# 2021 MRS® Fall Meeting
## Symposium Organizer Handbook
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March 2021

TO: 2021 MRS Fall Meeting Symposium Organizers

Thank you for agreeing to serve as a symposium organizer for the 2021 MRS Fall Meeting! The Spring and Fall Meetings are critically important services offered by MRS. They provide a dynamic interactive framework in which global materials disciplines can convene, collaborate, and integrate to advance technical interdisciplinary research. The high-quality and visionary symposia at MRS meetings are key to the Society's mission and its continued success. The meetings are the main drivers for engaging members and volunteers, building our membership, and the principal forum to exchange research results.

A key to a successful MRS meeting is the opportunity for symposium organizers to define the content and tone of the meeting. I urge you to exercise your creativity, technical judgment, and entrepreneurial spirit to ensure that your symposium contributes effectively to the mission of our Society: the dissemination of interdisciplinary materials research. New ideas and emerging concepts in the field should be an important hallmark of your symposium. Please strive to provide a forum for scientific and technical discussions at the leading edge of materials research; fundamental concepts as well as ideas that could lead to technological advances are important to the materials community. We also encourage you to consider including a mix of presentations ranging from “basic” to “use-inspired” to “device- and application-focused” research in your focal area. Presentation of a diversity of perspectives is an opportunity and a core value of the MRS meeting.

In order to be impactful beyond the technical scope, I encourage you to seek opportunities for public outreach and advocacy by connecting your topic to the national and international scene, as well as for opportunities for connections and joint activities with the exhibitors. There is still plenty of time to include new approaches to promote and enhance the exchange of materials research. Our members rate opportunities for networking and informal discussion offered by our meetings to be almost as important as symposium content. Please bear in mind that promoting opportunities for networking can enhance your symposium.

MRS is proud to have a diverse and international membership that reflects global activity in materials research, and our Society is strongly committed to ensuring that all of its activities are inclusive and offer opportunities for everyone. Therefore, as you reach out to leading materials scientists and technologists for your symposium, you are encouraged to specifically enhance the diversity in all aspects within your symposium. This may include inviting speakers from industry, from outside the U.S., especially from developing countries, and from under-represented segments of the community. In relation to the MRS vision of attracting industry back to the Spring and Fall Meetings, we encourage you to develop a balanced approach of requesting papers on fundamental and applied materials science and devices.

The entire MRS staff and the 2021 MRS Fall Meeting Chairs—Markus J. Buehler, Craig Fennie, Marina Leite, Laura Na Liu, Cengiz S. Ozkan—are excited about working with you to develop the best possible technical meeting.
Pat Hastings (hastings@mrs.org), Director of Meeting Activities, Gopal Rao (rao@mrs.org), Editor of Technical Content, and the entire MRS Headquarters staff are eager to assist you in preparing your symposium and integrating it with the myriad of Society events during the meeting. Please take advantage of the wealth of experience, help and advice the Meeting Chairs and the MRS staff can offer you. As you proceed through the stages of planning your symposium and identifying papers and specific topics to be discussed, I would like you to pay attention to three important process issues:

(1) Topical Overlap: Often, topics covered by different symposia are related or similar in scope and would, therefore, attract the same audience. Excessive granularity is not helpful to authors or attendees. Past experience indicates that some overlap inevitably occurs, however, it can be managed. We urge you to address these conflicts to minimize the extra burden placed on meeting participants as they try to attend different sessions throughout the meeting. In this respect, it is important that you make an effort to identify symposia that may have similar scopes and take action to reduce overlap, e.g., talk to the Meeting Chairs about the idea of joint sessions with other symposia.

(2) Invited Speakers: Sometimes a speaker gives more than one invited lecture at an MRS meeting. Meeting Chairs will be looking at the number of talks any one invited speaker may be giving across all the symposia and seek to ensure that the invited lectures will be on substantially different topics when any such duplication of invited speakers occurs. There is a delicate balance between engaging great and proven speakers with new talent. Please identify speakers to invite representing a diversity of experience and backgrounds. When inviting a speaker to present an invited lecture, please include a note that speakers should not accept more than two invited talks.

