

July 31, 2024



Agenda

- Secretary Report
- Treasurer's Report
- Membership
- FIGMAS Update
- Strategic Planning Report
- M&M Updates
- AReS
- Awards
- Social Media

- Education
- Fellows
- Finance
- International Liaison
- Student Council
- Sustaining Members
- Nominations Committee
- Closing Remarks



Secretary Report – Owen Neill

- 2023 Business Meeting Minutes
 - Motion



Treasurer Report – Dave Tomlin



2024 Budget

			2024		2024		Actual	
Code		Proposed Budget			Budget		6/30/2024	
	INCOME		111111111111					
101	General Membership	\$	12,000.00	\$	12,000.00	\$	17,915.00	
102	Sustaining Membership	\$	18,000.00	\$	18,000.00	\$	7,600.00	
103	M&M Co-Sponsor Share (M&M 2023)	\$	30,000.00	\$	30,000.00	\$	53,859.56	
104	MAS Topical Conferences (I&E)	\$	-	\$	¥	\$	¥	
105	Chodos Fund	\$	900.00	\$	900.00	\$	70.00	
106	Fiori Fund	\$	400.00	\$	400.00	\$	150.00	
107	Goldstein Fund	\$	2,500.00	\$	2,500.00	\$	145.00	
108	Misc Income (interest, dividends, etc)	\$	50.00	\$	50.00	\$	6.00	
109	Corporate Award Sponsorship	\$	3,500.00	\$	3,500.00	\$	1,000.00	
110		\$	4	\$	-	\$	-	
111		\$	7	\$	8	\$		
112		\$	+	\$	~	\$		
113		\$	-	\$	-	\$	7	
114		\$	÷	\$	-	\$	~	
115		\$	7	\$		\$	-	
	Total Incom	e Ś	67,350.00	Ś	67,350.00	\$	80,745.5	

	EXPENSES						
	Est EsteEs						
	Operating Expenses						
OE01	Society Management (see breakout)	\$	12,500.00	\$	12,500.00	\$	7,845.71
OE02	ASTM-Membership	\$	3,250.00	\$	3,250.00	\$	1,562.50
OE03	Membership Office	\$	700.00	\$	700.00	\$	-
OE04	Sustaining Member Office	\$	1,000.00	\$	1,000.00	\$	703.06
OE05	Fellows Program	\$	500.00	\$	500.00	\$	-
OE06	Archivist	\$	1,500.00	\$	1,500.00	\$	-
OE07	AReS TS Program (Fiori)	\$	3,000.00	\$	3,000.00	\$	-
OE08	TC Seed Money	\$	1,000.00	\$	1,000.00	\$	-
OE09	Foreign Society Reciprocity	\$	2,500.00	\$	2,500.00	\$	-
OE10	Corporate/Named Awards	\$	4,000.00	\$	4,000.00	\$	4,000.00
OE11	MAS Sponsorships	\$	7,000.00	\$	7,000.00	\$	-
OE12	Chodos Fund	\$	2,000.00	\$	2,000.00	\$	-
OE13	Fiori Fund	\$	1,000.00	\$	1,000.00	\$	-
OE14	Goldstein Scholar Awards	\$	5,000.00	\$	5,000.00	\$	-
OE15	ECS Funding International Co-Sponsor	\$	2,000.00	\$	2,000.00	\$	1,000.00
OE16	IUMAS Meeting	\$	-	\$		\$	-
OE17	FIGMAS NSF Standards	\$	10,000.00	\$	10,000.00	\$	-
OE18				\$	-		
OE19				\$	-		
OE20				\$	-		
	Total Operating Expense	Ś	56,950.00	Ś	56,950.00	Ś	15,111.27
	Meeting Expenses						
ME01	MAS Booth Expenses	\$	1,000.00	\$	1,000.00	\$	22
ME02	Meal with a Mentor (Chodos)	\$	8,000.00	\$	8,000.00	\$	5,030.33
ME03	M&M Meeting Awards	\$	15,000.00	\$	15,000.00	\$	11,416.00
ME04	President's Reception (VIP)	\$	10,000.00	\$	10,000.00	\$	9,209.45
ME05	MAS Social	\$	10,000.00	\$	10,000.00	\$	5,481.08
ME06	Meeting Registration Comps	\$	11,000.00	\$	11,000.00	\$	8,976.00
ME07	Meeting Hotel Comps	\$	2,500.00	\$	2,500.00	\$	2
ME08				\$	-	\$	-
ME09				\$	-		
ME10				\$		\$	
	Total Meeting Expense	\$	57,500.00	\$	57,500.00	\$	40,112.86
	Total All Expenses	\$	114,450.00	\$	114,450.00	\$	55,224.13
	NET INCOME	Ś	(47,100.00)	Ś	(47,100.00)	Ś	25,521.43

