

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 2023 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 12/31/2023	
A	This return/report is for: ☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must provide participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) _____ ☐ 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 THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
1b	Three-digit plan number (PN) ▶ 006
1c	Effective date of plan 01/01/1959
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) ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. 1331 PENNSYLVANIA AVE NW SUITE 1475 WASHINGTON, DC 20004
2b	Employer Identification Number (EIN) 86-0138043
2c	Plan Sponsor's telephone number 520-318-8241
2d	Business code (see instructions) 541700

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.	10/14/2024	ELVIRA URQUIDEZ
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	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

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2023)
v. 230707

3a Plan administrator's name and address ☐ Same as Plan Sponsor ELVIRA URQUIDEZ 1331 PENNSYLVANIA AVE NW SUITE 1475 WASHINGTON, DC 20004		3b Administrator's EIN 86-6107256 3c Administrator's telephone number 520-318-8241																						
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 1601																						
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 a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item) g(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2" style="height: 20px;"></td></tr> <tr><td style="width: 15%;">6a(1)</td><td style="text-align: right;">1361</td></tr> <tr><td>6a(2)</td><td style="text-align: right;">1481</td></tr> <tr><td>6b</td><td style="text-align: right;">7</td></tr> <tr><td>6c</td><td style="text-align: right;">474</td></tr> <tr><td>6d</td><td style="text-align: right;">1962</td></tr> <tr><td>6e</td><td style="text-align: right;">4</td></tr> <tr><td>6f</td><td style="text-align: right;">1966</td></tr> <tr><td>6g(1)</td><td style="text-align: right;">1408</td></tr> <tr><td>6g(2)</td><td style="text-align: right;">1424</td></tr> <tr><td>6h</td><td></td></tr> </table>			6a(1)	1361	6a(2)	1481	6b	7	6c	474	6d	1962	6e	4	6f	1966	6g(1)	1408	6g(2)	1424	6h	
6a(1)	1361																							
6a(2)	1481																							
6b	7																							
6c	474																							
6d	1962																							
6e	4																							
6f	1966																							
6g(1)	1408																							
6g(2)	1424																							
6h																								
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: 2G 2L 2M 2R 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 (4) ☐ DCG (Individual Plan Information) – Number Attached _____ (5) ☐ MEP (Multiple-Employer Retirement Plan Information)	b General Schedules (1) ☒ H (Financial Information) (2) ☐ I (Financial Information – Small Plan) (3) ☒ A (Insurance Information) – Number Attached <u>2</u> (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 2023 Form M-1 annual report. If the plan was not required to file the 2023 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

2023

This Form is Open to Public Inspection

For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 12/31/2023

A Name of plan

THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. 403(B) SAVINGS PLAN

B Three-digit plan number (PN)

006

C Plan sponsor's name as shown on line 2a of Form 5500

ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC.

D Employer Identification Number (EIN)

86-0138043

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.

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	101372	571	01/01/2023	12/31/2023

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.

(a) Total amount of commissions paid	(b) Total amount of fees paid

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

(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	

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(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	35421002
5 Current value of plan's interest under this contract in separate accounts at year end.....	5	58796479

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.**6d**

Specify nature of costs ▶

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**

37126091

c Additions: (1) Contributions deposited during the year**7c(1)**

(2) Dividends and credits

7c(2)

(3) Interest credited during the year

7c(3)

1614044

(4) Transferred from separate account.....

7c(4)

3281074

(5) Other (specify below)

7c(5)

▶

(6) Total additions.....

7c(6)

4895118

d Total of balance and additions (add lines **7b** and **7c(6)**)**7d**

42021209

e Deductions:

(1) Disbursed from fund to pay benefits or purchase annuities during year

7e(1)

3630460

(2) Administration charge made by carrier

7e(2)

(3) Transferred to separate account.....

7e(3)

2941841

(4) Other (specify below)

7e(4)

27906

▶ MISC

(5) Total deductions.....

7e(5)

6600207

f Balance at the end of the current year (subtract line **7e(5)** from line **7d**)**7f**

35421002

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)	0
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)	0
(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)	0
(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 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 2023 This Form is Open to Public Inspection
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For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 12/31/2023		
A Name of plan THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. 403(B) SAVINGS PLAN	B Three-digit plan number (PN) ▶ 006	
C Plan sponsor's name as shown on line 2a of Form 5500 ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC.	D Employer Identification Number (EIN) 86-0138043	

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

NEW YORK LIFE

(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
13-5582869	66915	GA80224	0	07/10/2023	12/31/2023

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.

(a) Total amount of commissions paid	(b) Total amount of fees paid

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

(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	

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	(c) Amount	(d) Purpose	

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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	

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	
5	Current value of plan's interest under this contract in separate accounts at year end	5	

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	3423763
c	Additions: (1) Contributions deposited during the year	7c(1)	1145784
	(2) Dividends and credits	7c(2)	
	(3) Interest credited during the year	7c(3)	96842
	(4) Transferred from separate account	7c(4)	
	(5) Other (specify below) ▶ ADJ	7c(5)	256
	(6) Total additions	7c(6)	1242882
d	Total of balance and additions (add lines 7b and 7c(6))	7d	4666645
e	Deductions:		
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)	944950
	(2) Administration charge made by carrier	7e(2)	3541
	(3) Transferred to separate account	7e(3)	
	(4) Other (specify below) ▶	7e(4)	
	(5) Total deductions	7e(5)	948491
f	Balance at the end of the current year (subtract line 7e(5) from line 7d)	7f	3718154

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)	0
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)	0
(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)	0
(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
		2023
		This Form is Open to Public Inspection.

For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 12/31/2023		
A Name of plan THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. 403(B) SAVINGS PLAN	B Three-digit plan number (PN) ▶	006
C Plan sponsor's name as shown on line 2a of Form 5500 ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC.	D Employer Identification Number (EIN) 86-0138043	

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-CREF
13-1624203

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
FIDELITY INVESTMENTS INSTITUTIONAL
04-2647786

(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

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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)

FIDELITY INVESTMENTS INSTITUTIONAL

04-2647786

(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?
64 65 71	RECORDKEEPER	56619	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

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

MULTNOMAH GROUP

111 SW 5TH AVENUE
SUITE 4000
PORTLAND, OR 97204

20-0361079

(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?
27	ADVISOR	24998	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

STRATEGIC ADVISORS, INC.

