (Subtract line 7c from line 6.)						2,373,025,163.

Section B. Total Support

Calendar year (or fiscal year beginning in) ►	(a) 2012	(b) 2013	(c) 2014	(d) 2015	(e) 2016	(f) Total
9 Amounts from line 6.	461,283,069.	466,157,892.	472,170,736.	481,683,149.	491,730,317.	2,373,025,163.
10a Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources.	22,844,708.	20,090,264.	24,575,077.	25,417,557.	22,555,034.	115,482,640.
b Unrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975						0.
c Add lines 10a and 10b	22,844,708.	20,090,264.	24,575,077.	25,417,557.	22,555,034.	115,482,640.
11 Net income from unrelated business activities not included in line 10b, whether or not the business is regularly carried on	0.	308,955.	0.	0.	0.	308,955.
12 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.)	31,767.	32,921.	16,016.	18,216.	11,134.	110,054.
13 Total support. (Add lines 9, 10c, 11, and 12.)	484,159,544.	486,590,032.	496,761,829.	507,118,922.	514,296,485.	2,488,926,812.
14 First five years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and stop here <input type="checkbox"/>						

Section C. Computation of Public Support Percentage

15 Public support percentage for 2016 (line 8, column (f) divided by line 13, column (f)).	15	95.34 %
16 Public support percentage from 2015 Schedule A, Part III, line 15	16	95.17 %

Section D. Computation of Investment Income Percentage

17 Investment income percentage for 2016 (line 10c, column (f) divided by line 13, column (f))	17	4.64 %
18 Investment income percentage from 2015 Schedule A, Part III, line 17	18	4.82 %

- 19a 33 1/3% support tests - 2016.** If the organization did not check the box on line 14, and line 15 is more than 33 1/3%, and line 17 is not more than 33 1/3%, check this box and **stop here**. The organization qualifies as a publicly supported organization ► ☒
- b 33 1/3% support tests - 2015.** If the organization did not check a box on line 14 or line 19a, and line 16 is more than 33 1/3%, and line 18 is not more than 33 1/3%, check this box and **stop here**. The organization qualifies as a publicly supported organization ► ☐
- 20 Private foundation.** If the organization did not check a box on line 14, 19a, or 19b, check this box and see instructions ► ☐

Part IV Supporting Organizations

(Complete only if you checked a box in line 12 on Part I. If you checked 12a of Part I, complete Sections A and B. If you checked 12b of Part I, complete Sections A and C. If you checked 12c of Part I, complete Sections A, D, and E. If you checked 12d of Part I, complete Sections A and D, and complete Part V.)

Section A. All Supporting Organizations

	Yes	No
1 Are all of the organization's supported organizations listed by name in the organization's governing documents? <i>If "No," describe in Part VI how the supported organizations are designated. If designated by class or purpose, describe the designation. If historic and continuing relationship, explain.</i>		
2 Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? <i>If "Yes," explain in Part VI how the organization determined that the supported organization was described in section 509(a)(1) or (2).</i>		
3a Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? <i>If "Yes," answer (b) and (c) below.</i>		
b Did the organization confirm that each supported organization qualified under section 501(c)(4), (5), or (6) and satisfied the public support tests under section 509(a)(2)? <i>If "Yes," describe in Part VI when and how the organization made the determination.</i>		
c Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? <i>If "Yes," explain in Part VI what controls the organization put in place to ensure such use.</i>		
4a Was any supported organization not organized in the United States ("foreign supported organization")? <i>If "Yes," and if you checked 12a or 12b in Part I, answer (b) and (c) below.</i>		
b Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? <i>If "Yes," describe in Part VI how the organization had such control and discretion despite being controlled or supervised by or in connection with its supported organizations.</i>		
c Did the organization support any foreign supported organization that does not have an IRS determination under sections 501(c)(3) and 509(a)(1) or (2)? <i>If "Yes," explain in Part VI what controls the organization used to ensure that all support to the foreign supported organization was used exclusively for section 170(c)(2)(B) purposes.</i>		
5a Did the organization add, substitute, or remove any supported organizations during the tax year? <i>If "Yes," answer (b) and (c) below (if applicable). Also, provide detail in Part VI, including (i) the names and EIN numbers of the supported organizations added, substituted, or removed; (ii) the reasons for each such action; (iii) the authority under the organization's organizing document authorizing such action; and (iv) how the action was accomplished (such as by amendment to the organizing document).</i>		
b Type I or Type II only. Was any added or substituted supported organization part of a class already designated in the organization's organizing document?		
c Substitutions only. Was the substitution the result of an event beyond the organization's control?		
6 Did the organization provide support (whether in the form of grants or the provision of services or facilities) to anyone other than (i) its supported organizations, (ii) individuals that are part of the charitable class benefited by one or more of its supported organizations, or (iii) other supporting organizations that also support or benefit one or more of the filing organization's supported organizations? <i>If "Yes," provide detail in Part VI.</i>		
7 Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (defined in section 4958(c)(3)(C)), a family member of a substantial contributor, or a 35% controlled entity with regard to a substantial contributor? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>		
8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described in line 7? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>		
9a Was the organization controlled directly or indirectly at any time during the tax year by one or more disqualified persons as defined in section 4946 (other than foundation managers and organizations described in section 509(a)(1) or (2))? <i>If "Yes," provide detail in Part VI.</i>		
b Did one or more disqualified persons (as defined in line 9a) hold a controlling interest in any entity in which the supporting organization had an interest? <i>If "Yes," provide detail in Part VI.</i>		
c Did a disqualified person (as defined in line 9a) have an ownership interest in, or derive any personal benefit from, assets in which the supporting organization also had an interest? <i>If "Yes," provide detail in Part VI.</i>		
10a Was the organization subject to the excess business holdings rules of section 4943 because of section 4943(f) (regarding certain Type II supporting organizations, and all Type III non-functionally integrated supporting organizations)? <i>If "Yes," answer 10b below.</i>		
b Did the organization have any excess business holdings in the tax year? <i>(Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)</i>		

Part IV Supporting Organizations (continued)

	Yes	No
11 Has the organization accepted a gift or contribution from any of the following persons?		
a A person who directly or indirectly controls, either alone or together with persons described in (b) and (c) below, the governing body of a supported organization?		
b A family member of a person described in (a) above?		
c A 35% controlled entity of a person described in (a) or (b) above? If "Yes" to a, b, or c, provide detail in Part VI .		

Section B. Type I Supporting Organizations

	Yes	No
1 Did the directors, trustees, or membership of one or more supported organizations have the power to regularly appoint or elect at least a majority of the organization's directors or trustees at all times during the tax year? If "No," describe in Part VI how the supported organization(s) effectively operated, supervised, or controlled the organization's activities. If the organization had more than one supported organization, describe how the powers to appoint and/or remove directors or trustees were allocated among the supported organizations and what conditions or restrictions, if any, applied to such powers during the tax year.		
2 Did the organization operate for the benefit of any supported organization other than the supported organization(s) that operated, supervised, or controlled the supporting organization? If "Yes," explain in Part VI how providing such benefit carried out the purposes of the supported organization(s) that operated, supervised, or controlled the supporting organization.		

Section C. Type II Supporting Organizations

	Yes	No
1 Were a majority of the organization's directors or trustees during the tax year also a majority of the directors or trustees of each of the organization's supported organization(s)? If "No," describe in Part VI how control or management of the supporting organization was vested in the same persons that controlled or managed the supported organization(s).		

Section D. All Type III Supporting Organizations

	Yes	No
1 Did the organization provide to each of its supported organizations, by the last day of the fifth month of the organization's tax year, (i) a written notice describing the type and amount of support provided during the prior tax year, (ii) a copy of the Form 990 that was most recently filed as of the date of notification, and (iii) copies of the organization's governing documents in effect on the date of notification, to the extent not previously provided?		
2 Were any of the organization's officers, directors, or trustees either (i) appointed or elected by the supported organization(s) or (ii) serving on the governing body of a supported organization? If "No," explain in Part VI how the organization maintained a close and continuous working relationship with the supported organization(s).		
3 By reason of the relationship described in (2), did the organization's supported organizations have a significant voice in the organization's investment policies and in directing the use of the organization's income or assets at all times during the tax year? If "Yes," describe in Part VI the role the organization's supported organizations played in this regard.		

Section E. Type III Functionally Integrated Supporting Organizations

1 Check the box next to the method that the organization used to satisfy the Integral Part Test during the year (see instructions).			
a <input type="checkbox"/> The organization satisfied the Activities Test. Complete line 2 below.			
b <input type="checkbox"/> The organization is the parent of each of its supported organizations. Complete line 3 below.			
c <input type="checkbox"/> The organization supported a governmental entity. Describe in Part VI how you supported a government entity (see instructions).			
2 Activities Test. Answer (a) and (b) below.			
a Did substantially all of the organization's activities during the tax year directly further the exempt purposes of the supported organization(s) to which the organization was responsive? If "Yes," then in Part VI identify those supported organizations and explain how these activities directly furthered their exempt purposes, how the organization was responsive to those supported organizations, and how the organization determined that these activities constituted substantially all of its activities.			
b Did the activities described in (a) constitute activities that, but for the organization's involvement, one or more of the organization's supported organization(s) would have been engaged in? If "Yes," explain in Part VI the reasons for the organization's position that its supported organization(s) would have engaged in these activities but for the organization's involvement.			
3 Parent of Supported Organizations. Answer (a) and (b) below.			
a Did the organization have the power to regularly appoint or elect a majority of the officers, directors, or trustees of each of the supported organizations? Provide details in Part VI .			
b Did the organization exercise a substantial degree of direction over the policies, programs, and activities of each of its supported organizations? If "Yes," describe in Part VI the role played by the organization in this regard.			

Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations

- 1** ☐ Check here if the organization satisfied the Integral Part Test as a qualifying trust on Nov. 20, 1970 (explain in Part VI). **See instructions.** All other Type III non-functionally integrated supporting organizations must complete Sections A through E.

Section A - Adjusted Net Income		(A) Prior Year	(B) Current Year (optional)
1 Net short-term capital gain	1		
2 Recoveries of prior-year distributions	2		
3 Other gross income (see instructions)	3		
4 Add lines 1 through 3.	4		
5 Depreciation and depletion	5		
6 Portion of operating expenses paid or incurred for production or collection of gross income or for management, conservation, or maintenance of property held for production of income (see instructions)	6		
7 Other expenses (see instructions)	7		
8 Adjusted Net Income (subtract lines 5, 6, and 7 from line 4).	8		
Section B - Minimum Asset Amount		(A) Prior Year	(B) Current Year (optional)
1 Aggregate fair market value of all non-exempt-use assets (see instructions for short tax year or assets held for part of year):			
a Average monthly value of securities	1a		
b Average monthly cash balances	1b		
c Fair market value of other non-exempt-use assets	1c		
d Total (add lines 1a, 1b, and 1c)	1d		
e Discount claimed for blockage or other factors (explain in detail in Part VI):			
2 Acquisition indebtedness applicable to non-exempt-use assets	2		
3 Subtract line 2 from line 1d.	3		
4 Cash deemed held for exempt use. Enter 1-1/2% of line 3 (for greater amount, see instructions).	4		
5 Net value of non-exempt-use assets (subtract line 4 from line 3)	5		
6 Multiply line 5 by .035.	6		
7 Recoveries of prior-year distributions	7		
8 Minimum Asset Amount (add line 7 to line 6)	8		
Section C - Distributable Amount			Current Year
1 Adjusted net income for prior year (from Section A, line 8, Column A)	1		
2 Enter 85% of line 1.	2		
3 Minimum asset amount for prior year (from Section B, line 8, Column A)	3		
4 Enter greater of line 2 or line 3.	4		
5 Income tax imposed in prior year	5		
6 Distributable Amount. Subtract line 5 from line 4, unless subject to emergency temporary reduction (see instructions).	6		
7 <input type="checkbox"/> Check here if the current year is the organization's first as a non-functionally integrated Type III supporting organization (see instructions).			

Schedule A (Form 990 or 990-EZ) 2016

Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations (continued)

Section D - Distributions		Current Year	
1	Amounts paid to supported organizations to accomplish exempt purposes		
2	Amounts paid to perform activity that directly furthers exempt purposes of supported organizations, in excess of income from activity		
3	Administrative expenses paid to accomplish exempt purposes of supported organizations		
4	Amounts paid to acquire exempt-use assets		
5	Qualified set-aside amounts (prior IRS approval required)		
6	Other distributions (describe in Part VI). See instructions.		
7	Total annual distributions. Add lines 1 through 6.		
8	Distributions to attentive supported organizations to which the organization is responsive (provide details in Part VI). See instructions.		
9	Distributable amount for 2016 from Section C, line 6		
10	Line 8 amount divided by Line 9 amount		

Section E - Distribution Allocations (see instructions)		(i) Excess Distributions	(ii) Underdistributions Pre-2016	(iii) Distributable Amount for 2016
1	Distributable amount for 2016 from Section C, line 6			
2	Underdistributions, if any, for years prior to 2016 (reasonable cause required-explain in Part VI). See instructions.			
3	Excess distributions carryover, if any, to 2016:			
a				
b				
c	From 2013.			
d	From 2014.			
e	From 2015.			
f	Total of lines 3a through e			
g	Applied to underdistributions of prior years			
h	Applied to 2016 distributable amount			
i	Carryover from 2011 not applied (see instructions)			
j	Remainder. Subtract lines 3g, 3h, and 3i from 3f.			
4	Distributions for 2016 from Section D, line 7: \$			
a	Applied to underdistributions of prior years			
b	Applied to 2016 distributable amount			
c	Remainder. Subtract lines 4a and 4b from 4.			
5	Remaining underdistributions for years prior to 2016, if any. Subtract lines 3g and 4a from line 2. For result greater than zero, explain in Part VI. See instructions.			
6	Remaining underdistributions for 2016. Subtract lines 3h and 4b from line 1. For result greater than zero, explain in Part VI. See instructions.			
7	Excess distributions carryover to 2017. Add lines 3j and 4c.			
8	Breakdown of line 7:			
a				
b	Excess from 2013. . . .			
c	Excess from 2014. . . .			
d	Excess from 2015. . . .			
e	Excess from 2016. . . .			

Schedule A (Form 990 or 990-EZ) 2016

Part VI **Supplemental Information.** Provide the explanations required by Part II, line 10; Part II, line 17a or 17b; Part III, line 12; Part IV, Section A, lines 1, 2, 3b, 3c, 4b, 4c, 5a, 6, 9a, 9b, 9c, 11a, 11b, and 11c; Part IV, Section B, lines 1 and 2; Part IV, Section C, line 1; Part IV, Section D, lines 2 and 3; Part IV, Section E, lines 1c, 2a, 2b, 3a and 3b; Part V, line 1; Part V, Section B, line 1e; Part V, Section D, lines 5, 6, and 8; and Part V, Section E, lines 2, 5, and 6. Also complete this part for any additional information. (See instructions.)

PART III, LINE 12 - OTHER INCOME:

OTHER INCOME WERE PRIMARILY FROM THE SALES OF PRINTED MATERIALS.

SCHEDULE C
(Form 990 or 990-EZ)

Political Campaign and Lobbying Activities

OMB No. 1545-0047

2016

Open to Public Inspection

Department of the Treasury
Internal Revenue Service

For Organizations Exempt From Income Tax Under section 501(c) and section 527

- ▶ **Complete if the organization is described below.** ▶ **Attach to Form 990 or Form 990-EZ.**
▶ **Information about Schedule C (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990.**

If the organization answered "Yes," on Form 990, Part IV, line 3, or Form 990-EZ, Part V, line 46 (Political Campaign Activities), then

- Section 501(c)(3) organizations: Complete Parts I-A and B. Do not complete Part I-C.
- Section 501(c) (other than section 501(c)(3)) organizations: Complete Parts I-A and C below. Do not complete Part I-B.
- Section 527 organizations: Complete Part I-A only.

If the organization answered "Yes," on Form 990, Part IV, line 4, or Form 990-EZ, Part VI, line 47 (Lobbying Activities), then

- Section 501(c)(3) organizations that have filed Form 5768 (election under section 501(h)): Complete Part II-A. Do not complete Part II-B.
- Section 501(c)(3) organizations that have NOT filed Form 5768 (election under section 501(h)): Complete Part II-B. Do not complete Part II-A.

If the organization answered "Yes," on Form 990, Part IV, line 5 (Proxy Tax) (see separate instructions) or Form 990-EZ, Part V, line 35c (Proxy Tax) (see separate instructions), then

- Section 501(c)(4), (5), or (6) organizations: Complete Part III.

Name of organization AMERICAN CHEMICAL SOCIETY	Employer identification number 53-0196572
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Part I-A Complete if the organization is exempt under section 501(c) or is a section 527 organization.

- 1 Provide a description of the organization's direct and indirect political campaign activities in Part IV. (see instructions for definition of "political campaign activities")
- 2 Political campaign activity expenditures (see instructions) ▶ \$
- 3 Volunteer hours for political campaign activities (see instructions)

Part I-B Complete if the organization is exempt under section 501(c)(3).

- 1 Enter the amount of any excise tax incurred by the organization under section 4955. ▶ \$
- 2 Enter the amount of any excise tax incurred by organization managers under section 4955 ▶ \$
- 3 If the organization incurred a section 4955 tax, did it file Form 4720 for this year? ☐ Yes ☐ No
- 4a Was a correction made? ☐ Yes ☐ No
- b If "Yes," describe in Part IV.

Part I-C Complete if the organization is exempt under section 501(c), except section 501(c)(3).

- 1 Enter the amount directly expended by the filing organization for section 527 exempt function activities. ▶ \$
- 2 Enter the amount of the filing organization's funds contributed to other organizations for section 527 exempt function activities ▶ \$
- 3 Total exempt function expenditures. Add lines 1 and 2. Enter here and on Form 1120-POL, line 17b ▶ \$
- 4 Did the filing organization file **Form 1120-POL** for this year? ☐ Yes ☐ No
- 5 Enter the names, addresses and employer identification number (EIN) of all section 527 political organizations to which the filing organization made payments. For each organization listed, enter the amount paid from the filing organization's funds. Also enter the amount of political contributions received that were promptly and directly delivered to a separate political organization, such as a separate segregated fund or a political action committee (PAC). If additional space is needed, provide information in Part IV.

(a) Name	(b) Address	(c) EIN	(d) Amount paid from filing organization's funds. If none, enter -0-.	(e) Amount of political contributions received and promptly and directly delivered to a separate political organization. If none, enter -0-.
(1)				
(2)				
(3)				
(4)				
(5)				
(6)				

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

Schedule C (Form 990 or 990-EZ) 2016

Part II-A Complete if the organization is exempt under section 501(c)(3) and filed Form 5768 (election under section 501(h)).

A Check ☐ if the filing organization belongs to an affiliated group (and list in Part IV each affiliated group member's name, address, EIN, expenses, and share of excess lobbying expenditures).

B Check ☐ if the filing organization checked box A and "limited control" provisions apply.

Limits on Lobbying Expenditures (The term "expenditures" means amounts paid or incurred.)		(a) Filing organization's totals	(b) Affiliated group totals
1a Total lobbying expenditures to influence public opinion (grass roots lobbying)			
b Total lobbying expenditures to influence a legislative body (direct lobbying)		355,518.	
c Total lobbying expenditures (add lines 1a and 1b)		355,518.	
d Other exempt purpose expenditures		523,742,979.	
e Total exempt purpose expenditures (add lines 1c and 1d)		524,098,497.	
f Lobbying nontaxable amount. Enter the amount from the following table in both columns.		1,000,000.	
If the amount on line 1e, column (a) or (b) is:	The lobbying nontaxable amount is:		
Not over \$500,000	20% of the amount on line 1e.		
Over \$500,000 but not over \$1,000,000	\$100,000 plus 15% of the excess over \$500,000.		
Over \$1,000,000 but not over \$1,500,000	\$175,000 plus 10% of the excess over \$1,000,000.		
Over \$1,500,000 but not over \$17,000,000	\$225,000 plus 5% of the excess over \$1,500,000.		
Over \$17,000,000	\$1,000,000.		
g Grassroots nontaxable amount (enter 25% of line 1f)		250,000.	
h Subtract line 1g from line 1a. If zero or less, enter -0-		0.	0.
i Subtract line 1f from line 1c. If zero or less, enter -0-		0.	0.
j If there is an amount other than zero on either line 1h or line 1i, did the organization file Form 4720 reporting section 4911 tax for this year?			<input type="checkbox"/> Yes <input type="checkbox"/> No

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 separate instructions for lines 2a through 2f.)

Lobbying Expenditures During 4-Year Averaging Period					
Calendar year (or fiscal year beginning in)	(a) 2013	(b) 2014	(c) 2015	(d) 2016	(e) Total
2a Lobbying nontaxable amount	1,000,000.	1,000,000.	1,000,000.	1,000,000.	4,000,000.
b Lobbying ceiling amount (150% of line 2a, column (e))					6,000,000.
c Total lobbying expenditures	315,454.	263,874.	365,278.	355,518.	1,300,124.
d Grassroots nontaxable amount	250,000.	250,000.	250,000.	250,000.	1,000,000.
e Grassroots ceiling amount (150% of line 2d, column (e))					1,500,000.
f Grassroots lobbying expenditures	12,153.	13,803.			25,956.

Schedule C (Form 990 or 990-EZ) 2016

Part II-B Complete if the organization is exempt under section 501(c)(3) and has NOT filed Form 5768 (election under section 501(h)).

For each "Yes," response on lines 1a through 1i below, provide in Part IV a detailed description of the lobbying activity.		(a)		(b)
		Yes	No	Amount
1	During the year, did the filing organization attempt to influence foreign, national, state or local legislation, including any attempt to influence public opinion on a legislative matter or referendum, through the use of:			
a	Volunteers?			
b	Paid staff or management (include compensation in expenses reported on lines 1c through 1i)?			
c	Media advertisements?			
d	Mailings to members, legislators, or the public?			
e	Publications, or published or broadcast statements?			
f	Grants to other organizations for lobbying purposes?			
g	Direct contact with legislators, their staffs, government officials, or a legislative body?			
h	Rallies, demonstrations, seminars, conventions, speeches, lectures, or any similar means?			
i	Other activities?			
j	Total. Add lines 1c through 1i			
2a	Did the activities in line 1 cause the organization to be not described in section 501(c)(3)?			
b	If "Yes," enter the amount of any tax incurred under section 4912			
c	If "Yes," enter the amount of any tax incurred by organization managers under section 4912			
d	If the filing organization incurred a section 4912 tax, did it file Form 4720 for this year?			

Part III-A Complete if the organization is exempt under section 501(c)(4), section 501(c)(5), or section 501(c)(6).