2024 Operations Balance Sheet

ASSETS	
Chase Accounts	
Checking	\$ 65,734.49
Savings	\$ 105,302.82
Pay Pal	\$ 9,355.68
Schwab	\$ 804,555.21

LIABILITIES & EQUITY		
Liability		
	\$	2
	\$	2
	\$	2
	\$	2
	\$	2
TOTAL LIABILITY	\$	-
Equity		
Goldstein Fund (Early Career)	\$ 15,2	61.78
Fiori Fund (AReS)	\$ 16,3	29.52
Chodos Fund (Student Activities)	\$ 13,7	06.46
Member Equity	\$ 914,1	29.01
Net Income	\$ 25,5	21.43
Total Equity	\$ 984,9	48.20
TOTAL LIABILTIES & EQUITY	\$ 984,9	48.20
Total Charitable Funds	\$ 45,29	97.76
TOTAL Schwab Funds	\$ 804,55	55.21
TOTAL UNENCUMBERED EQUITY	\$ 180,3	92.99

MAG Lii-d At- (05/20/2024)		100 202 00
MAS Liquid Assets (06/30/2024)	\$	180,392.99
Chase Checking	\$	65,734.49
Chase Savings	\$	105,302.82
Pay Pal	\$	9,355.68
Charitable Fund Totals	\$	45,297.76
Chodos (Student Activities)	\$	15,261.78
Fiori (AReS)	\$	16,329.52
Goldstein (Early Career Scholarships)	\$	13,706.46
Schwab Investment Account (06/30/2024)	\$	804,555.21
Total Encumbered Assets	\$1	1,030,245.96
Total Unencumbered Assets	Ś	984,948.20

As of 06/30/2024



2025 Proposed Budget Income

	MAS	Оре	erating Budget 20	25				
Code		2025 Proposed Budget			2024 Budget		Actual 6/30/2024	
	INCOME							
101	General Membership	\$	15,000.00	\$	12,000.00	\$	17,915.00	
102	Sustaining Membership	\$	12,000.00	\$	18,000.00	\$	7,600.00	
103	M&M Co-Sponsor Share (M&M 2024)	\$	50,000.00	\$	50,000.00	\$	53,859.56	
104	MAS Topical Conferences (I&E)	\$	(7)			\$	1.5	
105	Chodos Fund	\$	900.00	\$	900.00	\$	70.00	
106	Fiori Fund	\$	400.00	\$	400.00	\$	150.00	
107	Goldstein Fund	\$	2,500.00	\$	2,500.00	\$	145.00	
108	Misc Income (interest, dividends, etc)	\$	50.00	\$	50.00	\$	6.00	
109	Corporate Award Sponsorship	\$	3,500.00	\$	3,500.00	\$	1,000.00	
110		\$	-	\$	1.51	\$	1.51	
111		\$	2	\$	9.20	\$	9.20	
112		\$	(-)	\$	175	\$	-	
113		\$	12	\$	9.20	\$	8.23	
114		\$	-	\$	1153	\$	1.5	
115		\$	2	\$	920	\$	920	
	Total Income	\$	84,350.00	\$	87,350.00	\$	80,745.50	