04-2654524

(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?
49	OTHER SERVICE	22320	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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)

TIAA-CREF

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?
13 50	CONTRACT ADMINISTRATOR	0	Yes ☐ No ☒	Yes ☐ No ☐		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 ☐

(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
FID INV INSTL OPS CO	60	0

(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.
VARIOUS MUTUAL FUND COMPANIES 04-2647786	SUB-TRANSFER AGENCY FEES; SEE ATTACHMENT TO LINE 2(H) FOR FORMULAS

(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:	COHNREZNICK LLP	b EIN:	22-1478099
c Position:	AUDITOR		
d Address:	7501 WISCONSIN AVE STE 400E BETHESDA, MD 20614-6583	e Telephone:	301-652-9100

Explanation: REQUEST FOR PROPOSAL PROCESS RESULTED IN A NEW VENDOR.

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 2023 This Form is Open to Public Inspection.	
For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 12/31/2023					
A Name of plan THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. 403(B) SAVINGS PLAN				B Three-digit plan number (PN) ▶ 006	
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC.				D Employer Identification Number (EIN) 86-0138043	
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)					
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) 4164903		
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 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 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):					

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)

Part II Information on Participating Plans (to be completed by DFEs, other than DCGs)

(Complete as many entries as needed to report all participating plans. DCGs must report each participating plan using Schedule DCG.)

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
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
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

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
		2023
		This Form is Open to Public Inspection

For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 12/31/2023		
A Name of plan THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. 403(B) SAVINGS PLAN	B Three-digit plan number (PN) ▶	006
C Plan sponsor's name as shown on line 2a of Form 5500 ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC.	D Employer Identification Number (EIN) 86-0138043	

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	20489	17432
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)	2393571	1704680
(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)	18725	21736
(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)	488789	468565
(9) Value of interest in common/collective trusts	1c(9)		
(10) Value of interest in pooled separate accounts	1c(10)	5656335	4164903
(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)	165839810	202248251
(14) Value of funds held in insurance company general account (unallocated contracts)	1c(14)	40549849	39139151
(15) Other	1c(15)	22305023	25592198

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	237272591	273356916
Liabilities			
g Benefit claims payable	1g		
h Operating payables	1h	2167	0
i Acquisition indebtedness	1i		
j Other liabilities	1j	0	0
k Total liabilities (add all amounts in lines 1g through 1j)	1k	2167	0
Net Assets			
l Net assets (subtract line 1k from line 1f)	1l	237270424	273356916

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)		
(B) Participants	2a(1)(B)	12380816	
(C) Others (including rollovers)	2a(1)(C)	3043880	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		15424696
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	108699	
(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)	24090	
(F) Other	2b(1)(F)	592893	
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		725682
(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)	4269254	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		4269254
(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)	-2044	
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		-2044

		(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)		-686953
(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)		37550434
c Other income	2c		122980
d Total income. Add all income amounts in column (b) and enter total	2d		57404049

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	20469654	
(2) To insurance carriers for the provision of benefits.....	2e(2)	631164	
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		21100818
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses:			
(1) Salaries and allowances	2i(1)		
(2) Contract administrator fees.....	2i(2)	2	
(3) Recordkeeping fees.....	2i(3)	56393	
(4) IQPA audit fees.....	2i(4)		
(5) Investment advisory and investment management fees	2i(5)	47318	
(6) Bank or trust company trustee/custodial fees	2i(6)		
(7) Actuarial fees	2i(7)		
(8) Legal fees	2i(8)		
(9) Valuation/appraisal fees	2i(9)		
(10) Other trustee fees and expenses	2i(10)		
(11) Other expenses	2i(11)	113026	
(12) Total administrative expenses. Add lines 2i(1) through (11)	2i(12)		216739
j Total expenses. Add all expense amounts in column (b) and enter total	2j		21317557

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		36086492
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** as part of Schedule H because:

(1) ☐ This form is filed for a CCT, PSA, DCG 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. DCGs do not complete lines 4e, 4f, 4k, 4l, and 5, and DCGs generally complete the rest of Part IV collectively for all plans in the DCG, except as otherwise provided (see instructions).

During the plan year:

	Yes	No	Amount
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.)		☒	
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.)		☒	
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.)		☒	
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.)		☒	
e Was this plan covered by a fidelity bond?	☒		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?		☒	
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?		☒	
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?		☒	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	☒		
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.)		☒	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		☒	
l Has the plan failed to provide any benefit when due under the plan?		☒	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)		☒	
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.			

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 2023 This Form is Open to Public Inspection.
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For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 12/31/2023

A Name of plan THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. 403(B) SAVINGS PLAN	B Three-digit plan number (PN) ▶ 006
C Plan sponsor's name as shown on line 2a of Form 5500 ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC.	D Employer Identification Number (EIN) 86-0138043

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): 04-6568107 13-1624203	
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) 2023
v. 230707

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)

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)

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)

14a**14b****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

b The corresponding number for the second preceding plan year

15a**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

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

16a**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) and (b):

a Enter the percentage of plan assets held as:
Public Equity: _____% Private Equity: _____% Investment-Grade Debt and Interest Rate Hedging Assets: _____%
High-Yield Debt: _____% Real Assets: _____% Cash or Cash Equivalents: _____% Other: _____%

b Provide the average duration of the Investment-Grade Debt and Interest Rate Hedging Assets:
☐ 0-5 years ☐ 5-10 years ☐ 10-15 years ☐ 15 years or more

- 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. _____

Part VII IRS Compliance Questions

- 21a** Does the plan satisfy the coverage and nondiscrimination tests of Code sections 410(b) and 401(a)(4) by combining this plan with any other plans under the permissive aggregation rules? ☐ Yes ☒ No

- 21b** If this is a Code section 401(k) plan, check all boxes that apply to indicate how the plan is intended to satisfy the nondiscrimination requirements for employee deferrals and employer matching contributions (as applicable) under Code sections 401(k)(3) and 401(m)(2).

