

PENDING APPROVAL

Minutes of the 2012 MAS Winter Council Meeting II Saturday, March 17, 2012 2:00pm – 4:00pm EST Teleconference

Attendance: John Mansfield, Kristin Bunker, John Henry Scott, Heather Lowers, Jeff Davis, Andy Deal, Tom Kelly, Elaine Schumacher, Rhonda Stroud

Dan Kremser, Ian Anderson, Lucille Giannuzzi

John Mansfield calls the meeting to order at 2:03 EST

Treasurers Report on Budget and Finalization of Budget (Jeff Davis)

The major change to the budget since the last teleconference is the format. Ian Anderson suggested a new format that allows for more detail. Jeff Davis likes the new format and will continue to use it.

John Mansfield points out that the budget changed by \$20,000 and this was mainly in the Topical Conference category. Heather Lowers is expecting a small net profit from the Standards TC and EBSD is also expecting a profit. The CL 2011 TC was awarded NSF funding and will move forward to have that distributed. These proceeds should appear in 2012. Jeff Davis is in favor of keeping items in the fiscal year that they were budgeted for. There are no opinions from Council.

John Mansfield states there is no M&M meeting proceeds in 2011 so must have had something in 2010. Ian Anderson states this was an unusual transition year. Up until 2010, Nicole Guy with the meeting management would send MAS's share approximately two months after the meeting. Currently all the proceeds are sent to the MSA business office to streamline MSA's process. Peter Doherty will send MAS's share and it is likely to appear in February.

Tom Kelly points out that the \$11 from the Schwab account was only half way through the year. The funds were switched to a different account which should have a higher return. Currently Jeff Davis has \$2000 for income from the dividends and he questions if this is reasonable. Jeff Davis suggests leaving it at \$2000 until we have a better idea of the performance and Tom Kelly notes that we are seeking professional investment management.

Jeff Davis will increase the budget for the distinguished scholar award from \$750 to \$1200 to be more in line with MSA's award amount. This can fund up to 15 students depending on the quality of the papers. John Mansfield, at Inga Musselman's request, would also like to increase the budget for the Meal with a Mentor. The allocation for Meal with a Mentor was \$1800 and allowed for 60 students at M&M 2011. Inga had to turn students away last year and is asking for funds for 75 to attend. This will increase the budgeted amount to \$2250.

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Tom Kelly asks for clarification on the income difference of 30% of membership dues using the previous budget format. There is discussion of the utility and accuracy of the candlestick calculation. Jeff Davis will check the formula and points out that the purpose of candlestick is to quantify how well we did predicting actual profit and expenses. The new budget format allows for positive and negative values if the expenses are less or more than the income.

Jeff Davis wants the ability to take credit card payments for membership dues at the M&M 2012 meeting. John Mansfield suggests using Intuit or Square with a dongle and can sign on iPhone and send electronic receipt. There is a fixed fee of 2.7%, no setup fee, annual, or monthly fees. If the card number is manually entered and not swiped the rate is 3.7%. Square's rate is 2.75% for all transactions and 3.1% +\$0.15 for typed in credit numbers. John Mansfield questions PayPal's charge. The virtual merchant option runs similarly through PayPal. Difficulties with PayPal at the M&M 2011 meeting were likely due to IP fraud worries. The virtual merchant links with the PayPal account and a receipt will go to the customer from PayPal. Jeff Davis states the upfront fee is 3% plus the cost of a dongle. The dongle can be rented but Jeff Davis would rather purchase. John Mansfield gives Jeff Davis permission to spend \$200 to get this underway. Tom Kelly agrees to go forward and find a sensible solution. Tom Kelly suggests to ask PayPal for the ability to use more than one credit card per account. Lucille Giannuzzi finds Square easy to use and there is no dongle fee. It can be used with iPhone, iPad, or USBswiper. There are no extra fees, just the transaction fee.

John Mansfield calls for a vote to accept the budget as slightly amended. The vote is unanimous and John Henry Scott abstains.

John Mansfield calls for a vote to allow Jeff Davis to fix the PayPal problem at M&M so MAS can collect member dues. The vote is unanimous with no abstentions.

M&M 2011 Final Report (John Mansfield for Masashi Watanabe)

John Mansfield reports the M&M 2011 meeting was very successful. Jeff Davis has received a check for the proceeds.

