

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2022 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022	
A	This return/report is for: ☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) _____
B	This return/report is: ☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C	If the plan is a collectively-bargained plan, check here. ▶ ☐
D	Check box if filing under: ☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)
E	If this is a retroactively adopted plan permitted by SECURE Act section 201, check here. ▶ ☐

Part II	Basic Plan Information—enter all requested information		
1a	Name of plan AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN	1b	Three-digit plan number (PN) ▶ 001
		1c	Effective date of plan 01/01/1976
2a	Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) AMERICAN PHYSICAL SOCIETY ONE PHYSICS ELLIPSE COLLEGE PARK, MD 20740	2b	Employer Identification Number (EIN) 13-1656610
		2c	Plan Sponsor's telephone number 301-209-3200
		2d	Business code (see instructions) 611000

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	10/10/2023	SANDRA WELDON
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE	Filed with authorized/valid electronic signature.	10/10/2023	JANE HOPKINS GOULD
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

3a Plan administrator's name and address ☒ Same as Plan Sponsor		3b Administrator's EIN
		3c Administrator's telephone number
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name		4b EIN 4d PN
5 Total number of participants at the beginning of the plan year		5 582
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).		
a(1) Total number of active participants at the beginning of the plan year		6a(1) 282
a(2) Total number of active participants at the end of the plan year		6a(2) 315
b Retired or separated participants receiving benefits		6b 0
c Other retired or separated participants entitled to future benefits.....		6c 296
d Subtotal. Add lines 6a(2) , 6b , and 6c		6d 611
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.		6e 9
f Total. Add lines 6d and 6e		6f 620
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item).....		6g 607
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....		6h 1
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)		7
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 2F 2G 2L 2M 2T		
b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:		
9a Plan funding arrangement (check all that apply) (1) ☒ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☒ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	
10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)		
a Pension Schedules (1) ☒ R (Retirement Plan Information) (2) ☐ MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary (3) ☐ SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary	b General Schedules (1) ☒ H (Financial Information) (2) ☐ I (Financial Information – Small Plan) (3) ☒ 1 A (Insurance Information) (4) ☒ C (Service Provider Information) (5) ☒ D (DFE/Participating Plan Information) (6) ☐ G (Financial Transaction Schedules)	

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2022 Form M-1 annual report. If the plan was not required to file the 2022 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE A (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Insurance Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500. ▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN	B Three-digit plan number (PN) ▶ 001	
C Plan sponsor's name as shown on line 2a of Form 5500 AMERICAN PHYSICAL SOCIETY	D Employer Identification Number (EIN) 13-1656610	

Part I	Information Concerning Insurance Contract Coverage, Fees, and Commissions	Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.
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1 Coverage Information:

(a) Name of insurance carrier TIAA-CREF

(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
13-1624203	69345	150649	397	01/01/2022	12/31/2022

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.
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(a) Total amount of commissions paid	(b) Total amount of fees paid
0	0

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid
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(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid
--

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4	Current value of plan's interest under this contract in the general account at year end.....	4	29387169
5	Current value of plan's interest under this contract in separate accounts at year end.....	5	53004527

6 Contracts With Allocated Funds:**a** State the basis of premium rates ▶

b	Premiums paid to carrier	6b	
c	Premiums due but unpaid at the end of the year	6c	
d	If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount..... Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity
(3) ☐ other (specify) ▶

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ☐**7** Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee
(3) ☒ guaranteed investment (4) ☐ other ▶

b	Balance at the end of the previous year	7b	28245796
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c	Additions: (1) Contributions deposited during the year	7c(1)	242666	
	(2) Dividends and credits	7c(2)		
	(3) Interest credited during the year	7c(3)	1148571	
	(4) Transferred from separate account	7c(4)	1202350	
	(5) Other (specify below)	7c(5)	14053	

▶ MISCELLANEOUS CREDITS, INCLUDING INVESTMENT GAINS AND TRANSFERS FROM FULLY ALLOCATED CONTRACTS

(6) Total additions	7c(6)	2607640
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d	Total of balance and additions (add lines 7b and 7c(6))	7d	30853436
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e Deductions:

e	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)	1132728	
	(2) Administration charge made by carrier	7e(2)	3832	
	(3) Transferred to separate account	7e(3)	329274	
	(4) Other (specify below)	7e(4)	433	

▶ MISCELLANEOUS DEBITS, INCLUDING INVESTMENT LOSSES AND TRANSFERS TO FULLY ALLOCATED CONTRACTS

(5) Total deductions	7e(5)	1466267
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f	Balance at the end of the current year (subtract line 7e(5) from line 7d)	7f	29387169
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Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- a** ☐ Health (other than dental or vision)
b ☐ Dental
c ☐ Vision
d ☐ Life insurance
e ☐ Temporary disability (accident and sickness)
f ☐ Long-term disability
g ☐ Supplemental unemployment
h ☐ Prescription drug
i ☐ Stop loss (large deductible)
j ☐ HMO contract
k ☐ PPO contract
l ☐ Indemnity contract
m ☐ Other (specify) ▶

9 Experience-rated contracts:

a Premiums: (1) Amount received	9a(1)		
(2) Increase (decrease) in amount due but unpaid	9a(2)		
(3) Increase (decrease) in unearned premium reserve.....	9a(3)		
(4) Earned ((1) + (2) - (3)).....		9a(4)	
b Benefit charges (1) Claims paid.....	9b(1)		
(2) Increase (decrease) in claim reserves	9b(2)		
(3) Incurred claims (add (1) and (2)).....		9b(3)	
(4) Claims charged		9b(4)	
c Remainder of premium: (1) Retention charges (on an accrual basis) --			
(A) Commissions	9c(1)(A)		
(B) Administrative service or other fees	9c(1)(B)		
(C) Other specific acquisition costs.....	9c(1)(C)		
(D) Other expenses	9c(1)(D)		
(E) Taxes	9c(1)(E)		
(F) Charges for risks or other contingencies	9c(1)(F)		
(G) Other retention charges.....	9c(1)(G)		
(H) Total retention.....		9c(1)(H)	
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)		9c(2)	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement.....		9d(1)	
(2) Claim reserves		9d(2)	
(3) Other reserves		9d(3)	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line 9c(2).).....		9e	

10 Nonexperience-rated contracts:

a Total premiums or subscription charges paid to carrier	10a	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount.	10b	

Specify nature of costs.