- ☐ Design-based safe harbor method
- ☐ "Prior year" ADP test
- ☐ "Current year" ADP test
- ☒ N/A

- 22** If the plan sponsor is an adopter of a pre-approved plan that received a favorable IRS Opinion Letter, enter the date of the Opinion Letter ____/____/____ (MM/DD/YYYY) and the Opinion Letter serial number _____.

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN**

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

YEARS ENDED DECEMBER 31, 2023 AND 2022



CPAs | CONSULTANTS | WEALTH ADVISORS

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**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
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YEARS ENDED DECEMBER 31, 2023 AND 2022**

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INDEPENDENT AUDITORS' REPORT

Retirement Plan Oversight Committee and Audit Committee
The Association of Universities for Research in Astronomy, Inc.
403(b) Savings Plan
Washington, DC

Report on the Audit of the Financial Statements

Scope and Nature of the ERISA Section 103(a)(3)(C) Audit for the 2023 Financial Statements

We were engaged to perform an audit of the financial statements of The Association of Universities for Research in Astronomy, Inc. 403(b) Savings Plan (the 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, 2023, and the related statement of changes in net assets available for benefits for the year then ended, and the related notes to the financial statements (2023 Financial Statements).

Management, having determined it is permissible in the circumstances, has elected to have the audit of The Association of Universities for Research in Astronomy, Inc. 403(b) Savings 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 qualified institutions as of December 31, 2023, and for the year ended December 31, 2023, stating that the certified investment information, as described in Note 4 to the financial statements, is complete and accurate.

Disclaimer of Opinion on the 2023 Financial Statements

We do not express an opinion on the 2023 financial statements referred to above of The Association of Universities for Research in Astronomy, Inc. 403(b) Savings Plan. Because of the significance of the matter described in the Basis for Disclaimer of Opinion on the 2023 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.

Basis for Disclaimer of Opinion on the 2023 Financial Statements

As described in Note 10 to the financial statements, the Plan's third-party administrator has not maintained sufficient accounting records and supporting documents relating to certain 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 2023 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 the 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.

Auditor's Responsibilities for the Audit of the 2023 Financial Statements

Our responsibility is to conduct an audit of 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 2023 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 Plan and to meet our other ethical responsibilities in accordance with the relevant ethical requirements relating to our audit.

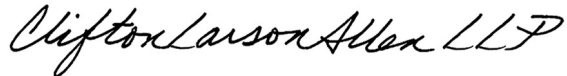
Other Matters

2023 Supplemental Schedule Required by ERISA

The supplemental schedule of assets (held at end of year) as of December 31, 2023 is presented for purposes of additional analysis and is not a required part of the financial statements but is 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 2023 Financial Statements section of our report, it is inappropriate to and we do not express an opinion on the supplemental schedule.

Auditors' Report on the 2022 Financial Statements

The 2022 financial statements of The Association of Universities for Research in Astronomy, Inc. 403(b) Savings Plan were audited by predecessor auditors. 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, the prior year audit did not extend to any statements or information related to assets held for investment of the plan that were certified by a qualified institution. Their report dated October 12, 2023 indicated that (a) the amounts and disclosures in the 2022 financial statements, other than those agreed to or derived from the certified investment information, were presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America, and (b) the information in the 2022 financial statements related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C). Their report also indicated that the form and content of the 2022 supplemental schedule, other than the information in the 2022 supplemental schedule agreed to or is derived from the certified investment information, were presented, in all material respects, in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA; and the information in the 2022 supplemental schedule related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determines meets the requirements of ERISA Section 103(a)(3)(C).



CliftonLarsonAllen LLP

Tucson, Arizona
October 3, 2024

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS
DECEMBER 31, 2023 AND 2022**

	<u>2023</u>	<u>2022</u>
ASSETS		
INVESTMENTS (at Fair Value)	\$ 253,124,133	\$ 216,086,122
INVESTMENTS (at Contract Value)	19,764,218	20,697,680
RECEIVABLES		
Notes Receivable from Participants	<u>468,565</u>	<u>488,789</u>
Total Assets	<u>273,356,916</u>	<u>237,272,591</u>
LIABILITIES		
OTHER PAYABLES	<u>-</u>	<u>2,167</u>
NET ASSETS AVAILABLE FOR BENEFITS	<u><u>\$ 273,356,916</u></u>	<u><u>\$ 237,270,424</u></u>

See accompanying Notes to Financial Statements.

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
YEARS ENDED DECEMBER 31, 2023 AND 2022**

	<u>2023</u>	<u>2022</u>
ADDITIONS (REDUCTIONS):		
INVESTMENT INCOME (LOSS)		
Net Appreciation (Depreciation) in Fair Value of Investments	\$ 36,861,437	\$ (50,224,594)
Interest and Dividends	<u>4,970,846</u>	<u>5,811,338</u>
Total Investment Income (Loss)	41,832,283	(44,413,256)
INTEREST INCOME ON NOTES RECEIVABLE FROM PARTICIPANTS	24,090	18,190
CONTRIBUTIONS		
Participants	12,380,816	11,444,033
Rollover	<u>3,043,880</u>	<u>2,007,099</u>
Total Contributions	15,424,696	13,451,132
OTHER INCOME	<u>122,980</u>	<u>108,595</u>
Total Additions (Reductions)	57,404,049	(30,835,339)
DEDUCTIONS:		
BENEFITS PAID TO PARTICIPANTS	21,100,818	14,364,608
INVESTMENT ADVISORY AND MANAGEMENT FEES	<u>216,739</u>	<u>217,619</u>
Total Deductions	<u>21,317,557</u>	<u>14,582,227</u>
CHANGE IN NET ASSETS	36,086,492	(45,417,566)
NET ASSETS AVAILABLE FOR BENEFITS		
Beginning of Year	<u>237,270,424</u>	<u>282,687,990</u>
End of Year	<u><u>\$ 273,356,916</u></u>	<u><u>\$ 237,270,424</u></u>

See accompanying Notes to Financial Statements.