2025 Proposed Budget Expenses

	Operating Expenses			
OE01	Society Management (see breakout)	\$ 12,500.00	\$ 12,500.00	\$ 7,845.71
OE02	ASTM-Membership	\$ 1,562.50	\$ 3,250.00	\$ 1,562.50
OE03	Membership Office	\$ 700.00	\$ 700.00	\$ -
OE04	Sustaining Member Office	\$ 1,000.00	\$ 1,000.00	\$ 703.06
OE05	Fellows Program	\$ 500.00	\$ 500.00	\$ -
OE06	Archivist	\$ 1,500.00	\$ 1,500.00	\$ 1578
OE07	AReS TS Program (Fiori)	\$ 3,000.00	\$ 3,000.00	\$ -
OE08	TC Seed Money	\$ 1,000.00	\$ 1,000.00	\$ 233
OE09	Foreign Society Reciprocity	\$ 2,500.00	\$ 2,500.00	\$ (3-)
OE10	Corporate/Named Awards	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00
OE11	MAS Sponsorships	\$ 7,000.00	\$ 7,000.00	\$ (4)
OE12	Chodos Fund	\$ 2,000.00	\$ 2,000.00	\$ 233
OE13	Fiori Fund	\$ 1,000.00	\$ 1,000.00	\$ -
OE14	Goldstein Scholar Awards	\$ 5,000.00	\$ 5,000.00	\$ 5533
OE15	ECS Funding International Co-Sponsor	\$ 2,000.00	\$ 2,000.00	\$ 1,000.00
OE16	IUMAS Meeting	\$ 		\$ 23
OE17	Strategic Planning Initiatives	\$ 10,000.00	\$ 10,000.00	\$ -
OE18			\$ -	
OE19			\$ (4)	
OE20			\$ 17	
	Total Operating Expense	\$ 55,262.50	\$ 56,950.00	\$ 15,111.27



2025 Proposed Budget Meeting

	Meeting Expenses			
ME01	MAS Booth Expenses	\$ 1,500.00	\$ 1,000.00	\$ ~
ME02	Meal with a Mentor (Chodos)	\$ 8,000.00	\$ 8,000.00	\$ 5,030.33
ME03	M&M Meeting Awards	\$ 15,000.00	\$ 15,000.00	\$ 11,416.00
ME04	President's Reception (VIP)	\$ 10,000.00	\$ 10,000.00	\$ 9,209.45
ME05	MAS Social	\$ 10,000.00	\$ 10,000.00	\$ 5,481.08
ME06	Meeting Registration Comps	\$ 11,000.00	\$ 11,000.00	\$ 8,976.00
ME07	Meeting Hotel Comps	\$ 2,500.00	\$ 2,500.00	\$ (-
ME08			\$ 20 7 8	\$ 2074
ME09			\$ (4)	
ME10			\$ 127	\$ 1570
	Total Meeting Expense	\$ 58,000.00	\$ 57,500.00	\$ 40,112.86
	Total All Expenses	\$ 113,262.50	\$ 114,450.00	\$ 55,224.13
	NET INCOME	\$ (28,912.50)	\$ (27,100.00)	\$ 25,521.43



2025 Budget Approval

Motion



Membership – Emma Bullock

- As of July 16th, 2024, we have 794 members (including 45 from "Accounts Payable"), compared to year-end 2023: 1087 members
- Last year: high turnout of planetary science members who joined MAS in order to register and attend the Klaus Keil Symposium

Microanalysis Society

- 75 members are MAS-only
- 185 are students (182 joint, 3 MAS-only)
- Final membership numbers will be available after the meeting

Strategic Planning – Angela Halfpenny

- FIGMAS Standards project is a seed-money project
 - Aim is to identify a pair of synthetic materials for each major element that can be synthesized reproducibly.
 - Characterize an aliquot of each material using multiple techniques for chemical and structural analysis, and make the materials freely available to any interested and qualified lab.