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2022
		This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 AMERICAN PHYSICAL SOCIETY	D Employer Identification Number (EIN) 13-1656610	

Part I

Service Provider Information (see instructions)

You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1

Information on Persons Receiving Only Eligible Indirect Compensation

- a

Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions).....

☒ Yes

☐ No
- b

If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b)

Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

TIAA

13-1624203

(b)

Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b)

Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

WHARTON HILL ADVISORS

47-1411118

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
50	NONE	49734	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

TIAA

13-1624203

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
15 17 27 28 38 50 52 54 64 66	NONE	39626	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

SCHEDULE D (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration	DFE/Participating Plan Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection.
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For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN	B Three-digit plan number (PN) ►	001
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 AMERICAN PHYSICAL SOCIETY	D Employer Identification Number (EIN) 13-1656610	

Part I	Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)
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a Name of MTIA, CCT, PSA, or 103-12 IE: TIAA REAL ESTATE		
b Name of sponsor of entity listed in (a): TIAA-CREF		
c EIN-PN 13-1624203-004	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 5140756
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
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103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
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103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)

Part II Information on Participating Plans (to be completed by DFEs)

(Complete as many entries as needed to report all participating plans)

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
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plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
	For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022	
	A Name of plan AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN	B Three-digit plan number (PN) ► 001
C Plan sponsor's name as shown on line 2a of Form 5500 AMERICAN PHYSICAL SOCIETY	D Employer Identification Number (EIN) 13-1656610	

Part I Asset and Liability Statement			
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.			
Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash.....	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....	1b(1)		
(2) Participant contributions.....	1b(2)		
(3) Other.....	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....	1c(1)		
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common.....	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property)	1c(6)		
(7) Loans (other than to participants).....	1c(7)		
(8) Participant loans.....	1c(8)	238146	260923
(9) Value of interest in common/collective trusts.....	1c(9)		
(10) Value of interest in pooled separate accounts	1c(10)	5042549	5140756
(11) Value of interest in master trust investment accounts.....	1c(11)		
(12) Value of interest in 103-12 investment entities	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	95923741	79237022
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)	28245796	29387169
(15) Other	1c(15)		

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)		
(2) Employer real property	1d(2)		
e Buildings and other property used in plan operation	1e		
f Total assets (add all amounts in lines 1a through 1e)	1f	129450232	114025870

Liabilities

g Benefit claims payable	1g		
h Operating payables	1h		
i Acquisition indebtedness	1i		
j Other liabilities	1j		
k Total liabilities (add all amounts in lines 1g through 1j)	1k	0	0

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	129450232	114025870
---	-----------	-----------	-----------

Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income

		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	2004610	
(B) Participants	2a(1)(B)	2082767	
(C) Others (including rollovers)	2a(1)(C)	126264	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		4213641
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)		
(B) U.S. Government securities	2b(1)(B)		
(C) Corporate debt instruments	2b(1)(C)		
(D) Loans (other than to participants)	2b(1)(D)		
(E) Participant loans	2b(1)(E)	14613	
(F) Other	2b(1)(F)	1148571	
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		1163184
(2) Dividends: (A) Preferred stock	2b(2)(A)		
(B) Common stock	2b(2)(B)		
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	1121572	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		1121572
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		0
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		0

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		416614
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities.....	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		-18820313
c Other income	2c		38851
d Total income. Add all income amounts in column (b) and enter total	2d		-11866451
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	3215042	
(2) To insurance carriers for the provision of benefits	2e(2)	253508	
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		3468550
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)		
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)	49734	
(4) Other	2i(4)	39627	
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		89361
j Total expenses. Add all expense amounts in column (b) and enter total	2j		3557911
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d	2k		-15424362
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☐ Unmodified (2) ☐ Qualified (3) ☒ Disclaimer (4) ☐ Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) ☒ DOL Regulation 2520.103-8 (2) ☐ DOL Regulation 2520.103-12(d) (3) ☐ neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: CLIFTONLARSONALLEN LLP

(2) EIN: 41-0746749

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.)

	Yes	No	Amount
4a	X		10

	Yes	No	Amount
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)			
4b		X	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)			
4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)			
4d		X	
e Was this plan covered by a fidelity bond?	X		500000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
4i	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)			
4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?			
4k		X	
l Has the plan failed to provide any benefit when due under the plan?			
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
4m		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			
4n			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☐ Yes ☐ No ☐ Not determined

If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year _____.

