



2024 MAS Summer Council Meeting
16 July, 2024, 13:00-16:00 EDT, via Zoom

Patrick Camus	(President 2022-2024)
Andrew Herzing	(President-Elect 2023-2024)
Owen Neill	(Secretary 2022-2025)
Dave Tomlin	(Treasurer 2023-2024)
Assel Aitkaliyeva	(Director 2022-2024)
Thomas Lam	(Director 2022-2024)
Katherine Burgess	(Director 2023-2025)
Jordan Hachtel	(Director 2023-2025)
Megan Holtz	(Director 2024-2026)
Jessica Riesterer	(Director 2024-2026)
Steve Seddio	(Commercial Director 2021-2025)
[VACANT]	(ARes 2022-2025)
John Fournelle	(Archivist 2010-2023)
Brad De Gregorio	(Awards 2020-2024)
Josh Taillon	(Computer Activities 2024-2027)
Mary Scott	(Education 2022-2024)
Abigail Lindstrom	(Goldstein Scholar Coordinator)
Vin Smentkowski	(Fellows 2024-2027)
Pete McSwiggen	(Finance 2021-2024)
Emma Bullock	(Membership 2023-2024)
Heather Lowers	(International Liaison)
Joe Boro	(Social Media 2022-2025)
Angela Halfpenny	(Strategic Planning 2024-2027)
Anette von der Handt	(Topical Conferences 2024-2027)
[VACANT]	(M&M Editorial Board)
Steven Spurgeon	(2024 M&M Co-Chair)
Stuart Wright	(2025 M&M Co-Chair)

Present on call: Assel Aitkaliyeva, Joe Boro, Emma Bullock, Pat Camus, Brad di Gregorio, Jordan Hachtel, Angela Halfpenny, Andy Herzing, Megan Holtz, Thomas Kelly, Thomas Lam, Thomas Marchese, Andrés Márquez, Pete McSwiggen, Owen Neill, Jessica Riesterer, Vin Smentkowski, Dave Tomlin

- Call to Order: 13:02 EDT (Pat Camus)
- Approval of Agenda (Pat Camus)
- Presidential Opening Remarks (Pat Camus)
- Secretary's Report (Owen Neill)
 - Emma Bullock made a motion to accept the minutes of [the 2024 Spring Council Meeting](#), Assel Aitkaliyeva seconded.
 - Motion carried.
- Treasurer's Report (Dave Tomlin)
 - Net income: \$25,531.43.
 - This is up significantly relative to the 2024 budget projections.
 - Pat and Dave reported on the finalized M&M2023 meeting co-share.
 - The final MAS co-share is \$12,746.71.
 - Total MAS expenses for the meeting were \$31,903.41.
 - Pat and Dave presented the MAS financial summary as of 6/30/2024:
 - Total income: \$80,745.56 (\$67,350.00 projected).
 - Total expenses: \$55,224.13 (\$114,450.00 projected).
 - Total liquid assets: \$180,392.99.
 - Total charitable funds: \$45,297.76.
 - This represents a significantly more healthy charitable fund relative to several years ago.
 - Schwab investment account: \$804,555.21.
 - Total encumbered assets: \$1,030,245.96.
 - Total unencumbered assets: \$984,948.20.
 - Pat and Dave presented the proposed MAS budget.
 - Projections for revenue and expenses were identical to 2024, with the exception of the following:
 - Projected income from General Membership was increased from \$12,000 to \$15,000.
 - Projected income from Sustaining Membership was decreased from \$18,000 to \$12,000.
 - Mergers between sustaining members are likely to continue, decreasing Sustaining Membership revenue in the future.
 - Projected income from the M&M2024 Co-Share remained at \$50,000.

- A line item was added to the Expenses to cover MAS' membership in ASTM/ISO, in the amount of \$1562.50
 - Another line item was added to the Expenses to cover \$10,000 for seed initiatives proposed by the Strategic Planning Committee.
 - o This will be discussed further in the Strategic Planning Committee's report.
 - Projected expenses for the MAS booth at M&M2024 were increased from \$1,000 to \$1,500, based on the expenses from 2023.
- o Pat asked for a motion to approve the 2025 budget as presented, to be presented to the MAS membership at the Business Meeting.
 - Emma made a motion to approve the 2025 budget as presented, Angela Halfpenny seconded.
 - Motion carried
- o Pat reported that the MAS F990 has been filed with the IRS.
- o Dave's term as Treasurer will end at the end of 2024.
 - Dave will work on transferring the accounts to the new Treasurer in early 2025.
- Membership (Emma Bullock)
 - o Emma reported that as of 16 July, 2024, MAS had 794 members in good standing, down from 1087 members one year ago.
 - Some more registrations are expected close to M&M2024, but this is still down from 2023 (though up from 2022).
 - This may be partially due to the Klaus Keil Memorial Symposium attracting planetary scientists to register and attend M&M2023, when they otherwise would not have attended.
 - Of the 794 members, 61 are MAS-only, while 96 are students.
 - o Emma reminded Council members to sign up to work at the MAS booth at M&M2024.
- FIGMAS (Emma Bullock)
 - o The FIGMAS Business Meeting will take place at M&M2024 on Thursday, 1 August, at 12:15PM in Room A25.
 - The agenda for this meeting has been sent out to the FIGMAS membership.
 - FIGMAS Council will review current FIGMAS activities.
 - FIGMAS Council will discuss preliminary plans to conduct a Topical Conference in 2026.
 - There are no plans for FIGMAS to separate from MSA/MAS at this