		Yes	No
1	Were substantially all (90% or more) dues received nondeductible by members?	1	
2	Did the organization make only in-house lobbying expenditures of \$2,000 or less?	2	
3	Did the organization agree to carry over lobbying and political campaign activity expenditures from the prior year?	3	

Part III-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(5), or section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered "No," OR (b) Part III-A, line 3, is answered "Yes."

1	Dues, assessments and similar amounts from members	1	
2	Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid).		
a	Current year	2a	
b	Carryover from last year.	2b	
c	Total	2c	
3	Aggregate amount reported in section 6033(e)(1)(A) notices of nondeductible section 162(e) dues.	3	
4	If notices were sent and the amount on line 2c exceeds the amount on line 3, what portion of the excess does the organization agree to carryover to the reasonable estimate of nondeductible lobbying and political expenditure next year?	4	
5	Taxable amount of lobbying and political expenditures (see instructions)	5	

Part IV Supplemental Information

Provide the descriptions required for Part I-A, line 1; Part I-B, line 4; Part I-C, line 5; Part II-A (affiliated group list); Part II-A, lines 1 and 2 (see instructions); and Part II-B, line 1. Also, complete this part for any additional information.

Part IV **Supplemental Information** *(continued)*

SCHEDULE D
(Form 990)

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Supplemental Financial Statements

► Complete if the organization answered "Yes" on Form 990,
Part IV, line 6, 7, 8, 9, 10, 11a, 11b, 11c, 11d, 11e, 11f, 12a, or 12b.

► Attach to Form 990.

► Information about Schedule D (Form 990) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016

Open to Public
Inspection

Employer identification number

53-0196572

Part I Organizations Maintaining Donor Advised Funds or Other Similar Funds or Accounts.

Complete if the organization answered "Yes" on Form 990, Part IV, line 6.

	(a) Donor advised funds	(b) Funds and other accounts
1 Total number at end of year		
2 Aggregate value of contributions to (during year)		
3 Aggregate value of grants from (during year) . .		
4 Aggregate value at end of year		
5 Did the organization inform all donors and donor advisors in writing that the assets held in donor advised funds are the organization's property, subject to the organization's exclusive legal control?		<input type="checkbox"/> Yes <input type="checkbox"/> No
6 Did the organization inform all grantees, donors, and donor advisors in writing that grant funds can be used only for charitable purposes and not for the benefit of the donor or donor advisor, or for any other purpose conferring impermissible private benefit?		<input type="checkbox"/> Yes <input type="checkbox"/> No

Part II Conservation Easements.

Complete if the organization answered "Yes" on Form 990, Part IV, line 7.

1 Purpose(s) of conservation easements held by the organization (check all that apply).	
<input type="checkbox"/> Preservation of land for public use (e.g., recreation or education)	<input type="checkbox"/> Preservation of a historically important land area
<input type="checkbox"/> Protection of natural habitat	<input type="checkbox"/> Preservation of a certified historic structure
<input type="checkbox"/> Preservation of open space	
2 Complete lines 2a through 2d if the organization held a qualified conservation contribution in the form of a conservation easement on the last day of the tax year.	
a Total number of conservation easements	2a Held at the End of the Tax Year
b Total acreage restricted by conservation easements	2b
c Number of conservation easements on a certified historic structure included in (a)	2c
d Number of conservation easements included in (c) acquired after 8/17/06, and not on a historic structure listed in the National Register	2d
3 Number of conservation easements modified, transferred, released, extinguished, or terminated by the organization during the tax year ►	
4 Number of states where property subject to conservation easement is located ►	
5 Does the organization have a written policy regarding the periodic monitoring, inspection, handling of violations, and enforcement of the conservation easements it holds?	<input type="checkbox"/> Yes <input type="checkbox"/> No
6 Staff and volunteer hours devoted to monitoring, inspecting, handling of violations, and enforcing conservation easements during the year ►	
7 Amount of expenses incurred in monitoring, inspecting, handling of violations, and enforcing conservation easements during the year ► \$	
8 Does each conservation easement reported on line 2(d) above satisfy the requirements of section 170(h)(4)(B)(i) and section 170(h)(4)(B)(ii)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
9 In Part XIII, describe how the organization reports conservation easements in its revenue and expense statement, and balance sheet, and include, if applicable, the text of the footnote to the organization's financial statements that describes the organization's accounting for conservation easements.	

Part III Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets.

Complete if the organization answered "Yes" on Form 990, Part IV, line 8.

1a If the organization elected, as permitted under SFAS 116 (ASC 958), not to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide, in Part XIII, the text of the footnote to its financial statements that describes these items.	
b If the organization elected, as permitted under SFAS 116 (ASC 958), to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide the following amounts relating to these items:	
(i) Revenue included in Form 990, Part VIII, line 1	► \$
(ii) Assets included in Form 990, Part X	► \$
2 If the organization received or held works of art, historical treasures, or other similar assets for financial gain, provide the following amounts required to be reported under SFAS 116 (ASC 958) relating to these items:	
a Revenue included in Form 990, Part VIII, line 1	► \$
b Assets included in Form 990, Part X	► \$

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule D (Form 990) 2016

Part III Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets (continued)

- 3** Using the organization's acquisition, accession, and other records, check any of the following that are a significant use of its collection items (check all that apply):
- a** ☐ Public exhibition **d** ☐ Loan or exchange programs
- b** ☐ Scholarly research **e** ☐ Other _____
- c** ☐ Preservation for future generations
- 4** Provide a description of the organization's collections and explain how they further the organization's exempt purpose in Part XIII.
- 5** During the year, did the organization solicit or receive donations of art, historical treasures, or other similar assets to be sold to raise funds rather than to be maintained as part of the organization's collection? ☐ **Yes** ☐ **No**

Part IV Escrow and Custodial Arrangements.

Complete if the organization answered "Yes" on Form 990, Part IV, line 9, or reported an amount on Form 990, Part X, line 21.

- 1a** Is the organization an agent, trustee, custodian or other intermediary for contributions or other assets not included on Form 990, Part X? ☐ **Yes** ☐ **No**
- b** If "Yes," explain the arrangement in Part XIII and complete the following table:
- | | Amount |
|--|-----------|
| c Beginning balance | 1c |
| d Additions during the year | 1d |
| e Distributions during the year | 1e |
| f Ending balance | 1f |
- 2a** Did the organization include an amount on Form 990, Part X, line 21, for escrow or custodial account liability? ☐ **Yes** ☐ **No**
- b** If "Yes," explain the arrangement in Part XIII. Check here if the explanation has been provided on Part XIII ☐

Part V Endowment Funds.

Complete if the organization answered "Yes" on Form 990, Part IV, line 10.

- | | (a) Current year | (b) Prior year | (c) Two years back | (d) Three years back | (e) Four years back |
|---|------------------|----------------|--------------------|----------------------|---------------------|
| 1a Beginning of year balance | 630,223,333. | 651,454,497. | 640,155,256. | 582,218,382. | 541,216,738. |
| b Contributions | 380,340. | 1,879,155. | 1,225,506. | 1,615,498. | 970,834. |
| c Net investment earnings, gains, and losses | 24,176,422. | 2,181,537. | 37,151,525. | 82,209,948. | 63,673,981. |
| d Grants or scholarships | 24,094,493. | 23,377,387. | 25,367,206. | 23,744,190. | 21,719,607. |
| e Other expenditures for facilities and programs | 3,642,612. | 33,469. | 44,584. | 466,382. | 188,564. |
| f Administrative expenses | 1,777,000. | 1,881,000. | 1,666,000. | 1,678,000. | 1,735,000. |
| g End of year balance | 625,265,990. | 630,223,333. | 651,454,497. | 640,155,256. | 582,218,382. |
- 2** Provide the estimated percentage of the current year end balance (line 1g, column (a)) held as:
- a** Board designated or quasi-endowment ▶ .0500 %
- b** Permanent endowment ▶ 22.3200 %
- c** Temporarily restricted endowment ▶ 77.6300 %
- The percentages on lines 2a, 2b, and 2c should equal 100%.
- 3a** Are there endowment funds not in the possession of the organization that are held and administered for the organization by:
- | | Yes | No |
|---|---------------|----|
| (i) unrelated organizations | 3a(i) | X |
| (ii) related organizations | 3a(ii) | X |
| b If "Yes" on line 3a(ii), are the related organizations listed as required on Schedule R? | 3b | |
- 4** Describe in Part XIII the intended uses of the organization's endowment funds.

Part VI Land, Buildings, and Equipment.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11a. See Form 990, Part X, line 10.

Description of property	(a) Cost or other basis (investment)	(b) Cost or other basis (other)	(c) Accumulated depreciation	(d) Book value
1a Land		2,930,220.		2,930,220.
b Buildings		106,782,756.	72,094,201.	34,688,555.
c Leasehold improvements				
d Equipment		59,827,245.	41,340,350.	18,486,895.
e Other		157,041,657.	95,973,312.	61,068,345.
Total. Add lines 1a through 1e. (Column (d) must equal Form 990, Part X, column (B), line 10c.)				117,174,015.

Schedule D (Form 990) 2016

Part VII Investments - Other Securities.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11b. See Form 990, Part X, line 12.

(a) Description of security or category (including name of security)	(b) Book value	(c) Method of valuation: Cost or end-of-year market value
(1) Financial derivatives		
(2) Closely-held equity interests	4,138,758.	ATTACHMENT 1
(3) Other		
(A) HEDGE FUNDS	144,298,000.	FMV
(B)		
(C)		
(D)		
(E)		
(F)		
(G)		
(H)		
Total. (Column (b) must equal Form 990, Part X, col. (B) line 12.) ►	148,436,758.	

Part VIII Investments - Program Related.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11c. See Form 990, Part X, line 13.

(a) Description of investment	(b) Book value	(c) Method of valuation: Cost or end-of-year market value
(1)		
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
Total. (Column (b) must equal Form 990, Part X, col. (B) line 13.) ►		

Part IX Other Assets.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11d. See Form 990, Part X, line 15.

(a) Description	(b) Book value
(1)	
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
Total. (Column (b) must equal Form 990, Part X, col. (B) line 15.) ►	

Part X Other Liabilities.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 25.

1. (a) Description of liability	(b) Book value	
(1) Federal income taxes		
(2) UNDERFUNDED PENSION LIABILITY	110,448,416.	
(3) ACCRUED RETIREE MEDICAL BENEFITS	46,774,996.	
(4) 457(B) LIABILITY	8,547,126.	
(5) ASSET RETIREMENT OBLIGATION	3,697,907.	
(6) ACCRUED HEALTH IBNR	1,581,868.	
(7) ACCRUED POST EMPLOYMENT BENEFITS	788,665.	
(8) ACCRUED GIFT ANNUITY LIABILITY	66,982.	
(9)		
Total. (Column (b) must equal Form 990, Part X, col. (B) line 25.) ►	171,905,960.	

2. Liability for uncertain tax positions. In Part XIII, provide the text of the footnote to the organization's financial statements that reports the organization's liability for uncertain tax positions under FIN 48 (ASC 740). Check here if the text of the footnote has been provided in Part XIII ☒

Part XI Reconciliation of Revenue per Audited Financial Statements With Revenue per Return.

Complete if the organization answered "Yes" on Form 990, Part IV, line 12a.

1	Total revenue, gains, and other support per audited financial statements		1	
2	Amounts included on line 1 but not on Form 990, Part VIII, line 12:			
a	Net unrealized gains (losses) on investments	2a		
b	Donated services and use of facilities	2b		
c	Recoveries of prior year grants	2c		
d	Other (Describe in Part XIII.)	2d		
e	Add lines 2a through 2d		2e	
3	Subtract line 2e from line 1		3	
4	Amounts included on Form 990, Part VIII, line 12, but not on line 1:			
a	Investment expenses not included on Form 990, Part VIII, line 7b	4a		
b	Other (Describe in Part XIII.)	4b		
c	Add lines 4a and 4b		4c	
5	Total revenue. Add lines 3 and 4c . (This must equal Form 990, Part I, line 12.)		5	

Part XII Reconciliation of Expenses per Audited Financial Statements With Expenses per Return.

Complete if the organization answered "Yes" on Form 990, Part IV, line 12a.

1	Total expenses and losses per audited financial statements		1	
2	Amounts included on line 1 but not on Form 990, Part IX, line 25:			
a	Donated services and use of facilities	2a		
b	Prior year adjustments	2b		
c	Other losses	2c		
d	Other (Describe in Part XIII.)	2d		
e	Add lines 2a through 2d		2e	
3	Subtract line 2e from line 1		3	
4	Amounts included on Form 990, Part IX, line 25, but not on line 1:			
a	Investment expenses not included on Form 990, Part VIII, line 7b	4a		
b	Other (Describe in Part XIII.)	4b		
c	Add lines 4a and 4b		4c	
5	Total expenses. Add lines 3 and 4c . (This must equal Form 990, Part I, line 18.)		5	

Part XIII Supplemental Information.

Provide the descriptions required for Part II, lines 3, 5, and 9; Part III, lines 1a and 4; Part IV, lines 1b and 2b; Part V, line 4; Part X, line 2; Part XI, lines 2d and 4b; and Part XII, lines 2d and 4b. Also complete this part to provide any additional information.

SEE PAGE 5

Part XIII Supplemental Information (continued)

PART V, LINE 4:

DESCRIBE THE INTENDED USES OF THE ORGANIZATION'S ENDOWMENT FUNDS.

THE SOCIETY'S ENDOWMENTS WERE CREATED TO ENCOURAGE THE ADVANCEMENT OF CHEMISTRY IN ALL ITS BRANCHES, PROMOTE RESEARCH IN CHEMICAL SCIENCE AND INDUSTRY, AND IMPROVE THE QUALIFICATION AND USEFULNESS OF CHEMISTS. OVER \$24,000,000 WAS AWARDED IN 2016 TO SUPPORT INNOVATIVE AND FUNDAMENTAL CHEMICAL RESEARCH, PROVIDE UNDERGRADUATE SCHOLARSHIPS, PROVIDE POST-DOCTORAL FELLOWSHIPS, SUPPORT SPECIAL EDUCATIONAL OPPORTUNITIES AT THE HIGH SCHOOL LEVEL, AND RECOGNIZE, ENCOURAGE, AND STIMULATE OUTSTANDING RESEARCH ACHIEVEMENTS THROUGHOUT THE MULTI-DISCIPLINARY BRANCHES OF CHEMISTRY.

PART X, LINE 2:

FOOTNOTE TO THE ORGANIZATION'S FINANCIAL STATEMENTS THAT REPORTS THE ORGANIZATION'S LIABILITY FOR UNCERTAIN TAX POSITIONS UNDER FIN 48 (ASC 740):

THE SOCIETY IS GENERALLY EXEMPT FROM FEDERAL INCOME TAXES UNDER INTERNAL REVENUE CODE SECTION 501(C)(3). HOWEVER, THE SOCIETY IS SUBJECT TO TAXATION ON ANY NET UNRELATED BUSINESS INCOME. AT DECEMBER 31, 2016, THE SOCIETY HAD A NET OPERATING LOSS CARRYFORWARD FOR INCOME TAX PURPOSES OF APPROXIMATELY \$16,300,000, WHICH EXPIRES OVER THE YEARS 2017 THROUGH 2036. A DEFERRED TAX ASSET HAS NOT BEEN RECORDED FOR THE NET OPERATING LOSS BECAUSE THE SOCIETY HAS DETERMINED AS OF DECEMBER 31, 2016, IT IS NOT RECOVERABLE. MANAGEMENT ANNUALLY REVIEWS ITS TAX POSITIONS AND HAS DETERMINED THAT THERE ARE NO MATERIAL UNCERTAIN TAX POSITIONS THAT REQUIRE RECOGNITION IN THE CONSOLIDATED FINANCIAL STATEMENTS.

Part XIII Supplemental Information *(continued)*ATTACHMENT 1SCHEDULE D, PART VII - INVESTMENTS - CLOSELY HELD EQUITY INTERESTS

<u>DESCRIPTION</u>	<u>BOOK VALUE</u>	<u>COST OR FMV</u>
CLOSELY-HELD EQUITY INTERESTS	4,138,758.	COST
TOTALS	<u>4,138,758.</u>	

**SCHEDULE F
(Form 990)**

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Statement of Activities Outside the United States

► Complete if the organization answered "Yes" on Form 990, Part IV, line 14b, 15, or 16.

► Attach to Form 990.

► Information about Schedule F (Form 990) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016

**Open to Public
Inspection**

Employer identification number

53-0196572

Part I General Information on Activities Outside the United States. Complete if the organization answered "Yes" on Form 990, Part IV, line 14b.

1 For grantmakers. Does the organization maintain records to substantiate the amount of its grants and other assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ **Yes** ☐ **No**

2 For grantmakers. Describe in Part V the organization's procedures for monitoring the use of its grants and other assistance outside the United States.

3 Activities per Region. (The following Part I, line 3 table can be duplicated if additional space is needed.)

(a) Region	(b) Number of offices in the region	(c) Number of employees, agents, and independent contractors in the region	(d) Activities conducted in the region (by type) (such as, fundraising, program services, investments, grants to recipients located in the region)	(e) If activity listed in (d) is a program service, describe specific type of service(s) in the region	(f) Total expenditures for and investments in the region
(1) EAST ASIA AND THE PACIFIC		139.	PROGRAM SERVICES	INFO/MEMBERSHIP SVCS	16,843,425.
(2) EUROPE		185.	PROGRAM SERVICES	INFO/MEMBERSHIP SVCS	11,387,424.
(3) MIDDLE EAST AND NORTH AFRICA		8.	PROGRAM SERVICES	INFO/MEMBERSHIP SVCS	885,467.
(4) NORTH AMERICA		41.	PROGRAM SERVICES	INFO/MEMBERSHIP SVCS	936,509.
(5) RUSSIA/INDEPENDENT STATES		7.	PROGRAM SERVICES	INFO/MEMBERSHIP SVCS	30,260.
(6) SOUTH AMERICA		21.	PROGRAM SERVICES	INFO/MEMBERSHIP SVCS	235,977.
(7) SOUTH ASIA		27.	PROGRAM SERVICES	INFO/MEMBERSHIP SVCS	22,007,357.
(8) SUB-SAHARAN AFRICA		1.	PROGRAM SERVICES	INFO/MEMBERSHIP SVCS	364.
(9) EUROPE			INVESTMENTS		284,803.
(10) CENTRAL AMERICA/CARIBBEAN			GRANTMAKING		3,300.
(11) EAST ASIA AND THE PACIFIC			GRANTMAKING		192,221.
(12) EUROPE			GRANTMAKING		275,100.
(13) MIDDLE EAST AND NORTH AFRICA			GRANTMAKING		5,000.
(14) NORTH AMERICA			GRANTMAKING		340,200.
(15) RUSSIA/INDEPENDENT STATES			GRANTMAKING		3,000.
(16) SUB-SAHARAN AFRICA			GRANTMAKING		800.
(17)					
3a Sub-total.		429.			53,431,207.
b Total from continuation sheets to Part I					
c Totals (add lines 3a and 3b)		429.			53,431,207.

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule F (Form 990) 2016

Part II **Grants and Other Assistance to Organizations or Entities Outside the United States.** Complete if the organization answered "Yes" on Form 990, Part IV, line 15, for any recipient who received more than \$5,000. Part II can be duplicated if additional space is needed.

1	(a) Name of organization	(b) IRS code section and EIN (if applicable)	(c) Region	(d) Purpose of grant	(e) Amount of cash grant	(f) Manner of cash disbursement	(g) Amount of noncash assistance	(h) Description of noncash assistance	(i) Method of valuation (book, FMV, appraisal, other)
(1)			EAST ASIA/PACIFIC	GENERAL SUPP	15,814.	CHECK		N/A	N/A
(2)			EAST ASIA/PACIFIC	GENERAL SUPP	110,000.	CHECK		N/A	N/A
(3)			EUROPE/ICELAND/GREENLAND	GENERAL SUPP	40,000.	CHECK		N/A	N/A
(4)			EUROPE/ICELAND/GREENLAND	GENERAL SUPP	110,000.	CHECK		N/A	N/A
(5)			EUROPE/ICELAND/GREENLAND	GENERAL SUPP	50,000.	CHECK		N/A	N/A
(6)			EUROPE/ICELAND/GREENLAND	GENERAL SUPP	40,000.	CHECK		N/A	N/A
(7)			NORTH AMERICA	GENERAL SUPP	110,000.	CHECK		N/A	N/A
(8)			NORTH AMERICA	GENERAL SUPP	110,000.	CHECK		N/A	N/A
(9)			NORTH AMERICA	GENERAL SUPP	110,000.	CHECK		N/A	N/A
(10)			EAST ASIA/PACIFIC	GENERAL SUPP	40,000.	CHECK		N/A	N/A
(11)									
(12)									
(13)									
(14)									
(15)									
(16)									

- 2 Enter total number of recipient organizations listed above that are recognized as charities by the foreign country, recognized as tax-exempt by the IRS, or for which the grantee or counsel has provided a section 501(c)(3) equivalency letter. 8.
- 3 Enter total number of other organizations or entities. 2.

Part III **Grants and Other Assistance to Individuals Outside the United States.** Complete if the organization answered "Yes" on Form 990, Part IV, line 16.
Part III can be duplicated if additional space is needed.

