Secretary Report

Chad Parish (2018-2022)

For Council Consideration

Approve minutes of the 2020 Summer Council Meeting.
Treasurer Report

Dave Tomlin (2020-2022)
### Ongoing Activities & Updates

<table>
<thead>
<tr>
<th>Account</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAS Liquid Assets (12/31/2020)</strong></td>
<td>$210,407.42</td>
</tr>
<tr>
<td>Chase Checking</td>
<td>$20,415.28</td>
</tr>
<tr>
<td>Chase Savings</td>
<td>$185,234.81</td>
</tr>
<tr>
<td>Pay Pal</td>
<td>$4,757.33</td>
</tr>
<tr>
<td><strong>Charitable Fund Totals</strong></td>
<td>$37,458.24</td>
</tr>
<tr>
<td>Chodos (Student Activities)</td>
<td>$14,262.78</td>
</tr>
<tr>
<td>Fiori (ARes)</td>
<td>$15,740.52</td>
</tr>
<tr>
<td>Goldstien (Early Career Scholarships)</td>
<td>$7,454.94</td>
</tr>
<tr>
<td><strong>Schwab Investment Account (12/31/2020)</strong></td>
<td>$621,165.19</td>
</tr>
<tr>
<td><strong>Total Society Assets</strong></td>
<td>$869,030.85</td>
</tr>
</tbody>
</table>
For Council Consideration

During MSA-SC decided to fund a Diversity Mixer like they do for the Students and Post-Docs. MAS told them that we would be willing to cost-share this with them and to let us know the details.
Finance Committee

Jim McGee, Chair (2017-2020)
Pete McSwiggen, Chair (2021-2024)
Donovan Leonard
Vincent Smentkowski
Rhonda Stroud

Ex Officio

David Tomlin (Treasurer)
Heather Lowers (President)
The year 2020 was a dramatic year in the markets, with a sharp 20% decline in March, and yet the MAS investments ended the year with positive growth. Table 1 shows the breakdown of the MAS investments by funds, and Table 2 show their performance relative to comparative indices. Figure 1 shows the growth of the MAS investments since the establishment of the Finance Committee (2012).

- Presently, the MAS investments (excluding MAS operating accounts) are worth $621,165.
- The represents a 9.63% growth for the year 2020 or a growth of 8.23% over inflation.
- Our investment strategy is for moderate to moderately conservative growth while keeping risks low, but to average a 4% growth above inflation over the long term.
- Since 2012, MAS investments have grown from $299,608 to $621,165. This comes from $90,000 in deposits and $231,557 in capital gains from the investments. This represents a total capital gain of 77.3% for the period, or 8.6% gain on average per year.

**Table 1. MAS investments**

<table>
<thead>
<tr>
<th>Fund Type</th>
<th>Balance 12/31/20</th>
<th>% of Portfolio</th>
<th>% Return (2020)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equity Funds (Target: 50%)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S&amp;P 500 Index fund (SWPPX)</td>
<td>Large-Cap, Blend</td>
<td>$100,814</td>
<td>16.20%</td>
</tr>
<tr>
<td>US Broad Market ETF (SCHB)</td>
<td>Large-Cap, Blend</td>
<td>$66,293</td>
<td>10.70%</td>
</tr>
<tr>
<td>US Dividend Equity ETF (SCHD)</td>
<td>Large-Cap, Value</td>
<td>$65,013</td>
<td>10.50%</td>
</tr>
<tr>
<td>International Equity ETF (SCHF)</td>
<td>Foreign, Large-cap, Blend</td>
<td>$63,627</td>
<td>10.20%</td>
</tr>
<tr>
<td>Vanguard Mid Cap Index (VO)</td>
<td>Mid-Cap, Blend</td>
<td>$32,446</td>
<td>5.20%</td>
</tr>
<tr>
<td><strong>Alternative Funds (Target: 5%)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US REIT ETF (SCHH)</td>
<td>Real Estate</td>
<td>$0</td>
<td>0.00%</td>
</tr>
<tr>
<td><strong>Fixed Income (Target: 35%)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US Aggregate Bond Index ETF (SCHZ)</td>
<td>US Intern Core Bond</td>
<td>$234,626</td>
<td>37.80%</td>
</tr>
<tr>
<td><strong>Money Market/Cash (Target: 10%)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treasury Obl. Money Market</td>
<td>Money Market</td>
<td>$58,307</td>
<td>9.40%</td>
</tr>
<tr>
<td>Cash</td>
<td></td>
<td>$41</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>$621,165</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