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection.
For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN		B Three-digit plan number (PN) ► 001
C Plan sponsor's name as shown on line 2a of Form 5500 AMERICAN PHYSICAL SOCIETY		D Employer Identification Number (EIN) 13-1656610
Part I	Distributions	
All references to distributions relate only to payments of benefits during the plan year.		
1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions.....		1 0
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): 82-2826183		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year.....		3
Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)	
4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ☐ Yes ☐ No ☐ N/A If the plan is a defined benefit plan, go to line 8.		
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.		
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived).....		6a
b Enter the amount contributed by the employer to the plan for this plan year.....		6b
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount).....		6c
If you completed line 6c, skip lines 8 and 9.		
7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ☐ Yes ☐ No ☐ N/A		
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ☐ Yes ☐ No ☐ N/A		
Part III	Amendments	
9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box..... ☐ Increase ☐ Decrease ☐ Both ☐ No		
Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.	
10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?..... ☐ Yes ☐ No		
11 a Does the ESOP hold any preferred stock?..... ☐ Yes ☐ No		
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.)..... ☐ Yes ☐ No		
12 Does the ESOP hold any stock that is not readily tradable on an established securities market?..... ☐ Yes ☐ No		
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.		
Schedule R (Form 5500) 2022 v. 220413		

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that (1) contributed more than 5% of total contributions to the plan during the plan year or (2) was one of the top-ten highest contributors (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

14	Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:	
a	The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment).....	14a
b	The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14b
c	The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14c
15	Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:	
a	The corresponding number for the plan year immediately preceding the current plan year.....	15a
b	The corresponding number for the second preceding plan year.....	15b
16	Information with respect to any employers who withdrew from the plan during the preceding plan year:	
a	Enter the number of employers who withdrew during the preceding plan year	16a
b	If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers.....	16b
17	If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐	

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

18 If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐

19 If the total number of participants is 1,000 or more, complete lines (a) through (c)

a Enter the percentage of plan assets held as:
 Stock: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____%

b Provide the average duration of the combined investment-grade and high-yield debt:
☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more

c What duration measure was used to calculate line 19(b)?
☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify): _____

20 PBGC missed contribution reporting requirements. If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20.

a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☐ No

b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:

☐ Yes.

☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date.

☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date.

☐ No. Other. Provide explanation _____

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN**

**FINANCIAL STATEMENTS AND
ERISA-REQUIRED SUPPLEMENTAL SCHEDULES**

**AS OF DECEMBER 31, 2022 AND 2021 AND
FOR THE YEAR ENDED DECEMBER 31, 2022**



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**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
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AS OF DECEMBER 31, 2022 AND 2021 AND
FOR THE YEAR ENDED DECEMBER 31, 2022**

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INDEPENDENT AUDITORS' REPORT

Plan Administrator and Investment Committee
American Physical Society Defined Contribution
and Tax Deferred Annuity Retirement Plan
College Park, Maryland

Report on the Audit of the Financial Statements

Scope and Nature of the ERISA Section 103(a)(3)(C) Audit

We have performed audits of the accompanying financial statements of American Physical Society Defined Contribution and Tax Deferred Annuity Retirement Plan, an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), as permitted by ERISA Section 103(a)(3)(C) (ERISA Section 103(a)(3)(C) audit). The financial statements comprise the statement of net assets available for benefits as of December 31, 2022 and 2021, and the related statement of changes in net assets available for benefits for the year ended December 31, 2022, and the related notes to the financial statement.

Management, having determined it is permissible in the circumstances, has elected to have the audits of American Physical Society Defined Contribution and Tax Deferred Annuity Retirement Plan's financial statements performed in accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. As permitted by ERISA Section 103(a)(3)(C), our audit need not extend to any statements or information related to assets held for investment of the plan (investment information) by a bank or similar institution or insurance carrier that is regulated, supervised, and subject to periodic examination by a state or federal agency, provided that the statements or information regarding assets so held are prepared and certified to by the bank or similar institution or insurance carrier in accordance with 29 CFR 2520.103-5 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA (qualified institution).

Management has obtained certifications from a qualified institution as of December 31, 2022 and 2021, and for the year ended December 31, 2022, stating that the certified investment information, as described in Note 3 to the financial statements, is complete and accurate.

Disclaimer of Opinion on the Financial Statements

We do not express an opinion on the financial statements referred to above of American Physical Society Defined Contribution and Tax Deferred Annuity Retirement Plan. Because of the significance of the matters described in the Basis for Disclaimer of Opinion for the Financial Statements section of our report, we have not been able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion on the financial statements.

Plan Administrator and Investment Committee
American Physical Society Defined Contribution
and Tax Deferred Annuity Retirement Plan

Basis for Disclaimer of Opinion

American Physical Society Defined Contribution and Tax Deferred Annuity Retirement Plan has not maintained sufficient accounting records and supporting documents relating to certain annuity contracts and custodial accounts issued to current and former employees prior to January 1, 2009. Accordingly, we were unable to apply auditing procedures sufficient to determine the extent to which the financial statements referred to above may have been affected by these conditions.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error. Management's election of the ERISA Section 103(a)(3)(C) audit does not affect management's responsibility for the financial statements.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about American Physical Society Defined Contribution and Tax Deferred Annuity Retirement Plan's ability to continue as a going concern for one year after the date that the financial statements are available to be issued.

Management is also responsible for maintaining a current plan instrument, including all plan amendments, administering the plan, and determining that the plan's transactions that are presented and disclosed in the financial statements are in conformity with the plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditors' Responsibilities for the Audit of the Financial Statements

Our responsibility is to conduct an audit of American Physical Society Defined Contribution and Tax Deferred Annuity Retirement Plan's financial statements in accordance with auditing standards generally accepted in the United States of America and to issue an auditors' report. However, because of the matters described in the *Basis for Disclaimer of Opinion on the Financial Statements* section of our report, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion on these financial statements.

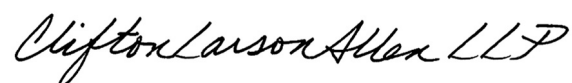
We are required to be independent of American Physical Society Defined Contribution and Tax Deferred Annuity Retirement Plan and to meet our other ethical responsibilities in accordance with the relevant ethical requirements relating to our audit.