Sustaining Members Report (Lucille Giannuzzi)

Lucille Giannuzzi reports that 10 sustaining members have renewed at the time of the teleconference. Requests for renewal were sent out in February and Lucille will send reminders and try to get them renewed before M&M 2012.

This is the first year that the joint membership for MAS and MSA has been offered. There are a few bugs in the joint renewal process that Ian Anderson is working to resolve. Several Sustaining Members have paid both MSA and MAS dues individually (\$400 each) but would like a refund based on the joint pricing (\$700). Other Sustaining Members have chosen to pay \$400 to renew MAS dues alone. Lucille has no way of

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knowing why they have chosen to do that as opposed to the \$50 discount for joint membership. All Sustaining Members are aware of the joint discount.

Ian Anderson notes that Gatan and IXRF appear in the spreadsheet but not on the list Lucille has supplied in her report. Lucille notes the ones on her list have paid. Gatan and IXRF have gone through the website and requested to be invoiced.

Tom Kelly moves to accept the Sustaining Members report, Elaine Schumacher seconds, no abstentions, motion passes unanimously.

Topical Conferences (Andy Deal and Heather Lowers)

Electron Backscatter Diffraction 2012 June 19-21, 2012

Andy Deal states that registration has been slower than the past EBSD TCs but it is now picking up. The organizing committee has been making a lot of calls and emails to generate interest. They are on track to have at least 90 attendees. NSF gives a \$12,000 grant for students which will allow them to fill 20 more student spots.

All is on track budget wise and Yoosuf Picard is in contact with Carnegie Mellon to fine tune the contract daily. Vendor support is fantastic and the organizing committee is excited to have live demos. The program is coming together but the number of geology talks is low. This is likely due to many geologists going to the field at that time of year. The committee has asked John Fournelle and the invited speakers to beat the bushes. Rhonda Stroud offers to take a flyer with her to the LPSC. John Mansfield will also pass along a flyer to the new central lab manager. John Mansfield feels that if more student awards are given perhaps more will attend.

Andy Deal thanks the Council for the advice regarding a visa support letter for an Iranian student attending a school in Canada to attend the meeting. Andy suggests a protocol for drafting such a letter. Ian Anderson recommends Paul Carpenter and the TC committee draft such a letter. John Mansfield states the letter should only invite the visa applicant for the duration of the TC and Ian Anderson states the letter should come from the organizing committee. There may be two types of letters needed, one to invite to the meeting and another just to attend the meeting.

Action Item: Paul Carpenter to draft a letter for visa applicants to attend a TC.

Microanalytical Reference Materials 2012 May 15th - 17th 2012

Heather Lowers gives an update on the Standards TC. As of the date of the conference, there are 25 attendees registered. The organizing committee has reviewed the budget and made changes such as moving to one room instead of two, providing own A/V, and reducing the printing costs by providing an electronic program and book of abstracts. The attendee break even point with these budget changes is 33. The conference is on track to make this number. Due to a lack of NSF funding, the Standards TC organizing

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committee asks MAS for \$2000 for student support with no expectation of it being returned. Jeff Davis approves and will send a check.

Andy Deal asks for clarification on TC income. The income is all money taken in and the expenses are all actual expenses. The difference is then the net profit.

Ian Anderson states Raynald Gauvin would like to see Monte Carlo simulations as a future TC topic. Nicholas Ritchie and Keana Scott are considering doing a programming workshop at NIST. The choice to have it as a NIST workshop as opposed to an MAS TC was due in part to the extensive lead time and MAS administrative overhead. Keana will not do a FIB-SEM TC as an MAS TC because of the MAS bureaucracy but may as a MRS conference. MRS allows you to have your conference your way. MRS acts as a clearing house for the checks, signs contracts, etc, and assumes risk. Some on the call are confused as to what overhead and physical and bureaucratic processes are being referred to. Heather Lowers states she did not feel there was a lot of paperwork or bureaucracy to the MAS TC process. The paperwork that is in place is to make sure the proposed TC is well thought out and to protect MAS's financial interest.

Ian Anderson clarifies that the bureaucratic part is filling out the spreadsheet or form on the web which indicates organizers, venue, program, etc. This form is designed to give Council the data necessary to approve conference. MAS now has a brand to protect. The bureaucracy provides quality control.

Andy Deal feels there was some politicking to get the EBSD 2012 off the ground but after that it was straightforward and in the organizing committee's hands. Andy suggests being able to get approval before the official Council meeting to speed up the process.