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2023 AND 2022**

NOTE 1 DESCRIPTION OF PLAN

The following description of The Association of Universities for Research in Astronomy, Inc. 403(b) Savings 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 sponsored by The Association of Universities for Research in Astronomy, Inc. (AURA or the Company) covering substantially all employees of AURA, except those who normally work less than 20 hours per week or those locally hired in the Republic of Chile. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA) as amended. Employees are eligible to become a participant in the Plan coinciding with his or her date of employment. The Retirement Plan Oversight Committee is responsible for oversight of the Plan and determines the appropriateness of the Plan's investment offerings and monitoring of investment performance.

Contributions

The Plan allows participants to contribute a portion of their annual wages not to exceed the annual limits established by the Internal Revenue Service (IRS). Participants direct the investment of their contributions into various investment options offered by the Plan. Participants may also contribute amounts representing distributions from other qualified defined benefit or defined contribution plans. The Plan currently offers several mutual funds, including self-directed brokerage accounts, a stable value fund, variable annuity funds, insurance annuity funds, and a pooled separate account, as investment options for participants.

Participant Accounts

Each participant's account is credited with the participant's contribution and allocation of the Plan earnings. Allocations are based on participant earnings or account balances, as defined. The benefit to which a participant is entitled is the benefit that can be provided from the participant's account subject to Plan provisions.

Vesting

Participants are 100% vested in individual accounts plus actual earnings thereon.

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 a rate commensurate with local prevailing rates as determined quarterly by the Plan administrator. Principal and interest are paid ratably through payroll deductions.

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2023 AND 2022**

NOTE 1 DESCRIPTION OF PLAN

Plan Loans

Until July 31, 2017, participants could borrow from the Teachers Insurance and Annuity Association and College Retirement Equities Fund (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, a custodian, 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 and this portion of their account is transferred at the time of the loan and 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.

Outstanding loans between Plan participants and TIAA totaled \$24,357 and \$50,433 as of December 31, 2023 and 2022, respectively, and were collateralized by investments (at 110% of the outstanding loan balance) included in the statements of net assets available for benefits as of December 31, 2023 and 2022, respectively.

Payment of Benefits

Upon severance of employment, death, or disability, a participant will receive the amount of their account valued at the date provided in the Plan document. Benefit payments may be made either in lump sum distributions or in equal installments over a fixed, reasonable period of time. If a participant has a separate account attributable to rollover contributions to the Plan, to the extent permitted by the applicable Individual Agreement (agreement entered into by participant for separate account contributions), the participant may at any time elect to receive a distribution of all or any of the amount held in the rollover account. The Plan allows for hardship distributions subject to Plan provisions and in-service distributions if a participant reaches age 59 ½.

NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

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

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make a number of 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.

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
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NOTES TO FINANCIAL STATEMENTS
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NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Investment Valuation and Income Recognition

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. See Note 5 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 appreciation (depreciation) 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, 2023 or 2022. Delinquent notes receivables are recorded as distributions based on the terms of the Plan document.

Investment Advisory and Management Fees

Certain expenses of maintaining the Plan are paid directly by the Company and are excluded from these financial statements. Investment related expenses are included in net appreciation of fair value of investments and investment advisory and management fees.

Payment of Benefits

Benefits are recorded when paid.

Provisions of Certain Investments with TIAA-CREF

Certain participant investment transactions are restricted by TIAA-CREF. Transfers from the TIAA Traditional Annuity are required to be made in the form of a TIAA Transfer Payout Annuity, paying out ten equal installments plus interest over a 10-year period. Transfers from the TIAA Real Estate Account are limited to one per calendar quarter. Other TIAA-CREF investment options provide for a lockout period of 90 days if participants make a purchase, sale, or repurchase within a 60-day period. All restricted assets are included with investments on the accompanying statements of net assets available for benefits.

Subsequent Events

The Plan has evaluated subsequent events through October 3, 2024, the date the financial statements were available to be issued.

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
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NOTE 3 CONTRACT WITH INSURANCE COMPANY

TIAA Non-fully Benefit-Responsive

The Plan entered into a nonbenefit responsive investment contract with TIAA. TIAA Traditional Annuity contracts are fully allocated contracts backed by the general account of the insurance company. TIAA maintains the contributions in a general account. The account is credited with earnings on the underlying investments and charged for participant withdrawals and administrative expenses. The average yield and credited interest rates were approximately 4.85% and 4.24% for 2023 and 2022, respectively. These contracts are included in the financial statements at fair value.

TIAA Fully Benefit-Responsive

TIAA reports the portion of the Traditional Annuity holdings within liquid contracts as benefit-responsive. During the accumulation phase, the TIAA Traditional Annuity provides a guarantee of principal, a guaranteed minimum rate of interest, and the potential for additional interest if declared by TIAA. The TIAA Traditional Benefit-Responsive Annuity is fully and unconditionally guaranteed and backed by the claims paying ability of TIAA. The value of the TIAA Traditional Annuity contract is deemed to be no less than the participant's accumulation balance and therefore provides a good approximation of fair value. This contract meets the fully benefit-responsive investment 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 participants if they were to initiate permitted transactions under the terms of the Plan. Contract value, as reported to the Plan by TIAA, represents contributions made under the contract, plus earnings, less participant withdrawals and administrative expenses. 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. When a participant dies, or selects an income or lump sum benefit, the transaction occurs at the accumulated balance.

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 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.

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.

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
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NOTE 3 CONTRACT WITH INSURANCE COMPANY (CONTINUED)

NY Life Guaranteed Interest Fully Benefit-Responsive

The Plan entered into a fully benefit-responsive investment contract with New York Life Insurance Company (NY Life). The New York Life Guaranteed Interest Account is a stable value investment option with a guarantee of principal and accumulated interest provided by NY Life. Contributions to the Guaranteed Interest Account are invested in a group annuity contract issued by NY Life. The investments in the general account are intended to provide a stable crediting rate consistent with preservation of principal. The primary objective of the general account is to ensure that New York Life Insurance Company can meet its obligations to policyholders and contract holders.