Plan Administrator and Investment Committee
American Physical Society Defined Contribution
and Tax Deferred Annuity Retirement Plan

Other Matters

Supplemental Schedules Required by ERISA

The supplemental schedules of delinquent participant contributions and schedule of assets (held at end of year) as of and for the year ended December 31, 2022 are presented for purposes of additional analysis and are not a required part of the financial statements but are supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. Because of the significance of the matters described in the *Basis for Disclaimer of Opinion for the Financial Statements* section of our report, it is inappropriate to and we do not express an opinion on the supplemental schedules.

A handwritten signature in black ink that reads "CliftonLarsonAllen LLP". The signature is written in a cursive, flowing style.

CliftonLarsonAllen LLP

King of Prussia, Pennsylvania
October 4, 2023

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS
DECEMBER 31, 2022 AND 2021**

	<u>2022</u>	<u>2021</u>
ASSETS		
INVESTMENTS (at Fair Value)		
Mutual Funds	\$ 34,907,503	\$ 34,447,773
Sub-Accounts of Variable Annuities	44,329,519	61,475,968
Pooled Separate Account	5,140,756	5,042,549
Insurance Company General Account - Nonbenefit Responsive-TIAA	<u>23,983,722</u>	<u>23,136,457</u>
Total Investments at Fair Value	108,361,500	124,102,747
INVESTMENTS (at Contract Value)		
Insurance Company General Account - Fully Benefit Responsive-TIAA	5,403,447	5,109,339
NOTES RECEIVABLE FROM PARTICIPANTS	<u>264,936</u>	<u>253,304</u>
Total Assets	114,029,883	129,465,390
PAYABLES		
Benefit Payable	<u>42,387</u>	<u>66,000</u>
NET ASSETS AVAILABLE FOR BENEFITS	<u><u>\$ 113,987,496</u></u>	<u><u>\$ 129,399,390</u></u>

See accompanying Notes to Financial Statements.

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
YEAR ENDED DECEMBER 31, 2022**

ADDITIONS (REDUCTIONS)

INVESTMENT INCOME (LOSS)

Net Depreciation in Fair Value of Investments	\$ (18,366,008)
Interest and Dividends	<u>2,270,328</u>
Total Investment Loss	(16,095,680)

**INTEREST INCOME ON NOTES RECEIVABLE FROM
PARTICIPANTS**

15,588

CONTRIBUTIONS

Employee	2,082,767
Employer	2,004,610
Rollovers	<u>126,264</u>
Total Contributions	<u>4,213,641</u>

Total Net Reductions	(11,866,451)
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DEDUCTIONS:

BENEFITS PAID TO PARTICIPANTS	3,456,082
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ADMINISTRATIVE EXPENSES	<u>89,361</u>
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Total Deductions	<u>3,545,443</u>
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NET DECREASE	(15,411,894)
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NET ASSETS AVAILABLE FOR BENEFITS:

Beginning of Year	<u>129,399,390</u>
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End of Year	<u><u>\$ 113,987,496</u></u>
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See accompanying Notes to Financial Statements.

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021**

NOTE 1 DESCRIPTION OF PLAN

The following description of the American Physical Society Defined Contribution and Tax Deferred Annuity Retirement Plan (the Plan) provides only general information. Participants should refer to the Plan document for a more complete description of the Plan's provisions.

General

The Plan is a defined contribution plan covering all employees of American Physical Society (Employer or Plan Sponsor). The Plan is subject to the Employee Retirement Income Security Act of 1974 (ERISA).

Eligibility

All employees are eligible to participate in the deferral portion of the Plan immediately upon employment. Effective January 1, 2021, participants will be automatically enrolled at 3% with a delayed enrollment at the completion of 244 hours or a 3-month period.

Employees who normally work fewer than 18.75 hours per week and interns are not eligible for the employer nonelective contribution.

Contributions

Participants may contribute pre-tax annual compensation, as defined in the Plan, up to the maximum allowable under the Internal Revenue Code (IRC) each year. Participants who have attained age 50 before the end of the Plan year are eligible to make catch-up contributions. Participant may make Roth contributions. Participants may also contribute amounts representing distributions from other qualified defined benefit or defined contribution plans (rollover contributions). The minimum service requirement for Employer nonelective contribution is 244 hours in a three-month period. The employees not eligible to receive the Employer nonelective contributions are those who normally work fewer than 18.75 hours per week and interns. Effective January 1, 2021, the Employer makes nonelective contributions to the Plan equal to 5% of the participant's compensation plus an additional amount determined annually by the Employer. For the plan year ended December 31, 2022, the employer contributed an additional 3% for a total nonelective contribution of 8%. Contributions are subject to certain Internal Revenue Service (IRS) limitations.

Participant Accounts

Each participant's account is credited with participant deferrals, including amounts rolled over from other qualified plans and the employer nonelective portion of the participant's gross compensation following each payday. Plan contributions are participant-directed and are invested in one or more funding vehicles available to participants under this Plan. Earnings and losses are determined by individual funding vehicle performance. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Vesting

Participants are immediately vested in their contributions plus actual earnings thereon. Participants are 100% vested after one year of credited service in employer nonelective contributions.

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021**

NOTE 1 DESCRIPTION OF PLAN (CONTINUED)

Plan Loans

Participants may borrow from the Teachers Insurance and Annuity Association (TIAA) a minimum of \$1,000 and up to the lesser of \$50,000 or 50% of the vested portion of their fund account. These loans are direct loans between the participant and TIAA, the insurance company of the Plan, and as such they are not treated as a transfer from the investment funds to a note receivable from participant or as a Plan asset. However, 110% of the outstanding loan balance is collateralized by the participant's account.