(a) Type of grant or assistance	(b) Region	(c) Number of recipients	(d) Amount of cash grant	(e) Manner of cash disbursement	(f) Amount of noncash assistance	(g) Description of noncash assistance	(h) Method of valuation (book, FMV, appraisal, other)
(1) AWARDS	EAST ASIA/PACIFIC	9.	26,407.	CHECK		N/A	N/A
(2) AWARDS	EUROPE/ICELAND/GREENLAND	11.	35,100.	CHECK		N/A	N/A
(3) AWARDS	MIDDLE EAST/NORTH AFRICA	1.	5,000.	CHECK		N/A	N/A
(4) AWARDS	NORTH AMERICA	3.	10,200.	CHECK		N/A	N/A
(5) AWARDS	RUSSIA/NEWLY IND. STATES	1.	3,000.	CHECK		N/A	N/A
(6) AWARDS	SUB-SAHARAN AFRICA	1.	800.	CHECK		N/A	N/A
(7) AWARDS	CENT. AMERICA/CARIBBEAN	2.	3,300.	CHECK		N/A	N/A
(8)							
(9)							
(10)							
(11)							
(12)							
(13)							
(14)							
(15)							
(16)							
(17)							
(18)							

Part IV Foreign Forms

- 1** Was the organization a U.S. transferor of property to a foreign corporation during the tax year? *If "Yes," the organization may be required to file Form 926, Return by a U.S. Transferor of Property to a Foreign Corporation (see Instructions for Form 926)* ☒ Yes ☐ No
- 2** Did the organization have an interest in a foreign trust during the tax year? *If "Yes," the organization may be required to separately file Form 3520, Annual Return To Report Transactions With Foreign Trusts and Receipt of Certain Foreign Gifts, and/or Form 3520-A, Annual Information Return of Foreign Trust With a U.S. Owner (see Instructions for Forms 3520 and 3520-A; do not file with Form 990)* ☐ Yes ☒ No
- 3** Did the organization have an ownership interest in a foreign corporation during the tax year? *If "Yes," the organization may be required to file Form 5471, Information Return of U.S. Persons With Respect To Certain Foreign Corporations (see Instructions for Form 5471)* ☒ Yes ☐ No
- 4** Was the organization a direct or indirect shareholder of a passive foreign investment company or a qualified electing fund during the tax year? *If "Yes," the organization may be required to file Form 8621, Information Return by a Shareholder of a Passive Foreign Investment Company or Qualified Electing Fund (see Instructions for Form 8621)* ☐ Yes ☒ No
- 5** Did the organization have an ownership interest in a foreign partnership during the tax year? *If "Yes," the organization may be required to file Form 8865, Return of U.S. Persons With Respect to Certain Foreign Partnerships (see Instructions for Form 8865)* ☐ Yes ☒ No
- 6** Did the organization have any operations in or related to any boycotting countries during the tax year? *If "Yes," the organization may be required to separately file Form 5713, International Boycott Report (see Instructions for Form 5713; do not file with Form 990)* ☒ Yes ☐ No

Schedule F (Form 990) 2016

Part V Supplemental Information

Provide the information required by Part I, line 2 (monitoring of funds); Part I, line 3, column (f) (accounting method; amounts of investments vs. expenditures per region); Part II, line 1 (accounting method); Part III (accounting method); and Part III, column (c) (estimated number of recipients), as applicable. Also complete this part to provide any additional information (see instructions).

PART I, LINE 2:

DESCRIPTION OF THE ORGANIZATION'S PROCEDURES FOR MONITORING THE USE OF
GRANT FUNDS OUTSIDE THE UNITED STATES:

THE AMERICAN CHEMICAL SOCIETY (ACS) REGULARLY MONITORS ITS GRANTS TO
ENSURE THAT THEY ARE USED FOR PROPER PURPOSES AND ARE NOT DIVERTED FROM
THEIR INTENDED USES. THESE MONITORING PROCEDURES INCLUDE RECEIPT OF
PERIODIC AND ANNUAL REPORTS OF EXPENDITURES AND BUDGETS, RESEARCH
MILESTONES/SIGNIFICANT OUTCOMES, SUMMARY AND TECHNICAL PROGRESS REPORTS,
AND RELEVANT PUBLICATIONS/PRESENTATIONS. ACS REVIEWS ALL REPORTS
SUBMITTED TO ENSURE COMPLIANCE WITH GRANT BUDGETS, ACS POLICIES, AND
LEGAL REQUIREMENTS.

PART I, LINE 3, COLUMN (F); PART II, LINE 1; AND PART III:

DESCRIPTION OF THE METHOD USED TO ACCOUNT FOR EXPENDITURES REPORTED ON
PART I, LINE 3, COLUMN (F); AND CASH GRANTS AND NON-CASH ASSISTANCE
REPORTED ON PART II, LINE 1; AND PART III.

THE AMERICAN CHEMICAL SOCIETY PREPARES ITS FINANCIAL STATEMENTS IN
CONFORMITY WITH ACCOUNTING PRINCIPLES GENERALLY ACCEPTED IN THE UNITED
STATES OF AMERICA AND USES THE ACCRUAL METHOD OF ACCOUNTING. EXPENDITURES
REPORTED ON PART I, LINE 3, COLUMN (F), AND CASH GRANTS REPORTED ON PART
II, LINE 1, AND PART III ARE BASED ON THE ACCRUAL METHOD OF ACCOUNTING.

SCHEDULE I
(Form 990)

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

► Attach to Form 990.

► Information about Schedule I (Form 990) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016

Open to Public
Inspection

Employer identification number

53-0196572

Part I General Information on Grants and Assistance

- 1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ Yes ☐ No
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) REGENTS OF THE UNIVERSITY OF MINNESOTA 450 UNIVERSITY GATEWAY, MINNEAPOLIS, MN 55455	41-6007513	MN STATE	795,800.		N/A	N/A	GENERAL SUPPORT
(2) THE UNIVERSITY OF ILLINOIS P.O. BOX 4610, SPRINGFIELD, IL 62708-4610	37-6000511	501(C)(3)	616,800.		N/A	N/A	GENERAL SUPPORT
(3) THE UNIVERSITY OF COLORADO - BOULDER 574 UCB, BOULDER, CO 80309-0574	84-6000555	501(C)(3)	595,500.		N/A	N/A	GENERAL SUPPORT
(4) THE OHIO STATE UNIVERSITY 281 W. LANE AVE, COLUMBUS, OH 43210-1016	31-6025986	501(C)(3)	567,500.		N/A	N/A	GENERAL SUPPORT
(5) THE REGENTS OF THE UNIVERSITY OF CALIFORNIA 1125 MURPHY HALL, LOS ANGELES, CA 90095-7089	95-6006143	501(C)(3)	454,000.		N/A	N/A	GENERAL SUPPORT
(6) TRUSTEES OF PURDUE UNIVERSITY 23510 NETWORK PLACE, CHICAGO, IL 60673-1235	35-6002041	501(C)(3)	382,333.		N/A	N/A	GENERAL SUPPORT
(7) IOWA STATE UNIVERSITY 2221 WANDA DALEY DR., AMES, IA 50011-1004	42-6004224	501(C)(3)	378,250.		N/A	N/A	GENERAL SUPPORT
(8) UNIVERSITY OF HOUSTON P.O. BOX 988, HOUSTON, TX 77001-0988	74-6001399	TX STATE	356,300.		N/A	N/A	GENERAL SUPPORT
(9) UNIVERSITY OF WISCONSIN 21 NORTH PARK STREET, MADISON, WI 53715-1218	39-6006492	WI STATE	347,750.		N/A	N/A	GENERAL SUPPORT
(10) NEW YORK UNIVERSITY P.O. BOX 5166, NEW YORK, NY 10087	13-5562308	501(C)(3)	338,750.		N/A	N/A	GENERAL SUPPORT
(11) TEXAS TECH UNIVERSITY BOX 41105, LUBBOCK, TX 79409-1105	75-6002622	TX STATE	336,000.		N/A	N/A	GENERAL SUPPORT
(12) UNIVERSITY OF UTAH 201S.PRES., CIRC., SALT LAKE CTY, UTAH 84112	87-6000525	501(C)(3)	334,675.		N/A	N/A	GENERAL SUPPORT

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table

3 Enter total number of other organizations listed in the line 1 table

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule I (Form 990) (2016)

SCHEDULE I
(Form 990)

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

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Part I General Information on Grants and Assistance

- 1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ Yes ☐ No
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) WEST VIRGINIA UNIV. RESEARCH CORP. 886 CHESTNUT RIDGE RD, MORGANTOWN WV 26506	55-0665758	501(C)(3)	330,000.		N/A	N/A	GENERAL SUPPORT
(2) FLORIDA STATE UNIVERSITY RESEARCH FDN., INC P.O. BOX 3062744 TALLAHASSEE, FL 32310-2744	59-3211153	501(C)(3)	330,000.		N/A	N/A	GENERAL SUPPORT
(3) UNIVERSITY OF CALIFORNIA -RIVERSIDE ACCOUNTING OFFICE, RIVERSIDE, CA 92521	95-6006142	501(C)(3)	330,000.		N/A	N/A	GENERAL SUPPORT
(4) MIAMI UNIVERSITY 7 ROUDEBUSH HALL, OXFORD, OH 45056	31-6402089	501(C)(3)	275,300.		N/A	N/A	GENERAL SUPPORT
(5) TEMPLE UNIVERSITY 1805 N. BROAD STREET PHILADELPHIA, PA 19122	23-1365971	501(C)(3)	270,800.		N/A	N/A	GENERAL SUPPORT
(6) UNIVERSITY OF FLORIDA PO BOX 114025, GAINESVILLE, FL 32611-3001	59-6002052	FL STATE	261,750.		N/A	N/A	GENERAL SUPPORT
(7) UNIVERSITY OF DELAWARE 116 STUDENT SERVS BLDG. NEWARK, DE 19716	51-6000297	501(C)(3)	254,000.		N/A	N/A	GENERAL SUPPORT
(8) UNIVERSITY OF CONNECTICUT 438 WHITNEY ROAD EXTN. STORRS, CT 06269	06-0772160	CT STATE	246,667.		N/A	N/A	GENERAL SUPPORT
(9) THE UNIVERSITY OF TEXAS AT AUSTIN P.O. BOX 7159, AUSTIN, TX 78713-7159	74-6000203	TX STATE	245,125.		N/A	N/A	GENERAL SUPPORT
(10) VANDERBILT UNIVERSITY BOX 1591 STATION B, NASHVILLE, TN 37235	62-0476822	501(C)(3)	233,300.		N/A	N/A	GENERAL SUPPORT
(11) UNIVERSITY OF PENNSYLVANIA P-221 FRANKLIN BLDG., PHILADELPHIA, PA 19104	23-1352685	501(C)(3)	233,000.		N/A	N/A	GENERAL SUPPORT
(12) UNIVERSITY OF NEW MEXICO UNM BUSINESS CENTER, ALBUQUERQUE, NM 87131	85-6000642	NM STATE	231,250.		N/A	N/A	GENERAL SUPPORT

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table ►

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Schedule I (Form 990) (2016)

SCHEDULE I
(Form 990)

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

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Part I General Information on Grants and Assistance

- 1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ Yes ☐ No
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) DREXEL UNIVERSITY 3201 ARCH STREET, PHILADELPHIA, PA 19104	23-1352630	501(C)(3)	226,500.		N/A	N/A	GENERAL SUPPORT
(2) UNIVERSITY OF CALIFORNIA - IRVINE BIOSCIENCE III, IRVINE, CA 92697-1050	95-2226406	501(C)(3)	226,500.		N/A	N/A	GENERAL SUPPORT
(3) UNIVERSITY OF CALIFORNIA - BERKELEY 125C LEWIS HALL, BERKELEY, CA 94720-1103	94-6002123	501(C)(3)	226,000.		N/A	N/A	GENERAL SUPPORT
(4) CLEMSON UNIVERSITY 230 KAPPA STREET, CLEMSON, SC 29634	57-6000254	SC STATE	225,500.		N/A	N/A	GENERAL SUPPORT
(5) ARIZONA STATE UNIVERSITY PO BOX 876011, TEMPE, AZ 85287-6011	86-0196696	AZ STATE	225,000.		N/A	N/A	GENERAL SUPPORT
(6) BAYLOR UNIVERSITY ONE BEAR PLACE #97360, WACO, TX 76798-7360	74-1159753	501(C)(3)	222,000.		N/A	N/A	GENERAL SUPPORT
(7) VIRGINIA COMMONWEALTH UNIVERSITY P.O. BOX 843039, RICHMOND, VA 23284-3039	54-6001758	VA STATE	221,500.		N/A	N/A	GENERAL SUPPORT
(8) LOUISIANA STATE UNIVERSITY SPONSORED PROG. ACCT. BATON ROUGE, LA 70803	72-6000848	501(C)(3)	221,500.		N/A	N/A	GENERAL SUPPORT
(9) CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 E. CALIFORNIA BLVD, PASADENA, CA 91125	95-1643307	501(C)(3)	221,300.		N/A	N/A	GENERAL SUPPORT
(10) SYRACUSE UNIVERSITY SKYTOP OFFICE BLDG., SYRACUSE, NY 13244-5300	15-0532081	501(C)(3)	221,250.		N/A	N/A	GENERAL SUPPORT
(11) UNIVERSITY OF ALABAMA 318 ROSE ADMIN. BLDG. TUSCALOOSA, AL 35487	63-6001138	501(C)(3)	221,000.		N/A	N/A	GENERAL SUPPORT
(12) WORCESTER POLYTECHNIC INSTITUTE 100 INSTITUTE ROAD, WORCESTER, MA 01609-2280	04-2121659	501(C)(3)	220,000.		N/A	N/A	GENERAL SUPPORT

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table ►

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Schedule I (Form 990) (2016)

**SCHEDULE I
(Form 990)**

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

**Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States**

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

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Part I General Information on Grants and Assistance

- 1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ **Yes** ☐ **No**
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) RESEARCH FDN. CITY UNIVERSITY OF NEW YORK 230 WEST 41ST STREET, NEW YORK, NY 10036	13-1988190	501(C)(3)	220,000.		N/A	N/A	GENERAL SUPPORT
(2) BOARD OF REGENTS, UNIVERSITY OF ARIZONA 1303 E. UNIVERSITY BLVD, TUCSON, AZ 85719	74-2652689	AZ STATE	220,000.		N/A	N/A	GENERAL SUPPORT
(3) BALL STATE UNIVERSITY 2000 UNIVERSITY AVENUE, MUNCIE, IN 47306	35-6000221	IN STATE	180,000.		N/A	N/A	GENERAL SUPPORT
(4) HARVARD UNIVERSITY 1350 MASS AVE., CAMBRIDGE, MA 02138	04-2103580	501(C)(3)	167,250.		N/A	N/A	GENERAL SUPPORT
(5) THE TRUSTEES OF COLUMBIA UNIVERSITY 615 WEST 131ST STREET, NEW YORK, NY 10027	13-5598093	501(C)(3)	166,750.		N/A	N/A	GENERAL SUPPORT
(6) RESEARCH FDN. STATE UNIVERSITY OF NEW YORK PO BOX 9, ALBANY, NY 12201-0009	14-1368361	501(C)(3)	165,000.		N/A	N/A	GENERAL SUPPORT
(7) TEXAS A&M UNIVERSITY 400 HARVEY MITCHELL PKWY. COLLEGE STN. TX 77845	74-6000531	TX STATE	162,000.		N/A	N/A	GENERAL SUPPORT
(8) THE REGENTS OF THE UNIVERSITY OF CALIFORNIA 9500 GILMAN DRIVE, LA JOLLA, CA 92093-0954	95-6006144	501(C)(3)	159,300.		N/A	N/A	GENERAL SUPPORT
(9) YALE UNIVERSITY P.O. BOX 1873, NEW HAVEN, CT 06508-1873	06-0646973	501(C)(3)	152,500.		N/A	N/A	GENERAL SUPPORT
(10) THE REGENTS OF THE UNIVERSITY OF CALIFORNIA P.O. BOX 989062, WEST SACRAMENTO, CA 95798	94-6036494	501(C)(3)	152,000.		N/A	N/A	GENERAL SUPPORT
(11) MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE. CAMBRIDGE, MA, 02139	04-2103594	501(C)(3)	147,500.		N/A	N/A	GENERAL SUPPORT
(12) PENNSYLVANIA STATE UNIVERSITY 227 W. BEAVER AVE., STATE COLLEGE, PA 16801	24-6000376	PA STATE	141,680.		N/A	N/A	GENERAL SUPPORT

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table ►

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Schedule I (Form 990) (2016)

SCHEDULE I
(Form 990)

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Grants and Other Assistance to Organizations,
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Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) CASE WESTERN RESERVE UNIVERSITY 10900 EUCLID AVENUE, CLEVELAND, OH 44106	34-1018992	501(C)(3)	141,000.		N/A	N/A	GENERAL SUPPORT
(2) THE UNIVERSITY OF TENNESSEE 210 STUDENT SERVCS BLDG, KNOXVILLE, TN 37996	62-6001636	501(C)(3)	137,300.		N/A	N/A	GENERAL SUPPORT
(3) THE LELAND STANFORD JUNIOR UNIVERSITY 326 GALVEZ STREET, STANFORD, CA 94305	94-1156365	501(C)(3)	137,000.		N/A	N/A	GENERAL SUPPORT
(4) WESTERN WASHINGTON UNIVERSITY 516 HIGH STREET, BELLINGHAM, WA 98225-9038	91-6000562	WA STATE	136,300.		N/A	N/A	GENERAL SUPPORT
(5) UNIVERSITY OF ARKANSAS 1125 W. MAPLE, FAYETTEVILLE, AR 72701-1201	71-6003252	AR STATE	136,050.		N/A	N/A	GENERAL SUPPORT
(6) UNIVERSITY OF MASSACHUSETTS 100 MORRISSEY BOULEVARD, BOSTON, MA 02125	04-3167352	MA STATE	134,000.		N/A	N/A	GENERAL SUPPORT
(7) THE UNIVERSITY OF MAINE 5717 CORBETT HALL, ORONO, ME 04469	01-6000769	501(C)(3)	133,000.		N/A	N/A	GENERAL SUPPORT
(8) UNIVERSITY OF NEW HAMPSHIRE 51 COLLEGE ROAD, RM. 109, DURHAM, NH 03824	02-6000937	501(C)(3)	130,000.		N/A	N/A	GENERAL SUPPORT
(9) CURATORS OF THE UNIVERSITY OF MISSOURI 121 UNIVERSITY HALL, COLUMBIA, MO 65211	43-6003859	MO STATE	130,000.		N/A	N/A	GENERAL SUPPORT
(10) UNIVERSITY OF SAN DIEGO 5998 ALCALA PARK, SAN DIEGO, CA 92110	95-2544535	501(C)(3)	130,000.		N/A	N/A	GENERAL SUPPORT
(11) MIDDLEBURY COLLEGE 14 OLD CHAPEL RD, MIDDLEBURY, VT 05753	03-0179298	501(C)(3)	125,000.		N/A	N/A	GENERAL SUPPORT
(12) ACS, NORTH JERSEY LOCAL SECTION 33 RONALD ROAD, LAKE HIAWATHA, NJ 07034-1121	22-6033933	501(C)(3)	124,700.		N/A	N/A	GENERAL SUPPORT

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table ►

3 Enter total number of other organizations listed in the line 1 table ►

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Schedule I (Form 990) (2016)

**SCHEDULE I
(Form 990)**

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

**Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States**

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1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) ACS, CALIFORNIA LOCAL SECTION 1072 MANDANA BLVD, OAKLAND, CA 94610-1802	94-1358305	501(C)(3)	122,480.		N/A	N/A	GENERAL SUPPORT
(2) UNIVERSITY OF SOUTH CAROLINA 1600 HAMPTON STREET, COLUMBIA, SC 29208	57-6001153	SC STATE	121,500.		N/A	N/A	GENERAL SUPPORT
(3) NORTH CAROLINA STATE UNIVERSITY BOX 7214, RALEIGH, NC 27695-7214	56-6000756	NC STATE	120,750.		N/A	N/A	GENERAL SUPPORT
(4) TRUSTEES OF DARTMOUTH COLLEGE 11 ROPE FERRY ROAD, HANOVER, NH 03755	02-0222111	501(C)(3)	119,850.		N/A	N/A	GENERAL SUPPORT
(5) COLORADO STATE UNIVERSITY 408 UNIV. SERVICES CTR.FT. COLLINS, CO80523	84-6000545	CO STATE	119,500.		N/A	N/A	GENERAL SUPPORT
(6) RENSSELAER POLYTECHNIC INSTITUTE 110 8TH STREET,TROY, NY 12180 -3522	14-1340095	501(C)(3)	117,500.		N/A	N/A	GENERAL SUPPORT
(7) SOUTHERN METHODIST UNIVERSITY PO BOX 750259, DALLAS, TX 75275-0259	75-0800689	501(C)(3)	116,500.		N/A	N/A	GENERAL SUPPORT
(8) DUKE UNIVERSITY 2200 W. MAIN STREET, DURHAM, NC 27705	56-0532129	501(C)(3)	116,250.		N/A	N/A	GENERAL SUPPORT
(9) THE WASHINGTON UNIVERSITY CAMPUS BOX 1034, ST. LOUIS, MO 63112-1408	43-0653611	501(C)(3)	115,000.		N/A	N/A	GENERAL SUPPORT
(10) TRUSTEES OF BOSTON UNIVERSITY 25 BUICK STREET, BOSTON, MA 02215	04-2103547	501(C)(3)	114,500.		N/A	N/A	GENERAL SUPPORT
(11) THE UNIVERSITY OF MISSISSIPPI P.O. BOX 1848, UNIVERSITY, MS 38677-1848	64-6001159	501(C)(3)	113,050.		N/A	N/A	GENERAL SUPPORT
(12) OHIO UNIVERSITY 279 HDL CENTER, ATHENS, OH 45701	31-6402113	OH STATE	113,000.		N/A	N/A	GENERAL SUPPORT

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table ►

3 Enter total number of other organizations listed in the line 1 table ►

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Schedule I (Form 990) (2016)

SCHEDULE I
(Form 990)

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

► Attach to Form 990.