John Henry Scott says it used to be the organizers taking on the risk and now it is MAS.

Andy Deal asks how NIST workshops compare to an MAS TC. It is pointed out that NIST has conference services which help with logistics and planning of the meeting. It is staffed by three full time people.

John Henry Scott feels the MAS TC program is great but is concerned that it is Members coming forward to do all the work to have a TC while MAS sits back. If MAS is going to run the meeting, then Council should initiate the topic and assign people to do it.

Andy Deal feels the engine is not in place for concerns such as liability and it was a learning process. John Mansfield states it is up to the TC chair to work these issues out. It is decided to wait until Paul Carpenter, the TC Chair, is present to discuss further.

Action item: Council will further discuss the TC program.

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Finance Committee Report (Tom Kelly)

John Mansfield would like a vote on the Finance Committee charter if it is the final version. Tom Kelly confirms it is the final version although any document can be updated. There is no further discussion. John Henry Scott seconds the motions, the motion passes unanimously, and Andy Deal abstains.

Ian Anderson worked over the holidays to update the investment policy statement. Ian Anderson and Tom Kelly plan to hold one hour teleconferences to interview various investment firms that may manage our assets. Ian and Tom have a list of specific questions to ask each firm. They hope to conduct initial interviews by early to mid April and report to Council the Finance Committee's final recommendations.

As the Finance Committee carries out its charter, Tom Kelly would like the Committee to meet once a quarter to ensure the investments and cash flow are appropriate. Tom Kelly would like updated budgets from Jeff Davis to analyze cash flow needs and availability of funds in the bank. Currently Jeff Davis updates the budget semiannually. Tom Kelly will confer with the Finance Committee to see if they require it quarterly or semiannually. The decision may also depend on how often the investment firm needs to be updated.

John Mansfield states he has not received any account statements from Schwab. Jeff Davis received one summary statement. John Mansfield would like a report on where our money is. Ian Anderson states he gets all his statements electronically and suggests the Finance Committee have online access to the Schwab records. John Mansfield assumed Gordon Cleaver had been receiving the statements and vice versa. Tom Kelly will send a note to John Mansfield once the access to and who receives the statements is sorted out. Jeff Davis has the current contact information for Jin Thompson.

John Mansfield asks how we stand legally for officers of the Finance Committee that are not on the executive council to conduct financial transactions. John Mansfield has the contact information for MSA's lawyer and she is willing to talk with us. John Mansfield will share this contact information with Tom Kelly. John Mansfield did not contact the lawyer until the Finance Committee's questions were more specific. Tom Kelly has not contacted a lawyer but will proceed. John Mansfield calls for a motion for Tom Kelly to speak with a lawyer for less than \$1000 for legal guidance regarding financial matters. Andy Deal seconds, the motion passes unanimously with no abstentions.

Awards Committee Report (Kotula, Mansfield)

John Mansfield will complete the review of student papers for the MAS Distinguished Scholar Awards prior to the Program Production Meeting (PPM), as Presidents in the past have done. The Awards Committee will help next year once it is populated and better organized.

Paul Kotula sent recommendations from the Awards Committee for the major MAS awards. Council considers each one individually.

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Paul Kotula recommends renewing Masashi Watanabe and Raynald Gauvin for a full three-year term on the Awards Committee. These individuals had been given an initial one-year term when the Committee was formed. Rhonda Stroud moves, Andy Deal seconds, the motion passes unanimously with no abstentions.

MAS President's Awards

Service: Cathy Johnson was selected for the time and resources she has devoted to the Society for many years. John Mansfield concurs.

Science: Pavel Rehak was suggested for the Presidential Science award. Pavel is the inventor of the X-ray silicon drift detector (SDD) and his recognition by MAS is long overdue. John Mansfield is not familiar with Pavel's work and asks for input from other Council members. Tom Kelly and Andy Deal point out that Eric Lifshin was a second nominee. However, Eric received the award 20 years previously so the decision was to go with Pavel. John Henry Scott and Ian Anderson inquire as to who championed for Pavel. Dan Kremser confirms Pavel is not a current member of MAS. John Mansfield would like to investigate further before issuing the award. Rhonda Stroud adds that Pavel is a physicist at Brookhaven, an IEEE fellow for the SDD invention, and has a background in ion implantation. John Mansfield questions whether we pay for awardees to attend and Ian Anderson suggests he converse with Paul Kotula regarding this issue.