This portion of the participant's account is transferred at the time of the loan initiation and is maintained in the TIAA Traditional Annuity within the participant's account. Loans must be repaid to TIAA by the participant in accordance with the repayment terms of the agreement. In the event of default, foreclosure on the participant's account balance will not occur until a distributable event occurs in the Plan.

Loans are collateralized at 110% of the original loan value which is transferred from the participant's accumulation account into a distinct TIAA Traditional Annuity account. The collateralized funds remain in Plan assets throughout the term of the loan, earning interest over the loan term, and are included in the balance for TIAA Traditional Annuities, which are investments that are reported in the statements of net assets available for benefits. As loan repayments are made to TIAA, an amount equal to the principal portion of the repayment is transferred from the TIAA Traditional Annuities account to the participant's accumulation account. All interest earned on the loan is maintained by TIAA. The Plan's loan balance included in TIAA Traditional Annuities was \$278,381 and \$296,910 as of December 31, 2022 and 2021, respectively, and was collateralized by approximately \$306,220 and \$326,601 of investments included in the statements of net assets available for benefits as of December 31, 2022 and 2021, respectively. As of December 31, 2022 and 2021, loans in default were \$278,381 and \$283,212, respectively.

Notes Receivable from Participants

Participants may borrow from their fund accounts a minimum of \$1,000 up to a maximum equal to the lesser of \$50,000 or 50% of their vested account balance. The notes are secured by the balance in the participant's account and bear interest at the rate as reflected in the Wall Street Journal on the date of the loan plus 1% annually. The related loan repayments, including both principal and interest, are the responsibility of the participant, and are payable to TIAA on a monthly basis, as stated in the individual loan agreements.

Benefit Payments

Upon termination of service, death, disability, or retirement a participant may elect to receive the value of the vested interest in his or her account in the form of a lump-sum distribution. The Plan allows for in-service distributions if a participant reaches age 59½ and hardship distributions subject to Plan provisions. If a participant terminates employment and the participant's account balance does not exceed \$1,000, the Plan administrator will authorize the benefit payment without the participant's consent.

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021**

NOTE 1 DESCRIPTION OF PLAN (CONTINUED)

Forfeited Accounts

Forfeited nonvested accounts can be used to pay administrative expenses and to reduce future Company Contributions. Forfeited nonvested accounts as of December 31, 2022 and 2021, totaled \$13,889 and \$-0-, respectively. There were no forfeitures used to pay administrative expenses or used to reduce Company contributions for the years ended December 31, 2022.

NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

The financial statements of the Plan are prepared on the accrual basis of accounting.

Use of Estimates

The preparation of financial statements in accordance with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Investment Valuation and Income Recognition

The Plan's investments are reported at fair value (except for fully benefit-responsive investment contracts, which are reported at contract value). Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The Plan's Investment Committee determines the Plan's valuation policies utilizing information provided by the insurance company. See Note 4 for discussion of fair value measurements.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net depreciation in fair value of investments includes the Plan's gains and losses on investments bought and sold as well as held during the year.

Notes Receivable from Participants

Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Interest income is recorded on the accrual basis. Related fees are recorded as administrative expenses and are expensed when they are incurred. No allowance for credit losses has been recorded as of December 31, 2022 or 2021. Delinquent notes receivable are recorded as distributions on the basis of the terms of the Plan document.

Benefit Payments

Benefits are recorded when paid.

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021**

NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Administrative Expenses

The Plan's expenses are paid by either the Plan or the Employer, as provided by the Plan document. Expenses paid directly by the Employer are excluded from these financial statements. Investment related expenses are included in net depreciation in fair value of investments.

Subsequent Events

The Plan has evaluated subsequent events through October 4, 2023, the date the financial statements were available to be issued.

NOTE 3 CERTIFICATION OF INVESTMENT INFORMATION

TIAA, CREF and TIAA, FSB, the qualified institutions of the Plan, have supplied the Plan administrator with a certification as to the completeness and accuracy of all investment information and notes receivable from participants reflected on the accompanying statements of net assets available for benefits as of December 31, 2022 and 2021, the statement of changes in net assets available for benefits for the year ended December 31, 2022, and the supplemental schedule of assets (held at end of year) as of December 31, 2022.

NOTE 4 FAIR VALUE OF INVESTMENTS

The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy are described as follows:

Level 1 – Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access.

Level 2 – Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly, such as:

- quoted prices for similar assets or liabilities in active markets;
- quoted prices for identical or similar assets or liabilities in inactive markets;
- inputs other than quoted prices that are observable for the asset or liability; or
- inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021**

NOTE 4 FAIR VALUE OF INVESTMENTS (CONTINUED)

Level 3 – Inputs to the valuation methodology are unobservable and significant to the fair market value measurement.

The asset or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs.

Following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the valuation methodologies used at December 31, 2022 and 2021.

Registered Investment Companies:

Mutual Funds: Valued at the daily closing price as reported by the fund. Mutual funds held by the Plan are open-end mutual funds that are registered with the Securities and Exchange Commission. These funds are required to publish their daily net asset value (NAV) and to transact at that price. The mutual funds held by the Plan are deemed to be actively traded.

Variable Annuities: The fair values of accumulation units held by the Plan in CREF accounts (registered investment companies held as variable annuity accounts) are based on each account's daily NAV, which is considered by Plan management to be the best approximation of fair value.

Pooled Separate Account: Valued at the NAV of units as determined by the insurance company. NAV is a readily determinable fair value and is the basis for current transactions.