Microanalysis Society

FIGMAS – Emma Bullock

- K-ratio standard materials
 - Status
 - Strategic Planning funds short-term
 - Budget item funds long-term



M&M 2024 – Steven Spurgeon

- 2191 Registrants (vs 2027 in 2023)
 - 1295 attendees (vs 1219 in 2023)
 - 896 Exhibitors (vs 808 in 2023)
- 118 Companies (vs 99 in 2023)
 - 363 10x10 booths (vs 307 in 2023)



M&M 2025 – Stuart Wright

- Symposia
 - Analytical: 10
 - Biological: 8
 - Physical: 9
 - Cross-Discipline: 7



Analytical & Instrumentation Sciences

- Advances in Focused Ion Beam Instrumentation, Applications, and Techniques for Materials and Life Sciences (4)
- Frontiers of Electron Ptychography (3)
- When 4D-STEM Meets More Dimensions: Deepening Materials Insights with Efficient Experimental Design and Smart Computational Microscopy (4)
- Contributions of Analytical Electron Microscopy to Understanding Microstructural Evolution in Materials: James Bentley Memorial Symposium (4)
- Latest Advances in Atom Probe Tomography (4)
- Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens (4)
- Advances in SEM Instrumentation, Application and Techniques (3)
- Overcoming the Inherent Obstacles of Electron Microscopy: Operator Bias, Sampling, and Beam Interactions (3)
- Quantitative Electron Diffraction for Materials Analysis, From Transmission Electron Diffraction to EBSD and ECCI (3)

 Microanalysis Society

Cross-Disciplinary Sciences

- Microscopy and Microanalysis of Interfaces and/or Interactions Among Organic and Inorganic Matter (4)
- Lens On Diversity: Empowering Diversity in Microscopy Sciences (3)
- Microscopy and Microanalysis in Industry (2)
- Best Papers from MSA Publications Portfolio (0)
- Interamerican Committee of Societies for Electron Microscopy (CIASEM) (0)
- Advancements in Generative Artificial Intelligence and Automation for Electron Microscopy (4)
- Towards Functional Imaging of Materials: Advances and Insights from Phase Contrast Techniques (4)



Physical Sciences

- Advanced Characterization of Nuclear Fuels and Materials (4)
- Electron Microscopy for Ferroic Materials: From Atomic-scale Imaging to in-situ Control (3)
- Plasmons Characterization by Electron Microscopy with High Spatial, Energy and Temporal Resolutions (3)
- Energy Materials: Transport Pathways, Interfaces, & Durability for Performance
- Advances in Imaging and Spectroscopy Beyond Ambient Conditions (CL) (2)
- Multimodal Data Acquisition and Analysis of Materials Under Real-World Conditions Using Advanced Electron Microscopy (4)
- High-Resolution Microscopy and Microanalysis of Materials Subjected to Extreme Environments (4)
- Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials (4)
- Unconventional Electron Probes (4)
- Innovative in-situ Imaging Techniques for Material Characterization, Synthesis, and Processing (4)



Advances in SEM Instrumentation, Application and Techniques

The aim of this symposium is to give SEM users a platform to share and discuss novel applications and techniques and still existing bottlenecks. It covers innovative physical and instrumental aspects as well as applications in material and life science that go beyond conventional use. New outcomes in the field of low voltage, low vacuum SEM, detector strategies, transmission mode, contrast mechanism, correlative techniques, EBSD and in-situ/operando are welcome. We are also interested in contributions dealing with analytic challenges like light element detection, or correlative imaging and spectroscopy (mass spectroscopy, Raman, etc.).

- Low Voltage & Low vacuum SEM: With the development of the field emission SEMs the low voltage region down to 500 eV become applicable. Nowadays further development of the instruments enables to go beyond this level with new outcomes. Low vacuum SEM with improved instrument allow new insights.
- Detector strategies, transmission mode and contrast mechanism: A lot of new strategies for the detection of BSE and SE are implemented or can be attached to SEMs, that delivers images, where the contrast has to be understood.
- Correlative techniques: To understand complex question coming up in material science it is necessary to combine
 results coming from different investigation techniques. Exemplary going from macroscopic investigation methods
 like computer tomography => light microscopy => SEM down to the nanometre scale and combining the result
 with EDS, WDS, EBSD, mass spectroscopy and Raman studies from the same sample area.
- In-situ/operando SEM: In-situ/operando SEM opens new avenues of understanding reaction processes induced by heating or cooling the sample and to follow exemplary catalytic reactions.
- Light element detection: A bottleneck in the field of energy related materials is the detection of light elements. Li for Li-ion batteries and Boron for improved magnets. For Li are several new outcomes to improve the situation.