► Information about Schedule I (Form 990) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016

Open to Public
Inspection

Employer identification number

53-0196572

Part I General Information on Grants and Assistance

- 1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ Yes ☐ No
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) CENTRAL MICHIGAN UNIVERSITY 1200 S. FRANKLIN ST, MT. PLEASANT, MI 48859	38-6004447	501(C)(3)	112,500.		N/A	N/A	GENERAL SUPPORT
(2) THE UNIVERSITY OF NEBRASKA SPONSORED PROGRAMS ACTG. OMAHA, NE 68198	47-0049123	501(C)(3)	112,500.		N/A	N/A	GENERAL SUPPORT
(3) BRIGHAM YOUNG UNIVERSITY A-261 ASB, PROVO, UT 84602	87-0217280	501(C)(3)	112,500.		N/A	N/A	GENERAL SUPPORT
(4) THE UNIVERSITY OF OKLAHOMA 201 DAVID L. BOREN BLVD., NORMAN, OK 73019	73-1377584	OK STATE	112,000.		N/A	N/A	GENERAL SUPPORT
(5) UNIVERSITY OF CENTRAL FLORIDA 12424 RESEARCH PKWY. ORLANDO, FL 32826-3249	59-2924021	FL STATE	111,850.		N/A	N/A	GENERAL SUPPORT
(6) RICE UNIVERSITY P.O. BOX 1892, HOUSTON, TX 77251-1892	74-1109620	501(C)(3)	111,750.		N/A	N/A	GENERAL SUPPORT
(7) WAYNE STATE UNIVERSITY 5057 WOODWARD, DETROIT, MI 48202	38-6028429	501(C)(3)	111,410.		N/A	N/A	GENERAL SUPPORT
(8) BROWN UNIVERSITY 164 ANGELL STREET, PROVIDENCE, RI 02912	05-0258809	501(C)(3)	111,250.		N/A	N/A	GENERAL SUPPORT
(9) UNIVERSITY OF ROCHESTER BROOKS LANDING BUS, CENT. ROCHESTER, NY 14611	16-0743209	501(C)(3)	111,000.		N/A	N/A	GENERAL SUPPORT
(10) UNIVERSITY OF PITTSBURGH LOCK BOX 371220, PITTSBURGH, PA 15251-7220	25-0965591	501(C)(3)	111,000.		N/A	N/A	GENERAL SUPPORT
(11) CARNEGIE MELLON UNIVERSITY P.O. BOX 371032M, PITTSBURGH, PA 15250-7032	25-0969449	501(C)(3)	111,000.		N/A	N/A	GENERAL SUPPORT
(12) CSU FULLERTON AUXILIARY SERVICES 2600 NUTWOOD AVENUE, FULLERTON, CA 92831	95-2081258	501(C)(3)	111,000.		N/A	N/A	GENERAL SUPPORT

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Schedule I (Form 990) (2016)

**SCHEDULE I
(Form 990)**

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

**Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States**

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

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Part I General Information on Grants and Assistance

- 1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ **Yes** ☐ **No**
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) THE UNIVERSITY OF TEXAS AT DALLAS PO BOX 830688, RICHARDSON, TX 75083-0688	75-1305566	501(C)(3)	110,600.		N/A	N/A	GENERAL SUPPORT
(2) WOODS HOLE OCEANOGRAPHIC INSTITUTION BELL HOUSE, MS #39, WOODS HOLE, MA 02543	04-2105850	501(C)(3)	110,000.		N/A	N/A	GENERAL SUPPORT
(3) STEVENS INSTITUTE OF TECHNOLOGY CASTLE POINT ON HUDSON, HOBOKEN, NJ 07030	22-1487354	501(C)(3)	110,000.		N/A	N/A	GENERAL SUPPORT
(4) THE REGENTS OF THE UNIVERSITY OF CALIFORNIA P.O. BOX 2450, MERCED, CA 95344	27-0093858	CA STATE	110,000.		N/A	N/A	GENERAL SUPPORT
(5) MARQUETTE UNIVERSITY P.O. BOX 1881, MILWAUKEE, WI 53201-1881	39-0806251	501(C)(3)	110,000.		N/A	N/A	GENERAL SUPPORT
(6) UNIVERSITY OF KANSAS CTNR. FOR RESEARCH INC 2385 IRVING HILL RD, LAWRENCE, KS 66045	48-0680117	501(C)(3)	110,000.		N/A	N/A	GENERAL SUPPORT
(7) WAKE FOREST UNIVERSITY P.O. BOX 7201, WINSTON-SALEM, NC 27109	56-0532138	501(C)(3)	110,000.		N/A	N/A	GENERAL SUPPORT
(8) GEORGIA TECH RESEARCH CORPORATION P.O. BOX 100117, ATLANTA, GA 30384	58-0603146	501(C)(3)	110,000.		N/A	N/A	GENERAL SUPPORT
(9) UNIVERSITY OF SOUTH FLORIDA BD. OF TRUSTEES P.O. BOX 8646568, ORLANDO, FL 32886-4568	59-3102112	FL STATE	110,000.		N/A	N/A	GENERAL SUPPORT
(10) UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION P.O. BOX 931113, CLEVELAND, OH 44193	61-6033693	501(C)(3)	110,000.		N/A	N/A	GENERAL SUPPORT
(11) TULANE UNIVERSITY 1555 POYDRAS ST, NEW ORLEANS, LA 70112	72-0423889	501(C)(3)	110,000.		N/A	N/A	GENERAL SUPPORT
(12) TEXAS A&M ENGINEERING EXPERIMENT STATION 400 HARVEY MITCHELL PKWY. COLLEGE ST. TX 77845	74-1974733	TX STATE	110,000.		N/A	N/A	GENERAL SUPPORT

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Schedule I (Form 990) (2016)

SCHEDULE I
(Form 990)

Department of the Treasury
Internal Revenue Service

Name of the organization

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Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States

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Part I General Information on Grants and Assistance

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- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) THE UNIVERSITY OF TEXAS AT EL PASO 500 W. UNIVERSITY AVE,ELPASO, TX 79968	74-6000813	TX STATE	110,000.		N/A	N/A	GENERAL SUPPORT
(2) UNIVERSITY OF NORTH TEXAS 1155 UNION CIRCLE, DENTON, TX 76203	75-6002149	TX STATE	110,000.		N/A	N/A	GENERAL SUPPORT
(3) COLORADO SCHOOL OF MINES 1500 ILLINOIS ST, GOLDEN, CO 80401	84-6000551	CO STATE	110,000.		N/A	N/A	GENERAL SUPPORT
(4) NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY 801 LEROY PLACE, SOCORRO, NM 87801	85-6000411	501(C)(3)	110,000.		N/A	N/A	GENERAL SUPPORT
(5) AUBURN UNIVERSITY 208 M. WHITE SMITH HALL,AUBURN, AL 36849	63-6000724	AL STATE	94,500.		N/A	N/A	GENERAL SUPPORT
(6) TEXAS STATE UNIVERSITY 601 UNIVERSITY DRIVE, SAN MARCOS, TX 78666	74-6002248	TX STATE	82,500.		N/A	N/A	GENERAL SUPPORT
(7) THE PRESIDENT AND TRUSTEES OF WILLIAMS COLL P.O. BOX 624, WILLIAMSTOWN, MA 01267-0624	04-2104847	501(C)(3)	72,500.		N/A	N/A	GENERAL SUPPORT
(8) MOUNT SAINT MARY'S UNIVERSITY 16300 OLD EMMITSBURG RD.EMMITSBURG,MD 21727	52-0591672	MD STATE	70,600.		N/A	N/A	GENERAL SUPPORT
(9) SANTA CLARA UNIVERSITY 500 EL CAMINO REAL, SANTA CLARA, CA 95053	94-1156617	501(C)(3)	70,500.		N/A	N/A	GENERAL SUPPORT
(10) SKIDMORE COLLEGE 815 NORTH BROADWAY,SARATOGA SPRINGSNY 12866	14-1338562	501(C)(3)	70,000.		N/A	N/A	GENERAL SUPPORT
(11) KENYON COLLEGE EATON CENTER, GAMBIER, OH 43022	31-4379507	501(C)(3)	70,000.		N/A	N/A	GENERAL SUPPORT
(12) OHIO NORTHERN UNIVERSITY 525 S. MAIN STREET, ADA, OH 45810	34-4429091	501(C)(3)	70,000.		N/A	N/A	GENERAL SUPPORT

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Schedule I (Form 990) (2016)

**SCHEDULE I
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Department of the Treasury
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Name of the organization

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**Grants and Other Assistance to Organizations,
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1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) EASTERN ILLINOIS UNIVERSITY 600 LINCOLN AVENUE, CHARLESTON, IL 61920	37-6013590	IL STATE	70,000.		N/A	N/A	GENERAL SUPPORT
(2) CHRISTOPHER NEWPORT UNIVERSITY 1 AVENUE OF THE ARTS, NEWPORT NEWS, VA 23606	54-0701501	VA STATE	70,000.		N/A	N/A	GENERAL SUPPORT
(3) COKER COLLEGE 300 E. COLLEGE AVENUE, HARTSVILLE, SC 29550	57-0324916	501(C)(3)	70,000.		N/A	N/A	GENERAL SUPPORT
(4) AUSTIN PEAY STATE UNIVERSITY 601 COLLEGE ST, CLARKSVILLE, TN 37044	62-0646576	TN STATE	70,000.		N/A	N/A	GENERAL SUPPORT
(5) TEXAS A&M UNIVERSITY-COMMERCE P.O. BOX 3011, COMMERCE, TX 75429-3011	75-6001353	TX STATE	70,000.		N/A	N/A	GENERAL SUPPORT
(6) FORT LEWIS COLLEGE 1000 RIM DRIVE, DURANGO, CO 81301	84-6000556	CO STATE	70,000.		N/A	N/A	GENERAL SUPPORT
(7) CENTRAL WASHINGTON UNIVERSITY 400 EAST UNIVERSITY WAY, ELLENSBURG, WA 98926	91-6000618	WA STATE	70,000.		N/A	N/A	GENERAL SUPPORT
(8) SAN FRANCISCO STATE UNIVERSITY 1600 HOLLOWAY AVE, SAN FRANCISCO, CA 94132	93-1137247	CA STATE	70,000.		N/A	N/A	GENERAL SUPPORT
(9) ACS, INDIANA LOCAL SECTION 2042 GABLE LANE CT, INDIANAPOLIS, IN 46228	35-6031737	501(C)(3)	65,500.		N/A	N/A	GENERAL SUPPORT
(10) UNIVERSITY OF NEVADA DIRECTOR FINANCIAL SERVICES, RENO, NV 89557	88-6000024	501(C)(3)	61,000.		N/A	N/A	GENERAL SUPPORT
(11) CHEMICAL HERITAGE FOUNDATION 315 CHESTNUT STREET, PHILADELPHIA, PA 19106	22-2817365	501(C)(3)	60,000.		N/A	N/A	GENERAL SUPPORT
(12) CEDAR CREST COLLEGE 100 COLLEGE DRIVE, ALLENTOWN, PA 18104	23-1365953	501(C)(3)	60,000.		N/A	N/A	GENERAL SUPPORT

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1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) MILLIKIN UNIVERSITY							
1184 W. MAIN ST, DECATUR, IL 62522	37-0706154	501(C)(3)	60,000.		N/A	N/A	GENERAL SUPPORT
(2) MOUNT HOLYOKE COLLEGE							
50 COLLEGE STREET, SOUTH HADLEY, MA 01075	04-2103578	501(C)(3)	56,500.		N/A	N/A	GENERAL SUPPORT
(3) MICHIGAN STATE UNIVERSITY							
103 NATIONAL SC. BLDG. EAST LANSING, MI 48824	38-6005984	501(C)(3)	56,500.		N/A	N/A	GENERAL SUPPORT
(4) COLLEGE OF THE HOLY CROSS							
FENWICK 450, WORCESTER, MA 01610	04-2103558	501(C)(3)	55,300.		N/A	N/A	GENERAL SUPPORT
(5) HIGH POINT UNIVERSITY							
ONE UNIVERSITY PKWY, HIGH POINT, NC 27268	56-0529999	501(C)(3)	55,300.		N/A	N/A	GENERAL SUPPORT
(6) PITTSBURG STATE UNIVERSITY							
1701 S. BROADWAY, PITTSBURG, KS 66762	22-3981479	KS STATE	55,000.		N/A	N/A	GENERAL SUPPORT
(7) KETTERING UNIVERSITY							
1700 UNIVERSITY AVENUE, FLINT, MI 48504	38-2410852	501(C)(3)	55,000.		N/A	N/A	GENERAL SUPPORT
(8) MACALESTER COLLEGE							
1600 GRAND AVENUE, ST. PAUL, MN 55105	41-0693962	501(C)(3)	55,000.		N/A	N/A	GENERAL SUPPORT
(9) THE COLLEGE OF WILLIAM AND MARY							
P.O. BOX 8795, WILLIAMSBURG, VA 23187-8795	54-6001718	501(C)(3)	55,000.		N/A	N/A	GENERAL SUPPORT
(10) SAMFORD UNIVERSITY							
800 LAKESHORE DR, HOMEWOOD, AL 35209	63-0312914	501(C)(3)	55,000.		N/A	N/A	GENERAL SUPPORT
(11) TRINITY UNIVERSITY							
ONE TRINITY PLACE, SAN ANTONIO, TX 78212	74-1109633	501(C)(3)	55,000.		N/A	N/A	GENERAL SUPPORT
(12) SOUTHWESTERN UNIVERISTY							
P.O. BOX 770, GEORGETOWN, TX 78627-0770	74-1233796	501(C)(3)	55,000.		N/A	N/A	GENERAL SUPPORT

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1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) THE TOWER FDN. OF SAN JOSE STATE UNIVERSITY ONE WASHINGTON SQ. SAN JOSE, CA 95192	83-0403915	501(C)(3)	55,000.		N/A	N/A	GENERAL SUPPORT
(2) OCCIDENTAL COLLEGE 1600 CAMPUS RD, LOS ANGELES, CA 90041-3314	95-1667177	501(C)(3)	55,000.		N/A	N/A	GENERAL SUPPORT
(3) JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES ST, BALTIMORE, MD 21218	52-0595110	501(C)(3)	53,250.		N/A	N/A	GENERAL SUPPORT
(4) CHEMICAL SOCIETY OF WASHINGTON 1155 16TH STREET NW, WDC 20036	52-6059804	501(C)(3)	51,806.		N/A	N/A	GENERAL SUPPORT
(5) COLORADO STATE UNIVERSITY FOUNDATION THE COLG. OF NAT. SCIENCES, FT. COLLINS, CO 80523	23-7098397	501(C)(3)	50,000.		N/A	N/A	GENERAL SUPPORT
(6) RUTGERS UNIVERSITY ASBIII, 2ND FLOOR, NEW BRUNSWICK, NJ 08901	22-6001086	501(C)(3)	47,350.		N/A	N/A	GENERAL SUPPORT
(7) ACS, GREATER HOUSTON SECTION 3901 BRIARPARK DR, HOUSTON, TX 77042-5301	74-6045012	501(C)(3)	46,500.		N/A	N/A	GENERAL SUPPORT
(8) WASHINGTON STATE UNIVERSITY PO BOX 641027, PULLMAN, WA 99164	91-6001108	501(C)(3)	42,000.		N/A	N/A	GENERAL SUPPORT
(9) THE SCRIPPS RESEARCH INST 10550 N. TORREY PINES RD. LAJOLLA, CA 92037	33-0435954	501(C)(3)	40,000.		N/A	N/A	GENERAL SUPPORT
(10) UNIVERSITY OF NORTHERN COLORADO JUDY FARR ALUMNI CENTER, GREELEY, CO 80639	84-6000546	501(C)(3)	40,000.		N/A	N/A	GENERAL SUPPORT
(11) OREGON STATE UNIVERSITY FOUNDATION 153A GILBERT HALL, CORVALLIS, OR 97331	93-6022772	501(C)(3)	40,000.		N/A	N/A	GENERAL SUPPORT
(12) UNIVERSITY OF MARYLAND COLLEGE PARK 0102 LEE BUILDING, COLLEGE PK. MD 80742-5145	52-1076158	501(C)(3)	34,300.		N/A	N/A	GENERAL SUPPORT

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OMB No. 1545-0047

2016

**Open to Public
Inspection**

Employer identification number

53-0196572

Part I General Information on Grants and Assistance

- 1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ **Yes** ☐ **No**
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) SOUTH DAKOTA STATE UNIVERSITY 815 MEDARY AVE, BROOKINGS, SD 57007	46-0273801	501(C)(3)	33,800.		N/A	N/A	GENERAL SUPPORT
(2) TUSKEGEE UNIVERSITY 1200 W MONTGOMERY RD, TUSKEGEE, AL 36088	63-0288878	501(C)(3)	32,500.		N/A	N/A	GENERAL SUPPORT
(3) ACS, SAN ANTONIO LOCAL SECTION 11123 OAK RISE, SAN ANTONIO, TX 78249-3371	74-6052070	501(C)(3)	28,500.		N/A	N/A	GENERAL SUPPORT
(4) UNIVERSITY OF PUERTO RICO 39 PONCE DE LEON AVENUE, SAN JUAN, PR 00931	66-0433760	501(C)(3)	28,050.		N/A	N/A	GENERAL SUPPORT
(5) OKLAHOMA STATE UNIVERSITY AD. SCHOLARSHIPS, STILLWATER, OK 74078	73-1383996	OK STATE	26,500.		N/A	N/A	GENERAL SUPPORT
(6) UNIVERSITY OF ALASKA FOUNDATION 4001 GEIST RD, SUITE 6, FAIRBANKS, AK 99775	23-7394620	501(C)(3)	26,000.		N/A	N/A	GENERAL SUPPORT
(7) ACS, NEW YORK LOCAL SECTION 2490 SYCAMORE AVENUE, WANTAGH NY 11793	13-1926773	501(C)(3)	25,500.		N/A	N/A	GENERAL SUPPORT
(8) KANSAS STATE UNIVERSITY 10 ANDERSON HALL, MANHATTAN, KS 66506	48-0771751	501(C)(3)	24,600.		N/A	N/A	GENERAL SUPPORT
(9) DUQUESNE UNIVERSITY MELLON HALL 302A, PITTSBURGH, PA 15282	25-1035663	501(C)(3)	24,500.		N/A	N/A	GENERAL SUPPORT
(10) UNIVERSITY OF ARKANSAS AT PINE BLUFF 1200 N. UNIVERSITY DR. PINE BLUFF, AR 71603	71-6010030	501(C)(3)	24,500.		N/A	N/A	GENERAL SUPPORT
(11) ACS, AKRON LOCAL SECTION 380 ROSLYN AVENUE, AKRON, OH 44320	34-6524266	501(C)(3)	24,000.		N/A	N/A	GENERAL SUPPORT
(12) VIRGINIA POLYTECHNIC INSTITUTE OFF. OF FINANCIAL AID, BLACKSBURG, VA 24061	54-6001805	501(C)(3)	24,000.		N/A	N/A	GENERAL SUPPORT

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table ►

3 Enter total number of other organizations listed in the line 1 table ►

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule I (Form 990) (2016)

**SCHEDULE I
(Form 990)**

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

**Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States**

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

► Attach to Form 990.

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1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) LINCOLN UNIVERSITY 816 CHESTNUT ST, JEFFERSON CITY, MO 65101	44-6001089	501(C)(3)	23,000.		N/A	N/A	GENERAL SUPPORT
(2) UNIVERSITY OF IDAHO PO BOX 44291, MOSCOW, ID 83844	23-7098404	501(C)(3)	22,750.		N/A	N/A	GENERAL SUPPORT
(3) WEST VIRGINIA UNIVERSITY ONE WATERFRONT PLACE, MORGANTOWN, WV 26506	55-6000842	501(C)(3)	22,500.		N/A	N/A	GENERAL SUPPORT
(4) UNIVERSITY OF VERMONT 411 MAIN ST, BURLINGTON, VT 05405	03-0179440	501(C)(3)	22,000.		N/A	N/A	GENERAL SUPPORT
(5) SUNY BINGHAMTON DIRECT. OF FINANCIAL AID, BUFFALO, NY 13902	14-6013200	501(C)(3)	20,700.		N/A	N/A	GENERAL SUPPORT
(6) LANGSTON UNIVERSITY CCHEMISTRY DEPT., LANGSTON, OK 73050	11-3815948	501(C)(3)	20,000.		N/A	N/A	GENERAL SUPPORT
(7) STONY BROOK FOUNDATION ROOM N-4004, STONY BROOK, NY 11794	11-6077945	501(C)(3)	20,000.		N/A	N/A	GENERAL SUPPORT
(8) TENNESSEE STATE UNIVERSITY 201 BOSWELL SCIENCE BLDG, NASHVILLE, TN 37209	23-7105693	501(C)(3)	20,000.		N/A	N/A	GENERAL SUPPORT
(9) UNIVERSITY OF WISCONSIN FOUNDATION 1848 UNIVERSITY AVE, MADISON, WI 53726	39-0743975	501(C)(3)	20,000.		N/A	N/A	GENERAL SUPPORT
(10) CENTRAL COLLEGE 812 UNIVERSITY ST, PELLA, IA 50219	42-0680344	501(C)(3)	20,000.		N/A	N/A	GENERAL SUPPORT
(11) NORTH DAKOTA STATE UNIV 1340 ADMIN. AVE, FARGO, ND 58105	45-6002439	ND STATE	20,000.		N/A	N/A	GENERAL SUPPORT
(12) ALABAMA A&M UNIVERSITY GRANTS & CONTRACTS ACCT. NORMAL, AL 37562	52-6054905	AL STATE	20,000.		N/A	N/A	GENERAL SUPPORT

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(Form 990)**

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Name of the organization

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(1) NORTH CAROLINA ST COLLEGE OF SCI FNDTN DEV & COLLEGE RELATIONS, RALEIGH, NC 27695	58-1524289	501(C)(3)	20,000.		N/A	N/A	GENERAL SUPPORT
(2) MISSISSIPPI STATE UNIVERSITY COLL OF ARTS & SCIENCES, MS 39762	64-6000819	501(C)(3)	20,000.		N/A	N/A	GENERAL SUPPORT
(3) SOUTHERN UNIVERSITY A&M COLLEGE 801 HARDING BLVD. BATON ROUGE, LA 70183	72-6000817	LA STATE	20,000.		N/A	N/A	GENERAL SUPPORT
(4) MONTANA STATE UNIVERSITY FOUNDATION 1501 SOUTH 11TH AVE, BOZEMAN, MT 59717	81-6001649	501(C)(3)	20,000.		N/A	N/A	GENERAL SUPPORT
(5) UTAH STATE UNIVERSITY COLLEGE OF SCIENCES, LOGAN, UT 84322	87-6000528	501(C)(3)	20,000.		N/A	N/A	GENERAL SUPPORT
(6) CORNELL UNIVERSITY 120 BAKER LAB, ITHACA, NY 14850	15-0532082	501(C)(3)	19,500.		N/A	N/A	GENERAL SUPPORT
(7) ACS, MINNESOTA LOCAL SECTION PO BOX 64683, ST PAUL, MN 55164	41-6024526	501(C)(3)	19,100.		N/A	N/A	GENERAL SUPPORT
(8) ACS, PUERTO RICO LOCAL SECTION RIO PIEDRAS CAMPUS, SAN JUAN PR 19090	66-0684194	501(C)(3)	18,000.		N/A	N/A	GENERAL SUPPORT
(9) UNIVERSITY OF ARIZONA CHEMISTRY BLDG. RM. 225, TUCSON, AZ 85721	86-6050388	501(C)(3)	18,000.		N/A	N/A	GENERAL SUPPORT
(10) UNIVERSITY OF HAWAII FOUNDATION 2444 DOLE ST. HONOLULU, HI 96822	99-0085260	501(C)(3)	16,420.		N/A	N/A	GENERAL SUPPORT
(11) UNIVERSITY OF MARYLAND EASTERN SHORE 3004 MARBLE HALL, PRINCE ANNE, MD 21853	52-6002033	501(C)(3)	16,050.		N/A	N/A	GENERAL SUPPORT
(12) UNIVERSITY OF MICHIGAN-ANN ARBOR DIR, FIN. AID, ANN ARBOR, MI 48109	38-6006309	501(C)(3)	15,800.		N/A	N/A	GENERAL SUPPORT

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Schedule I (Form 990) (2016)