Insurance Company General Account: Valued at fair value by the insurance company by discounting the related cash flows based on current yields of similar instruments with comparable durations considering the creditworthiness of the issuer. The investment is not fully benefit responsive and, therefore, transacts at fair value.

The following tables set forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31:

	2022			
	Level 1	Level 2	Level 3	Total
Mutual Funds	\$ 34,907,503	\$ -	\$ -	\$ 34,907,503
Sub-Accounts of Variable Annuities	-	44,329,519	-	44,329,519
Pooled Separate Account	-	5,140,756	-	5,140,756
Insurance Company General Account	-	-	23,983,722	23,983,722
Total Investments at Fair Value	<u>\$ 34,907,503</u>	<u>\$ 49,470,275</u>	<u>\$ 23,983,722</u>	<u>\$ 108,361,500</u>

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021**

NOTE 4 FAIR VALUE OF INVESTMENTS (CONTINUED)

	2021			
	Level 1	Level 2	Level 3	Total
Mutual Funds	\$ 34,447,773	\$ -	\$ -	\$ 34,447,773
Sub-Accounts of Variable Annuities	-	61,475,968	-	61,475,968
Pooled Separate Account	-	5,042,549	-	5,042,549
Insurance Company				
General Account	-	-	23,136,457	23,136,457
Total Investments at Fair Value	<u>\$ 34,447,773</u>	<u>\$ 66,518,517</u>	<u>\$ 23,136,457</u>	<u>\$ 124,102,747</u>

The following table represents certain changes for the year ended in the Plan's Level 3 financial instruments attributable to:

<u>TIAA Traditional Nonbenefit Responsive</u>	<u>2022</u>
Purchases	\$ 127,202
Issuances	-
Transfer Into Level 3	-
Transfer Out Level 3	-

Quantitative Information about Significant Unobservable Inputs Used in Level 3 Fair Value Measurements

The following tables represent the Plan's Level 3 financial instruments, the valuation techniques used to measure the fair value of those financial instruments, and the significant unobservable inputs and the ranges of value for those inputs as of December 31:

Instrument	Fair Value		Principal Valuation Technique	Significant Unobservable Inputs	Range of Significant Input Values
	2022	2021			
TIAA Traditional Annuity Account-Nonbenefit Responsive	\$ 23,983,722	\$ 23,136,457	Discounted Cash Flow	Risk-Adjusted Discount Rate Applied	3.70% - 6.25%
			Theoretical Transfer		

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021**

NOTE 5 INSURANCE COMPANY GENERAL ACCOUNTS

The TIAA Traditional Annuity is a guaranteed fixed annuity contract available as an investment option to Plan participants. Each contract is fully and unconditionally guaranteed by TIAA. The Traditional Annuity is offered through a variety of contract types, including Retirement Choice Annuity (RC) and Retirement Choice Plus Annuity (RCP). The type of contract through which a participant investment in the TIAA Traditional Annuity determines the applicability of certain account features, such as the guaranteed minimum interest rate, additional interest declarations, the degree of liquidity of the participant's account, and the options for receiving income upon retirement. The traditional annuity contracts which are not fully benefit responsive are included in the financial statements at fair value. The fully benefit-responsive contracts are included in the financial statements at contract value. The crediting rate is based on a formula established by the contract issuer and is between 1% and 3%. The crediting rate is reviewed annual as deemed necessary by TIAA for resetting. The guaranteed investment contract does not permit the insurance company to terminate the agreement prior to the scheduled maturity date.

When participants choose to allocate a portion of their retirement savings to the TIAA Traditional Annuity during the accumulation phase of the contract, their contributions purchase a specific amount of lifetime income based on the contractual rate schedule in effect at the time the premium is paid. The participant's principal, plus a specified minimum rate of interest, is guaranteed by TIAA's claims-paying ability. The TIAA Traditional Annuity also provides the potential for additional interest if declared by TIAA's Board of Trustees. Additional interest, when declared, remains in effect for the declaration year, which begins each March 1 for accumulating annuities and January 1 for lifetime payout annuities. Additional interest is not guaranteed for future years. Together, the guaranteed minimum and additional amounts make up the crediting interest rate.

When a participant's accumulation in the TIAA Traditional Annuity is converted to a lifetime payout annuity, the present value of the stream of payments is equal to the accumulated balance, and the entire amount is recorded as a distribution in the statements of changes in net assets available for benefits.

The Plan's ability to receive amounts due is dependent on the issuer's ability to meet its financial obligations. The issuer's ability to meet its contractual obligations may be affected by future economic and regulatory developments.

The RC contract requires withdrawals in the form of a lifetime payout or in periodic installments over a 10-year period. Therefore, the RC contract is not fully benefit-responsive. The balances in this contract at fair value were \$23,983,722 and \$23,136,457 at December 31, 2022 and 2021, respectively.

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021**

NOTE 5 INSURANCE COMPANY GENERAL ACCOUNTS (CONTINUED)

The RCP contract provides for full participant-directed liquidity. Therefore, the RCP contract meets the fully benefit-responsive contract criteria and, therefore, is reported at contract value. Contract value is the relevant measure for fully benefit-responsive investment contracts because this is the amount received by participant if they were to initiate permitted transactions under the term of the Plan. The RCP balances at contract value were \$5,403,447 and \$5,109,339 at December 31, 2022 and 2021, respectively.