(3) Rejection Rate: MRS, in an effort to maintain the high quality of its meetings, instituted a policy encouraging each symposium to target a 15% rejection rate of submitted abstracts. While I realize that it would be unreasonable to insist that each symposium should, by definition, reject a minimum of 15% of the abstracts, I would encourage you to ensure that all papers, both talks and posters, presented in your symposium are relevant and of high quality. I am sure you would agree that the work presented in your symposium should truly represent the excitement and high intellectual value of your field. I will caution against converting a subpar or misaligned oral presentation into a poster presentation.

Publishing with MRS and Springer Nature (MRS’s new publishing alliance in 2021), ensures dissemination and discoverability of your symposium’s content well beyond the meeting. For example, MRS Advances publishes rapid reports of work in progress, focusing on key materials topics of current interest, as identified by MRS meeting programming. MRS Advances is indexed in the Web of Science, Emerging Sources Citation Index (ESCI) and Scopus, which heightens the profile of the work published in it. In addition, the journal now includes contributions not presented at the meeting, but solicited from the MRS community for the specific topics of each meeting. This allows you, at your option, to create a focused issue on your symposium topic that incorporates the broadest reach of the society. Details are available at your request. The MRS Advances editorial board works with symposium organizers to ensure high-quality content and rapid peer review and publication. MRS Advances is free to all MRS members and by subscription to institutional libraries around the world. Together, MRS and Springer Nature advance the scope, reach and impact of all MRS publications.

Depending on the stage of research and the scope of their presentations, authors are also invited to submit to the other journals in the MRS portfolio: MRS Bulletin, MRS Communications, MRS Energy & Sustainability, and Journal of Materials Research (JMR).
In addition, MRS highlights newsworthy presentations to the scientific and general press. Please help us identify presentations from your symposia. For further information, contact Eileen Kiley (kiley@mrs.org), Director of Communications, or Ellen Kracht (kracht@mrs.org), Publications Manager.

I would like to direct your attention to the Symposium Organizer Timeline contained in this handbook. The Symposium Organizer Timeline is an important tool for meeting chairs and symposium organizers. It is designed to provide optimum publicity for your symposium, enable timely input to programming, and ensure effective utilization of MRS resources. I strongly encourage you to meet the milestones and deadlines, as they are important to the overall success of the meeting.

Finally, I want to thank you again for taking on this most important job for MRS. I am sure that you will find being a symposium organizer a rewarding and exciting experience, both professionally and personally. I hope this activity will additionally inspire you to consider volunteering your skills and expertise for other critical volunteer positions in MRS, including joining our committees and the Board of Directors, since our vibrant society needs new ideas and perspectives to remain best positioned to advance technical excellence.

I look forward to your symposium and am confident that it will continue in the MRS tradition of excellence.

Best regards,

Cherie R. Kagan
2021 MRS President
SECTION 1: MRS® MISSION, VISION, VALUES AND ASPIRATION

It is beneficial to understand the governing principals of the Society. These are outlined in the MRS statements below. Attention is drawn to the importance of Meeting Quality in these statements.

MRS MISSION STATEMENT

The Materials Research Society® (MRS) is an organization of materials researchers worldwide that promotes communication for the advancement of interdisciplinary materials research and technology to improve the quality of life.

MRS VISION STATEMENT

The Materials Research Society will build a dynamic, interactive, global community of materials researchers to advance technical excellence by providing a framework in which the materials disciplines can convene, collaborate, integrate and advocate.

DIVERSITY STATEMENT

The Materials Research Society recognizes that diversity drives innovation, excellence and new discoveries. We charge our membership and leadership to engage all demographic groups worldwide in advancing science and technology to improve the quality of life.