The stable value fund meets the fully benefit-responsive investment 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 participants if they were to initiate permitted transactions under the terms of the Plan. The fund is backed by a diversified portfolio of fixed-income assets held in the general account of the issuer. Guarantees are subject to the claims paying ability of the issuer. Restrictions or fees may apply to exchanges or withdrawals. The contracts provide for the payment of certain withdrawals and exchanges at book value during the terms of the contracts. In order to maintain the contract issuers' promise to pay such withdrawals and exchanges at book value, the contracts subject the fund and its participants to certain restrictions. For example, withdrawals prompted by certain events (e.g., layoffs, early retirement windows, spin-offs, sale of a division, facility closings, plan terminations, partial plan terminations, changes in laws or regulations) may be paid at the market value of the fund's securities, which may be less than the book value balance or may restrict withdrawals in these events.

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.

NY Life may terminate the contract with 60 days advance written notice to the contract holder. The contract may be terminated immediately upon written notice if the Plan fails to maintain its tax-exempt status.

NOTE 4 CERTIFICATION OF INVESTMENT INFORMATION

TIAA, FSB, and TIAA Trust, N.A., the custodians, TIAA and CREF, the insurance companies, and Fidelity Management Trust Company (Fidelity), the Trustee of the Plan, have supplied the Plan administrator with a certification as to the completeness and accuracy of all investment information reflected on the accompanying statements of net assets available for benefits as of December 31, 2023 and 2022, the statements of changes in net assets available for benefits for the years then ended, and the supplemental schedule of assets (held at end of year) as of December 31, 2023.

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
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NOTE 5 FAIR VALUE MEASUREMENTS

The framework for measuring fair value provides a 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 under 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;
- 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.

Level 3 – Inputs to the valuation methodology are unobservable and significant to the fair 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 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 methodologies used at December 31, 2023 and 2022.

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.

Self-Directed Brokerage Accounts: Investments held in participant self-directed accounts are typically market-traded securities. As such, the statement value will be the price of the security's last trade registered on the security's market of record on the reporting date.

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
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NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2023 AND 2022**

NOTE 5 FAIR VALUE MEASUREMENTS (CONTINUED)

Variable Annuity Funds: Primarily valued using market quotations or prices obtained from independent pricing sources who may employ various pricing methods to value the investments including matrix pricing. CREF money market account holdings are generally valued at amortized cost. The unit values are listed on the National Association of Security Dealers Automated Quotations (NASDAQ) website and updated overnight for each day the NASDAQ is open.

Pooled Separate Account: The unit value is principally derived from the market value of the underlying real estate holdings or other real estate related securities. The unit values are listed on the NASDAQ website and updated overnight for each day the NASDAQ is open.

Guaranteed Annuity Contract: Guaranteed annuity contracts are 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 credit worthiness of the issuer. Because the participants transact at contract value, fair value is determined annually for financial statement reporting purposes only. In determining the reasonableness of the methodology, the Plan administrator evaluates a variety of factors including review of existing contracts, economic conditions, industry and market developments, and overall credit ratings.

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

2023				
	Level 1	Level 2	Level 3	Total
Mutual Funds	\$ 149,343,084	\$ -	\$ -	\$ 149,343,084
Self-Directed Brokerage Accounts	25,609,632	-	-	25,609,632
Variable Annuity Funds	54,631,576	-	-	54,631,576
Pooled Separate Account	4,164,903	-	-	4,164,903
Guaranteed Annuity Contract	-	-	19,374,938	19,374,938
Total Assets at Fair Value	<u>\$ 233,749,195</u>	<u>\$ -</u>	<u>\$ 19,374,938</u>	<u>\$ 253,124,133</u>

2022				
	Level 1	Level 2	Level 3	Total
Mutual Funds	\$ 120,006,523	\$ -	\$ -	\$ 120,006,523
Self-Directed Brokerage Accounts	22,325,515	-	-	22,325,515
Variable Annuity Funds	48,245,580	-	-	48,245,580
Pooled Separate Account	5,656,335	-	-	5,656,335
Guaranteed Annuity Contract	-	-	19,852,169	19,852,169
Total Assets at Fair Value	<u>\$ 196,233,953</u>	<u>\$ -</u>	<u>\$ 19,852,169</u>	<u>\$ 216,086,122</u>

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2023 AND 2022**

NOTE 5 FAIR VALUE MEASUREMENTS (CONTINUED)

The table below sets forth a summary of changes in the fair value of the Plan's Level 3 assets for the years ended December 31, 2023 and 2022:

	<u>Guaranteed Annuity Contract</u>
Balance - January 1, 2022	\$ 20,198,320
Realized Gains	503,701
Unrealized Gains Related to Instruments still Held at the Reporting Date	116,169
Interest	227,530
Sales	(1,108,546)
Net Transfers	<u>(85,005)</u>
Balance - December 31, 2022	19,852,169
Realized Gains	412,831
Unrealized Gains Related to Instruments still Held at the Reporting Date	199,610
Interest	332,703
Sales	(1,373,275)
Net Transfers	<u>(49,100)</u>
Balance - December 31, 2023	<u><u>\$ 19,374,938</u></u>

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

The following table represents 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 values for those inputs for the years ended December 31, as follows:

Instrument	Fair Value		Principal Valuation Technique	Significant Unobservable Inputs	Range of Significant Input Values
	2023	2022			
Guaranteed	<u>\$ 19,374,938</u>	<u>\$ 19,852,169</u>	Discounted	Risk-Adjusted	2023: 3.25% - 6.00%
Annuity Contract			Cash Flow, Theoretical Transfer (Exit Value)	Discount Rate Applied	2022: 3.70% - 6.25%

NOTE 6 PLAN TERMINATION

Although it has not expressed any intent to do so, the Company has the right under the Plan at any time to terminate the Plan subject to the provisions of ERISA.