**SCHEDULE I
(Form 990)**

Department of the Treasury
Internal Revenue Service

Name of the organization

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**Grants and Other Assistance to Organizations,
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(1) IDAHO STATE UNIVERSITY 821 S 8TH AVE MS8023,POCATELLO ID, 83209	82-6000924	ID STATE	15,800.		N/A	N/A	GENERAL SUPPORT
(2) ACS, SIERRA NEVADA LOCAL SECTION 1664 N VIRGINIA ST, RENO, NV 89557	88-6008127	501(C)(3)	15,500.		N/A	N/A	GENERAL SUPPORT
(3) WEST VIRGINIA STATE UNIVERSITY PO BOX 1000, INSTITUTE, WV 25112	55-6001805	WV STATE	14,500.		N/A	N/A	GENERAL SUPPORT
(4) SOUTH CAROLINA RESEARCH FOUNDATION CAMPUS PO BOX 7212, ORANGEBURG, SC 29117	57-0967350	501(C)(3)	14,000.		N/A	N/A	GENERAL SUPPORT
(5) UNIVERSITY OF GEORGIA FOUNDATION FRANKLIN COLL, ATHENS, GA 30602	58-1353149	501(C)(3)	14,000.		N/A	N/A	GENERAL SUPPORT
(6) LSU FOUNDATION LSU COLL.OF SCIENCE,BATON ROUGE,LA 70803	72-6020969	501(C)(3)	14,000.		N/A	N/A	GENERAL SUPPORT
(7) NORTH CAROLINA A & T STATE UNIV DEPT OF CHEMISTRY,GREENSBORO,NC 27411	56-6000007	501(C)(3)	13,250.		N/A	N/A	GENERAL SUPPORT
(8) INDIANA UNIVERSITY OFF. OF BURSAR, INDIANAPOLIS,IN 46266	35-6001673	501(C)(3)	13,000.		N/A	N/A	GENERAL SUPPORT
(9) UNIVERSITY OF MIAMI RANSOM EVERGLADES H.S., MIAMI, FL 33124	59-0624458	501(C)(3)	13,000.		N/A	N/A	GENERAL SUPPORT
(10) UNIVERSITY OF NOTRE DAME 251 NIEUWLAND HALL, NOTRE DAME, IN 46556	35-0868188	501(C)(3)	12,250.		N/A	N/A	GENERAL SUPPORT
(11) NORTHEASTERN UNIVERSITY 360 HUNTINGTON AVE, BOSTON, MA 02115	04-1679980	501(C)(3)	12,050.		N/A	N/A	GENERAL SUPPORT
(12) CHEVRON 100 CHEVRON WAY, RICHMOND, CA 94802	94-0890210		11,520.		N/A	N/A	GENERAL SUPPORT

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(1) CALVIN COLLEGE 3201 BURTON ST., SE, GRAND RAPIDS, MI 49546	38-3071514	501(C)(3)	11,000.		N/A	N/A	GENERAL SUPPORT
(2) ACS, NORTH CAROLINA LOCAL SECTION 101 LONGWOOD PL, CHAPEL HILL, NC 27514	56-6049892	501(C)(3)	11,000.		N/A	N/A	GENERAL SUPPORT
(3) ROWAN UNIVERSITY 201 MULLICA HILL ROAD, GLASSBORO, NJ 08028	22-2764819	NJ STATE	10,300.		N/A	N/A	GENERAL SUPPORT
(4) CALIFORNIA STATE UNIVERSITY - LA 5151 STATE UNIV.DR., LOS ANGELES, CA 90032	95-4386558	CA STATE	10,000.		N/A	N/A	GENERAL SUPPORT
(5) UNIVERSITY OF RHODE ISLAND DEPARTMENT OF CHEMISTRY, KINGSTON, RI 02881	22-3011455	RI STATE	10,000.		N/A	N/A	GENERAL SUPPORT
(6) ACS, CHICAGO LOCAL SECTION 5913 N NEWARK AVE CHICAGO, IL 60631	36-2287522	501(C)(3)	10,000.		N/A	N/A	GENERAL SUPPORT
(7) ACS, CHEMICAL EDUCATION DIVISION 2225 S EARL AVENUE LAFAYETTE, IN 47905-2266	42-0935374	501(C)(3)	10,000.		N/A	N/A	GENERAL SUPPORT
(8) ACS, KANSAS CITY LOCAL SECTION 2903 WILSHIRE COURT, ST. JOSEPH, MO 64506	44-0132880	501(C)(3)	10,000.		N/A	N/A	GENERAL SUPPORT
(9) DELAWARE STATE UNIVERSITY 1200 N. DUPONT HWY, DOVER, DE 19901	51-0305893	501(C)(3)	10,000.		N/A	N/A	GENERAL SUPPORT
(10) GROW BIOPLASTICS LLC 2450 EJ CHAPMAN DR KNOXVILLE, TN 37996	81-0940031		10,000.		N/A	N/A	GENERAL SUPPORT
(11) UNIVERSITY OF WYOMING 1000 E UNIVERSITY AVE. LARAMIE, WY 82071	83-6000331	WY STATE	10,000.		N/A	N/A	GENERAL SUPPORT
(12) ACS, CENTRAL ARIZONA LOCAL SECTION 1435 S HONEYSUCKLE CIR, GILBERT, AZ 85296	86-6051139	501(C)(3)	10,000.		N/A	N/A	GENERAL SUPPORT

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(1) HOWARD UNIVERSITY DIRECTOR OF FINANCIAL AID, WDC 20059	53-0204707	501(C)(3)	9,500.		N/A	N/A	GENERAL SUPPORT
(2) UNIVERSITY OF TOLEDO 2801 W BANCROFT STREET TOLEDO, OH 43606	34-6401483	501(C)(3)	9,337.		N/A	N/A	GENERAL SUPPORT
(3) BOISE STATE UNIVERSITY 1910 UNIVERSITY DRIVE BOISE, ID 83725	82-6010706	501(C)(3)	9,300.		N/A	N/A	GENERAL SUPPORT
(4) UNIVERSITY OF WEST FLORIDA DIR. OF FIN.AID, PENSACOLA, FL 32514	15-9600187	FL STATE	9,250.		N/A	N/A	GENERAL SUPPORT
(5) ACS, PITTSBURGH LOCAL SECTION 2220 EAGLES NEST LN, MONROEVILLE, PA 15146	23-7401645	501(C)(3)	9,000.		N/A	N/A	GENERAL SUPPORT
(6) NORTHWESTERN UNIVERSITY DIRECT. OF FIN.AID, EVANSTON, IL 60204	36-2167817	501(C)(3)	9,000.		N/A	N/A	GENERAL SUPPORT
(7) POMONA COLLEGE 333 N. COLLEGE WAY, CLAREMONT, CA 91711	95-1664112	501(C)(3)	9,000.		N/A	N/A	GENERAL SUPPORT
(8) UNIVERSITY OF CINCINNATI 312 COLLEGE DRIVE, CINCINNATI, OH 45221	31-6000989	OH STATE	8,500.		N/A	N/A	GENERAL SUPPORT
(9) GEORGIA INSTITUTE OF TECHNOLOGY DIR OF FIN AID, ATLANTA, GA 30332	58-6002023	501(C)(3)	8,500.		N/A	N/A	GENERAL SUPPORT
(10) THE COLLEGE OF NEW JERSEY 2000 PENNINGTON ROAD, EWING, NJ 08628-0718	22-2797398	NJ STATE	8,050.		N/A	N/A	GENERAL SUPPORT
(11) COLORADO STATE UNIVERSITY-PUEBLO 2200 BONFORTE BLVD, PUEBLO, CO 80523	84-0517947	CO STATE	8,050.		N/A	N/A	GENERAL SUPPORT
(12) YOUNGSTOWN STATE UNIVERSITY ONE UNIVERSITY PLAZA, YOUNGSTOWN, OH 44555	34-0111998	OH STATE	8,000.		N/A	N/A	GENERAL SUPPORT

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(1) ILLINOIS INSTITUTE OF TECHNOLOGY DIR OF FIN AID,CHICAGO, IL 60616	36-2170136	501(C)(3)	8,000.		N/A	N/A	GENERAL SUPPORT
(2) ACS, CAROLINA PIEDMONT LOCAL SECTION 3830 MOUNTAIN COVE DR.CHARLOTTE,NC 28216	56-1317493	501(C)(3)	8,000.		N/A	N/A	GENERAL SUPPORT
(3) LEMOYNE-OWEN COLLEGE 807 WALKER AVENUE, MEMPHIS, TN 38126	62-0475690	501(C)(3)	8,000.		N/A	N/A	GENERAL SUPPORT
(4) UNIVERSITY OF PUERTO RICO MAYAGUEZ PO BOX 9000, MAYAGUEZ, PR 00928	66-0433761	501(C)(3)	7,950.		N/A	N/A	GENERAL SUPPORT
(5) DREW UNIVERSITY 36 MADISON AVENUE, MADISON, NJ 07940	22-1487164	501(C)(3)	7,750.		N/A	N/A	GENERAL SUPPORT
(6) RIDER UNIVERSITY 2083 LVILLE. RD,LAWRENCEVILLE,NJ 08648	21-0650678	501(C)(3)	7,500.		N/A	N/A	GENERAL SUPPORT
(7) CLARK ATLANTA UNIVERSITY 223 JAMES P. BRAWLEY DR. ATLANTA,GA 30314	58-1825259	501(C)(3)	7,500.		N/A	N/A	GENERAL SUPPORT
(8) JACKSONVILLE STATE UNIVERSITY 700 PELHAM ROAD N., JACKSONVILLE, AL 36265	63-6001099	AL STATE	7,500.		N/A	N/A	GENERAL SUPPORT
(9) UNIVERSITY OF SOUTHERN MISSISSIPPI 118 COLLEGE DRIVE,HATTIESBURG,MS 39406	64-6000818	501(C)(3)	7,500.		N/A	N/A	GENERAL SUPPORT
(10) MONTANA STATE UNIVERSITY DIR. OF FIN AID,BOZEMAN, MT 59101	81-6010045	MT STATE	7,500.		N/A	N/A	GENERAL SUPPORT
(11) DOANE COLLEGE 1014 BOSWELL AVE, CRETE, NE 68333	47-0377991	501(C)(3)	7,250.		N/A	N/A	GENERAL SUPPORT
(12) ACS, SNAKE RIVER LOCAL SECTION PO BOX 7264, BOISE, ID 83701	26-0657692	501(C)(3)	7,000.		N/A	N/A	GENERAL SUPPORT

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table ►

3 Enter total number of other organizations listed in the line 1 table ►

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule I (Form 990) (2016)

**SCHEDULE I
(Form 990)**

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

**Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States**

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

► Attach to Form 990.

► Information about Schedule I (Form 990) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016

**Open to Public
Inspection**

Employer identification number

53-0196572

Part I General Information on Grants and Assistance

- 1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ **Yes** ☐ **No**
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) UNIVERSITY OF SOUTHERN CALIFORNIA FINANCIAL AID OFFICE, LOS ANGELES, CA 90089	95-1642394	501(C)(3)	7,000.		N/A	N/A	GENERAL SUPPORT
(2) KENSAGROUP LLC 950 DANBY ROAD, ITHACA, NY 14850-5714	16-1595854		6,667.		N/A	N/A	GENERAL SUPPORT
(3) GAMMA SIGMA EPSILON CHEMISTRY HONOR SOCIETY 11300 NE 2ND AVE., MIAMI SHORES, FL 33161			6,500.		N/A	N/A	GENERAL SUPPORT
(4) WELLESLEY COLLEGE 106 CENTRAL ST, WELLESLEY, MA 02481-8203	04-2103637	501(C)(3)	6,500.		N/A	N/A	GENERAL SUPPORT
(5) DEPAUW UNIVERSITY 204 EAST SEMINARY ST. GREENCASTLE, IN 46135	35-0869045	501(C)(3)	6,500.		N/A	N/A	GENERAL SUPPORT
(6) ACS, MIDLAND LOCAL SECTION 1897 BLDG, MIDLAND, MI 48667	38-6076239	501(C)(3)	6,500.		N/A	N/A	GENERAL SUPPORT
(7) UNIV OF MARYLAND BALTIMORE COUNTY DIRECTOR FINANCIAL AID, BALTIMORE, MD 21228	52-3002033	MD STATE	6,500.		N/A	N/A	GENERAL SUPPORT
(8) PACE UNIVERSITY ONE PLACE PLAZA W332, NEW YORK, NY 10038	13-5562314	501(C)(3)	6,450.		N/A	N/A	GENERAL SUPPORT
(9) ROCHESTER INSTITUTE OF TECHNOLOGY 1 LOMB MEMORIAL DR, ROCHESTER, NY 14623	16-0743140	501(C)(3)	6,250.		N/A	N/A	GENERAL SUPPORT
(10) ACS, ROCHESTER LOCAL SECTION 67 BEVERLY ST, ROCHESTER, NY 14610	16-6043932	501(C)(3)	6,250.		N/A	N/A	GENERAL SUPPORT
(11) ACS, DETROIT LOCAL SECTION 21000 W TEN MILE RD, SOUTHFIELD, MI 48075	38-6062823	501(C)(3)	6,200.		N/A	N/A	GENERAL SUPPORT
(12) UNIVERSITY OF CHICAGO 5801 S ELLIS AVE, CHICAGO, IL 60615	36-2177139	501(C)(3)	6,050.		N/A	N/A	GENERAL SUPPORT

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table ►

3 Enter total number of other organizations listed in the line 1 table ►

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule I (Form 990) (2016)

**SCHEDULE I
(Form 990)**

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

**Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States**

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

► Attach to Form 990.

► Information about Schedule I (Form 990) and its instructions is at www.irs.gov/form990.

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Part I General Information on Grants and Assistance

- 1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ **Yes** ☐ **No**
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) SETON HALL UNIVERSITY 400 SOUTH ORANGE AVE., SOUTH ORANGE, NJ 07079	22-1500645	NJ STATE	6,000.		N/A	N/A	GENERAL SUPPORT
(2) HARRISBURG UNIV OF SCIENCE & TECHNOLOGY DIR OF FIN.AID, HARRISBURG, PA 17101	25-1900793	501(C)(3)	6,000.		N/A	N/A	GENERAL SUPPORT
(3) MISSOURI BAPTIST UNIVERSITY FINANCIAL AID OFFICE, SAINT LOUIS, MO 63141	43-0817015	501(C)(3)	6,000.		N/A	N/A	GENERAL SUPPORT
(4) WICHITA STATE UNIVERSITY PHYSICS DEPARTMENT, WICHITA, KS 67260	48-6029925	KS STATE	6,000.		N/A	N/A	GENERAL SUPPORT
(5) SOUTHEASTERN LOUISIANA UNIV 500 W. UNIVERSITY AVE, HAMMOND, LA 70402	72-6000816	LA STATE	6,000.		N/A	N/A	GENERAL SUPPORT
(6) UNIVERSITY OF CALIFORNIA - SANTA BARBARA UC SANTA BARBARA, SANTA BARBARA, CA 93106	77-0058608	501(C)(3)	6,000.		N/A	N/A	GENERAL SUPPORT
(7) ACS, PORTLAND LOCAL SECTION 17463 SCHALIT WAY, LAKE OSWEGO, OR 97035	93-6034605	501(C)(3)	6,000.		N/A	N/A	GENERAL SUPPORT
(8) ST EDWARDS UNIVERSITY 3001 S CONGRESS AVE, AUSTIN, TN 78704-6489	74-1109641	501(C)(3)	5,800.		N/A	N/A	GENERAL SUPPORT
(9) ACS, NORTHEASTERN LOCAL SECTION 19 MILL ROAD, HARVARD, MA 01451-1314	04-6037800	501(C)(3)	5,750.		N/A	N/A	GENERAL SUPPORT
(10) BAYONNE HIGH SCHOOL FUND 669 AVENUE A, BAYONNE, NJ 00928	22-6002962	NJ STATE	5,600.		N/A	N/A	GENERAL SUPPORT
(11) CALIFORNIA POLYTECHNIC STATE UNIVERSITY DEPT OF CHEM, SAN LUIS, CA 93407	95-1648180	501(C)(3)	5,550.		N/A	N/A	GENERAL SUPPORT
(12) DELTA COLLEGE 1961 DELTA ROAD, UNIVERSITY CTN, MI 48710	38-6034011	MI STATE	5,500.		N/A	N/A	GENERAL SUPPORT

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table ►

3 Enter total number of other organizations listed in the line 1 table ►

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule I (Form 990) (2016)

SCHEDULE I
(Form 990)

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

► Attach to Form 990.

► Information about Schedule I (Form 990) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016

Open to Public
Inspection

Employer identification number

53-0196572

Part I General Information on Grants and Assistance

- 1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ Yes ☐ No
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
(1) UNIVERSITY OF VIRGINIA PO BOX 400204, CHARLOTTESVILLE, VA 22904	54-6001796	501(C)(3)	5,500.		N/A	N/A	GENERAL SUPPORT
(2) UNIVERSITY OF NORTH CAROLINA-CHARLOTTE 9201 UNIVERSITY CTY.BLVD.,CHARLOTTE,NC28223	56-0791228	NC STATE	5,500.		N/A	N/A	GENERAL SUPPORT
(3) OREGON STATE UNIVERSITY 2100 SW CAMPUS WAY, CORVALLIS, OR 97339	61-1730890	OR STATE	5,500.		N/A	N/A	GENERAL SUPPORT
(4) ACS, DALLAS FORT WORTH LOCAL SECTION 6717 LAHONTAN DRIVE,FT. WORTH,TX 76132	75-6038078	501(C)(3)	5,500.		N/A	N/A	GENERAL SUPPORT
(5) LAFAYETTE COLLEGE 701 SULLIVAN ROAD, EASTON, PA 18042-1770	24-0795686	501(C)(3)	5,300.		N/A	N/A	GENERAL SUPPORT
(6) PACIFIC LUTHERAN UNIVERSITY 12180 PARK AVE S, TACOMA, WA 98447-0003	91-0565571	501(C)(3)	5,300.		N/A	N/A	GENERAL SUPPORT
(7)							
(8)							
(9)							
(10)							
(11)							
(12)							

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table 254.

3 Enter total number of other organizations listed in the line 1 table 4.

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule I (Form 990) (2016)

Part III **Grants and Other Assistance to Domestic Individuals.** Complete if the organization answered "Yes" on Form 990, Part IV, line 22.
Part III can be duplicated if additional space is needed.

(a) Type of grant or assistance	(b) Number of recipients	(c) Amount of cash grant	(d) Amount of non-cash assistance	(e) Method of valuation (book, FMV, appraisal, other)	(f) Description of non-cash assistance
1 AWARDS	292.	427,231.		N/A	N/A
2 FELLOWSHIPS	86.	186,072.		N/A	N/A
3					
4					
5					
6					
7					

Part IV **Supplemental Information.** Provide the information required in Part I, line 2, Part III, column (b); and any other additional information.

PART I, LINE 2:

DESCRIPTION OF THE ORGANIZATION'S PROCEDURES FOR MONITORING THE USE OF GRANT FUNDS IN THE UNITED STATES. THE AMERICAN CHEMICAL SOCIETY (ACS) REGULARLY MONITORS ITS GRANTS TO ENSURE THAT THEY ARE USED FOR PROPER PURPOSES AND ARE NOT DIVERTED FROM THEIR INTENDED USES. THESE MONITORING PROCEDURES INCLUDE RECEIPT OF PERIODIC AND ANNUAL REPORTS OF EXPENDITURES AND BUDGETS, RESEARCH MILESTONES/SIGNIFICANT OUTCOMES, SUMMARY AND TECHNICAL PROGRESS REPORTS, AND RELEVANT PUBLICATIONS/PRESENTATIONS. ACS REVIEWS ALL REPORTS SUBMITTED TO ENSURE COMPLIANCE WITH GRANT BUDGETS, ACS POLICIES, AND LEGAL REQUIREMENTS.

**SCHEDULE J
(Form 990)**

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Compensation Information

For certain Officers, Directors, Trustees, Key Employees, and Highest
Compensated Employees

▶ Complete if the organization answered "Yes" on Form 990, Part IV, line 23.

▶ Attach to Form 990.

▶ Information about Schedule J (Form 990) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016

**Open to Public
Inspection**

Employer identification number

53-0196572

Part I Questions Regarding Compensation

1a Check the appropriate box(es) if the organization provided any of the following to or for a person listed on Form 990, Part VII, Section A, line 1a. Complete Part III to provide any relevant information regarding these items.

- | | |
|---|---|
| <input checked="" type="checkbox"/> First-class or charter travel | <input type="checkbox"/> Housing allowance or residence for personal use |
| <input type="checkbox"/> Travel for companions | <input type="checkbox"/> Payments for business use of personal residence |
| <input checked="" type="checkbox"/> Tax indemnification and gross-up payments | <input checked="" type="checkbox"/> Health or social club dues or initiation fees |
| <input type="checkbox"/> Discretionary spending account | <input type="checkbox"/> Personal services (such as, maid, chauffeur, chef) |

b If any of the boxes on line 1a are checked, did the organization follow a written policy regarding payment or reimbursement or provision of all of the expenses described above? If "No," complete Part III to explain

2 Did the organization require substantiation prior to reimbursing or allowing expenses incurred by all directors, trustees, and officers, including the CEO/Executive Director, regarding the items checked on line 1a?

3 Indicate which, if any, of the following the filing organization used to establish the compensation of the organization's CEO/Executive Director. Check all that apply. Do not check any boxes for methods used by a related organization to establish compensation of the CEO/Executive Director, but explain in Part III.

- | | |
|---|---|
| <input checked="" type="checkbox"/> Compensation committee | <input type="checkbox"/> Written employment contract |
| <input checked="" type="checkbox"/> Independent compensation consultant | <input checked="" type="checkbox"/> Compensation survey or study |
| <input checked="" type="checkbox"/> Form 990 of other organizations | <input checked="" type="checkbox"/> Approval by the board or compensation committee |

4 During the year, did any person listed on Form 990, Part VII, Section A, line 1a, with respect to the filing organization or a related organization:

- a** Receive a severance payment or change-of-control payment?
- b** Participate in, or receive payment from, a supplemental nonqualified retirement plan?
- c** Participate in, or receive payment from, an equity-based compensation arrangement?
- If "Yes" to any of lines 4a-c, list the persons and provide the applicable amounts for each item in Part III.

Only section 501(c)(3), 501(c)(4), and 501(c)(29) organizations must complete lines 5-9.

5 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation contingent on the revenues of:

- a** The organization?
- b** Any related organization?
- If "Yes" on line 5a or 5b, describe in Part III.

6 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation contingent on the net earnings of:

- a** The organization?
- b** Any related organization?
- If "Yes" on line 6a or 6b, describe in Part III.

7 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization provide any nonfixed payments not described on lines 5 and 6? If "Yes," describe in Part III.

8 Were any amounts reported on Form 990, Part VII, paid or accrued pursuant to a contract that was subject to the initial contract exception described in Regulations section 53.4958-4(a)(3)? If "Yes," describe in Part III

9 If "Yes" on line 8, did the organization also follow the rebuttable presumption procedure described in Regulations section 53.4958-6(c)?