**Table 2. Comparative Annual Investment Performance**

<table>
<thead>
<tr>
<th>Investment Performance 2020</th>
<th>MAS Inv.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOY 2020 Balance</td>
<td>$621,165</td>
</tr>
<tr>
<td>1 Yr (2020) Return</td>
<td>9.63%</td>
</tr>
<tr>
<td>1 Yr CPI (2020 inflation index)</td>
<td>1.40%</td>
</tr>
<tr>
<td>1 Yr Net Gain over Inflation</td>
<td>8.23%</td>
</tr>
</tbody>
</table>

**Net Gain over Inflation of Comparative Indices**

| Standard & Poor’s 500 | 16.94% |
| Dow Jones Industrial Average | 8.30% |
| Bloomberg Barclays U.S. Aggregate Bond | 6.09% |
| 3-Month Treasury Bill | -0.82%

Figure 1. MAS investment growth from 2012 to 2020.
Membership

Emma Bullock, Chair (2020-2022)
Ongoing Activities & Updates

- Most recent database pull: Jan 8th, 2021
- Shows 294 current members, of which 16 are MAS only
- ~40 are students
- A lot of people renew around M&M time
  - Membership runs on the calendar year
  - Need to post clarification of membership dates online?
  - How else do we let people know?
- Renewing before September 30th - valid until end of calendar year
- Renewing after October 1st - valid for rest of calendar year, and all of next calendar year
- Do we need a formal process for Emeritus members?
  - At present, I rely on them contacting me, and then I let Virtual Inc know and they update the database
Ongoing Activities & Updates

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- A lot of people renew around M&M time
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Ongoing Activities & Updates

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● A lot of people renew around M&M time
  ○ Membership runs on the calendar year
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  ○ How else do we let people know?
● Renewing before September 30th - valid until end of calendar year
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● Do we need a formal process for Emeritus members?
  ○ At present, I rely on them contacting me, and then I let Virtual Inc know and they update the database
Sustaining Membership & Corporate Liaison

Steve Seddio, Commercial Director (2021-2023)
Ongoing Activities & Updates

● commercial-at-the-mas.org
  ○ New Commercial director email address
  ○ Thanks MAS Web administrator!

● Sustaining Member renewal notices should have been sent by the MSA in Autumn.

● I have reached out to MSA, inquiring about the results.
  ○ Will update the SM database accordingly.
  ○ Will reach out to remind any that have not renewed.
Fellows

Tom Kelly (Chair)
M. Grace Burke
Lucille Giannuzzi
Jon McCarthy
Dale Newbury
Heather Lovers (ex officio)
Rhonda Stroud (ex officio)
## Current Fellows of MAS

<table>
<thead>
<tr>
<th>Name</th>
<th>Gender</th>
<th>Inducted</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Bentley</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Wilbur Bigelow</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Mary Grace Burke</td>
<td>Female</td>
<td>Legends</td>
</tr>
<tr>
<td>C. Barry Carter</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Gordon Cleaver</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>John Colby</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Peter Duncumb</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Raymond Fitzgerald</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Lucille Giannuzzi</td>
<td>Female</td>
<td>Legends</td>
</tr>
<tr>
<td>Brendan Griffin</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>David Joy</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Klaus Keil</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Ondrej Krivanek</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Richard Leapman</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Eric Lifshin</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Ryna Marinenko</td>
<td>Female</td>
<td>Legends</td>
</tr>
<tr>
<td>Jon McCarthy</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Robert Myklebust</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Dale Newbury</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Jean Philibert</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Stephen Reed</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Phil Russell</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Frederick Schamber</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Ryuichi Shimizu</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Georges Slodzian</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Peter Statham</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>David Williams</td>
<td>M</td>
<td>Legends</td>
</tr>
<tr>
<td>Nestor Zaluzec</td>
<td>M</td>
<td>Legends</td>
</tr>
</tbody>
</table>