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2023 AND 2022**

NOTE 7 PLAN TAX STATUS

The Plan has been designed to qualify under Section 403(b) of the Internal Revenue Code (IRC). The Plan is required to operate in conformity with the IRC to maintain the tax- exempt status for Plan participants under Section 403(b). The Plan administrator believes that the Plan is designed and is currently being operated in compliance with the applicable requirements of the IRC.

Accounting principles generally accepted in the United States of America require Plan management to evaluate tax positions taken by the Plan and recognize a tax liability if the organization 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.

NOTE 8 PARTY-IN-INTEREST TRANSACTIONS

The Plan's investments are managed by TIAA, FSB, and TIAA Trust, N.A., the custodians, TIAA and CREF, the insurance companies, and Fidelity, the Custodian of the Plan, therefore, these transactions qualify as party-in-interest transactions. Certain fees incurred by the Plan for investment management services are returned to the Plan through revenue sharing and are included in other additions on the statements of changes in net assets available for benefits.

NOTE 9 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 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 10 HISTORICAL PLAN ADMINISTRATION

Prior to 2009, the Plan's third-party administrator tracked contributions, investment earnings, distributions, and other activity on a "contract" basis. Each participant was set up 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 by the third-party administrator, the Plan administrator is unable to obtain Plan level information prior to January 1, 2009.

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
E.I.N. 86-0138043 PLAN NO. 006
SCHEDULE H, LINE 4i—SCHEDULE OF ASSETS (HELD AT END OF YEAR)
DECEMBER 31, 2023**

(a)	(b)	(c)	(d)	(e)
	Identity of Issue, Borrower, Lessor, or Similar Party	Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost**	Current Value
*	Fidelity	<u>Self-Directed Brokerage Accounts:</u> Brokerage Link		\$ 25,609,632
		<u>Mutual Funds:</u>		
*	Fidelity	Fidelity International Index		3,179,762
	American Funds	Europacific Growth R6		1,658,134
	Causeway	Causeway International Value		1,031,096
*	Fidelity	Fidelity Sustainability Bond Index		892,494
*	Fidelity	Fidelity US Bond Index		3,714,697
*	Fidelity	Fidelity Emerging Markets Index		647,269
	PGIM	PGIM Total Return Bond		3,935,539
*	Fidelity	Fidelity 500 Index		22,469,527
*	Fidelity	Fidelity US Sustainability Index		3,410,468
	JP Morgan	JP Morgan Equity Income		2,459,301
	JP Morgan	JP Morgan Large Cap Growth		19,545,932
*	Fidelity	Fidelity Extended Market Index		4,640,991
	Vanguard	Vanguard Fed MMKT		4,190
	Vanguard	Vanguard REIT Index		1,004,969
*	Fidelity	Fidelity Small Cap Index		972,393
	Conestoga	Conestoga Small Cap		1,565,696
	Northern Trust	Northern Small Cap Value		1,242,360
	Vanguard	Vanguard Target Retirement Income		3,658,873
	Vanguard	Vanguard Target Retirement Income 2020		5,918,654
	Vanguard	Vanguard Target Retirement Income 2025		13,319,244
	Vanguard	Vanguard Target Retirement Income 2030		16,690,472
	Vanguard	Vanguard Target Retirement Income 2035		8,682,333
	Vanguard	Vanguard Target Retirement Income 2040		9,139,351
	Vanguard	Vanguard Target Retirement Income 2045		10,014,196
	Vanguard	Vanguard Target Retirement Income 2050		6,056,855
	Vanguard	Vanguard Target Retirement Income 2055		2,209,280
	Vanguard	Vanguard Target Retirement Income 2060		1,141,444
	Vanguard	Vanguard Target Retirement Income 2065		137,564
		Total Mutual Funds		149,343,084
		<u>Variable Annuity Funds:</u>		
*	CREF	Stock Account		23,279,264
*	CREF	Social Choice Account		6,082,013
*	CREF	Equity Index Account		6,635,803
*	CREF	Growth Account		6,794,601
*	CREF	Core Bond Account		2,257,266
*	CREF	Inflation-Linked Bond		1,802,636
*	CREF	Money Market Account		939,331
*	CREF	Global Equities Account		6,840,662
		Total Variable Annuity Funds		54,631,576

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
E.I.N. 86-0138043 PLAN NO. 006
SCHEDULE H, LINE 4i—SCHEDULE OF ASSETS (HELD AT END OF YEAR)(CONTINUED)
DECEMBER 31, 2023**

(a)	(b)	(c)	(d)	(e)
	Identity of Issue, Borrower, Lessor, or Similar Party	Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost**	Current Value
		<u>Pooled Separate Account:</u>		
*	TIAA	REA Account		\$ 4,164,903
		<u>Insured Annuities:</u>		
	NY	NY Life Guaranteed Interest Account		3,718,154
*	TIAA	TIAA Traditional Insurance Benefit Responsive		16,021,707
*	TIAA	TIAA Traditional Insurance Nonbenefit Responsive		19,374,938
*	TIAA	Plan Loan Default Fund		24,357
		Total Insurance Annuities		39,139,156
*	Participants	Participant Loans - Rates from 4.25% - 9.50%	-	468,565
				<u>\$ 273,356,916</u>

* Indicates party-in-interest

**Cost omitted for participant-directed accounts

Plan Year Ending: December 31, 2023

Indirect compensation in the form of sub-transfer agency fees was paid to: Fidelity Investments Institutional Operations Company, EIN: 04-2647786