	Yes	No
1b	X	
2	X	
4a		X
4b	X	
4c		X
5a		X
5b		X
6a		X
6b		X
7		X
8		X
9		

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule J (Form 990) 2016

Schedule J (Form 990) 2016

Page **2****Part II Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees.** Use duplicate copies if additional space is needed.

For each individual whose compensation must be reported on Schedule J, report compensation from the organization on row (i) and from related organizations, described in the instructions, on row (ii). Do not list any individuals that aren't listed on Form 990, Part VII.

Note: The sum of columns (B)(i)-(iii) for each listed individual must equal the total amount of Form 990, Part VII, Section A, line 1a, applicable column (D) and (E) amounts for that individual.

(A) Name and Title		(B) Breakdown of W-2 and/or 1099-MISC compensation			(C) Retirement and other deferred compensation	(D) Nontaxable benefits	(E) Total of columns (B)(i)-(D)	(F) Compensation in column (B) reported as deferred on prior Form 990
		(i) Base compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation				
1 DR. THOMAS M. CONNELLY, J EXECUTIVE DIRECTOR & CEO	(i)	690,213.	195,420.	7,524.	23,850.	28,593.	945,600.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
2 MR. FLINT H. LEWIS SECRETARY & GENERAL COUNSEL	(i)	347,840.	91,000.	3,418.	23,850.	30,320.	496,428.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
3 MR. BRIAN A. BERNSTEIN TREASURER & CFO	(i)	391,145.	103,060.	43,262.	23,850.	27,887.	589,204.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
4 MR. MANUEL GUZMAN PRESIDENT, CAS	(i)	714,802.	282,320.	2,622.	23,850.	27,453.	1,051,047.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
5 DR. BRIAN D. CRAWFORD PRESIDENT, PUBLICATIONS	(i)	524,178.	200,740.	31,712.	23,850.	23,077.	803,557.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
6 MR. JOHN R. SULLIVAN CHIEF INFORMATION OFFICER	(i)	366,632.	97,430.	1,934.	23,850.	30,635.	520,481.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
7 DR. MATTHEW J. TOUSSANT SVP, PRODUCT & CONTENT OPS, CAS	(i)	431,051.	148,030.	6,976.	23,850.	19,309.	629,216.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
8 MR. CONAL THOMPSON CTO & VP, INFORMATION TECH, CAS	(i)	377,144.	129,970.	1,296.	23,850.	24,658.	556,918.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
9 DR. MICHAEL DENNIS VP, LEGAL ADM, PMO & INNVTN, CAS	(i)	311,071.	88,160.	1,605.	23,650.	26,180.	450,666.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
10 MR. BRANDON NORDIN SVP, SALES MKTG DGT STGY, PUBS	(i)	285,260.	92,760.	2,888.	22,907.	19,457.	423,272.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
11 MR. CRAIG STEPHENS VP, SALES, CAS	(i)	262,959.	91,400.	1,805.	23,850.	29,067.	409,081.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
12	(i)							
	(ii)							
13	(i)							
	(ii)							
14	(i)							
	(ii)							
15	(i)							
	(ii)							
16	(i)							
	(ii)							

Schedule J (Form 990) 2016

Part III Supplemental Information

Provide the information, explanation, or descriptions required for Part I, lines 1a, 1b, 3, 4a, 4b, 4c, 5a, 5b, 6a, 6b, 7, and 8, and for Part II. Also complete this part for any additional information.

PART I, LINE 1A:

FOR EACH OF THE LISTED BENEFITS PROVIDED TO OR FOR A LISTED PERSON

PROVIDE IN PART III RELEVANT INFORMATION REGARDING THESE ITEMS:

TYPE OF BENEFIT: FIRST CLASS TRAVEL. THE SOCIETY DOES NOT PAY FOR FIRST CLASS TRAVEL, EXCEPT IN UNUSUAL CASES. ANY FIRST CLASS TRAVEL FOR OFFICIAL ACS BUSINESS MUST BE APPROVED BY THE EXECUTIVE DIRECTOR & CEO. IN 2016, ON TWO OCCASIONS, IT WAS NECESSARY FOR THE ACS TO AUTHORIZE AND PAY FOR FIRST CLASS TICKETS DUE TO DOCUMENTED MEDICAL REASONS FOR AN ACS OFFICER WHO WAS ON OFFICIAL ACS BUSINESS TRAVEL.

TYPE OF BENEFIT: TAX INDEMNIFICATION AND GROSS-UP PAYMENTS. IN 2016, A HIGHLY COMPENSATED INDIVIDUAL RECEIVED A GIFT CARD AWARD IN RECOGNITION OF COLLABORATIVE, INNOVATION EFFORTS, SUPERIOR PERFORMANCE AND RISK TAKING TO ADVANCE THE SOCIETY'S STRATEGIC GOALS AND OBJECTIVES. THE NOMINAL GIFT CARD AMOUNT INCLUDED A TAX GROSS UP TO COVER THE TAX LIABILITY, CONSISTENT WITH GIFT CARDS FOR ALL ACS EMPLOYEES.

Part III Supplemental Information

Provide the information, explanation, or descriptions required for Part I, lines 1a, 1b, 3, 4a, 4b, 4c, 5a, 5b, 6a, 6b, 7, and 8, and for Part II. Also complete this part for any additional information.

TYPE OF BENEFIT: HEALTH CLUB FEES.

THIS IS A BENEFIT OFFERED TO ALL EMPLOYEES. THERE WERE TWO LISTED PERSONS (HIGHLY COMPENSATED EMPLOYEES) WHO ELECTED TO UTILIZE THIS BENEFIT. THE BENEFIT WAS TREATED AS TAXABLE COMPENSATION TO EACH LISTED PERSON.

TYPE OF BENEFIT: SOCIAL CLUB DUES.

THE ACS PAID FOR SOCIAL CLUB MEMBERSHIP DUES FOR THE THREE STAFF OFFICERS. THE PAYMENTS WERE TREATED AS ORDINARY AND NECESSARY BUSINESS EXPENSES. THE ACS AND THE THREE OFFICERS USED THE CLUB'S FACILITIES TO CONDUCT ACS BUSINESS ACTIVITIES. THE BENEFIT WAS NOT TREATED AS TAXABLE COMPENSATION FOR EACH EMPLOYEE. ACS DOES NOT REIMBURSE EXPENSES INCURRED FOR PERSONAL USE.

PART I, LINE 4B:

NAMES OF LISTED PERSONS WHO PARTICIPATED IN, OR RECEIVED PAYMENTS FROM, A SUPPLEMENTAL NONQUALIFIED RETIREMENT PLAN:

MR. BRIAN A. BERNSTEIN: AMOUNT PAID - \$37,370; AMOUNT ACCRUED -NONE

DR. BRIAN D. CRAWFORD: AMOUNT PAID - \$24,188; AMOUNT ACCRUED -NONE

Part III Supplemental Information

Provide the information, explanation, or descriptions required for Part I, lines 1a, 1b, 3, 4a, 4b, 4c, 5a, 5b, 6a, 6b, 7, and 8, and for Part II. Also complete this part for any additional information.

TERMS AND CONDITIONS: THE ACS SUPPLEMENTAL EXECUTIVE RETIREMENT PLAN
(SERP) PROVIDES ELIGIBLE EMPLOYEES BENEFITS TAXABLE UNDER SECTION 457(F)
OF THE CODE TO SUPPLEMENT RETIREMENT BENEFITS UNDER THE ACS'S
TAX-QUALIFIED RETIREMENT PLAN THAT ARE LOST BECAUSE OF THE APPLICATION OF
CERTAIN DOLLAR LIMITATIONS APPLICABLE TO BENEFITS OF MANAGEMENT OR HIGHLY
COMPENSATED EMPLOYEES UNDER THE ACS'S TAX-QUALIFIED RETIREMENT PLAN.

**SCHEDULE M
(Form 990)**

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Noncash Contributions

- ▶ Complete if the organizations answered "Yes" on Form 990, Part IV, lines 29 or 30.
- ▶ Attach to Form 990.
- ▶ Information about Schedule M (Form 990) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016

**Open To Public
Inspection**

Employer identification number

53-0196572

Part I Types of Property

	(a) Check if applicable	(b) Number of contributions or items contributed	(c) Noncash contribution amounts reported on Form 990, Part VIII, line 1g	(d) Method of determining noncash contribution amounts
1 Art - Works of art				
2 Art - Historical treasures				
3 Art - Fractional interests				
4 Books and publications	X		13,040.	FMV
5 Clothing and household goods				
6 Cars and other vehicles				
7 Boats and planes				
8 Intellectual property				
9 Securities - Publicly traded	X	3.	91,002.	FMV
10 Securities - Closely held stock				
11 Securities - Partnership, LLC, or trust interests				
12 Securities - Miscellaneous				
13 Qualified conservation contribution - Historic structures				
14 Qualified conservation contribution - Other				
15 Real estate - Residential				
16 Real estate - Commercial				
17 Real estate - Other				
18 Collectibles				
19 Food inventory				
20 Drugs and medical supplies				
21 Taxidermy				
22 Historical artifacts				
23 Scientific specimens				
24 Archeological artifacts				
25 Other ▶ (LAB SUPPLIES)	X	7.	7,932.	FMV
26 Other ▶ ()				
27 Other ▶ ()				
28 Other ▶ ()				

29 Number of Forms 8283 received by the organization during the tax year for contributions for which the organization completed Form 8283, Part IV, Donee Acknowledgement **29**

	Yes	No
30a During the year, did the organization receive by contribution any property reported in Part I, lines 1 through 28, that it must hold for at least three years from the date of the initial contribution, and which isn't required to be used for exempt purposes for the entire holding period?		X
b If "Yes," describe the arrangement in Part II.		
31 Does the organization have a gift acceptance policy that requires the review of any nonstandard contributions?	X	
32a Does the organization hire or use third parties or related organizations to solicit, process, or sell noncash contributions?		X
b If "Yes," describe in Part II.		
33 If the organization didn't report an amount in column (c) for a type of property for which column (a) is checked, describe in Part II.		

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule M (Form 990) (2016)

JSA

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Part II **Supplemental Information.** Provide the information required by Part I, lines 30b, 32b, and 33, and whether the organization is reporting in Part I, column (b), the number of contributions, the number of items received, or a combination of both. Also complete this part for any additional information.

SCHEDULE O
(Form 990 or 990-EZ)

Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Supplemental Information to Form 990 or 990-EZ

Complete to provide information for responses to specific questions on
Form 990 or 990-EZ or to provide any additional information.

▶ Attach to Form 990 or 990-EZ.

▶ Information about Schedule O (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016

**Open to Public
Inspection**

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PART III, LINE 4D

OTHER PROGRAM SERVICES INCLUDE THE AMERICAN CHEMICAL SOCIETY (ACS) MEMBER
INSURANCE PROGRAM, ALSO KNOWN AS THE ACS GROUP LIFE INSURANCE TRUST,
WHICH PROVIDES MEMBERS WITH INSURANCE COVERAGE THROUGH GROUP INSURANCE
POLICIES. OFFERINGS INCLUDE TERM LIFE, TEN- AND TWENTY-YEAR LEVEL TERM
LIFE, HIGH LIMIT ACCIDENTAL DEATH AND DISMEMBERMENT, HOSPITAL INDEMNITY,
DISABILITY INCOME PROTECTION, SUPPLEMENTAL HEALTH, PROFESSIONAL
LIABILITY, AND AUTO/HOMEOWNERS INSURANCE.

PART V, LINE 4A & 4B:

AT ANY TIME DURING THE CALENDAR YEAR, DID THE ORGANIZATION HAVE AN
INTEREST IN, OR A SIGNATURE OR OTHER AUTHORITY OVER, A FINANCIAL ACCOUNT
IN A FOREIGN COUNTRY (SUCH AS A BANK ACCOUNT, SECURITIES ACCOUNT, OR
OTHER FINANCIAL ACCOUNT)? YES.

IF "YES" ENTER THE NAME OF THE FOREIGN COUNTRY: UNITED KINGDOM

IN 2016, THE ACS MAINTAINED BANK ACCOUNTS IN THE UNITED KINGDOM FOR
PURPOSES OF COLLECTING REVENUE AND PAYING EXPENSES DENOMINATED IN FOREIGN
CURRENCIES.

PART VI, SECTION A - GOVERNING BODY AND MANAGEMENT LINE 2:

DID ANY OFFICER, DIRECTOR, TRUSTEE, OR KEY EMPLOYEE HAVE A FAMILY

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---	--

RELATIONSHIP OR A BUSINESS RELATIONSHIP WITH ANY OTHER OFFICER, DIRECTOR, TRUSTEE, OR KEY EMPLOYEE? YES.

IN 2016, THE FOLLOWING INDIVIDUALS HAD BUSINESS RELATIONSHIPS BY SERVING TOGETHER (IN AN UNPAID CAPACITY) ON THE BOARD OF AN ACS RELATED ORGANIZATION, ACS INTERNATIONAL LTD.(ACSI): DR. THOMAS CONNELLY JR.(ACSI CHAIR OF THE BOARD), MANUEL GUZMAN (ACSI PRESIDENT AND DIRECTOR), AND FLINT LEWIS (ACSI DIRECTOR). BRIAN BERNSTEIN SERVED AS AN ACSI OFFICER (SECRETARY/TREASURER). THEY RECEIVED NO COMPENSATION FOR THEIR SERVICE AS DIRECTOR OR OFFICER OF ACSI.

PART VI, SECTION A, LINE 5

DID THE ORGANIZATION BECOME AWARE DURING THE YEAR OF A SIGNIFICANT DIVERSION OF THE ORGANIZATION'S ASSETS? YES.

AS ONE OF THE WORLD'S LEADING SCIENTIFIC PUBLISHERS, ACS DISTRIBUTES ALMOST ALL OF ITS CONTENT VIA THE INTERNET. IN 2016, ACS HAD MORE THAN 90 MILLION FULL TEXT DOWNLOADS OF ACS JOURNAL AND EBOOK CONTENT. FROM TIME TO TIME, ACS EXPERIENCES ATTEMPTS TO DOWNLOAD ITS CONTENT WITHOUT PROPER AUTHORIZATION. IN 2016, ACS SUFFERED A SERIES OF CYBER-THEFTS OF ITS INTELLECTUAL PROPERTY; OVER 500,000 SCIENTIFIC ARTICLES WERE IMPROPERLY DOWNLOADED BY ONE OR MORE UNKNOWN PERSONS. ACS DETERMINED THAT ITS INFORMATION TECHNOLOGY (IT) SYSTEM HAD NOT BEEN BREACHED; INSTEAD, THE UNKNOWN PERPETRATORS IMPROPERLY DOWNLOADED ACS CONTENT AFTER

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ACCESSING THE IT SYSTEMS OF SEVERAL ACS INSTITUTIONAL CUSTOMERS. HAVING
ACCESSED THESE SYSTEMS, THE PERPETRATORS WERE ABLE TO USE THE LEGITIMATE
ACCESS RIGHTS OF ACS'S CUSTOMERS TO PURSUE UNAUTHORIZED DOWNLOADING. IN
RESPONSE, ACS HAS REACHED OUT TO ITS CUSTOMERS REGARDING THIS MATTER AND
HAS IMPLEMENTED ADDITIONAL CONFIDENTIAL SECURITY MEASURES. ACS CONTINUES
TO EXPLORE METHODS OF MINIMIZING THE RISK OF A RECURRENCE.

LINE 6:

DID THE ORGANIZATION HAVE MEMBERS OR STOCKHOLDERS? YES.

THE AMERICAN CHEMICAL SOCIETY IS A FEDERALLY CHARTERED NOT-FOR-PROFIT
CORPORATION WHOSE MEMBERSHIP IS OPEN TO INDIVIDUALS WHO ARE INTERESTED IN
THE OBJECTS OF ACS AND WHO MEET THE REQUIREMENTS FOR MEMBERS OR STUDENT
MEMBERS, AS PROVIDED IN THE ACS CONSTITUTION AND BYLAWS. THE ACS MAY
APPROVE FOR MEMBER A PERSON WHO MEETS ANY OF THE REQUIREMENTS FOR FORMAL
TRAINING, EXPERIENCE, OR EMPLOYMENT IN A CHEMICAL SCIENCE OR IN A RELATED
FIELD OF NATURAL SCIENCE, ENGINEERING, TECHNOLOGY, OR SCIENCE EDUCATION.
NATURAL SCIENCES ARE THOSE THAT DEAL WITH MATTER, ENERGY, AND THEIR
INTERRELATIONSHIPS AND TRANSFORMATIONS.

THE ACS MAY APPROVE FOR STUDENT MEMBER, A PERSON WHO IS ACTIVELY WORKING
TOWARD AN UNDERGRADUATE DEGREE IN A CHEMICAL SCIENCE OR IN A RELATED
FIELD OF NATURAL SCIENCE, ENGINEERING, TECHNOLOGY, OR SCIENCE EDUCATION
FROM AN APPROPRIATELY ACCREDITED EDUCATIONAL INSTITUTION, OR ONE
ACCEPTABLE TO THE ACS.

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IN 2016, THE FOLLOWING CATEGORIES OF MEMBERS HAD THE RIGHT TO ELECT THE MEMBERS OF THE GOVERNING BODY OR THEIR DELEGATES:

- REGULAR MEMBER - A PERSON THAT HAS A DEGREE OR CERTIFICATION IN CHEMICAL OR RELATED SCIENCES; OR CERTIFICATION AS A TEACHER OF A CHEMICAL SCIENCE.

- UNDERGRADUATE STUDENT MEMBER - A PERSON ACTIVELY WORKING TOWARD AN UNDERGRADUATE DEGREE IN CHEMISTRY OR IN A RELATED ACADEMIC DISCIPLINE, SHALL BE ENTITLED TO A FIVE-SIXTH DISCOUNT ON DUES. AN UNDERGRADUATE STUDENT MEMBER IS ENTITLED TO ALL PRIVILEGES OF MEMBERSHIP EXCEPT THAT OF HOLDING AN ELECTIVE POSITION OF THE ACS, ITS LOCAL SECTIONS, OR ITS DIVISIONS, AND THE PRIVILEGE OF SERVING AS TEMPORARY SUBSTITUTE COUNCILOR.

LINE 7A:

DID THE ORGANIZATION HAVE MEMBERS, STOCKHOLDERS, OR OTHER PERSONS WHO HAD THE POWER TO ELECT OR APPOINT ONE OR MORE MEMBERS OF THE GOVERNING BODY?
YES.

AS DESCRIBED ON LINE 6, ACS MEMBERS, OR THEIR ELECTED MEMBER REPRESENTATIVES ("COUNCILORS") FROM ACS LOCAL SECTIONS AND DIVISIONS, ELECT ACS BOARD MEMBERS. ALL ACS MEMBERS BECOME MEMBERS OF ACS DIVISIONS AND LOCAL SECTIONS. A DIVISION IS A GROUP OF 50 OR MORE MEMBERS WITH A COMMON INTEREST IN A PARTICULAR FIELD OF SOCIETY INTEREST AUTHORIZED BY THE ACS COUNCIL. A LOCAL SECTION IS A GROUP OF 50 OR MORE MEMBERS COVERING A TERRITORY APPROVED BY THE ACS COUNCIL.

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IN 2016, THE ACS HAD 154,580 MEMBERS WHO WERE EITHER A REGULAR MEMBER OR AN UNDERGRADUATE STUDENT MEMBER, WHO ELECT THE ACS PRESIDENT-ELECT. IN ADDITION TO THE PRESIDENT-ELECT, THERE ARE TWO EX-OFFICIO VOTING MEMBERS OF THE BOARD OF DIRECTORS: THE CURRENT PRESIDENT AND THE MOST RECENT PAST PRESIDENT (BOTH ELECTED BY THE MEMBERSHIP IN PRIOR YEARS). THE SIX DISTRICT DIRECTORS, WHO ALSO SERVE ON THE ACS BOARD, ARE ELECTED BY THE MEMBERS OF THE SIX GEOGRAPHICAL DISTRICTS AS PROVIDED IN THE BYLAWS, FROM WHICH THEY ARE TO SERVE.

IN ADDITION, THE SIX DIRECTORS-AT-LARGE ARE ELECTED BY THE COUNCIL. THE ACS COUNCIL IS COMPOSED OF THE ACS PRESIDENT, THE PRESIDENT-ELECT, THE DIRECTORS, THE PAST PRESIDENTS, THE EXECUTIVE DIRECTOR, THE SECRETARY, AND THE COUNCILORS REPRESENTING ACS DIVISIONS AND LOCAL SECTIONS, ALL OF WHOM SHALL BE KNOWN AS VOTING COUNCILORS, IF MEMBERS OF THE ACS. COUNCILORS ARE ELECTED BY DIVISION AND LOCAL SECTION MEMBERS (IN 2016, ACS HAD 32 DIVISIONS AND 185 LOCAL SECTIONS). TWENTY PERCENT OF ELECTED COUNCILORS ARE ELECTED BY DIVISIONS AND 80% ARE ELECTED BY LOCAL SECTIONS.

PART VI, SECTION B - POLICIES, LINE 11B:

DESCRIBE IN SCHEDULE O THE PROCESS, IF ANY, USED BY THE ORGANIZATION TO REVIEW THIS FORM 990.

THE ACS FORM 990, INCLUDING REQUIRED SCHEDULES AND SUPPORTING DOCUMENTATION, WAS PREPARED BY THE ACS TAX COMPLIANCE AND REPORTING

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OFFICE (TAX OFFICE). A DETAILED REVIEW OF THE RETURN WAS CONDUCTED BY THE ASSISTANT DIRECTOR, FINANCIAL SERVICES, AND THE DIRECTOR OF FINANCE & ACS CONTROLLER. THE RETURN WAS THEN REVIEWED BY MEMBERS OF ACS SENIOR MANAGEMENT INCLUDING THE TREASURER & CHIEF FINANCIAL OFFICER, DIRECTOR OF HUMAN RESOURCES, DIRECTOR OF PUBLIC AFFAIRS, SECRETARY & GENERAL COUNSEL, AND EXECUTIVE DIRECTOR & CEO. IN ADDITION, THE RETURN WAS REVIEWED BY THE SOCIETY'S EXTERNAL TAX ADVISERS, KPMG LLP. PRIOR TO THE FILING OF THE RETURN WITH THE INTERNAL REVENUE SERVICE, A COPY OF THE FINAL FORM 990 AND REQUIRED SCHEDULES WAS MADE AVAILABLE TO EACH MEMBER OF THE BOARD OF DIRECTORS AND EACH MEMBER OF THE AUDIT COMMITTEE FOR THEIR REVIEW.