*Deceased

<table>
<thead>
<tr>
<th>Name</th>
<th>Gender</th>
<th>Inducted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ian Anderson</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Phil Batson</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Paul Carpenter</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Bill Chambers</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>John Donovan</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Vinayak D. David</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Ray Egerton</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>John Fournelle</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Hamish Fraser</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Raynard Gauvin</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Paul Hlava</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Thomas Huber*</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Michael Jercinovic</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Cathy Johnson</td>
<td>Female</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Thomas Kelly</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Paul Kotula</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Charles Lyman</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>John Mansfield</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Joseph Michael</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Inga Musselman</td>
<td>Female</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Nicholas Ritchie</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>John Henry Scott</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>John Small</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Ed Vicenzi</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Masashi Watanabe</td>
<td>M</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Valerie Woodward</td>
<td>Female</td>
<td>Inaugural</td>
</tr>
<tr>
<td>Christopher Kiely</td>
<td>M</td>
<td>2020</td>
</tr>
<tr>
<td>Lothar Strüder</td>
<td>M</td>
<td>2020</td>
</tr>
<tr>
<td>Yimei Zhu</td>
<td>M</td>
<td>2020</td>
</tr>
</tbody>
</table>
Recent Activity

Nominations deadline
- The annual deadline for receipt of Fellows nominations is September 30
- Current membership is between 550 and 600
- We seek up to 0.5% new Fellows (2 to 3) for a target of 10% (~57)

Evaluation of Nominees for Class of 2021 MAS Fellows
- We received one new nomination and had four continuing nominations
  - Each nomination is valid for 3 years
- We discussed the importance of Society engagement/impact of nominees
  - The Committee decided to explicitly rank nominees on Societal engagement/impact in addition to technical contributions to the field
- Some background work was performed on nominees with whom we lacked familiarity
- There were two clear Fellows inductees from this process
MAS Fellows
Proposed Class of 2021

- **Alan Sandborg**
  - For pioneering developments of Silicon and Germanium detectors and electronics systems for EDS on electron beam instruments for over 50 years

- **Vincent S. Smentkowski**
  - For outstanding leadership and sustained contributions to development of surface science techniques and multivariate statistical analysis methods in microanalysis
Fellows at M&M

- If possible, we should seek to have each Fellow be acknowledged on stage at the next in-person M&M
  - 2020 Fellows
  - 2021 Fellows
  - 2022 Fellows?
- Slides such as the following will be prepared for the new class
Christopher Kiely

For outstanding leadership and sustained contributions to analytical electron microscopy of nanoparticle self-assembly, metal and complex oxide catalysts, and interfacial analysis

January 26, 2021

Lothar Strüder

For outstanding leadership and sustained contributions to development and commercialization of the Silicon Drift Detector for energy-dispersive spectroscopy

January 26, 2021
Spring 2021 Activity

- The Committee noted concern that we had only one new nomination for Fellow
  - We have developed a plan to increase the number of nominees
  - The general announcement will be studied to be more explicit in seeking worthy candidates
  - The Chair will send emails to the following groups soliciting names
    - MAS Fellows
    - Past Presidents
    - Past Council Members
    - Past Program Chairs
- We would like more information on our nominees and their MAS membership
  - We seek a more data driven assessment
    - Ask explicitly for this information in our nomination packages
    - Can we work with our Membership Chair to develop ways to capture MAS activity by members?
Awards Committee

Bradley De Gregorio, Chair (2020-2023)
Ongoing Activities & Updates

We received 23 Best Paper nominations for M&M, but 8 of them were duplicates, so 15 unique nominations. Only 2 nominations each for best instrumentation/software paper and best contributed papers, so we should think how to better promote those categories for next year.

Awards review committee convened mid-October and completed evaluations end of November. Members are: Abbi Lindstrom, Donovan Leonard, Andy Herzing, and Stephen Boona (Ohio State). Recommendations are:

Birks (Best Contributed Sponsored by JEOL): Paper #803 - Sheryl Singerling - “TEM Structural and Compositional Studies of Presolar SiC Grains and Their Relation to Raman Spectra”


Castaing (Best Student Sponsored by Cameca): Paper #589 - Berit Goodge - Sub-Ångstrom EDX Mapping Enabled by a High-Brightness Cold Field Emission Source

Macres (Best Instrumentation/Software Sponsored by Oxford Instruments): Paper #199 Aurélien Moy - “BadgerFilm: An Open Source Thin Film Analysis Program”
Education

Jim Lebeau (2018-2020)
Abigail Lindstrom
Rhonda Stroud
Ongoing Activities & Updates

Panel Discussion on Mentoring for an Inclusive M&M Community -- M&M is a diverse community organized by Rhonda. The aim of the panel was to make the microanalysis community more inclusive and equitable. Four of our members agreed to serve on the panel.