MRS VALUES

MRS Core Values

- Promoting technical excellence
- Being visionary and dynamic
- Being interdisciplinary
- Being broadly inclusive and egalitarian

MRS Derived Values

Membership

- Preserve equality of membership
- Maintain a diverse membership that encompasses students and professionals from all sectors of the materials community
- Encourage an active globally-diverse membership
- Offer programs, products and services that help our members build their professional identity worldwide
- Provide effective and rewarding member engagement and volunteering opportunities
Meetings
• Provide high-quality meetings that encourage networking and scientific exchange
• Facilitate meetings that are interdisciplinary and highlight cutting-edge topics in materials research and technology

Dissemination of Information
• Take a leadership role in dissemination of information on materials science and technology to the public and to governments
• Provide archival literature in the field of materials research and technology
• Advocate for materials sciences

Infrastructure
• Encourage a professional, cooperative and dedicated headquarters staff
• Be a preferred employer
• Support creative, active, responsible and dedicated volunteers
• Maintain a sound financial footing
• Lead through collaboration, including work with other societies and organizations

MRS ASPIRATION: 2027
MRS engages members across generations to advance their career and promote materials research and innovation.

Engaging and Inspiring Members
• Differentiate the MRS Spring and Fall Meetings.
• Utilize MRS Bulletin, webinar and evolving technologies to engage members.
• Refresh MRS governance by engaging multiple generations.

Advancing Member Careers
• Create high-quality, nimble forums to present and publish research.
• Catalyze career development.
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<th>Date</th>
<th>Topic</th>
<th>Description</th>
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<td>September 1, 2020</td>
<td>Program</td>
<td>Program Development Subcommittee (PDSC) WebEx review call to establish the Program and Symposium Organizers.</td>
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<tr>
<td>December 1, 2020</td>
<td>Meeting</td>
<td>Program Development Subcommittee (PDSC) Final Review Meeting (via WebEx).</td>
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<tr>
<td>December 3, 2020</td>
<td>Meeting</td>
<td>2021 MRS Fall Symposium Organizer Preliminary Planning Meeting (via WebEx).</td>
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<td>January 1, 2021</td>
<td>Finance</td>
<td>Begin soliciting corporate and government support (Refer to Section 7)</td>
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<td>Visit the 2021 Fall Meeting web for information on the Symposium Support Program (under construction while hybrid benefits are finalized). Contact Mallory Starr (<a href="mailto:starr@mrs.org">starr@mrs.org</a>) for questions or historical funding information.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contact Sandy Forrest (<a href="mailto:forrest@mrs.org">forrest@mrs.org</a>) for sample government grant proposals.</td>
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<tr>
<td>January 4, 2021</td>
<td>Tutorials</td>
<td>Indicate tutorial intentions by checking box in the MRS Call for Proposals/Call for Papers system.</td>
</tr>
<tr>
<td>February 12, 2021</td>
<td>Handbook</td>
<td>Symposium Organizer Handbook posted on the MRS website</td>
</tr>
<tr>
<td>February 19, 2021</td>
<td>Tutorials</td>
<td>Tutorial Proposals due to Erin Moore (<a href="mailto:moore@mrs.org">moore@mrs.org</a>) (Refer to Section 10).</td>
</tr>
<tr>
<td>March 1, 2021</td>
<td>Call for Papers</td>
<td>Call for Papers finalized. Edits must be completed by the lead organizer or submitter of the proposal in the MRS Call for Proposals/Call for Papers system – <a href="https://callforproposals.mrs.org">https://callforproposals.mrs.org</a>. Do not email edits to MRS – (Refer to Section 6).</td>
</tr>
<tr>
<td>March 2, 2021</td>
<td>Call for Papers</td>
<td>Symposium organizers are encouraged to promote their individual symposium with Call for Papers. (Refer to Section 6A for Call for Papers, Individual Symposium Marketing options).</td>
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<tr>
<td>March 8, 2021</td>
<td>Call for Papers</td>
<td>Call for Papers posted on the MRS website.</td>
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<td>March 26, 2021</td>
<td>Tutorials</td>
<td>MRS Programming Staff notifies Symposium Organizers of proposal status.</td>
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April 26, 2021  Call for Papers  Call for Papers general announcements (list of all symposia and abstract deadline) to be sent by MRS HQ, Marketing via postcard and e-mail (Refer to Section 6A for complete Call for Papers Marketing Timeline).