Certain events might limit the ability of the Plan to transact at contract value with the issuer. Such events include (1) amendments to the Plan documents (including complete or partial Plan termination or merger with another plan), (2) changes to the Plan's prohibition on competing investment options or deletion of equity wash provisions, (3) bankruptcy of the Plan Sponsor or other Plan Sponsor events (for example, divestitures or spin-offs of a subsidiary) that cause a significant withdrawal from the Plan, (4) the failure of the trust to qualify for exemption from federal income taxes or any required prohibited transaction exemption under ERISA, or (5) premature termination of the contract. No events are probable of occurring that might limit the ability of the Plan to transact at contract value with the contract issuers and that also would limit the ability of the Plan to transact at contract value with the participants. The Plan administrator believes that any events that would limit the Plan's ability to transact at contract value with participants are probable of not occurring.

In addition, certain events allow the issuer to terminate the contract with the Plan and settle at an amount different from contract value. Such events include (1) an uncured violation of the Plan's investment guidelines, (2) a breach of material obligation under the contract, (3) a material misrepresentation, and (4) a material amendment to the agreement without the consent of the issuer.

NOTE 6 PARTY-IN-INTEREST TRANSACTIONS

Certain Plan investments are invested in funds managed by TIAA, CREF and TIAA, FSB, the qualified institutions for the Plan and, therefore, the investment transactions qualify as party-in-interest transactions. Fees incurred by the Plan for the investment management services are included in net depreciation in fair value of the investments, as they are paid as indirect expenses, rather than a direct payment.

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021**

NOTE 7 HISTORICAL PLAN ADMINISTRATION

Prior to 2009, the Plan's third-party administrators tracked contributions, investment earnings, distributions and other activity on a "contract" basis. Each participant was setup as having a separate 'contract' and Plan level activity was not captured. This method of administration was utilized prior to January 1, 2009, as the regulations governing 403(b) plans did not require Plan level reporting. The Plan administrator believes a good faith effort was made to obtain all relevant information prior to January 1, 2009. However, as a result of the method of administration and lack of historical Plan level financial reporting, the Plan administrator is unable to obtain Plan level information prior to January 1, 2009.

NOTE 8 RISKS AND UNCERTAINTIES

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market, and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of the investment securities will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the statements of net assets available for benefits.

NOTE 9 PLAN TERMINATION

Although it has not expressed any intent to do so, the Employer has the right under the Plan to discontinue contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, the participants would become 100% vested in their Company contributions.

NOTE 10 PLAN TAX STATUS

The Plan is placing reliance on an opinion letter received from the IRS on the prototype plan indicating that the Plan is designed in accordance with the applicable section of the IRC and is, therefore, not subject to tax under current income tax law. The Plan has been amended since receiving the opinion letter. However, the Plan administrator believes that the Plan is designed and is currently being operated in compliance with the applicable requirements of the IRC and, therefore, believes that the Plan is qualified, and the related trust is tax-exempt.

Accounting principles generally accepted in the United States of America requires Plan management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more-likely-than-not would not be sustained upon examination by the IRS. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021**

NOTE 11 NONEXEMPT TRANSACTION

The Company failed to remit employee 403(b) deferral contributions for certain payroll periods within the timeframe prescribed by the Department of Labor during 2021. This is deemed a prohibited transaction in accordance with ERISA and the IRC. The remaining \$10 of delinquent contributions was corrected in 2022.

NOTE 12 RECONCILIATION OF FINANCIAL STATEMENTS TO FORM 5500

The following is a reconciliation of net assets available for benefits per the financial statements to Form 5500 as of December 31:

	<u>2022</u>	<u>2021</u>
Net Assets Available for Benefits per		
Financial Statements	\$ 113,987,496	\$ 129,399,390
Plus: Benefits Payable	42,387	66,000
Less: Deemed Loan Distribution	(4,013)	(15,158)
Net Assets Available for Benefits per Form 5500	<u>\$ 114,025,870</u>	<u>\$ 129,450,232</u>

The following is a reconciliation of net decrease per the financial statements to Form 5500 for the year ended December 31, 2022:

Net Decrease per Financial Statements	\$ (15,411,894)
Plus: Benefits Payable	(23,613)
Less: Deemed Loan Distribution	11,145
Net Decrease per Form 5500	<u>\$ (15,424,362)</u>

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
E.I.N. 13-1656610 PLAN NO. 001
SCHEDULE H, LINE 4a—SCHEDULE OF DELINQUENT PARTICIPANT CONTRIBUTIONS
YEAR ENDED DECEMBER 31, 2022**

Total that Constitute Nonexempt Prohibited Transactions				
Participant Contributions Transferred Late to Plan	Contributions Not Corrected	Contributions Corrected Outside VFCP	Contributions Pending Correction in VFCP	Total Fully Corrected under VFCP and PTE 2002-51
Check here if Late Participant Loan Repayments are Included ☐	\$ -	\$ 10	\$ -	\$ -

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
E.I.N. 13-1656610 PLAN NO. 001
SCHEDULE H, LINE 4i—SCHEDULE OF ASSETS (HELD AT END OF YEAR)
DECEMBER 31, 2022**