1. Gracie Burke (MAS Fellow)
2. Vinayak Dravid (MAS Fellow)
3. Debbie Kelly (MSA biologist)
4. Treva Brown (MSA/MAS social media)

We had a diverse set of ~50 attendees and the feedback to the panel was positive and provided some actionable items (next slide)

Goldstein Scholars program has been complicated by Covid
For Council Consideration

Would an annual panel discussion be more valuable to the student community? While the lunch with a mentor has been popular, perhaps we can merge the two events?

We had a list of actionable items from the inclusion panel:

- adding demographic info questions to the membership database
- self sign for creating a minority speaker list
- purchasing some microscopy learning kits that could be used by local societies for outreach
- making sure we target minority serving institutions for advertising national and local meetings
Computer Activities

Anette von der Handt (2020-2023)
Observations:

- Reduced traffic relative to previous year
- Notable drivers for traffic: Webinars, Awards, Goldstein Scholar Awards
- Social network referrals dominantly from Twitter
- Limited engagement with the webpage.
Things done:

- Various posts and notifications on the webpage
- Kept webpage current (e.g. updated council and committee chair information, award winners etc)
- Coordinated with and provided material for social media
- Coordinated setting up MAS user accounts
- Facilitated three AReS webinars
  - Surface Microscopy and Microanalysis in an Industrial Research and Development Laboratory: General Electric – Research (Vin Smentkowski)
  - Correcting the Scientific Record: RNA Mediation of Pd Metal-Metal Bonds (Donovan Leonard)
  - TKD 101: An Introduction to Transmission Kikuchi Diffraction (Chad Parish)

Plans going forward:

- Continue with AReS webinars
- Coordinate about M&M2021 content
- Explore creating online games (Puzzle, Word Search, Memory; PuzzleMe) to drive recurring visitors to the webpage
- Create page with educational resources for online teaching?
## Current MAS user accounts

<table>
<thead>
<tr>
<th>User accounts</th>
<th>First Name</th>
<th>Last Name</th>
<th>MAS Role</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:President@the-mas.org">President@the-mas.org</a></td>
<td>Heather</td>
<td>Lovers</td>
<td>President</td>
</tr>
<tr>
<td><a href="mailto:PastPres@the-mas.org">PastPres@the-mas.org</a></td>
<td>Rhonda</td>
<td>Stroud</td>
<td>Past President</td>
</tr>
<tr>
<td><a href="mailto:Secretary@the-mas.org">Secretary@the-mas.org</a></td>
<td>Chad</td>
<td>Parish</td>
<td>Secretary</td>
</tr>
<tr>
<td><a href="mailto:Treasurer@the-mas.org">Treasurer@the-mas.org</a></td>
<td>Dave</td>
<td>Tomlin</td>
<td>Treasurer</td>
</tr>
<tr>
<td><a href="mailto:Commercial@the-mas.org">Commercial@the-mas.org</a></td>
<td>Steve</td>
<td>Seddio</td>
<td>Commercial Director</td>
</tr>
<tr>
<td><a href="mailto:MASmembership@the-mas.org">MASmembership@the-mas.org</a></td>
<td>Emma</td>
<td>Bullock</td>
<td>Membership Chair</td>
</tr>
<tr>
<td><a href="mailto:AReS-speaker@the-mas.org">AReS-speaker@the-mas.org</a></td>
<td>Kerry</td>
<td>Siebein</td>
<td>AreS -speaker Chair</td>
</tr>
<tr>
<td><a href="mailto:Goldstein_Scholar@the-mas.org">Goldstein_Scholar@the-mas.org</a></td>
<td>Abby</td>
<td>Lindstrom</td>
<td>Goldstein Scholar, Director</td>
</tr>
<tr>
<td><a href="mailto:awards@the-mas.org">awards@the-mas.org</a></td>
<td>Brad</td>
<td>de Gregorio</td>
<td>Awards Chair</td>
</tr>
<tr>
<td><a href="mailto:social-media@the-mas.org">social-media@the-mas.org</a></td>
<td>Dan</td>
<td>Ruscitto</td>
<td>Social Media Chair</td>
</tr>
<tr>
<td><a href="mailto:webby@the-mas.org">webby@the-mas.org</a></td>
<td>Anette</td>
<td>von der Handt</td>
<td>Computer activities</td>
</tr>
<tr>
<td><a href="mailto:TC@the-mas.org">TC@the-mas.org</a></td>
<td>Yoosuf</td>
<td>Picard</td>
<td>Topical Conferences</td>
</tr>
<tr>
<td><a href="mailto:Fellows@the-mas.org">Fellows@the-mas.org</a></td>
<td>Thomas</td>
<td>Kelly</td>
<td>Fellows Chair</td>
</tr>
<tr>
<td><a href="mailto:Finance@the-mas.org">Finance@the-mas.org</a></td>
<td>Jim</td>
<td>McGee</td>
<td>Finance Chair</td>
</tr>
<tr>
<td><a href="mailto:Joshua.Taillon@the-mas.org">Joshua.Taillon@the-mas.org</a></td>
<td>Joshua</td>
<td>Taillon</td>
<td>Director</td>
</tr>
</tbody>
</table>
Social Media