Payor Name	Street Address 1	Street Address 2	City	State	Zip	Compensation
AMG YACKTMAN FOCUSED N	600 STEAMBOAT RD STE 300		GREENWICH	CT	06830	0.40%
AQR LARGE CAP MOMENTUM STYLE CL N	1 GREENWICH PLAZA		GREENWICH	CT	06830	0.40%
AQR LARGE CAP DEFENSIVE STYLE CL N	1 GREENWICH PLAZA		GREENWICH	CT	06830	0.40%
INVESCO INTL SMALL MID COMPANY A	11 GREENWAY PLAZA STE 100		HOUSTON	TX	77046	0.40%
ALGER SPECTRA FUND CLASS CL A	600 PLAZA ONE 6TH FL		JERSEY CITY	NJ	07311	0.40%
AMER BEACON STEPHENSMID CAP GROWTH INV	220 E LAS COLINAS BLVD STE 1200		IRVING	TX	75039	0.40%
AMERICAN MUTUAL FUNDCLASS F1	3500 WISEMAN BLVD		SAN ANTONIO	TX	78251	0.37%
BERKSHIRE FOCUS FUND	475 MILAN DR STE 103		SAN JOSE	CA	95134	0.40%
BLACKROCK ADVANTAGE INTERNATIONAL CL A	40 EAST 52ND ST		NEW YORK	NY	10022	0.40%
BLACKROCK HEALTH SCIENCES OPP PRT A	40 EAST 52ND ST		NEW YORK	NY	10022	0.40%
BLACKROCK NATURAL RESOURCES TR CL A	40 EAST 52ND ST		NEW YORK	NY	10022	0.40%
CALVERT GLOBAL WATERFUND CL A	4550 MONTGOMERY AVE STE 1000 N		BETHESDA	MD	20814	0.40%
CARILLON SCOUT MID CAP FUND CL I	P O BOX 33022		ST PETERSBURG	FL	33733	0.40%
COMMONWEALTH NEW ZEALAND	2 EASTON OVAL STE 300		COLUMBUS	OH	43219	0.40%
CONESTOGA SMALL CAP INVESTOR CLASS	225 PICTORIA DR STE 450		CINCINNATI	OH	45246	0.40%
CONESTOGA SMID CAP FUND INVESTORS CL	225 PICTORIA DR STE 450		CINCINNATI	OH	45246	0.40%
DOUBLELINE TOTAL RT BOND FD CL N	777 EAST WISCONSIN AVE		MILWAUKEE	WI	53202	0.40%
FEDERATED HERMES KAUFMANN SM CAP A	4000 ERICSSON DR		WARRENDALE	PA	15086	0.40%
FIRSTHAND TECHNOLOGYOPPORTUNITIES FUND	150 ALMADEN BLVD STE 1250		SAN JOSE	CA	95113	0.40%
HARBOR CAP APP INV	111 S WACKER DR 34TH FL		CHICAGO	IL	60606	0.35%
OAKMARK INTL INVESTOR CL	111 SOUTH WACKER DR		CHICAGO	IL	60606	0.35%
JANUS HENDERSON VENTURE T	151 DETROIT ST		DENVER	CO	80206	0.35%
JANUS HENDERSON ENTERPRISE T	151 DETROIT ST		DENVER	CO	80206	0.35%
JPMORGAN EQUITY INCOME FUND CL A	1111 POLARIS PARKWAY		COLUMBUS	OH	43240	0.40%
CLEARBRIDGE SELECT FUND CL A	100 FOUNTAIN PARKWAY		ST. PETERSBURG	FL	33716	0.40%
LOOMIS SAYLES INVST GRADE BOND CL Y	399 BOYLSTON ST 8TH FL		BOSTON	MA	02116	0.15%
MFS BLENDED RESEARCHINTRNATL EQUITY CL A	111 HUNTINGTON AVE		BOSTON	MA	02199	0.40%
MARSICO GLOBAL FUND	235 WEST GALENA ST		MILWAUKEE	WI	53212	0.40%
MATTHEWS JAPAN FUND	4 EMBARCADERO CENTER STE 550		SAN FRANCISCO	CA	94111	0.40%
MATTHEWS INDIA FUND	4 EMBARCADERO CENTER STE 550		SAN FRANCISCO	CA	94111	0.40%
MORGAN STANLEY INTL ADVANTAGE CL A	522 FIFTH AVE 4TH FL		NEW YORK	NY	10036	0.40%
EVENTIDE GILEAD FUND CLASS N	80 ARKAY STE 110		HAUPPAUGE	NY	11788	0.40%
PFG MFS AGGRESSIVE GROWTH STRATEGY R	777 108TH AVE NE STE 2100		BELLEVUE	WA	98004	0.40%
PFG JP MORGAN TACTICAGGRESSIVE STRAT R	777 108TH AVE NE STE 2100		BELLEVUE	WA	98004	0.40%
PFG BNY MELLON DIVERSIFIER STRAT R	777 108TH AVE NE STE 2100		BELLEVUE	WA	98004	0.40%
PFG MEEDER TACTICAL STRATEGY FUND R	777 108TH AVE NE STE 2100		BELLEVUE	WA	98004	0.40%