May 14, 2021  Program  Abstract Submission Opens: Announcement to be sent by MRS HQ, Marketing. All abstracts must be submitted via the MRS Online System; fax or e-mail submissions will not be accepted.

June 1, 2021  Exhibit  Potential Exhibitors to Donna Watterson (watterson@mrs.org) (Refer to Section 11E).

June 8, 2021  Program  All abstracts received by MRS Programming Staff viewable online for convenient review and downloading by the symposium organizers.

June 7, 2021  Call for Papers  “Abstract Deadline is June 10” reminder e-mail sent by MRS HQ, Marketing.

June 22, 2021  Program  Abstract Submission Deadline (11:59 pm ET): “Last Day to Submit” e-mail will be sent by MRS HQ, Marketing. All abstracts must be submitted via the MRS Online System; fax or e-mail submissions will not be accepted.

June 23-July 9, 2021  Program  Symposium organizers create programs in the MRS Online System (Refer to Section 5).

June 15, 2021  MRS Advances  Editor Confirmations for MRS Advances, as indicated in the Responsibility Charts.

July 9, 2021  Program  All symposium programs due to MRS Programming Staff: Marla Boots, boots@mrs.org
Broader Impact (BI01-BI02)
Characterization (CH01-CH04)
Materials Computing and Data Science (DS01-DS03)
Electronics, Optics and Quantum (EQ01-EQ20)

Erin Moore, moore@mrs.org
Energy and Sustainability (EN01-EN15)
Biomaterials and Soft Materials (SB01-SB12)
Structural and Functional Materials (SF01-SF04)

July 26, 2021  Meeting  MRS Fall Symposium Organizer Program Planning Meeting (via WebEx)

August 2, 2021  Program  Final Symposium program changes due to MRS Programming Staff (See Programming Staff in Section 4)
August 3, 2021  Student Opportunity  Graduate Student Award Applications, including Advisor Letters of Evaluation, due to MRS HQ (Refer to Section 12).

August 9, 2021  Student Opportunity  Symposium Assistant recommendations from symposium organizers due to Amanda Edmiston (edmiston@mrs.org) (Refer to Section 12).

August 9, 2021  MRS Advances  MRS Advances prepublication pricing established.

August 12, 2021  Program  MRS Programming Staff sends Confirmation Status via email to authors advising the status of their abstract along with their scheduled date and time for their presentation. At this time, authors will ACCEPT or DECLINE their presentation.

August 14, 2021  Student Opportunity  MRS sends student application review instructions to symposium organizers to begin to evaluate for selection of Graduate Student Award finalists (Refer to Section 12).

August 16, 2021  MRS Journals  Publishing Opportunities information is sent by MRS HQ to Contact authors.

August 28, 2021  Student Opportunity  Graduate Student Award application evaluations due online by symposium organizers (Refer to Section 12).

August 30, 2021  MRS Advances  Contact authors notified that the electronic submission site for MRS Advances is open.


August 25, 2021  Call for Papers  Email sent by marketing: “Save the Date/Late News abstract submission opens September 1”. (Refer to Section 6A for complete Late News Marketing Timeline).

September 1, 2021  Program  Late News Abstract Submission Opens: Announcement to be sent by MRS HQ, Marketing. All abstracts must be submitted via the MRS Online System; fax or e-mail submissions will not be accepted.

September 7, 2021  Student Opportunity  Symposium Assistant General Application is posted to website.

September 13, 2021  Program  Program posted on the MRS website.

September 8, 2021  Call for Papers  Reminder email sent by marketing: “Late News abstract deadline is September 15”.