Dan Ruscitto, Chair (2018-2021)
Kathleen Pullin (GWU) helping out with content generation (hiatus Jan-Feb)
 Throwback Thursday content from Anette and John from the Science History Inst.
 How much interaction do we want, particularly on Twitter?
MAS launched its first set of Sponsored Virtual Seminars last year and they were a smashing success! It was a great way for MAS to reach out to the community and let people know that the society was working to keep them connected during the pandemic. The first 3 seminars were given by Vin Smentkowski, Donovan Leonard and Chad Parish. Thank you all for participating as a speaker in the program! I think it is great way to keep in touch with the members at time when there are no in person meetings.

It would be great to get the MAS monthly seminar series going again for 2021.

<table>
<thead>
<tr>
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Archivist

John Fournelle (2010-2023)
Ongoing Activities & Updates

- Slowly working on indexing the 13 boxes of files in my basement (now all off the floor); foresee sending them to SHI this coming summer
- Researching the (back) story of Gene Jarosewich and the development of the Smithsonian microbeam standards, with assistance of his family and Smithsonian colleagues from that era (1960s-1970s). With eventual publication.
- Researching the (back) story of C. O. Ingamells and his work on developing microbeam standards at Penn State and USGS in 1960s-1970s (including initial work at Minnesota Rock Analysis Lab and later at AMAX), with assistance of one of his former colleagues.
- Transcripts of interviews: has been on back-burner, but will get back to it
- Question of membership records: I have some, but very incomplete; plan to contact some past officers to see what can be archived
International Liaison

Heather Lowers (2017-2023)

AMAS will hold a virtual meeting in 2021. They plan to join ACMM in January 30 - February 3, 2022 in Perth for an in person gathering.

EMAS postponed until May 7-11, 2022 in Krakow, Poland. Exact schedule to come.

IUMAS postponed until June 11-17, 2023. This will be held jointly with Microscopical Society of Canada.

For Council Consideration

- Council selects two Early Career Scholars. One to attend AMAS virtual event and another to attend EMAS, either virtually or in person.
- Select IUMAS representative to be the single point of contact between MAS and IUMAS for scientific program planning.
Topical Conferences

Yoosuf Picard, Chair (2020-2023)
Update of pending TC Series: EBSD

- Last EBSD TC was 2018 (Univ. of Michigan)
- Next EBSD TC: originally planned for 2020, pushed to 2021, now further pushed back to Spring/Summer 2022
  - In-person meeting at University of Michigan
  - Virtual meeting for 2021 was discussed, but there was little interest in organizing such an event
- EBSD 2022 Committee: Joseph Michael, Andrew Cross, Sarah Brownlee, Chad Parish, Bobby Kerns, Steve Niezgoda, John Mansfield, John Allison

Update of pending TC Series: QMA

- Last QMA TC: 2019 (University of Minnesota)
- QMA TC: originally planned for 2021, now pushed back to Spring/Summer 2022
  - Might still function in coordination with IUMAS-8
- QMA 20xx organizing committee undetermined at this time
Important considerations: scheduling

- IUMAS-8: scheduled for June 2023

- Andy Herzing and Joshua Taillion interested in organizing a MAS TC on large data topics (hyperspectral) à 2023? / Nestor Zaluzec has expressed interest in such a meeting as well

- Any other TC ideas? (particles, surfaces, unconventional SEM methods for properties [CL, EBIC, soft x-ray emission spectroscopy])

Virtual meetings for 2021?