Ute Golla-Schindler Aalen University, Germany
Marc Willinger The Entrepreneurial University, Germany
Dirk Berger Technical University of Berlin, Germany



Future M&M

- •2026 Milwaukee
- •2027 Pittsburgh
- •2028 Seattle
- •2029 Kansas City



AReS – Thomas Lam

- Welcome Thomas!
- AReS breakfast yesterday
- 2 speaker requests in the last month



Awards – Brad de Gregorio

- MAS Officers
 - Assel Aitkaliyeva
 - Thomas Lam
- At-Large Members
 - Aurélien Moy
 - Jennika Greer



M&M 2023 Best Paper Awards



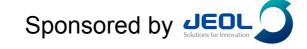
Birks Award Best Contributed Paper

Vivek Subramanian

Thermo Fisher Scientific

Cryo-FIB and Synchrotron
SAXS/WAXS Studies of Confined
Crystallization of PDMS in Tubular
Network Block Copolymer
Morphologies



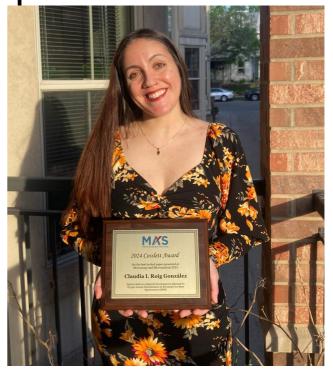


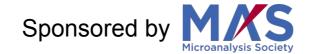


Cosslett Award Best Invited Paper

Claudia Roig González University of Wisconsin Madison

Epidote Reference Material
Development Calibrated for
Oxygen Isotope Determination by
Secondary Ion Mass Spectrometry
(SIMS)







Castaing Award Best Paper Presented by a Student

Sarah Anderson

University of Minnesota

Identifying the Mechanism of Glioblastoma Cell Migration in Mouse Brain Slices







Macres Award

Best Instrumentation / Software Paper



Angelina Minocha



Jolliff



Brad



Chris Yen



Ryan **Ogliore**

Sponsored by



Paul Carpenter

& Team

Washington **University**

Quantitative Microanalysis Explorer: **Next Generation** Analytical Tool for Study of Apollo 17 Core 73002,6015-6018



M&M 2024 Distinguished Scholars

Category	Author	Institution	Title
Student	Jack Grimm	University of Washington	Evaluation of Stoichiometric Accuracy with Deep-Ultraviolet Laser- Assisted Atom Probe Tomography of Hydroxyapatite
Student	Huiming Guo	University of California Irvine	Atomic Structure and Chemistry of High-Entropy Oxide Grain Boundaries Revealed by STEM Imaging, Strain Mapping, and Spectroscopy
Student	Hanyu Hou	University of Illinois Urbana-Champaign	High-Resolution STEM Cathodoluminescence of 2D Exfoliated Quantum Emitters
	Ya-Hsiang Hsu	The Ohio State University	The Characterization of Newly Secreted Dental Enamel by Electron Energy Loss Spectroscopy
Student	Minhazul Islam	The Ohio State University	In-depth Analysis of Structural Heterogeneity in High Entropy Bulk Metallic Glasses Using 4D-STEM
Student	Zhongmin Long	Karlsruher Institut für Technologie	Segregation to Creep-Induced Planar Faults in Ni-Base Single Crystal Superalloys
Student	Julian Lüken	Universiteit Antwerpen	AdAPTS: An Adaptive Atom Probe Tomography Simulation Library
Student	Patricia Meza	Northwestern University	Structural and Chemical Analysis of Entropy-Engineered Vanadium Rich 2D Thiophosphates (MPS3)
Student	Ruiying Shu	University of Oxford	Atom Probe Tomography Investigation of the Impact of Stacking Faults on InGaN/GaN Quantum Well LED Systems
Student	Oliver Waszkiewicz	Imperial College London	Advancements in Cryogenic-Atom Probe Tomography to Directly Resolve Electrochemical Interfaces at the Atomic Scale
Student	Hannah Matos-Pimentel	Florida State University	Study of a CuAg Alloy from Microscale to Atomic Scale
Postdoc	Akshay Agarwal	Boston University	Ion Count-Aided Microscopy for Quantitative, Shot Noise-Mitigated Secondary Electron Imaging
	Brian Caffrey		Biology in its Element Using Energy Dispersive X-ray Spectroscopy Scanning Transmission Electron Microscopy (EDX-STEM) to Probe Bacterial Ultrastructure.
Postdoc	Liza-Anastasia DiCecco	Pennsylvania State University	Improving Methods for Imaging Viral Pathogens Using Liquid Transmission Electron Microscopy