Heinrich: Emmanuelle Marquis was selected for her atom probe expertise and rising stardom. Emmanuelle was also John Mansfield's selection but did not want to sway the committee because of a conflict of interest. Andy Deal states she is an excellent candidate and her knowledge and work speaks for itself. Tom Kelly adds she is very active and an outstanding young scientist in the field. No other candidates were suggested. John Mansfield points out this is the first time a woman has won the Heinrich Award.

Duncumb Award

Ian Anderson was excited to nominate Jim Bentley for his long and distinguished career. The nomination was seconded by Barry Carter, Gracie Burke, and Ernie Hall. Paul Kotula was President when the Duncumb Award was founded. The Council discusses the differences between the Presidential Science Award and the Duncumb Award. In summary, the Duncumb award is made for broad contributions to the field and not necessarily quantity of publications, inventions, etc. Jim Bentley has taught a generation of AEM scientists including Ian Anderson and Nestor Zaluzec, and created the ShaRE User Program as a Department of Energy (DOE) user facility prior to the establishment of the National Synchrotron Light Source (NSLS). Ernie Hall was asked to write a letter of support for work done with Jim Bentley as a ShaRE user. Tom Kelly asks if Jim was still considered active even though he is retired from Oak Ridge National Lab (ORNL). Ian points out that Jim has continued to collaborate with colleagues following his

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retirement from ORNL. Tom Kelly moves to accept the nomination, Andy Deal seconds, the motion passes unanimously with no abstentions.

Best Paper Awards

Andy Deal and Tom Kelly sorted through 100 nominations. Andy and Tom did not read all 100 but narrowed it down based on title. Once the pool was narrowed, they read 15 papers. It was a cumbersome process and Andy suggests a phone app for voting while in the room. Ian Anderson states it is not a popularity contest and the voting will be resolved with the implementation of the Awards Committee and their broad expertise. Other suggestions to improve the process include asking attendees if they saw any good talks, reminding the audience to go to the MAS booth to suggest a good paper, and have a nomination box at the MAS booth. Currently, the majority of the input comes from the symposium chairs. John Henry Scott asks if the microanalysis content of the nominees was a factor or was it equally weighted with microscopy. Tom Kelly and Andy Deal were looking for a distribution of papers that covered biological and physical sciences. John Mansfield points out that the website does not specifically say microanalysis although the awards are sponsored by a microanalysis vendor.

[Andy Deal exits the teleconference at this point]

Castaing Award for Best Student paper: #235 “Imaging Grains and Grain Boundaries in Single-Layer Graphene: An Atomic Patchwork Quilt” Pinshane Y. Huang , A.M. van der Zande , C.S. Ruiz-Vargas , W.S. Whitney, M.P. Levendorf , J.W. Kevek , Y. Zhu , J. Park , P.L. McEuen , D.A. Muller

Cosslett Award for Best Invited Paper: #16 “Microtechnologies for Studying Cell Biology in Physiologically Relevant Microenvironments” Craig A. Simmons

Birks Award for Best Contributed Paper: #34 “In-situ TEM Characterization of Electrochemical Processes in Energy Storage Systems” R.R. Unocic, L.A. Adameczyk, N.J. Dudney, D.H. Alsem, N.J. Salmon, and K.L. More

Macres Award for Best Software Instrumentation Paper: #312, “Realization of the First Aplanatic Transmission Electron Microscope” I. Massmann, S. Uhlemann, H. Muller, P. Hartel, J. Zach, M. Haider, Y. Taniguchi, D. Hoyle, and R. Herring

Ian Anderson inquires who made the nomination for the Birks Award. Tom Kelly states he went through all the nominees and came up with three for each award. The Birks award winner appeared in two categories. Tom states more weight was given to papers that will likely have a profound impact on the future of the technique and he feels the Birks Award winner did that. John Mansfield states we should not second guess Tom and Andy’s decision. Rhonda Stroud moves to accept the four paper award winners, Elaine Schumacher seconds, the motion passes unanimously with no abstentions.

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Membership Report (Dan Kremser)

Approximately 40% of the membership took advantage of the early renewal period. There are 49 students and 9 emeritus that have paid. Lou Ross, Ed Kenik, and Dave Boyd wish to join as emeritus members. Dan Kremser cannot confirm their membership status previous to 1999 but for the past 11-12 years they have been paid members and joined in the 80s. Dave Boyd is a charter member of the Society and has been a regular paid member for the last 13 years despite being retired. Based on the available information, Dan Kremser will inform Ross, Kenik, and Boyd that they may join as emeritus members.