PFG INVESCO EQ FACTRROTATION STRATEGY R	777 108TH AVE NE STE 2100		BELLEVUE	WA	98004	0.40%
PFG JANUS HENDERSON BALANCED STRATEGY R	777 108TH AVE NE STE 2100		BELLEVUE	WA	98004	0.40%
PFG TACTICAL INCOME STRATEGY CL R	777 108TH AVE NE STE 2100		BELLEVUE	WA	98004	0.40%
PFG EQUITY INDEX FOCUSED STRATEGY R	777 108TH AVE NE STE 2100		BELLEVUE	WA	98004	0.40%
PFG SECTOR EQUITY BUS CYCLE STRAT R	777 108TH AVE NE STE 2100		BELLEVUE	WA	98004	0.40%
PFG BR TRGT ALLOCAT EQ STRATEGY FD CL R	777 108TH AVE NE STE 2100		BELLEVUE	WA	98004	0.40%
PFG AMERICAN FUNDS GROWTH STRAT CL R	777 108TH AVE NE STE 2100		BELLEVUE	WA	98004	0.40%
PARNASSUS VALUE EQUITY INVESTOR	1 MARKET ST	STEUART TOWER STE 1600	SAN FRANCISCO	CA	94105	0.40%
PARNASSUS MID CAP	1 MARKET ST	STEUART TOWER STE 1600	SAN FRANCISCO	CA	94105	0.40%
PIMCO INCOME FUND CL A	1633 BROADWAY		NEW YORK	NY	10019	0.40%
PRIMECAP ODYSSEY GROWTH FUND	2020 E FINANCIAL WAY STE 100		GLENDORA	CA	91741	0.10%
T ROWE PRICE BLUE CHIP GROWTH INC	4515 PAINTERS MILL RD		OWINGS MILLS	MD	21117	0.15%
T ROWE PRICE GLOBAL STOCK	4515 PAINTERS MILL RD		OWINGS MILLS	MD	21117	0.15%
T ROWE PRICE SMALL CAP VALUE FUND	4515 PAINTERS MILL RD		OWINGS MILLS	MD	21117	0.15%
RYDEX NASDAQ 100 INV CLASS	9601 BLACKWELL RD STE 500		ROCKVILLE	MD	20850	0.40%
RYDEX ELECTRONICS INV CLASS	9601 BLACKWELL RD STE 500		ROCKVILLE	MD	20850	0.40%
RYDEX BIOTECHNOLOGY INV CLASS	9601 BLACKWELL RD STE 500		ROCKVILLE	MD	20850	0.40%
T ROWE PRICE FLOATING RATE INVEST	4515 PAINTERS MILL RD		OWINGS MILLS	MD	21117	0.15%
THRIVENT SMALL CAP STOCK FUND CL S	4321 N BALLARD ROAD		APPLETON	WI	54919	0.15%
VICTORY RS SCIENCE AND TECHNOLOGY CL A	4900 TIEDEMAN RD 4TH FL		BROOKLYN	OH	44114	0.40%
WASATCH ULTRA GROWTH	505 WAKARA WAY STE 300		SALT LAKE CITY	UT	84108	0.40%
AMERICAN WASHNTN MUTUAL INVESTRS CL A	3500 WISEMAN BLVD		SAN ANTONIO	TX	78251	\$18.00
CAUSEWAY INTL VAL IS	2000 CROWN COLONY DR		QUINCY	MA	02169	0.10%
NORTHERN SM CAP VAL	50 BANK ST	CANARY WHARD	LONDON	GB	GB E14 5	0.40%

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
E.I.N. 86-0138043 PLAN NO. 006
SCHEDULE H, LINE 4i—SCHEDULE OF ASSETS (HELD AT END OF YEAR)
DECEMBER 31, 2023**

(a)	(b)	(c)	(d)	(e)
	Identity of Issue, Borrower, Lessor, or Similar Party	Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost**	Current Value
*	Fidelity	<u>Self-Directed Brokerage Accounts:</u> Brokerage Link		\$ 25,609,632
		<u>Mutual Funds:</u>		
*	Fidelity	Fidelity International Index		3,179,762
	American Funds	Europacific Growth R6		1,658,134
	Causeway	Causeway International Value		1,031,096
*	Fidelity	Fidelity Sustainability Bond Index		892,494
*	Fidelity	Fidelity US Bond Index		3,714,697
*	Fidelity	Fidelity Emerging Markets Index		647,269
	PGIM	PGIM Total Return Bond		3,935,539
*	Fidelity	Fidelity 500 Index		22,469,527
*	Fidelity	Fidelity US Sustainability Index		3,410,468
	JP Morgan	JP Morgan Equity Income		2,459,301
	JP Morgan	JP Morgan Large Cap Growth		19,545,932
*	Fidelity	Fidelity Extended Market Index		4,640,991
	Vanguard	Vanguard Fed MMKT		4,190
	Vanguard	Vanguard REIT Index		1,004,969
*	Fidelity	Fidelity Small Cap Index		972,393
	Conestoga	Conestoga Small Cap		1,565,696
	Northern Trust	Northern Small Cap Value		1,242,360
	Vanguard	Vanguard Target Retirement Income		3,658,873
	Vanguard	Vanguard Target Retirement Income 2020		5,918,654
	Vanguard	Vanguard Target Retirement Income 2025		13,319,244
	Vanguard	Vanguard Target Retirement Income 2030		16,690,472
	Vanguard	Vanguard Target Retirement Income 2035		8,682,333
	Vanguard	Vanguard Target Retirement Income 2040		9,139,351
	Vanguard	Vanguard Target Retirement Income 2045		10,014,196
	Vanguard	Vanguard Target Retirement Income 2050		6,056,855
	Vanguard	Vanguard Target Retirement Income 2055		2,209,280
	Vanguard	Vanguard Target Retirement Income 2060		1,141,444
	Vanguard	Vanguard Target Retirement Income 2065		137,564
		Total Mutual Funds		149,343,084
		<u>Variable Annuity Funds:</u>		
*	CREF	Stock Account		23,279,264
*	CREF	Social Choice Account		6,082,013
*	CREF	Equity Index Account		6,635,803
*	CREF	Growth Account		6,794,601
*	CREF	Core Bond Account		2,257,266
*	CREF	Inflation-Linked Bond		1,802,636
*	CREF	Money Market Account		939,331
*	CREF	Global Equities Account		6,840,662
		Total Variable Annuity Funds		54,631,576

**THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH
IN ASTRONOMY, INC. 403(B) SAVINGS PLAN
E.I.N. 86-0138043 PLAN NO. 006
SCHEDULE H, LINE 4i—SCHEDULE OF ASSETS (HELD AT END OF YEAR)(CONTINUED)
DECEMBER 31, 2023**

(a)	(b)	(c)	(d)	(e)
	Identity of Issue, Borrower, Lessor, or Similar Party	Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost**	Current Value
		<u>Pooled Separate Account:</u>		
*	TIAA	REA Account		\$ 4,164,903
		<u>Insured Annuities:</u>		
	NY	NY Life Guaranteed Interest Account		3,718,154
*	TIAA	TIAA Traditional Insurance Benefit Responsive		16,021,707
*	TIAA	TIAA Traditional Insurance Nonbenefit Responsive		19,374,938
*	TIAA	Plan Loan Default Fund		24,357
		Total Insurance Annuities		39,139,156
*	Participants	Participant Loans - Rates from 4.25% - 9.50%	-	468,565
				<u>\$ 273,356,916</u>

* Indicates party-in-interest

**Cost omitted for participant-directed accounts