(a)	(b)	(c)	(d)	(e)
Identity of Issue, Borrower, Lessor, or Similar Party	Description of Investment including Maturity Date, Date of Interest, Collateral, Par, or Maturity Value	Cost **	Current Value	
	<u>Mutual Funds:</u>			
1919 Funds	1919 Financial Services Fund I		\$	2,504
American Funds	Balanced Fund R6			2,712,206
BlackRock	Mid Cap Growth Eq K			88,700
Cohen & Steers	Real Est Sec Z			855,215
CREF	CREF Core Bond R2			3,534,252
DFA	Emerging Markets Core Equities			219,870
DFA	Global Equity I			746,296
DFA	US SmallCap Portfolio			711,786
Lord Abbett	Short Duratn Ic R6			42,177
PIMCO	Income Fd Institutional			158,708
T. Rowe Price	Blue Chip Growth I			842,497
T. Rowe Price	Institution LargeCap Value			2,085,839
Vanguard	Vanguard Target Retirement Income			643,960
Vanguard	Vanguard Target Retirement 2020			356,579
Vanguard	Vanguard Target Retirement 2025			757,757
Vanguard	Vanguard Target Retirement 2030			1,646,317
Vanguard	Vanguard Target Retirement 2035			1,659,712
Vanguard	Vanguard Target Retirement 2040			2,313,126
Vanguard	Vanguard Target Retirement 2045			2,120,333
Vanguard	Vanguard Target Retirement 2050			1,376,620
Vanguard	Vanguard Target Retirement 2055			1,010,088
Vanguard	Vanguard Target Retirement 2060			454,434
Vanguard	Vanguard Target Retirement 2065			22,750
Vanguard	Vanguard Utilities Index Adm			30,820
Vanguard	Federal Money Market			527,957
Vanguard	FTSE Social Index			471,022
Vanguard	Health Care Index Adm			87,302
Vanguard	Info Tech Idx Admiral			800,582
Vanguard	Intr-Trm Bnd Idx Adm			445,543
Vanguard	Mid-Cap Index Admiral			1,617,340
Vanguard	Small-Cap Index Admiral			401,756
Vanguard	Total Intl Stock Index Admiral			2,526,137
Vanguard	Total Stock Market Index Admiral			2,941,746
Western Asset	Core Plus Bond IS			695,572
	Total Mutual Funds			34,907,503

**AMERICAN PHYSICAL SOCIETY DEFINED CONTRIBUTION
AND TAX DEFERRED ANNUITY RETIREMENT PLAN
E.I.N. 13-1656610 PLAN NO. 001
SCHEDULE H, LINE 4i—SCHEDULE OF ASSETS (HELD AT END OF YEAR) (CONTINUED)
DECEMBER 31, 2022**

(a)	(b)	(c)	(d)	(e)
	Identity of Issue, Borrower, Lessor, or Similar Party	Description of Investment including Maturity Date, Date of Interest, Collateral, Par, or Maturity Value	Cost **	Current Value
		Sub-Accounts of Variable Annuities:		
*	CREF	CREF Equity Index Fund R2		5,001,635
*	CREF	CREF Global Equities Fund R2		8,306,693
*	CREF	CREF Growth Fund R2		6,811,425
*	CREF	CREF Inflation-Linked Bond Fund R2		1,491,713
*	CREF	CREF Money Market Fund R2		869,535
*	CREF	CREF Social Choice Fund R2		2,358,360
*	CREF	CREF Stock Fund R2		19,490,159
		Total Sub-Accounts of Variable Annuities		44,329,519
		<u>Pooled Separate Account:</u>		
*	TIAA	TIAA Real Estate Fund		5,140,756
		<u>Insurance Company General Accounts:</u>		
*	TIAA	Traditional Benefit Responsive		5,403,446
*	TIAA	Traditional Nonbenefit Responsive		23,983,722
		Total Insurance Company General Accounts		29,387,169
*	Participants	Participant Loans Rates from 4.25% to 8.00%		260,923
		Total		<u>\$ 114,025,870</u>

* Indicates Party-in-Interest

** Cost Omitted for Participant-Directed Accounts

Plan Name	American Physical Society Defined Contribution and Tax Deferred Annuity Retirement Plan
Plan Sponsor EIN	13-1656610
ERISA Plan #	001
Plan Year Ending	December 31, 2022

The required attachment marked with an "X" in the Attachment column is included within the Accountant's Opinion attachment to Sch. H, Part III, Line 3, which consists of the entire audit report issued by the plan's Independent Qualified Public Accountant (IQPA).

Form/Schedule	Line #	Description	Attachment
5500 Sch. H	Line 3	Financial statements used in formulating the IQPA's opinion	X
5500 Sch. H	Line 4i	Schedule of Assets (Held at End of Year)	X
5500 Sch. H	Line 4i	Schedule of Assets (Acquired and Disposed of Within Year)	
5500 Sch. H	Line 4j	Schedule of Reportable Transactions	
5500 Sch. H	Line 4a	Schedule of Delinquent Participant Contributions	X

Plan Name	American Physical Society Defined Contribution and Tax Deferred Annuity Retirement Plan
Plan Sponsor EIN	13-1656610
ERISA Plan #	001
Plan Year Ending	December 31, 2022

The required attachment marked with an "X" in the Attachment column is included within the Accountant's Opinion attachment to Sch. H, Part III, Line 3, which consists of the entire audit report issued by the plan's Independent Qualified Public Accountant (IQPA).

Form/Schedule	Line #	Description	Attachment
5500 Sch. H	Line 3	Financial statements used in formulating the IQPA's opinion	X
5500 Sch. H	Line 4i	Schedule of Assets (Held at End of Year)	X
5500 Sch. H	Line 4i	Schedule of Assets (Acquired and Disposed of Within Year)	
5500 Sch. H	Line 4j	Schedule of Reportable Transactions	
5500 Sch. H	Line 4a	Schedule of Delinquent Participant Contributions	X

Plan Name	American Physical Society Defined Contribution and Tax Deferred Annuity Retirement Plan
Plan Sponsor EIN	13-1656610
ERISA Plan #	001
Plan Year Ending	December 31, 2022

The required attachment marked with an "X" in the Attachment column is included within the Accountant's Opinion attachment to Sch. H, Part III, Line 3, which consists of the entire audit report issued by the plan's Independent Qualified Public Accountant (IQPA).

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5500 Sch. H	Line 4j	Schedule of Reportable Transactions	
5500 Sch. H	Line 4a	Schedule of Delinquent Participant Contributions	X