- Current TC organizers, as far as I know, are not interested in organizing and hosting a virtual meeting for 2021

- Is there a meeting format that MAS members would be willing to pay registration to attend during 2021?
M&M 2021

Vin Smentkowski
Andy Herzing
M&M 2021 Report, January 2021

Vincent Smentkowski, Andrew Herzing – 2021 MAS Co-chairs
Elizabeth Wright – 2021 Program chair
Eric Stach – 2022 Program chair

CALL FOR PAPERS IS NOW OUT! NEED EVERYONE’S HELP IN ADVERTISING AND BRINGING IN PAPERS!

Virtual PPM: April 10 and 11, 2021

COVID: The “canned” response everyone can share when asked can be found at: https://www.microscopy.org/MandM/2021/
* As the situation changes, the web page will be modified accordingly, so please check often. We will also relay changes.*
● Provisions are being made for a virtual (or semi virtual) meeting.
● Some of the rooms are small and with social distancing less than 20 people would be allowed.
  ○ Many keep saying this is not in agreement with the terms in the signed contract and not compatible with a meeting like M&M

In Person Meeting – Plenary Sessions:
● Sunday night – coronavirus experts: Dr. Kizzmekia Corbett, Dr. Cobertt and Dr. McLellan*
● Monday (normal time) - 2020 Kavli Awardees: Dr. Haider, Dr. Krivanek, Dr. Rose, and Dr. Urban**
Virtual Meeting – Plenary Sessions:

- Format is still under discussion, may be the same as In Person Meeting (above) or we may have daily plenaries (which may provide longer speaker times).

* First group of plenary speakers are coronavirus experts: Dr. Kizzmekia Corbett, is a senior research scientist in the Vaccine Research Center at the NIH, and Dr. Jason McLellan is a Professor in the College of Natural Sciences at the University of Texas, Austin. Dr. Corbett and Dr. McLellan are at the pandemic frontlines with cryo-EM structural and functional studies of SARS-CoV-2 and the development of COVID-19 vaccine candidates.

** Second slate of plenary speakers are Kavli Awardees, Dr. Maximillian Haider, co-founder of CEOS GmbH, Dr. Ondrej Krivanek, co-founder and president of Nion Co., Dr. Harald Rose, Professor Emeritus of Physics at Ulm Universität and the University of Darmstadt, and Dr. Knut Urban, the former Director of the Institute of Microstructure Research at Forschungszentrum Jülich, are pioneers in the field of aberration correction in electron microscopy. Dr. Haider, Dr. Krivanek, Dr. Rose, and Dr. Urban, won the 2020 Kavli Prize in Nanoscience for sub-Ångstrom resolution imaging and chemical analysis using electron beams.

What's New:
MSA plans to develop a 3-5 minute interview series where the plenary speakers can provide information regarding their talks and the content will be pushed out on social media and kept in the MSA/MAS resources for viewing. MSA plans to engage with the MSA student council who will perform interviews related to their personal pathway and then one of the more senior MSA scientist will do the more science-focused interview.

MAS should be prepared to repost these on all of our social media channels (with our branding) and also post on our web page.

We are thinking it makes sense to have all of “our (microanalysis)” symposia organizers provide social media posts about each of their invited speakers (does not need to be an interview, just a strong plug about their research); the content could also be placed onto our web page. We feel this may be a route to overcome some of our hurdles (new content on the web page and MAS social media posts).
Winter 2021 Council Meeting

Sessions Focused on Microanalysis

Analytical Sessions:
- A01 - Diffraction Imaging Across Disciplines
- A02 - Advances in Focused Ion Beam Instrumentation, Applications and Techniques in and Materials and Life Sciences
- A03 - Microscopy and Microanalysis for Real World Problem Solving
- A04 - New Frontiers in In-Situ Electron Microscopy in Liquids and Gases (L&G EM FIG Sponsored)
- A05 - Advances in Analytical STEM-in-SEM
- A06 - Full System and Workflow Automation for Enabling Big Data and Machine Learning in Electron Microscopy
- A08 - Data Management, Version Control, and Multiformat Analysis in Electron Microscopy
- A09 - Moon dust, Minerals and Microscopy
- A10 - Unresolved Challenges in Quantitative X-ray Microanalysis
- A11 - Portable- and Laboratory-based Approaches to Analysis in Cultural Heritage
- A12 - Microscopy and Microanalysis of Biomineralized and Biomimetic Materials and Structures