M&M 2024 Poster Awards

- Student Category (2): TBD
- Creative Canvas (1): TBD
- Poster Awards are being judged this week.
 Winners will be announced later.



2024 Society Awards



Presidential Service Award

for outstanding volunteer service to the society over a sustained period of time.



Donovan Leonard

Microsoft Quantum



K. F. J. Heinrich Award

A scientist less than 15 years from their terminal degree for distinguished technical contributions to the field of microanalysis.



Shelly Conroy

Imperial College London



Presidential Science Award

A senior scientist for outstanding technical contributions to the field of microanalysis over a sustained period of time.



Paul Kotula

Sandia National Laboratory



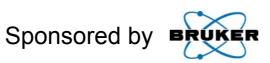
Peter Duncumb Award for Excellence in Microanalysis

Recognizes outstanding achievement in the field of microanalysis through technical accomplishment, leadership, and educational and professional activities



Sergei Kalinin

University of Tennessee, Knoxville





Education – Mary Scott

Meal with a Mentor



Fellows – Vin Smentkowski

- Committee Members
 - Mary Grace Burke (rotating off)
 - Lucille Giannuzzi
 - Rhonda Stroud
 - Heather Lowers



MAS Fellow, Class of 2024



Louis T. Germinario LG Analytical

The development of cryo-stages for in-situ SEM studies, single atom imaging, and service to the microanalysis community.

Microanalysis Society

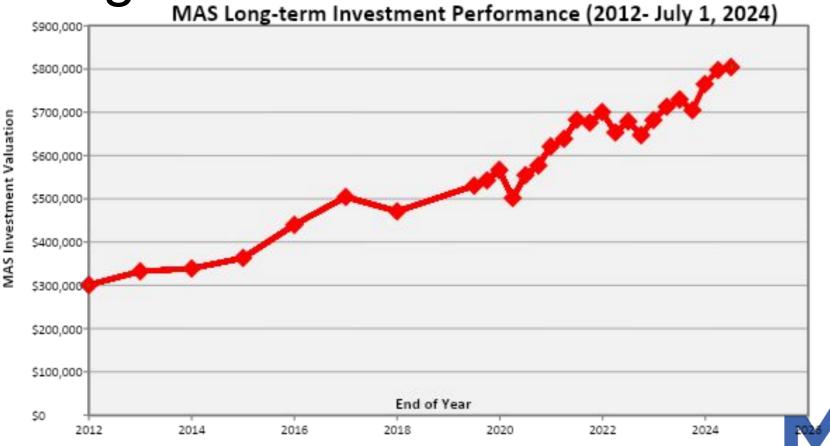
Finance – Pete McSwiggen

- Committee members
 - Donovan Leonard
 - Vincent Smentkowski
 - Rhonda Shroud
 - James McGee
 - Davis Tomlin (ex-officio)
 - Patrick Camus (ex-officio)