The Microscopy and Microanalysis subscription rate has gone up from \$15 to \$20. John Mansfield states that we are paying for 93 subscriptions to the journal. Ian Anderson points out that we have been charging members \$20 in anticipation of the increased subscription rate. Regular members pay for the subscription but MAS covers students' subscriptions. This expense is in the Treasurer's budget. The invoice from MSA to cover subscription costs is now set up to go directly to the MAS treasurer. Dan Kremser asks if we leave the subscription rate as is or increase it. Tom Kelly suggests keeping the rate at \$20 since there are funds available. Ian Anderson also would like to keep it at \$20 if we go forward with a joint individual membership option with MSA to match their subscription rate. The rate for international members who receive the journal have a buffer built into their subscription rate so there is no need to increase it.

Tom Kelly moves to endorse 13 new members and accept the membership report, Rhonda Stroud seconds. The motion passes unanimously with no abstentions.

Strategic Planning Committee (Ian Anderson)

Ian Anderson states the joint MAS / MSA Sustaining Membership renewal is going well but surprised no one has done a joint membership through the MSA website.

There is nothing to add about publications. Microscopy and Microanalysis remains the number one journal in the field.

It is time to determine a Program Chair for the 2015 meeting. Donovan Leonard's name was put forward. Elaine Schumacher states she knows him and worked with him on the Microscopy in the Classroom symposium. John Mansfield questions his experience in the microanalysis world. Donovan worked several years with Phil Russell at Appalachian State University and taught with Phil and In-Week Workshop on nanomaterial sample preparation at M&M. He was at Oak Ridge National Lab and organized the local chapter meeting. John Mansfield and Elaine Schumacher have worked with Donovan and feel he is well organized, passionate about education, and able to work with a variety of personalities. Kristin Bunker agrees with all that has been said. John Mansfield asks if anyone has contacted Donovan if he is willing and able. Cathy Johnson put his name forward several years ago. Tom Kelly moves to name Donovan Leonard as the 2015 MAS Program Co-Chair pending his acceptance, Elaine Schumacher

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seconds, John Henry Scott will discuss duties with him. Motion passes unanimously with no abstentions.

Computer Activities

Nicholas Ritchie forwarded his computer activities report. Nicholas does a lot of day to day maintenance of the website. Ian Anderson will update the website with the current award winners. John Mansfield states that if Nicholas and Ian have a system worked out that working then we should not alter it. John Mansfield would like to end the attempt to acquire the microanalysis.org url. He favors keeping the microanalysisociety.org since it is name of society. John Henry Scott agrees as he does not want to encourage url squatters. Tom Kelly states he was able to renew his membership through PayPal using his wife's credit card. Elaine Schumacher moves to accept the computer activities report, John Henry Scott seconds, the motion passes unanimously with no abstentions.

Other Business

John Mansfield asks if a third Winter Council meeting is necessary. Tom Kelly states the only thing outstanding is the Finance Committee decision on a professional money manager for the Society. Tom suggests handling the leg work by email followed by a quick teleconference, approximately one hour during the work week, once the Finance Committee has a recommendation.

Ian Anderson asks if we can approve the minutes of the first Winter Council meeting. Most of Council had a chance to review the minutes and sent comments and suggestions to Heather Lowers. Heather incorporated these suggestions. Tom Kelly motions to accept the minutes, Rhonda Stroud seconds, the motion passes unanimously with no abstentions.

The need to have a face to face meeting for Winter Council was discussed. It could be conducted every other year, at the same location as MSA, and near an airport to avoid car rental. John Mansfield is in favor and should be discussed further.

Greg Meeker received a Student's Benefit from MSA and was concerned that MAS was not included on the poster. The poster pictures MSA and MAS student awardees and mentions a topical conference program. It was proposed that the poster came from the MSA Association Manager and was send to MSA Local Affiliated Society (LAS) officers. The goal was to encourage students at the local meeting to join. However, Elaine Schumacher points out that as an LAS officer, she did not receive a poster. Dan Kremser feels it would have been easy enough to add the MAS logo to the poster. Ian Anderson volunteers to address this topic with MSA as an unofficial liaison.

Meeting adjourns at 4:12P EST.

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