LINE 12C:

DID THE ORGANIZATION REGULARLY AND CONSISTENTLY MONITOR AND ENFORCE COMPLIANCE WITH THE CONFLICT OF INTEREST POLICY? YES.

IF "YES", DESCRIBE IN SCHEDULE O HOW THIS IS DONE.

PURSUANT TO ACS BOARD REGULATIONS, DIRECTORS, OFFICERS, KEY EMPLOYEES, AND MEMBERS OF TWO ACS COMMITTEES AND ONE GOVERNING BOARD (THE COMMITTEE ON BUDGET AND FINANCE, THE COMMITTEE ON EDUCATION AND THE GOVERNING BOARD FOR PUBLISHING) ARE REQUIRED TO ANNUALLY SUBMIT A COMPLETED CONFLICT OF INTEREST DISCLOSURE FORM. THE ACS SECRETARY & GENERAL COUNSEL REVIEWS EACH OF THE FORMS (EXCEPT HIS/HER OWN, WHICH IS REVIEWED BY THE EXECUTIVE DIRECTOR & CEO) AND ASSESSES WHETHER AN ACTUAL OR POTENTIAL CONFLICT OF INTEREST EXISTS/MAY EXIST AND WHETHER THE INDIVIDUAL SHOULD REFRAIN FROM CONSIDERATION OF RELATED ITEMS.

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WHENEVER ANY BUSINESS MATTER, WHICH IS TO BE CONSIDERED BY BOARD-RELATED BODIES, OFFICERS, OR KEY EMPLOYEES, INVOLVES ACTIVITIES OR INFORMATION THAT MIGHT DIRECTLY OR INDIRECTLY PLACE A PARTICIPANT IN A SPECIAL CONFLICT OF INTEREST, THEN THE AFFECTED INDIVIDUAL SHALL REFRAIN FROM PARTICIPATING IN THE CONSIDERATION OF, OR ANY VOTING UPON, SUCH MATTER.

THE ACS POLICIES AND PROCEDURES MANUAL INCLUDES A CONFLICT OF INTEREST POLICY APPLICABLE TO ALL ACS EMPLOYEES. ADDITIONALLY, ON AN ANNUAL BASIS, ACS EMPLOYEES IN KEY POSITIONS ARE REQUIRED TO READ, REAFFIRM THEIR UNDERSTANDING OF THE ACS CONFLICT OF INTEREST POLICY, AND, IF APPLICABLE, TO SUBMIT A COMPLETED CONFLICT OF INTEREST DISCLOSURE FORM. DISCLOSURE FORMS MAY BE REVIEWED BY A COMBINATION OF HUMAN RESOURCES, GENERAL COUNSEL, AND THE EMPLOYEE'S MANAGEMENT CHAIN, AS APPROPRIATE, TO DETERMINE WHETHER AN ACTUAL OR POTENTIAL CONFLICT OF INTEREST EXISTS/MAY EXIST AND HOW TO RELIEVE ANY GENUINE CONFLICT.

UNDER ACS POLICY, A CONFLICT OF INTEREST OCCURS WHEN AN EMPLOYEE PERMITS THE POSSIBILITY OF GAIN TO HIMSELF OR HIS IMMEDIATE FAMILY, OR PERMITS OTHERS TO HAVE INFLUENCE OVER HIS JUDGMENT WHEN CARRYING OUT DUTIES ON BEHALF OF THE SOCIETY. AN ACTION MAY CONSTITUTE A CONFLICT OF INTEREST WITHOUT BEING IN VIOLATION OF ANY LAWS, RULES, OR REGULATIONS. IF AN EMPLOYEE HAS QUESTIONS ABOUT OUTSIDE ACTIVITIES THAT MAY CONFLICT WITH THE SOCIETY'S INTERESTS, THE EMPLOYEE IS REQUIRED TO CONSULT WITH HUMAN RESOURCES IN WRITING AND RECEIVES A FORMAL WRITTEN RESPONSE.

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LINE 15:

DID THE PROCESS FOR DETERMINING COMPENSATION OF THE FOLLOWING PERSONS
INCLUDE A REVIEW AND APPROVAL BY INDEPENDENT PERSONS, COMPARABILITY DATA,
AND CONTEMPORANEOUS SUBSTANTIATION OF THE DELIBERATION AND DECISION?

LINE 15A: THE ORGANIZATION'S CEO, EXECUTIVE DIRECTOR, OR TOP MANAGEMENT
OFFICIAL - YES.

LINE 15B: OTHER OFFICERS OR KEY EMPLOYEES OF THE ORGANIZATION - YES

IF "YES" TO LINE 15A OR 15B, - DESCRIBE THE PROCESS IN SCHEDULE O,
- IDENTIFY THE OFFICES OR POSITIONS FOR WHICH THE PROCESS WAS USED TO
ESTABLISH COMPENSATION OF THE PERSONS WHO SERVED IN THOSE OFFICES OR
POSITIONS,
- ENTER THE YEAR IN WHICH THE PROCESS WAS LAST UNDERTAKEN FOR EACH SUCH
PERSON.

THE ACS BOARD OF DIRECTORS DETERMINES THE SALARIES AND INCENTIVE PAY OF
THE ORGANIZATION'S EXECUTIVE DIRECTOR & CEO, TOP MANAGEMENT OFFICIALS,
OTHER OFFICERS, AND KEY EMPLOYEES.

THE ACS BOARD OF DIRECTORS IS ADVISED ON THE SALARIES AND INCENTIVE
PAYMENTS FOR THE EXECUTIVE DIRECTOR & CEO, OFFICERS, TOP MANAGEMENT
OFFICIALS, AND KEY EMPLOYEES BY THE ACS COMMITTEE ON EXECUTIVE
COMPENSATION. MEMBERS OF THIS COMMITTEE INCLUDE NONPAID ACS MEMBERS -
THE ACS PRESIDENT-ELECT, THE ACS PRESIDENT, THE ACS PAST PRESIDENT, THE

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CHAIR OF THE ACS BUDGET & FINANCE COMMITTEE, AND TWO ACS MEMBERS WITH "EXPERTISE IN SENIOR AND EXECUTIVE STAFF COMPENSATION ISSUES" WHO ARE APPOINTED BY THE ACS BOARD CHAIR - AS WELL AS THE EXECUTIVE DIRECTOR & CEO WHO SERVES EX OFFICIO (NON-VOTING). THE CHAIR OF THIS COMMITTEE IS APPOINTED BY THE ACS BOARD CHAIR FROM AMONG THE COMMITTEE MEMBERS.

IN ADDITION, THE COMMITTEE ON EXECUTIVE COMPENSATION IS ADVISED ON THE SALARY AND INCENTIVE PAYMENT FOR THE EXECUTIVE DIRECTOR & CEO BY A SUBCOMMITTEE OF THE ACS BOARD'S EXECUTIVE COMMITTEE - THE COMMITTEE TO REVIEW THE EXECUTIVE DIRECTOR (CRED). MEMBERS OF THIS SUBCOMMITTEE INCLUDE THE ACS BOARD CHAIR, THE ACS PRESIDENT-ELECT, THE ACS PRESIDENT, THE ACS IMMEDIATE PAST PRESIDENT (PRESIDENTIAL SUCCESSION FROM PERFORMANCE YEAR) AND THE LONGEST TENURED BOARD MEMBER WHO IS AN ELECTED MEMBER OF THE BOARD'S EXECUTIVE COMMITTEE (FOR PERFORMANCE YEAR UNDER CONSIDERATION). THE CHAIR OF THIS SUBCOMMITTEE IS THE ACS BOARD CHAIR.

THE TOTAL CASH COMPENSATION FOR ACS'S EXECUTIVE POSITIONS IS REGULARLY BENCHMARKED AGAINST COMPARABLE EXECUTIVE POSITIONS USING INDEPENDENTLY PUBLISHED COMPENSATION SURVEY DATA AND INDEPENDENT EXECUTIVE CONSULTANTS. THESE POSITIONS HAVE BEEN BENCHMARKED ELEVEN SEPARATE TIMES BY WILLIAM M. MERCER, INC. (1994 AND 1997), KPMG PEAT MARWICK (1998), QUATT ASSOCIATES (2000, 2002, 2010, 2013, AND 2015), AON CONSULTING (2004), AND TOWERS PERRIN HR SERVICES (2006 AND 2008).

THE SALARY INCREASES AND INCENTIVE PAYMENTS FOR THE EXECUTIVE DIRECTOR &

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CEO, OFFICERS, TOP MANAGEMENT OFFICIALS, AND KEY EMPLOYEES IN 2016 WERE BASED ON THE 2015 PERFORMANCE YEAR AND WERE REVIEWED BY THE COMMITTEE ON EXECUTIVE COMPENSATION AND THE ACS BOARD. THE COMMITTEE AND BOARD VOTED ON THESE INCREASES AND INCENTIVES WHICH WERE DOCUMENTED IN THE MINUTES FROM THE COMMITTEE AND BOARD MEETINGS. THE SALARY INCREASE AND INCENTIVE PAYMENT FOR THE EXECUTIVE DIRECTOR & CEO WERE ALSO REVIEWED BY THE CRED SUBCOMMITTEE. THE WRITTEN PERFORMANCE REVIEWS AND RELATED DOCUMENTATION WERE PROVIDED TO THE COMMITTEE MEMBERS AND THE ACS BOARD OF DIRECTORS. SALARY INCREASES FOR 2016 FOR ACS EXECUTIVES WERE PROCESSED AT THE END OF THE FIRST QUARTER OF 2017.

PART VI, SECTION C - DISCLOSURE, LINE 19:

DESCRIBE IN SCHEDULE O WHETHER (AND IF SO, HOW) THE ORGANIZATION MAKES ITS GOVERNING DOCUMENTS, CONFLICT OF INTEREST POLICY, AND FINANCIAL STATEMENTS AVAILABLE TO THE PUBLIC.

THE AMERICAN CHEMICAL SOCIETY'S CHARTER, CONSTITUTION, BYLAWS, REGULATIONS, WRITTEN CONFLICT OF INTEREST POLICY CONTAINED WITHIN ITS REGULATIONS, AND AUDITED FINANCIAL STATEMENTS ARE AVAILABLE TO THE PUBLIC THROUGH THE ORGANIZATION'S WEBSITE AT [HTTPS://WWW.ACS.ORG](https://www.acs.org). THE ACS HUMAN RESOURCES POLICIES AND PROCEDURES, AVAILABLE ONLY FOR EMPLOYEES AND NOT AVAILABLE TO THE PUBLIC, INCLUDE A WRITTEN CONFLICT OF INTEREST POLICY UNDER THE CODE OF ETHICS POLICY.

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PART IX, LINE 11G: OTHER FEES FOR SERVICES:

EDITORIAL FEES	\$31,017,006
CONSULTING FEES	30,464,722
ABSTRACTING SERVICES	26,363,068
MARKETING FEES	22,269,434
OTHER PROFESSIONAL FEES	3,763,443
TEMPORARY FEES	3,251,598
HONORARIA	722,087
WRITERS FEES	578,711
ADMINISTRATIVE FEES	287,000

TOTAL OTHER FEES \$118,717,069

=====

PART XI, LINE 9

OTHER CHANGES IN NET ASSETS OR FUND BALANCES:

CHANGE IN PENSION FUNDING STATUS	\$5,432,633
GRANT REFUNDS	253,332

LINE 9, OTHER CHANGES IN NET ASSETS/FUND BALANCES \$5,685,965

=====

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ATTACHMENT 1

FORM 990, PART III - PROGRAM SERVICE, LINE 4A

INFORMATION SERVICES -

THE AMERICAN CHEMICAL SOCIETY (ACS) ACHIEVES ITS GOAL TO BE AN INDISPENSABLE PROFESSIONAL AND INFORMATION RESOURCE FOR MEMBERS AND OTHER CHEMISTRY-RELATED PRACTITIONERS THROUGH TWO PUBLISHING DIVISIONS, CHEMICAL ABSTRACTS SERVICE(CAS) AND ACS PUBLICATIONS. THESE DIVISIONS PROVIDE SIGNIFICANT SERVICES TO ACS MEMBERS AND THE GLOBAL SCIENTIFIC COMMUNITY WITH ACCURATE, TIMELY, AND AUTHORITATIVE CHEMICAL AND RELATED SCIENTIFIC INFORMATION.

THE CAS TEAM OF HIGHLY TRAINED SCIENTISTS FINDS, COLLECTS, AND ORGANIZES ALL PUBLICLY DISCLOSED SUBSTANCE INFORMATION, CREATING THE WORLD'S MOST VALUABLE COLLECTION OF CONTENT THAT IS VITAL TO INNOVATION WORLDWIDE. SCIENTIFIC RESEARCHERS, PATENT PROFESSIONALS AND BUSINESS LEADERS AROUND THE WORLD RELY ON A SUITE OF RESEARCH SOLUTIONS FROM CAS THAT ENABLE DISCOVERY AND FACILITATE WORKFLOWS TO FUEL TOMORROW'S INNOVATION.

THE CAS REGISTRY(SM) IS THE LARGEST AND MOST AUTHORITATIVE COLLECTION OF CHEMICAL SUBSTANCE INFORMATION AVAILABLE TO RESEARCHERS. IN ADDITION TO COVERING SUBSTANCES FROM JOURNALS AND PATENTS, CAS REGISTRY INCLUDES SUBSTANCES FROM CHEMICAL CATALOGS, WORLDWIDE GOVERNMENTAL REGULATORY AGENCIES AND REPUTABLE WEB RESOURCES. CAS REGISTRY NOW CONTAINS MORE THAN 130 MILLION UNIQUE ORGANIC AND INORGANIC SUBSTANCES.

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ATTACHMENT 1 (CONT'D)

CAS IS CREATING SOLUTIONS THAT IMPROVE EFFICIENCIES AND ACCELERATE SCIENTIFIC INNOVATION AROUND THE WORLD. IN 2016, CAS CONTINUED ITS EVOLUTION FROM A PUBLISHER TO A SOLUTIONS PROVIDER. IN ADDITION TO PROVIDING THE LARGEST AND HIGHEST QUALITY CONTENT, CAS ADDED NEW SOLUTIONS INTO ITS PORTFOLIO IN 2016.

-METHODSNOW® ALLOWS SCIENTISTS TO COMPARE THE LARGEST COLLECTION OF SCIENTIFIC METHODS, WITH INSTANT ACCESS TO RELIABLE AND ACTIONABLE LAB METHODS.

-CHEMZENT(TM) ALLOWS SCIENTISTS TO NAVIGATE CHEMISTRY'S EARLIEST HISTORY WITH ACCESS TO THE FIRST AND ONLY ENGLISH-SEARCHABLE VERSION OF CHEMISCHE ZENTRALBLATT, THE OLDEST JOURNAL OF CHEMISTRY ABSTRACTS COVERING THE LITERATURE FROM 1830-1969.

CAS COVERS 63 WORLDWIDE PATENT AUTHORITIES TO ENSURE COMPREHENSIVE PATENT INFORMATION WITHIN ITS DATABASES, INCLUDING MULTIPLE BASICS COVERAGE FROM ALL COVERED AUTHORITIES. SUPPLEMENTING THE DISCLOSED CHEMISTRY ADDED TO CAS DATABASES FROM DOCUMENT ANALYSIS, CHEMCATS®, THE CAS CHEMICAL CATALOGS DATABASE, HELPS RESEARCHERS MORE QUICKLY LOCATE THE CHEMICALS THEY NEED WITH DIRECT ACCESS TO HUNDREDS OF COMMERCIAL CHEMICAL SUPPLIERS.

THROUGH AN UNPARALLELED COMMITMENT TO QUALITY, RELIABILITY, AND INNOVATION, ACS PUBLICATIONS SERVES THE GLOBAL SCIENTIFIC COMMUNITY AS THE LEADING PUBLISHER OF 51 PEER-REVIEWED RESEARCH JOURNALS IN THE CHEMICAL AND RELATED SCIENCES, AND CHEMICAL &

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ATTACHMENT 1 (CONT'D)

ENGINEERING NEWS (C&EN), THE LEADING NEWS MAGAZINE OF THE CHEMICAL WORLD. THROUGH ITS JOURNALS, ACS PROVIDES THE GLOBAL SCIENTIFIC COMMUNITY WITH HIGHLY VALUED INFORMATION IN A COST-EFFECTIVE MANNER TO FOSTER SCHOLARSHIP AND DISCOVERY IN THE CHEMICAL SCIENCES AND RELATED DISCIPLINES.

LIVING UP TO THEIR REPUTATION AS "MOST TRUSTED, MOST CITED, AND MOST READ", MORE THAN 40,000 ARTICLES AUTHORED BY RESEARCH TEAMS GLOBALLY ARE SELECTED ANNUALLY FOR PUBLICATION WITHIN THE SOCIETY'S PEER-REVIEWED JOURNALS, THROUGH A RIGOROUS EDITORIAL PROCESS THAT HAS SOLIDIFIED THE SOCIETY'S PUBLISHING PORTFOLIO AS ONE OF PREEMINENCE IN TERMS OF BOTH SUBSEQUENT LITERATURE CITATIONS AND IMPACT FACTOR RANKING METRICS. ACS CENTRAL SCIENCE CONTINUED ITS PROGRESS TO BECOME THE PREEMINENT OPEN ACCESS JOURNAL IN CHEMISTRY, AND ONE OF THE MOST IMPACTFUL JOURNALS IN THE ACS PORTFOLIO. THE DIVISION CONTINUED TO STREAMLINE ECOMMERCE ABILITIES TO SUPPORT OPEN ACCESS OPTIONS AND IMPROVEMENTS ON JOURNAL HOME PAGES RAISED VISIBILITY OF ACS EDITORS' CHOICE OPEN ACCESS ARTICLES.

ACS PUBLICATIONS DELIVERED A RECORD 93.8 MILLION COUNTER-COMPLIANT DOWNLOADS OF ARTICLES TO USERS DURING 2016. READERS WORLDWIDE VIEWED 182 MILLION ABSTRACTS FROM ACROSS THE ONLINE PLATFORM. A NEW METRICS SECTION WAS INTRODUCED TO THE FEATURE DISPLAY FOR ACS JOURNAL ARTICLES PROVIDING END USERS WITH A RICHER SET OF DATA

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ATTACHMENT 1 (CONT'D)

ABOUT THE INDIVIDUAL RESEARCH ARTICLES PUBLISHED ACROSS THE ACS JOURNALS PORTFOLIO. AS OF 2016, ACS2GO, THE DIVISION'S NEW MOBILE DELIVERY CAPABILITY THAT ENABLES SUBSCRIBER ACCESS TO THE ACS PUBLICATIONS SUITE OF ELECTRONIC PRODUCTS ON SMARTPHONES AND TABLET DEVICES, HAS RESULTED IN MORE THAN 650,000 UNIQUE SMARTPHONE AND TABLET DEVICES HAVING PAIRED WITH THE ACS PUBLICATIONS WEBSITE.

THE ACS PUBLICATIONS INTERNATIONAL SYMPOSIUM SERIES WAS ESTABLISHED WITH THE INAUGURAL EVENT, INNOVATION IN MOLECULAR SCIENCE, SUCCESSFULLY LAUNCHED IN PARTNERSHIP WITH THE INSTITUTE OF CHEMISTRY, CHINESE ACADEMY OF SCIENCES IN BEIJING. THE SYMPOSIA SERIES WILL BE A PROMINENT GLOBAL FORUM TO EXPAND INTERNATIONAL ENGAGEMENT WITH ACS. ACS OMEGA BEGAN PUBLISHING IN 2016 AS THE SOCIETY'S SECOND FULLY OPEN ACCESS JOURNAL, FURTHER EXPANDING THE GLOBAL REACH OF THE ACS PUBLICATIONS PORTFOLIO ALONG WITH NEW JOURNALS ACS SENSORS AND ACS ENERGY LETTERS. ACS OMEGA ALSO BEGAN FEATURING A NEW TAXONOMIC FILTERING FEATURE, ALLOWING USERS TO QUICKLY NARROW THEIR RESULTS OF ACS OMEGA ARTICLES, PUBLISHED ACROSS A BROAD MULTIDISCIPLINARY SCOPE, TO THE DISCIPLINES AND/OR SUB DISCIPLINES OF THEIR INTEREST.

ATTACHMENT 2FORM 990, PART III - PROGRAM SERVICE, LINE 4B

EDUCATION AND MEMBERSHIP -

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ATTACHMENT 2 (CONT'D)

TEACHING AND LEARNING CHEMISTRY IN THE CONTEXT OF OUR WORLD IS A HALLMARK OF THE RESOURCES, SERVICES, AND PRODUCTS PRODUCED BY ACS. STUDENTS AND EDUCATORS KNOW THAT ACS IS SYNONYMOUS WITH QUALITY. ACS CONTINUES TO BE A LEADER IN SCIENCE EDUCATION - TO INSPIRE STUDENTS TO SEEK KNOWLEDGE AND CAREERS IN SCIENCE AND PREPARE THEM FOR THE REALITIES OF THE GLOBAL MARKETPLACE.

IN 2016, ACS REACHED OUT TO NUMEROUS ELEMENTARY AND SECONDARY SCHOOL STUDENTS IN NEW AND INNOVATIVE WAYS. ACS PROVIDED A NEW GENERATION OF UNDERGRADUATE AND GRADUATE STUDENTS WITH OPPORTUNITIES TO LEARN SKILLS THAT THEY WILL NEED TO COMPETE AND SUCCEED AS THEY MOVE FORWARD WITH THEIR CAREERS.

THE AMERICAN ASSOCIATION OF CHEMISTRY TEACHERS (AACT,) LAUNCHED IN 2014, IS THE FIRST NATIONAL, CHEMISTRY-SPECIFIC ASSOCIATION OF ITS KIND DEDICATED TO K-12 TEACHERS. AACT ENDED 2016 WITH MORE THAN 4,000 MEMBERS, 88 PERCENT OF WHOM ARE K-12 TEACHERS. IN 2016, AACT RECEIVED \$95,000 IN GRANTS TO SUPPORT THE DEVELOPMENT OF ONLINE RESOURCES. THE SECOND AND THIRD DOW & AACT TEACHER SUMMITS WERE HELD IN LOUISIANA AND TEXAS WITH OVERWHELMINGLY POSITIVE RESULTS.

ONE OF ACS'S MOST SUCCESSFUL EFFORTS, THE ACS SCHOLARS PROGRAM, CONTINUES TO HELP UNDERREPRESENTED MINORITY STUDENTS ACHIEVE THEIR DREAMS OF OBTAINING DEGREES AND CAREERS IN A BROAD RANGE OF CHEMICAL SCIENCES. IN ALL, NEARLY 2,900 AFRICAN-AMERICAN, HISPANIC/LATINO, AND NATIVE AMERICAN STUDENTS HAVE PARTICIPATED IN

Name of the organization

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53-0196572

ATTACHMENT 2 (CONT'D)

THE PROGRAM SINCE 1995. OF THOSE, 1,692 HAVE EARNED BACHELOR'S DEGREES IN A CHEMICAL SCIENCE AND MORE THAN 268 OF THESE ACS SCHOLARS HAVE GONE ON TO EARN DOCTORAL DEGREES IN CHEMISTRY, CHEMICAL ENGINEERING, OR A RELATED DISCIPLINE.