Additional Microanalysis-focused Sessions
- P01 - Advanced Imaging and Spectroscopy for Nanoscale Materials Characterization
- P02 - Many Detectors Make Lights Work: Advances in Microanalysis of Light Elements in Synthetic and Natural Materials
- P07 - Quantum Materials Probed by High Spatial and Energy Resolution in Scanning/Transmission Electron Microscopy
- P08 - Advanced Characterization of Components Fabricated by Additive Manufacturing
- P09 - Nanoscale x-ray and Electron Microscopy Techniques and Applications in Material Science
- P12 - Microscopy & Spectroscopy of Energy Conversion and Storage Materials
- P13 - Advanced Application of Atom Probe Tomography: Specimen preparation, Instrumentation, and Data analysis
Strategic Planning

Vin Smentkowski, Chair (2018-2020)
Thomas Kelly
Karen Wright
Yoosuf Picard
William Nachlas
Julien Allaz
Anette von der Handt
Heayoung Yoon
We are looking for new members to add to the committee, if you have suggestions, let me know!

Ask: we help advertise the international symposium listed below (social media, web page, newsletters, e-blasts to members, etc.)

2021 Ideas:

1) Check in with the teams that obtained funding for the 2020 Strategic Initiatives:
   - Strengthen the relationship with the Science History Institute.
     - to both secure our archives and also make them available and useful to our membership
   - Implement a “meet a member” feature on our web page (and social media)
     - benefit all three of the MAS SPC overarching goals
   - Solicit new “strategic initiative” proposals in 2021, continue student and postdoc awards
2). Evaluate and update MAS related Wikipedia topics. We should form a subcommittee to take on this task. We should also implement MAS branding on the edits.

https://en.wikipedia.org/wiki/Microanalysis
Can add Microanalysis Society for “External Links”
Can add wavelength-dispersive spectroscopy to list of spectroscopy methods

Can add more detail (comparable to SEM page)

https://en.wikipedia.org/wiki/Spectroscopy
EDS and WDS are not listed as “Other types” while EELS is currently listed?
XPS is listed but no other x-ray spectroscopies?

https://en.wikipedia.org/wiki/Silicon_drift_detector
Needs much more detail added

Severely lacking in detail

History is well-detailed, but modern example instruments could be added
External links could be improved
Further reading section could be added

Okay shape, but could be updated (feature TKD, direct detection cameras, etc.)

https://en.wikipedia.org/wiki/Spectrometer
There is nothing here about x-ray spectrometers

There is an opportunity here. EDS/WDS examples could be highlighted here (forensics, metallurgy, failure analysis, microelectronics, etc.).

Should be reviewed to see if major MAS individuals are not listed here, which could indicate those that need a whole new Wikipedia page created on their behalf. For example, Henry Moseley is not listed here.

Others?
3). Webinars: Kerry is looking for topics and/or volunteers for upcoming Webinars. If there are topics you or your colleagues want to learn more about let us know.

4). We also need to increase the number of social media posts and adding new content onto our web page. Short summaries of the Wikipedia updates will help. Perhaps each of us can also write short stories we can post (our research, an interesting paper we read, ...). Those of us who have students, perhaps we can ask each of them to generate a post.

5). Poll MAS membership to better understand the demographics of the society. We could also create a speaker list for underrepresented populations that people can look to for seminars or other invited speakers. Ultimately I think this information should be added to the joint membership portal, but that might require some cash to pay programmers.

6). Invest in some microscope learning kits that can be loaned out to local schools by our AReS. The Royal Microscopy Society has a kit design. We might be able to copy it.

**Items requiring a champion:**

- “Elevate your paper”
  - the lead author of paper in M&M submits a short word file and/or record an audio clip ‘elevator pitch’ summarizing their new publication
    - web content
    - social media
- Job postings on web page and our social media channels
- Tricks/learnings: surviving COVID