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<th>Date</th>
<th>Event</th>
<th>Details</th>
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<tbody>
<tr>
<td>September 15, 2021</td>
<td>Program</td>
<td><strong>Late News Abstracts Submission Deadline:</strong> (11:59 pm ET): “Last Day to Submit” e-mail will be sent by MRS HQ, Marketing. All abstracts must be submitted via the MRS Online System; fax or e-mail submissions will not be accepted.</td>
</tr>
<tr>
<td>September 24, 2021</td>
<td>Program</td>
<td><strong>Late News</strong> abstracts, reviewed and placement into program are due to MRS Programming Staff (See Programming Staff in Section 4)</td>
</tr>
<tr>
<td>September 27, 2021</td>
<td>Student Opportunity</td>
<td>Symposium Assistant General Application deadline</td>
</tr>
<tr>
<td>September 27, 2021</td>
<td>Program</td>
<td><strong>Late News:</strong> MRS Programming Staff sends Confirmation Status via email to authors advising the status of their abstract along with their scheduled date and time for their presentation. At this time, authors will ACCEPT or DECLINE their presentation.</td>
</tr>
<tr>
<td>October 4, 2021</td>
<td>Publicity/Press</td>
<td>Symposium Highlights Online Submission Site Opens-- Email to Symposium Organizers by marketing</td>
</tr>
<tr>
<td>October 4, 2021</td>
<td>Science as Art</td>
<td>Submission Site Opens</td>
</tr>
<tr>
<td>October 8, 2021</td>
<td>Finance</td>
<td>Symposium Support Program application cutoff for inclusion in the Meeting &amp; Exhibit Guide and on-site signage.</td>
</tr>
<tr>
<td>October 15, 2021</td>
<td>Finance</td>
<td>Requests for special AV and food &amp; beverage due to Mallory Starr (<a href="mailto:starr@mrs.org">starr@mrs.org</a>).</td>
</tr>
<tr>
<td>October 22, 2021</td>
<td>Publicity/Press</td>
<td>Symposium Highlights Questionnaire deadline (Refer to Section 6B).</td>
</tr>
<tr>
<td>October 22, 2021</td>
<td>Science as Art</td>
<td>Submission site deadline</td>
</tr>
<tr>
<td>November 1, 2021</td>
<td>Tutorials</td>
<td>Tutorial Notes due to Erin Moore (<a href="mailto:moore@mrs.org">moore@mrs.org</a>).</td>
</tr>
<tr>
<td>November 1, 2021</td>
<td>Science as Art</td>
<td>MRS Programming Staff to notify top “50” Finalists.</td>
</tr>
<tr>
<td>November 5, 2021</td>
<td>Finance</td>
<td>Symposium-paid preregistration and travel reimbursement list due to Mallory Starr (<a href="mailto:starr@mrs.org">starr@mrs.org</a>) (Refer to Section 7).</td>
</tr>
<tr>
<td>November 5, 2021</td>
<td>Finance</td>
<td>Symposium Support Program application cutoff for inclusion in PDF program posted to MRS website</td>
</tr>
<tr>
<td>November 28–December 3, 2021</td>
<td>Meeting</td>
<td>2021 MRS Fall Meeting, Boston, MA</td>
</tr>
<tr>
<td>Date</td>
<td>Category</td>
<td>Event Description</td>
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</tr>
<tr>
<td>November 28, 2021</td>
<td>Meeting</td>
<td>2021 MRS Fall Symposium Organizer Tie-Down (final details) Meeting.</td>
</tr>
<tr>
<td>November 30, 2021</td>
<td>Meeting</td>
<td>President’s Reception</td>
</tr>
<tr>
<td>February 7, 2022</td>
<td>MRS Advances</td>
<td>Editorial work on MRS Advances completed.</td>
</tr>
<tr>
<td>February 14, 2022</td>
<td>MRS Advances</td>
<td>MRS Advances issues begin to go to press.</td>
</tr>
<tr>
<td>April 30, 2022</td>
<td>Finance</td>
<td>Final requests for disbursement of symposium funds due to Mallory Starr (<a href="mailto:starr@mrs.org">starr@mrs.org</a>).</td>
</tr>
<tr>
<td>April 30, 2022</td>
<td>Finance</td>
<td>Symposium accounts closed</td>
</tr>
</tbody>
</table>