ANOTHER PREMIER PROGRAM, PROJECT SEED, OFFERS HIGH SCHOOL STUDENTS THE RARE OPPORTUNITY TO WORK IN ACADEMIC, GOVERNMENT, OR INDUSTRIAL RESEARCH LABORATORIES FOR AN EIGHT-TO-TEN WEEK TERM DURING THE SUMMER TO ENGAGE IN HANDS-ON SCIENCE RESEARCH PROJECTS UNDER THE SUPERVISION OF VOLUNTEER SCIENTISTS. IN 2016, 435 VOLUNTEER SCIENTISTS AND COORDINATORS MENTORED 414 STUDENTS IN MORE THAN 120 INSTITUTIONS IN 38 STATES, THE DISTRICT OF COLUMBIA AND PUERTO RICO. FOR THE 2016-2017 SCHOOL YEAR, ACS AWARDED 31 PROJECT SEED COLLEGE SCHOLARSHIPS TO ALUMNI ENTERING THEIR FRESHMAN YEAR IN COLLEGE. THREE PROJECT SEED COLLEGE SCHOLARS RECEIVED THE CIBA SPECIALTY CHEMICALS SCHOLARSHIPS FOR THREE-RENEWABLE YEARS BEGINNING WITH THEIR SOPHOMORE YEAR.

CHEMIDP, AN ONLINE INDIVIDUAL DEVELOPMENT PLAN TOOL LAUNCHED IN 2015 AND DESIGNED SPECIFICALLY FOR GRADUATE STUDENTS CONTINUED ITS EXPANSION IN 2016. NINE CHEMIDP WORKSHOPS WERE HELD AT BOTH THE ACS NATIONAL MEETINGS, AT REGIONAL MEETINGS, AND AT CORNELL UNIVERSITY. THE ASSOCIATED WEB TOOL WAS ENHANCED AND UPDATED TO FURTHER SERVE GRADUATE STUDENTS AND POSTDOCS IN THE CHEMICAL SCIENCES, WITH OVER 1,300 NEW USER ACCOUNTS CREATED.

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ATTACHMENT 2 (CONT'D)

IN COLLABORATION WITH THE ACS COMMITTEE ON CHEMICAL SAFETY THE EDUCATION DIVISION AND WEB STRATEGY AND OPERATIONS LAUNCHED A NEW WEBSITE WITH A RICH COLLECTION OF METHODS AND TOOLS FOR ASSESSING HAZARDS IN RESEARCH LABORATORIES. THE RESULTING SITE IS BEING USED BY EDUCATORS AS A CORE MATERIAL FOR THEIR CHEMICAL SAFETY PRACTICES. TO ASSIST EDUCATORS WITH INTEGRATING SAFETY THROUGHOUT THE ENTIRE CHEMISTRY CURRICULUM, ACS HAS ISSUED NEW GUIDELINES FOR USE IN SECONDARY SCHOOLS AND OTHER ACADEMIC INSTITUTIONS. THE GUIDELINES INCLUDE STUDENT LEARNING OUTCOME STATEMENTS WHICH CLEARLY STATE THE EXPECTED KNOWLEDGE, SKILLS, ATTITUDES AND COMPETENCIES IN THE AREA OF CHEMICAL SAFETY THAT STUDENTS ARE EXPECTED TO ACQUIRE AS THEY PROGRESS WITH THEIR EDUCATION.

ACS MEMBERSHIP AND SCIENTIFIC ADVANCEMENT(M&SA)PROGRAMS ARE ADMINISTERED WITH THE VISION THAT ACS WILL BE THE PREMIER PROFESSIONAL MEMBERSHIP ORGANIZATIONS FOR ALL PRACTITIONERS OF CHEMISTRY. AS OF DECEMBER 31,2016, THE ACS HAS MORE THAN 156,000 MEMBERS.

MEMBERSHIP PROGRAMS ARE BUILT AROUND FIVE FUNDAMENTAL OBJECTIVES:

- ADVANCE THE CHEMICAL SCIENCES AND TECHNOLOGIES THROUGH THE DELIVERY OF HIGH QUALITY PROGRAMS THAT PROVIDE CUTTING-EDGE TECHNICAL INFORMATION TO ALL PRACTITIONERS OF CHEMISTRY AND CHEMICAL ENGINEERING;
- COMMUNICATE THE VALUE OF CHEMISTRY AND CHEMICAL ENGINEERING TO

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ATTACHMENT 2 (CONT'D)

THE PUBLIC BY PROVIDING EXCELLENT VOLUNTEER-BASED PROGRAMS AND
ACTIVITIES TO MEMBERS, LOCAL SECTIONS, AND TECHNICAL DIVISIONS;

- SUPPORT A DIVERSE COMMUNITY OF CHEMICAL PROFESSIONALS THROUGH
VALUE-BASED PROGRAMS, SERVICES, AND INFORMATION THAT ALLOW
CHEMICAL PRACTITIONERS TO DEVELOP AND MANAGE THEIR CAREERS IN A
GLOBAL ENVIRONMENT;
- ADVANCE THE FRONTIERS OF SCIENCE IN MULTIDISCIPLINARY,
INTERNATIONAL CONTEXT; ENSURE ADVANCES IN SCIENTIFIC KNOWLEDGE AND
EDUCATION BENEFIT THE GLOBAL SCIENTIFIC COMMUNITY; AND TO FOSTER A
LIFELONG CONNECTION AMONG INTERNATIONAL CHEMICAL PROFESSIONALS TO
ACS; AND
- ADVANCE THE IMPLEMENTATION OF GREEN CHEMISTRY AND ENGINEERING
PRINCIPLES INTO ALL ASPECTS OF THE GLOBAL CHEMISTRY ENTERPRISE.

IN 2016, THE ACS HELD TWO NATIONAL AND SEVEN REGIONAL MEETINGS.
MORE THAN 29,000 PEOPLE ATTENDED THE ACS NATIONAL MEETINGS AND
MORE THAN 21,000 SCIENTIFIC PAPERS WERE DELIVERED. ACS
FACILITATED THE ORGANIZATION OF SEVEN REGIONAL MEETINGS WHICH
ATTRACTED MORE THAN 6,000 ATTENDEES AND HAD MORE THAN 4,000
SCIENTIFIC PAPERS.

MEMBERSHIP CONTINUED TO EXTEND ITS MULTIMEDIA BROADCAST PROGRAM
WITH TWO "PROGRAM IN A BOX" EVENTS. THESE BROADCASTS HELPED LOCAL
SECTIONS AND STUDENT CHAPTERS NATIONWIDE HOST ONSITE/ONLINE EVENTS
FEATURING HIGH-VALUE ONLINE CONTENT, INTERACTIVE SOCIAL MEDIA AND
A READY-TO-USE KIT TO ENGAGE MEMBERS AND FACILITATE THEIR LEARNING

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ATTACHMENT 2 (CONT'D)

AND NETWORKING. IN 2016, APPROXIMATELY 300 LOCAL SECTIONS, STUDENT CHAPTERS, AND CHEMCLUBS PARTICIPATED IN THE "PROGRAM IN A BOX" EVENTS, AN INCREASE OF 40 OVER 2015 (WHICH HAD ABOUT 260 PARTICIPATING GROUPS).

THE ACS OFFICE OF INTERNATIONAL ACTIVITIES (OIA) ORGANIZED A NUMBER OF KEY ACTIVITIES IN 2016, ADVANCING CHEMISTRY AND THE SOCIETY'S COMMITMENT TO "COOPERATE WITH SCIENTISTS INTERNATIONALLY AND BE CONCERNED WITH THE WORLDWIDE APPLICATION OF CHEMISTRY TO THE NEEDS OF HUMANITY". IN SO DOING, ACS DEVELOPED NEW INTERNATIONAL CHAPTERS AND ALLIANCES AND ADVANCED SCIENCE AND HUMAN RIGHTS.

THE ACS CAREER NAVIGATOR CONTINUES TO PROVIDE MEMBERS AND OTHER CHEMISTRY-RELATED PROFESSIONALS WITH A ONE-STOP-SHOP OF KEY RESOURCES TO HELP THEM SUCCEED IN THE GLOBAL CHEMISTRY ENTERPRISE WITH ALL STAGES OF THEIR CAREERS. ACS CAREER NAVIGATOR SEAMLESSLY COMBINES THE OFFERING OF ACS CAREER SERVICES, PROFESSIONAL EDUCATION, LEADERSHIP DEVELOPMENT, AND MARKET INTELLIGENCE INTO A SINGLE, UNIFIED EXPERIENCE FOR ACS MEMBERS AND POTENTIAL MEMBERS. IN 2016, THE ACS CAREER NAVIGATOR ACHIEVED MORE THAN 8,500 SUBSTANTIAL INTERACTIONS WORLDWIDE WITH ACS MEMBERS AND POTENTIAL MEMBERS TO MEET THEIR PROFESSIONAL NEEDS.

IN 2016, INCREASED FOCUS WAS PLACED ON RETAINING AND ATTRACTING INDUSTRY MEMBERS, INCLUDING NEW CONTENT, GLOBAL EVENTS AND

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ATTACHMENT 2 (CONT'D)

OUTREACH EFFORTS TO INDUSTRIAL SCIENTISTS AND THEIR EMPLOYERS.

TOPICAL INNOVATION CONFERENCES WERE ORGANIZED WITH LOCAL CHAPTERS IN FOREIGN COUNTRIES DRAWING MORE THAN 600 PARTICIPANTS, HIGH SATISFACTION, AND NEW ACS MEMBERS. A PILOT WORKSHOP WAS ORGANIZED ON INDUSTRY-UNIVERSITY PARTNERSHIP AT THE SOUTHWEST REGIONAL MEETING IN GALVESTON, TEXAS.

THE ACS GREEN CHEMISTRY INSTITUTE® SERVES AS A NEXUS, OR GREEN CHEMISTRY "HUB," BY CONNECTING AN INTERNATIONAL NETWORK OF PRACTITIONERS FROM AROUND THE WORLD, INCLUDING GOVERNMENT, INDUSTRIAL, ACADEMIC, NON-GOVERNMENTAL ORGANIZATIONS, AND PRIVATE SECTORS. THE ACS GCI ACCOMPLISHES THIS THROUGH PROGRAMS IN SCIENCE AND RESEARCH, EDUCATION AND INDUSTRY. THE 20TH ANNUAL GREEN CHEMISTRY AND ENGINEERING CONFERENCE WAS A NOTABLE SUCCESS, ATTRACTING 534 PARTICIPANTS. WORK IN EDUCATION MOVED FORWARD THROUGH A GREEN CHEMISTRY EDUCATIONAL ROADMAP INITIATIVE AND INCLUDED A WORKSHOP TO BRING TOGETHER LEADING GREEN CHEMISTRY PRACTITIONERS TO ADVANCE THE ROADMAP. WORK WITH INDUSTRIAL ROUNDTABLES WAS EXPANDED THROUGH THE LAUNCH OF A NEW BIOCHEMICAL TECHNOLOGY LEADERSHIP ROUNDTABLE WHICH SEEKS TO PROMOTE NON-COMPETITIVE SCIENCE-BASED COLLABORATION THROUGHOUT THE BIO-BASED AND RENEWABLE CHEMICALS VALUE CHAIN.

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ATTACHMENT 3

FORM 990, PART III - PROGRAM SERVICE, LINE 4C

ACS PETROLEUM RESEARCH FUND -

THE ACS PETROLEUM RESEARCH FUND IS A PERMANENTLY RESTRICTED
ENDOWMENT ESTABLISHED TO PROVIDE RESOURCES FOR ADVANCED SCIENTIFIC
EDUCATION AND FUNDAMENTAL RESEARCH IN THE PETROLEUM FIELD, WHICH
MAY INCLUDE ANY FIELD OF PURE SCIENCE WHICH AFFORDS A BASIS FOR
SUBSEQUENT RESEARCH DIRECTLY CONNECTED WITH THE PETROLEUM FIELD.

IN 2016, THE ACS PRF FUNDED 202 GRANTS, TOTALING \$20.2 MILLION.
THE GRANTS INCLUDED 78 NEW DIRECTIONS GRANTS; 82 DOCTORAL NEW
INVESTIGATOR GRANTS; 20 UNDERGRADUATE RESEARCH GRANTS; AND 22
UNDERGRADUATE NEW INVESTIGATOR GRANTS. SIR J. FRASER STODDART OF
NORTHWESTERN UNIVERSITY BECAME THE 29TH NOBLE LAUREATE WITH
PREVIOUS PRF SUPPORT.

THE FOLLOWING TYPES OF GRANTS ARE AMONG THOSE FUNDED BY THE ACS
PETROLEUM RESEARCH FUND:

- RESEARCH GRANTS FOR FUNDAMENTAL RESEARCH IN THE PETROLEUM FIELD
AT PHD-GRANTING INSTITUTIONS. RESEARCH GRANTS TO ACADEMIC
INSTITUTIONS FOR REGULARLY APPOINTED FACULTY SCIENTISTS AND
ENGINEERS TO ASSIST ADVANCED SCIENTIFIC EDUCATION AND FUNDAMENTAL
RESEARCH.

- RESEARCH GRANTS FOR FUNDAMENTAL RESEARCH IN THE PETROLEUM FIELD

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ATTACHMENT 3 (CONT'D)

AT THE UNDERGRADUATE LEVEL. RESEARCH GRANTS TO ACADEMIC INSTITUTIONS ON BEHALF OF FACULTY MEMBERS IN DEPARTMENTS NOT OFFERING A DOCTORAL DEGREE, TO SUPPORT THEIR RESEARCH WITH PARTICIPATION BY UNDERGRADUATES.

- RESEARCH GRANTS FOR FUNDAMENTAL RESEARCH IN THE PETROLEUM FIELD FOR NEW FACULTY.

- STARTER GRANTS TO ASSIST THE RESEARCH OF YOUNG FACULTY MEMBERS WITH A PHD DEGREE WHO ARE WITHIN THEIR FIRST THREE YEARS OF THEIR FIRST ACADEMIC APPOINTMENT AS REGULAR FACULTY MEMBERS OF COLLEGES AND UNIVERSITIES IN THE UNITED STATES.

ATTACHMENT 4FORM 990, PART VI, LINE 17 - STATES

AL,AK,AR,CA,CT,
FL,GA,HI,IL,KS,KY,MD,MA,MI,
MN,MS,NH,NJ,NM,NY,NC,OR,PA,
RI,SC,TN,UT,VA,WV,WI,

ATTACHMENT 5990, PART VII- COMPENSATION OF THE FIVE HIGHEST PAID IND. CONTRACTORS

<u>NAME AND ADDRESS</u>	<u>DESCRIPTION OF SERVICES</u>	<u>COMPENSATION</u>
QUATRO GLOBAL SERVICES PVT. LTD. 119, UDYOG VIHAR, PHASE 1 122016 GURGAON INDIA	DATABASE SERVICES	6,794,280.

Name of the organization	Employer identification number
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ATTACHMENT 5 (CONT'D)	

990, PART VII- COMPENSATION OF THE FIVE HIGHEST PAID IND. CONTRACTORS

<u>NAME AND ADDRESS</u>	<u>DESCRIPTION OF SERVICES</u>	<u>COMPENSATION</u>
INFORMATION CONTROL CORP. 2500 CORPORATE EXCHANGE DRIVE, STE 310 COLUMBUS, OH 43231	IT CONTRACTING SVCS	6,483,127.
MOLECULAR CONNECTIONS #2/2 KARIAPPA ROAD 560004 BANGALORE INDIA	ABSTRACTING SERVICES	5,906,858.
JAICI 6-25-4 HONKOMAGOMA, BUNKYO-KU 113 TOKYO JAPAN	ABSTRACTING & SALES	5,732,551.
PILLAR TECHNOLOGY 580 NORTH 4TH STREET COLUMBUS, OH 43215	IT CONTRACTING SVCS	5,250,492.

**SCHEDULE R
(Form 990)**Department of the Treasury
Internal Revenue Service

Name of the organization

AMERICAN CHEMICAL SOCIETY

Related Organizations and Unrelated Partnerships

► Complete if the organization answered "Yes" on Form 990, Part IV, line 33, 34, 35b, 36, or 37.

► Attach to Form 990.

► Information about Schedule R (Form 990) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016**Open to Public
Inspection**

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Part I Identification of Disregarded Entities. Complete if the organization answered "Yes" on Form 990, Part IV, line 33.

(a) Name, address, and EIN (if applicable) of disregarded entity	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Total income	(e) End-of-year assets	(f) Direct controlling entity
(1)					
(2)					
(3)					
(4)					
(5)					
(6)					

Part II Identification of Related Tax-Exempt Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34 because it had one or more related tax-exempt organizations during the tax year.

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Exempt Code section	(e) Public charity status (if section 501(c)(3))	(f) Direct controlling entity	(g) Section 512(b)(13) controlled entity?	
						Yes	No
(1)							
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule R (Form 990) 2016

Part III Identification of Related Organizations Taxable as a Partnership Complete if the organization answered "Yes" on Form 990, Part IV, line 34 because it had one or more related organizations treated as a partnership during the tax year.

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Direct controlling entity	(e) Predominant income (related, unrelated, excluded from tax under sections 512-514)	(f) Share of total income	(g) Share of end-of- year assets	(h) Disproportionate allocations?		(i) Code V - UBI amount in box 20 of Schedule K-1 (Form 1065)	(j) General or managing partner?		(k) Percentage ownership
							Yes	No		Yes	No	
(1)												
(2)												
(3)												
(4)												
(5)												
(6)												
(7)												

Part IV Identification of Related Organizations Taxable as a Corporation or Trust. Complete if the organization answered "Yes" on Form 990, Part IV, line 34 because it had one or more related organizations treated as a corporation or trust during the tax year.

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Direct controlling entity	(e) Type of entity (C corp, S corp, or trust)	(f) Share of total income	(g) Share of end-of-year assets	(h) Percentage ownership	(i) Section 512(b)(13) controlled entity?	
								Yes	No
(1) ACS INTERNATIONAL, LTD. 52-1916157 1155 16TH ST, NW WASHINGTON, DC 20036	MARKETING	DC	ACS	C CORP	11,521,093.	4,913,048.	100.0000	x	
(2) HAMPDEN DATA SERVICES, LTD 98-1040114 32A STONEY ST. NOTTINGHAM, UK NG1 1LL	SOFTWARE DVLP	UK	ACS	C CORP	1,525,728.	361,816.	100.0000	x	
(3) ACS GROUP LIFE INSURANCE TRUST 23-7093797 1155 16TH ST, NW WASHINGTON, DC 20036	INSURANCE	DC	ACS	GRANTOR TRUST	16,747,710.	49,681,268.	100.0000	x	
(4)									
(5)									
(6)									
(7)									

Part V Transactions With Related Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, 35b, or 36.**Note:** Complete line 1 if any entity is listed in Parts II, III, or IV of this schedule.

	Yes	No
1 During the tax year, did the organization engage in any of the following transactions with one or more related organizations listed in Parts II-IV?		
a Receipt of (i) interest, (ii) annuities, (iii) royalties, or (iv) rent from a controlled entity	1a	X
b Gift, grant, or capital contribution to related organization(s)	1b	X
c Gift, grant, or capital contribution from related organization(s)	1c	X
d Loans or loan guarantees to or for related organization(s)	1d	X
e Loans or loan guarantees by related organization(s)	1e	X
f Dividends from related organization(s)	1f	X
g Sale of assets to related organization(s)	1g	X
h Purchase of assets from related organization(s)	1h	X
i Exchange of assets with related organization(s)	1i	X
j Lease of facilities, equipment, or other assets to related organization(s)	1j	X
k Lease of facilities, equipment, or other assets from related organization(s)	1k	X
l Performance of services or membership or fundraising solicitations for related organization(s)	1l	X
m Performance of services or membership or fundraising solicitations by related organization(s)	1m	X
n Sharing of facilities, equipment, mailing lists, or other assets with related organization(s)	1n	X
o Sharing of paid employees with related organization(s)	1o	X
p Reimbursement paid to related organization(s) for expenses	1p	X
q Reimbursement paid by related organization(s) for expenses	1q	X
r Other transfer of cash or property to related organization(s)	1r	X
s Other transfer of cash or property from related organization(s)	1s	X
2 If the answer to any of the above is "Yes," see the instructions for information on who must complete this line, including covered relationships and transaction thresholds.		

(a) Name of related organization	(b) Transaction type (a-s)	(c) Amount involved	(d) Method of determining amount involved
(1) ACS INTERNATIONAL, LTD.	M	12,183,732.	FMV
(2) HAMPDEN DATA SERVICES, LTD.	M	1,717,295.	FMV
(3) ACS GROUP LIFE INSURANCE TRUST	L	639,968.	FMV
(4) ACS GROUP LIFE INSURANCE TRUST	S	200,000.	FMV
(5)			
(6)			

Part VI **Unrelated Organizations Taxable as a Partnership.** Complete if the organization answered "Yes" on Form 990, Part IV, line 37.

Provide the following information for each entity taxed as a partnership through which the organization conducted more than five percent of its activities (measured by total assets or gross revenue) that was not a related organization. See instructions regarding exclusion for certain investment partnerships.

(a) Name, address, and EIN of entity	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Predominant income (related, unrelated, excluded from tax under sections 512-514)	(e) Are all partners section 501(c)(3) organizations?		(f) Share of total income	(g) Share of end-of-year assets	(h) Disproportionate allocations?		(i) Code V - UBI amount in box 20 of Schedule K-1 (Form 1065)	(j) General or managing partner?		(k) Percentage ownership
				Yes	No			Yes	No		Yes	No	
(1)													
(2)													
(3)													
(4)													
(5)													
(6)													
(7)													
(8)													
(9)													
(10)													
(11)													
(12)													
(13)													
(14)													
(15)													
(16)													

Part VII **Supplemental Information**

Provide additional information for responses to questions on Schedule R. See instructions.

PART IV, LINE 3:

ACS GROUP LIFE INSURANCE TRUST (EIN: 23-7093797) IS A WHOLLY-OWNED
GRANTOR TRUST AND, AS SUCH, IS NOT CONSIDERED A SEPARATE TAXABLE ENTITY.
ALL ACTIVITIES OF THE TRUST ARE CONSOLIDATED WITH THE TAX RETURNS OF THE
AMERICAN CHEMICAL SOCIETY FOR TAX PURPOSES.