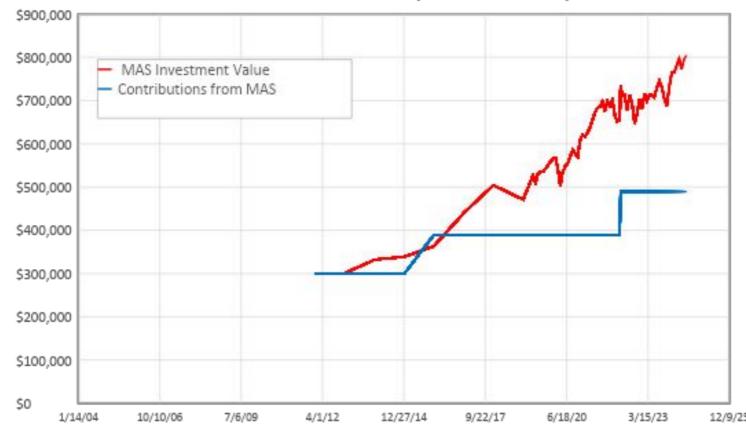
Long-Term Investment Performance

Microanalysis Society



Total Investment Performance

MAS Net Worth vs Contributions (Initial Investments)

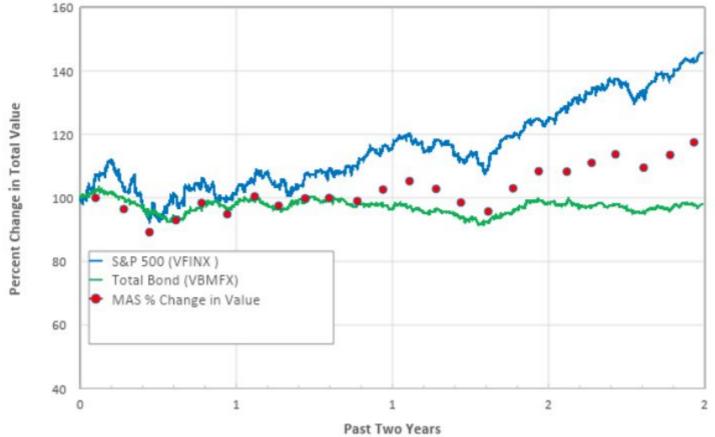


Jollar Value

Microanalysis Society

Investment Performance vs the Markets

MAS Investments versus Total Bonds & S&P 500





Investment Holdings over the Past Few Years – 1

Target Range	Category			12/31/20 12/31/21		12/31/22		12/31/23		6/30/24		% of Acct		
	2529	Equities												
		Large Cap Equity												
	Large-Blend	S&P 500 Index fund (SWPPX)	S	100,813.79	S	48,409.91	S	39,634.33	S	50,038.56	S	57,677.82	7.17	1%
	Large-Blend	US Broad Market ETF (SCHB)	\$	66,293.16	\$	83,405.53	\$	67,171.86	\$	84,753.38	\$	96,009.15	11.9	3%
	Large-Value	US Dividend Equity ETF (SCHD)	\$	65,012.80	\$	84,393.99	\$	81,628.64	\$	85,354.92	\$	87,853.15	10.9	2%
	Large-Growth	Schwab Large-Cap Growth (SCHG)			\$	39,926.56	\$	27,184.48	\$	40,794.97	\$	49,653.97	6.17	7%
10 - 30 %		Total Large Cap	\$	232,119.75	\$	256,135.99	\$	215,619.31	\$	260,941.83	\$	291,194.09	36.1	9%
		Mid/Sm Cap Equity												
	Mid-Cap Blend	Vanguard Mid Cap ETF (VO)	\$	32,445.62	\$	40,457.30	\$	32,880.87	\$	38,145.79	\$	39,853.75	4.95	5%
	Small-Cap Blend	Schwab Small-Cap Index Fund (SWSSX)			\$	40,770.64	\$	32,446.06	\$	37,980.39	\$	38,646.31	4.80)%
5 - 25%		Total Mid/Sm Cap	\$	32,445.62	\$	81,227.94	\$	65,326.93	\$	76,126.18	\$	78,500.06	9.76	5%
		Non-US Equity												
	Foreign Large Blend	International Equity ETF (SCHF)	\$	63,626.91	\$								0.00	J%
	Foreign Large Growth	Vanguard International Growth Fund (VWIGX)			\$	98,380.13	\$	68,025.61	\$	78,001.04	\$	84,017.98	10.4	4%
5 - 25%		Total Non-US Equity	\$	63,626.91	\$	98,380.13	\$	68,025.61	\$	78,001.04	\$	84,017.98	10.4	4%
35 - 65%		Total Equity	\$	328,192.28	\$	435,744.06	\$	348,971.85	\$	415,069.05	\$	453,712.13	56.3	9%