time.

- FIGMAS leadership elections will be held in the fall, including the following candidates:
 - Leader: Aurélien Moy, Donggao Zhao
 - Secretary/Treasurer: Andrew Mott
 - Other candidates may be nominated at the FIGMAS Business Meeting.
- Strategic Planning Committee (Angela Halfpenny)
 - Angela reviewed a proposal from FIGMAS under consideration by the Strategic Planning Committee.
 - Funding for this proposal would support:
 - Identifying a pair of synthetic standard materials for each major element that could be synthesized reproducibly.
 - Characterizing an aliquot of the material using multiple techniques for chemical and structural analysis.
 - Allowing the materials to be made freely available to any interested and qualified lab.
 - Data from the characterization of the new materials would also assist with creating a consensus K-ratio database.
 - Under the terms of this proposal, MAS would provide \$10,000/year for 5 years, followed by \$15,000/year for another 5 years.
 - The second round of funding would be contingent upon completion of a satisfactory report on the outcomes of the first 5 years of funding.
 - Will Nachlas, former FIGMAS leader, is submitting an NSF proposal that would build on these funds, but this is a standalone proposal and not contingent on MAS funding.
- M&M Meeting Updates (Pat Camus)
 - Pat reported that the MAS Social will take place at the Southern Tier Brewing Co. on Wednesday night.
 - Pat showed a short video of the facility.
 - Joe Boro created a flier advertising the Social that can be shared by Council.
 - Tom Marchese noted that the schedule is on the M&M app.
 - Pat also reported on M&M2025, which will take place in Salt Lake City.
 - The MAS Co-Chair will be Stuart Wright (EDAX/Gatan).
 - Pat noted that MAS should always endeavor to have at least one EPMA/SEM symposium at each M&M meeting.

- Angela asked if Sunday short courses could be proposed for M&M2025.
 - Angela added that a colleague in the UK had asked about proposing a Sunday short course on automated EBSD data processing.
 - Pat said this should be possible, but proposals should be sent to Stuart very soon.
- Archivist (Pat Camus for John Fournelle)
 - o Tom Kelly gave background on the LEAP2000 atom probe.
 - The LEAP2000 was the first atom probe shipped by Imago, which was operated by Oak Ridge National Lab until 2015.
 - When ORNL proposed to dispose of the instrument, Tom and John Panitz bought the instrument to restore and display the instrument at John's museum in Albuquerque.
 - The instrument was then moved to Madison, where it was partially restored by Cameca and where it currently resides awaiting a permanent home.
 - o Penn State has offered to display the instrument in the lobby of the Osmond Building, which is currently being renovated.
 - o Tom reported that the previous request made to MAS and MSA for financial support for saving the LEAP 2000 may not be necessary, as Penn State is planning to cover costs of moving and displaying it in their facility.
- Affiliated Regional Societies (Pat Camus)
 - o Pat will sound out new potential AReS Chairs at M&M2024.
- Awards Committee (Brad de Gregorio)
 - o Brad thanked the Awards Committee members, Assel Aitkaliyeva, Thomas Lam, Jennika Greer (at-large member) and Aurélien Moy (at-large member) for their efforts.
 - o Brad announced the M&M2024 Society Award winners:
 - Duncumb Award: Sergei Kalinin, Oak Ridge National Laboratory.
 - Henrich Award: Shelly Conroy, Imperial College London.
 - Presidential Science Award: Paul Kotula, Sandia National Laboratory.
 - Presidential Service Award: Donovan Leonard, Microsoft Quantum.
 - The Award plaques have been completed and shipped to Cleveland.
 - An article describing the award has been submitted to Microscopy Today and will be published soon.
 - Pat asked whether awardee information has gone to the Plenary organizers