Last updated: 6/11/2021
SECTION 3: MRS CONTACTS

A. MRS MEETING CHAIRS

Markus J. Buehler
Massachusetts Institute of Technology
mbuehler@mit.edu

Craig Fennie
Cornell University
fennie@cornell.edu

Marina Leite
University of California, Davis
mleite@ucdavis.edu

Laura Na Liu
Universität Stuttgart
na.liu@pi2.uni-stuttgart.de

Cengiz S. Ozkan
University of California, Riverside
cozkan@engr.ucr.edu

B. MRS STAFF (PRINCIPAL HQ CONTACTS)

Patricia (Pat) A. Hastings, Director of Meeting Activities
hastings@mrs.org; 724-779-2721
Oversees policies and procedures for the technical meeting, exhibits, associated tutorials and special meeting activities. Serves as a principal headquarters contact and general source of information for meeting chairs and symposium organizers.

Gopal Rao, Chief Editor for Technical Content
rao@mrs.org; 724-779-2750
Serves as principal headquarters contact for technical content and programming and as the general source of information and communication for meeting chairs and symposium organizers. Also Editor of MRS Bulletin.

Brooke Baker, Meetings Project Manager
bbaker@mrs.org; 724-779-2723
Responsible for coordinating the production of the Meeting and Exhibit Guide for Spring and Fall meetings. Responsible for physical arrangements and on-site management at select MRS meetings and housing management. Also assists with meeting chair and symposium organizer guidance, and technical program development for select MRS Meetings.
**Amanda Edmiston**, Meetings Administrative Assistant
edmiston@mrs.org; 724-779-2729
Oversees and coordinates the production of the *Call for Papers*. Oversees and coordinates the meeting endorsement/co-sponsorship program. Updates and posts the Symposium Organizer and Meeting Chair Handbooks. Coordinates RSVP rosters for planning meeting announcements to symposium organizers and meeting chairs.Coordinates the Symposium Assistant program. Coordinates the Tutorial Program and Science as Art project.

**Marla Boots**, Senior Technical Program Administrator
boots@mrs.org; 724-779-2726
Oversees BI01-BI02, CH01-CH04, DS01-DS03 and EQ01-EQ20 procedures for receiving abstracts via the website, entering information into the abstract database, and using the database to produce author correspondence (such as acknowledgement, acceptance and rejection letters) and the program pages for the *Meeting and Exhibit Guide*.

**Erin Moore**, Technical Program Associate
moore@mrs.org; 724-779-2731
Oversees EN01-EN14, SB01-SB12 and SF01-SF04 procedures for receiving abstracts via the website, entering information into the abstract database, and using the database to produce author correspondence (such as acknowledgement, acceptance and rejection letters) and the program pages for the *Meeting and Exhibit Guide*.

**Debbie Kriss**, Meetings Project Manager
kriss@mrs.org; 724-779-2725
Responsible for all physical arrangements and on-site management of operations at MRS Meetings.

**Donna Watterson**, Exhibit Marketing Manager
watterson@mrs.org; 724-779-2757
Responsible for promotion and operation of the meeting exhibit, advertising and sponsorships, in conjunction with Paul Graller, Hall-Erickson (pgraller@heiexpo.com)

**Eileen Kiley**, Director of Communications
kiley@mrs.org; 724-779-2742
Responsible for MRS publications, marketing (including oversight of promotion, marketing and press activities for MRS Meetings), public relations, website, and digital media activities. Oversees the content and production of MRS’s scientific journals including *MRS Bulletin, MRS Advances, Journal of Materials Research, MRS Communications* and *MRS Energy & Sustainability*.

**Ellen Kracht**, Publications Manager
kracht@mrs.org; 724-779-2766
Responsible for managing submission, peer review, editorial, and production process for *MRS Advances, Journal of Materials Research, MRS Communications*, and *MRS Energy & Sustainability*.

**Susan Dittrich**, Editorial Associate, *MRS Advances*
dittrich@mrs.org; 724-779-2753
Assists editors and authors with submissions, peer review, and publication of articles in *MRS Advances* and *MRS Energy & Sustainability*. 
Lori Wilson, Managing Editor, MRS Bulletin
lwilson@mrs.org; 724-779-2749
Manages MRS Bulletin operations. Works with the MRS News Editor for scheduling pre- and post-meeting publicity and coverage in MRS Bulletin.