Investment Holdings over the Past Few Years – 2

		Fixed Income											
15 - 35%	US Interm Core Bonds	US Aggregate Bond Index ETF (SCHZ)	S	234,625.78	S	230,588.87	S	200,258.30	S	211,468.39	S	210,134.87	26.12%
	Inflation Protected Bond (TIP)	Schwab US TIPS ETF (SCHP)					\$	68,180.12	\$	70,843.15	\$	71,373.21	8.87%
	High-Yield Bonds	Fidelity Capital & Income Fund (FAGIX)											0.00%
	Long-term Corp Bonds	Vang Long-Term Invest-Grade Fund Investor Shares(VWESX)										83	0.00%
0 - 20%	International Bond												0.00%
20 - 50%		Total Fixed Income	\$	234,625.78	\$	230,588.87	\$	268,438.42	\$	282,311.54	\$	281,508.08	34.99%
	14 14	Alternative Investments										13	
	Real Estate	US REIT ETF (SCHH)	\$	-	\$	* 1					-,,-		0.00%
0-20%		Total Alternative Investments	\$	*	\$		\$	-	\$	-	\$	-	0.00%
		Cash											
	Money Market	Treasury Obl. Money Market fund (SNOXX)	\$	58,306.51	\$	33,062.52	\$	63,928.54	\$	67,020.46	\$	68,586.18	8.52%
	CD	CD Merchants Bank of Ind FDIC due 9/16/22					\$	-	\$	-	\$	-	0.00%
	Cash	Cash	\$	40.62	\$	1,051.68	\$	743.08	\$	746.94	\$	748.82	0.09%
0-15%		Total Cash	5	58,347.13	\$	34,114.20	S	64,671.62	\$	67,767.40	\$	69,335.00	8.62%
		Total	\$	621,165.19	\$	700,447.13	Ş	682,081.89	5	765,147.99	Ş	804,555.21	100.00%



International Liaison – Heather Lowers

- Asia-Pacific Microscopy Conference 13 February 2-7, 2025 in Brisbane Australia
- EMAS 2025 18th European Workshop on Modern Developments and Applications in Microbeam Analysis May 11-15, 2025 in Mataro Spain
- AMAS 2026 in Melbourne Dates not yet decided but hosted by Colin MacRae CSIRO
- IUMAS 9 2026 in Xi'an China



The 2023–2024 StC – PP Andres Marquez













EC Committee











PMC Committee

































RL Committee













PMCx60 2024 - Thank you, MAS!



PMCx60 2024

- Friday Night Social: Meet your StC and other community members
- Saturday All-Day: PMCx60
 - Scientific Program
 - Poster Sessions
 - Professional Development
- Saturday night banquet The Event Space at Nuevo (Riverfront Experience)
 - Socializing, raffles & poster prizes announced
 - Professional Networking
 - Open bar!
- New sponsors has joined!

Iridium Level

M/S Microanalysis Society

Platinum Level







Silver Level





Copper Level





















July 28-August 1 • Cleveland, OH



Thank you to our sponsors!

MICROSCOPY & MICROANALYSIS
July 28-August 1 • Cleveland, OH

Iridium Level



Sustaining Members – Steve Seddio

- 22 SMs have paid dues for 2024
 - 2 are MAS-only
- Lost 2 SMs
 - Gatan+EDAX
 - Bruker+Nion



Nominations Committee – Andy Herzing

- Assel Aitkaliyeva
- Thomas Lam



Executive Council Nominations



President-Elect Assel Aitkaliyeva Univ. of Florida



TreasurerDale Burns
Stanford Univ.



Director Nominations



Debangshu Mukherjee Oak Ridge



Aurélien Moy Gatan



Closing Remarks

- Thank You to:
 - All Council members



Closing Remarks

- Thank You to:
 - All Council members
 - All MAS members



Closing Remarks

- Thank You to:
 - All Council members
 - All MAS members
- Welcome Andy Herzing as President



SOCIAL

- Southern Tier Brewing Company
 - 811 Prospect Ave E