- Brad confirmed that it had.
- o Brad also reported that the sports towels to be used as rewards for Best Paper reviewers have been made, and that he will bring them to M&M to give out.
- o Brad described the poster awards process for M&M2024.
 - Sixteen student and nine Creative Canvas submissions have been identified as potential award candidates.
 - The quality of these candidates will be judged over the course of the week.
 - Brad has designed a scorecard and will print out copies for judges.
 - One Creative Canvas and two student award winners will be selected by the Awards Committee after the meeting.
 - Brad asked Council whether the number of Creative Canvas awardees should be increased to two instead of one, to create more opportunities for technologists to be recognized.
 - Angela agreed, adding that another Creative Canvas award could incentivize attendance by technologists, who might not otherwise receive support from their institution to attend M&M.
 - Pat approved of the idea as well.
 - Andy asked whether it would make sense to increase the number of both student and Creative Canvas awardees to three rather than two.
 - o Brad replied that the candidate pool was probably not big enough to justify three awardees.
- o Brad described the action items remaining prior to M&M.
 - Brad will check the status of the website for Best Paper nominations, and the poster with the QR code linking to this site.
 - Brad will also set up email blasts to membership, requesting that they submit Best Paper nominations via the website.
 - Finally, Brad will design and print a poster for the MAS booth with links to the Best Paper nomination website, to be a permanent part of the MAS meeting kit.
 - Pat suggested making this poster generic so it could be used at future meetings.
- o Pat suggested that award amounts be increased to \$1500 from \$1000, as travel costs have increased.
- o Pat described a proposal for another student-only poster award for instrument or hardware development, to be sponsored by a vendor.
 - Pat said he would follow up with the vendor and communicate the details to the Strategic Planning Committee once they have been finalized.
 - The amount of the award would be the cost of M&M registration.

- Brad supported the idea of the award, but noted the need to make sure there is a way to flag candidates for this award during registration.
- Computer Activities (Pat Camus for Josh Taillon)
 - No report.
- Education Committee (Pat Camus for Mary Scott)
 - Planning for Meal with a Mentor is going well, and the event is nearly at full capacity.
 - Pat reported that the event could use ~5 more mentors, particularly from industry.
- Fellows Committee (Vin Smentkowski)
 - Vin reported that the committee reviewed three nomination packages.
 - Louis Germinario has been named a 2024 MAS Fellow for ““The development of cryo-stages for in-situ SEM studies, single atom imaging, and service to the microanalysis community.”
 - Vin has prepared a short summary of this nomination for the Business Meeting.
 - Vin asked that a short write up of Louis’ Fellowship be posted to the website, and to the MAS social media channels.
 - Vin also asked that the MAS website be updated to include Louis in the list of MAS Fellows.
 - Pat recommended that Vin contact Josh Taillon and Joe Boro about adding these items to the MAS website and social media.
 - Vin asked that MAS members submit nomination packages for new Fellows to him or the Fellows Committee.
- Finance Committee (Pete McSwiggen)
 - Pete reported that the MAS investments have fully recovered from the downturn in 2022.
 - At the start of the 2022 downturn, there was ~\$700,000 in the account, to which an additional \$100,000 was transferred.
 - As of 7/11/24 the account’s value had risen to \$821,000, indicating that all losses from the downturn had been recovered.
 - The account’s performance remains between the performance of the S&P 500 and bond market, as MAS is required to maintain a balanced portfolio.
 - Pete suggested that MAS creates a set policy for the use of investment account funds for Strategic Planning initiatives.
 - The first part of this policy would be to establish a reserve fund that would only be spent in the event of a major disruption to MAS financial situation.

- The pandemic was a major incident, but MAS was able to escape rather luckily, since the hotel rooms from M&M2020 were able to re-sold to another organization.
 - The second part of this policy would be to treat the money beyond the rainy day fund as an endowed fund, mirroring how similar funds are treated at universities.
 - In such a scenario, the Society would spend the growth on the investments, but not the investments themselves.
 - This could be calculated based on the return on the investment, with the rate of inflation subtracted to establish the amount that could be spent on new initiatives.
 - Pat agreed that a defined policy for using investment funds for Strategic Planning initiatives is necessary.
 - Dave said he would prepare an estimate for the amount needed to be held in such a reserve fund, and present it at M&M2024.
 - Dave noted that MSA's reserve fund is ~\$2,500,000, which represents approximately one year of revenue from the M&M meeting.
 - As MAS' revenue from M&M is ~10% of MSA's, the MAS reserve fund would be approximately \$250,000.
 - Pete asked if this was a one-year fund or a multi-year fund.
 - Dave responded that the MSA reserve fund is to cover one one year without M&M revenue.
 - Angela suggested that M&M registration for MAS Committee chairs be comped, as it is for the Executive Council.
 - This would cost ~\$15,000 per meeting.
 - Emma noted that some Committee chairs already are reimbursed for registration.
- International Liaison (Pat Camus for Heather Lowers)
 - Pat reported that he attended the EMAS2024 meeting in Brno, which went well.
 - Pat reported on several other upcoming international meetings in microanalysis:
 - The 18th European Workshop on Modern Developments and Applications in Microbeam Analysis (EMAS2025) meeting will take place May 11-15, 2025 in Mataro, Spain.
 - The dates for the AMAS2026 meeting in Melbourne are still to be determined, but the event will be hosted largely by CSIRO.
 - The 2025 Asia-Pacific Microscopy Conference will take place 2-7 February, 2025 in Brisbane.
 - The IUMAS9 meeting will take place in Xi'an, China in 2026.