Judy Meiksin, News Editor
meiksin@mrs.org; 724-779-2747
Responsible for MRS Bulletin news content. Manages Meeting Scene coverage at MRS meetings. Serves as the meeting’s website reporter, adding information as it occurs for real-time meeting updates.

Bob Braughler, Digital Media Manager
braughler@mrs.org; 724-779-2752
Responsible for planning, execution, delivery, and hosting of online digital events.

Erin Hasinger, Web Communications Manager
hasinger@mrs.org; 724-779-2739
Responsible for management of the MRS website and MRS Meeting App, including posting, marketing, and communication of meeting-related content and activities.

J. Ardie (Butch) Dillen, Director of Finance and Administration
dillen@mrs.org; 724-779-2711
Responsible for overseeing all MRS financial operations. Sets the policies and procedures for symposium funding and is the headquarters staff person for ensuring that symposium funds are expended and accounted for properly.

Mallory Starr, Accounting Manager
starr@mrs.org; 724-779-2713
Oversees accounting records, supervises day-to-day accounting and on-site meeting accounting operations, is responsible for financial report preparation, and coordinates research and preparation of project reports. Principal contact person at MRS Headquarters for symposium organizers on symposium funding and budget issues. Contact person for preparing the symposium budget, obtaining the most current status of symposium funding, spending symposium funds and ordering special audio-visual equipment and/or food & beverage functions on site.

Michele Feder, Associate Director of Engagement
feder@mrs.org; 724-779-2738
Manages volunteerism within MRS, including recruitment, retention and recognition programs. Promotes volunteerism, engagement and inclusion within MRS, assessing needs and developing programs to meet those needs through the recruitment, placement, and retention of volunteers. Serves as a central point person for volunteer opportunities. Develops and manages professional development, career resources, iMatSci, MRS Foundation and volunteer benefit and recognition programs including oversight of MRS Awards and University Chapters.
Lorri Smiley, Career Services and Awards Administrator
smiley@mrs.org; 724-779-2733
Manages the MRS Awards programs, including Graduate Student Awards. Manages the MRS Career Fair at each MRS Meeting and is the HQ Liaison for the MRS University Chapters program; oversees the Women in Materials Science & Engineering Breakfast and Workshop events.

Paula Mahar, Member Services Representative/Meetings Committee Coordinator
mahar@mrs.org; Tel 724-779-2727
Oversees and administers invitation letters to non-U.S. authors and other meeting participants.

Sandy Forrest, Human Resource and Finance Administrator
forrest@mrs.org; 724-779-2712
Contact person for preparing government grant proposals. Backup responsibility for symposium funding and grant administration.
C.  2021 MRS BOARD OF DIRECTORS
(Date following name indicates end of term on the Board)

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D. MRS COMMITTEES OF SPECIAL INTEREST TO SYMPOSIUM ORGANIZERS

Graduate Student Awards Subcommittee of the Awards Committee
One of the functions of this committee is to solicit and coordinate symposium organizer rankings of Graduate Student Award applications (refer to Section 12). These rankings help determine the finalists who will compete for the Gold and Silver Awards, and special GSA awards such as the Arthur Nowick Graduate Student Award at the MRS Spring and Fall Meetings. The participation of symposium organizers in the ranking is a critical and important part of their responsibilities. (refer to Section 5D, Symposium Organizer Responsibilities.) The Awards Committee also provides the financial support for the Gold and Silver Awards. (Refer to: http://www.mrs.org/awards-committee/)

Meetings Committee (MTGC)
The Meetings Committee is responsible for planning, executing, and evaluating program content of all Meetings in which the Society participates. This includes technical symposia and broader impact content, tutorials, workshops, experiments in new meetings, as well as co-sponsored, co-located or other partnered programming. Meetings Committee subcommittees are Meetings Assessment and Program Development. MTGC recommends candidates for future Meeting Chairs and solicits and develops suggestions for new symposia, evaluates current and previous symposia for timeliness and relevance, and assesses meeting quality. (Refer to: http://www.mrs.org/committees)