- o Pat asked whether anyone from Council had submitted an abstract for the GSA Connects 2024 meeting, taking place 22-25 September, 2024 in Anaheim, CA.
 - The Geological Society of America had invited MAS to send a representative; anyone interested should contact Pat.
- Microscopy & Microanalysis Journal (Pat Camus for John Mansfield)
 - o No report.
- MSA Student Council (Andrés Márquez)
 - o Pat introduced Andrés Márquez, the new President of the MSA Student Council.
 - o Andrés thanked MAS, and Pat in particular, for the continued support of the Student Council.
 - o Andrés reported that the Student Council has grown and participated in local society and non-microscopy conferences.
 - o Andrés outlined the new goals of the Student Council.
 - Expanding reach of Student Council and it's Regional Liaison's through:
 - Expanding the number of Regional Liaison positions.
 - Promoting the participation of Student Council members and Regional Liaison's in Local Affiliated Society events.
 - Promoting the participation of Student Council members and Regional Liaison's in non-microscopy focused meetings and events.
 - Encouraging member participation in Student Council through an image contest, webinars, travel awards for participants, Student Council online events and updates, and social events.
 - Focusing on the career development of student members through:
 - Increased access to mentors.
 - Providing guidance for job seeking and career development.
 - Sessions for career advice for postdocs.
 - Creating a Post-Doc Subcommittee to improve integration of postdocs into the Student Council, and to create programs and content that postdocs would find beneficial.
 - Create programs/content beneficial for postdocs.
 - o In the past year, the Student Council has participated in 15 conferences and workshops, hosted three Student Council events, hosted three workshops, participated in the Women in Microscopy Conference at Northwestern University, and hosted an International Student Mixer.
 - o Andrés described the Student Council Pre-Meeting Congress (PMC x6) at M&M 2024.
 - A social will take place on Friday (26 July) night, at a location to be

announced.

- The scientific program on Saturday, 27 July, includes breakfast, platform talks, several career development workshops and a poster session.
 - The Student Council banquet will take place at 6:30PM at The Event Space at Nuevo.
- Sustaining Members (Pat Camus for Steve Seddio)
 - Pat reported that there are currently 22 paid Sustaining Members, of which two are MAS-only.
 - Two sustaining memberships were lost due to the Gatan/EDAX and Bruker/Nion mergers, a trend that will likely continue and lead to the loss of more Sustaining Memberships.
 - Pat added that Steve will be reaching out to Direct Electron, ICDD, Quantum Detectors, and the Lehigh Microscopy School, who are currently Sustaining Members of only MSA.
 - Steve's attempts to reach companies such as Allied, Buehler and Struers have not been successful.
 - Plaques for the Sustaining Members have been made and will be brought to the conference by Dave.
 - Topical Conferences (Pat Camus for Anette von der Handt)
 - Pat reported that there has been interest in Topical Conferences in EPMA/QMA, microanalytical standards, and Hyperspy/data analysis.
 - Angela added that several people have expressed interest in an EBSD topical conference.
 - Dave noted that Topical Conferences have historically been very lucrative for MAS.
 - The pause in Topical Conferences since the pandemic has been a significant loss of revenue.
 - Nominations Committee (Andy Herzing)
 - Andy reported on the nominees for elected Council positions for 2024.
 - President: Assel Aitkalieva, University of Florida.
 - Andy noted that Assel serves on the Nominations Committee, but her nomination was initiated from outside the Committee to avoid conflict of interest.
 - Treasurer: Dale Burns, Stanford University.
 - Director: Eight people have been nominated.
 - The Committee will work to narrow this down to four candidates during M&M2024.

- o Angela asked if there were any rules about multiple people from the same institution being nominated, as this can also create conflicts of interest.
 - Andy responded that no restrictions are codified in the bylaws, although the committee does take such potential conflicts into account internally.
- Other Business (Pat Camus)
 - o There has been no update from Nestor Zaluzec regarding MAS' ASTM/ISO participation.
 - o The MAS Business Meeting will take place at 5:30 PM on 31 July in Room 13.
 - o Pat reminded Council that MAS members must check in at the MAS booth for tickets to the social.
 - o The Fall Council meeting will tentatively be scheduled for 5-6 November.
 - o Dave noted that Nestor had persuaded MSA to pay for half of the ASTM/ISO fees.
- Adjourn 14:28.