Program Development Subcommittee (PDSC)
The Program Development Subcommittee assists the Meetings Committee in developing a balanced program by planning and overseeing the major multi-symposium Society meeting programs—Fall, Spring, and IMRC. PDSC works with the Meeting Chairs and suggests new symposium topics and organizers, so that the diverse interdisciplinary environment of symposium-based meetings continues to be preserved and enhanced. This Subcommittee is also responsible for overseeing the tutorial program, in coordination with the Meeting Chairs, to enhance the meetings. Refer to Section 10 for more details about planning and submitting your tutorial proposal. (Refer to: http://www.mrs.org/meetings-committee/)

PDSC oversees broader impact programming through proposals submitted to the Broader Impact Program Development Working Group (BIPDWG). BIPDWG oversees Fall and Spring Meeting programming outside of the technical content of the meeting to optimizing non-technical or broader impact activities as an integral part of the meetings; it reviews and approves scheduling of non-symposium events and broader-impact events, and serves as the point of contact for non-technical meetings to be held outside of the Spring and Fall meetings as well. (Refer to: www.mrs.org/broader-impact-programming/)

Meetings Assessment Subcommittee (MASC)
The Meetings Assessment Subcommittee reviews all major MRS meeting activities (Spring/Fall Meetings, co-sponsored events, workshops, and non-technical activity integration) to ensure quality is maintained across the MRS meeting event spectrum. MASC will actively participate in the Symposium Organizer Wrap-up Discussion and Meeting Chair debriefing sessions for the Spring, Fall, IMRC and other regular MRS meeting activities as they develop. In addition, the Subcommittee shall survey meeting attendees, evaluate meeting success including broader-impact peripheral meeting enhancements, and provide benchmarking. MASC will develop a set of general metrics and an archive to serve as a Society resource in this area. (Refer to: http://www.mrs.org/meetings-committee/)
Publications Committee
The Publications Committee shall be responsible for the quality of MRS publications and shall provide direction to and review of the society’s print and electronic publications, including journals, books, news, educational and all other publications. It shall oversee general editorial policy, engage in strategic planning and development of the Society’s current and future publications, recommend and work with partner entities where appropriate, and initiate publication focused task forces and subcommittees as deemed necessary by the committee. (Refer to: http://www.mrs.org/publications-committee/)

Society Agility Council
The Society Agility Council’s (SAC) role is to ensure the generation and maintenance of innovative topical communities within MRS for the implementation of the Society’s strategic objectives and its continued success. As scientific content enters and is maintained in the Society primarily via publications and meetings, the SAC is responsible for ensuring that MRS incubates and nurtures emerging and high-impact materials research topics; accommodates late-breaking topics/unusual programming with an efficient and swift decision-making process; and encourages the maintenance and representation of active and vibrant topics within the broader scope of MRS meeting and publication activities. SAC’s role embraces vetting, approving, and programming content that extends beyond the traditional MRS bottoms-up programming approach, and ensures coordination between MRS Meetings and Publications Committees.

* A complete MRS committee roster can be accessed at: www.mrs.org/committees.
SECTION 4: MEETING SYMPOSIA

Meeting Chairs:
Markus J. Buehler, Craig Fennie, Marina Leite, Laura Na Liu, Cengiz S. Ozkan

MRS Programming Staff:
Marla Boots, boots@mrs.org
Broader Impact (BI01-BI02)
Characterization (CH01-CH04)
Materials Computing and Data Science (DS01-DS03)
Electronics, Optics and Quantum (EQ01-EQ20)

Erin Moore, moore@mrs.org
Energy and Sustainability (EN01-EN15)
Biomaterials and Soft Materials (SB01-SB12)
Structural and Functional Materials (SF01-SF04)

BROADER IMPACT (Meeting Chair: All)
BI01 Developing an Open Source Introductory Textbook for the Materials Community
BI02 Women in Materials Science—Pioneers and a Vision for a More Inclusive Future

CHARACTERIZATION (Meeting Chair: Craig Fennie and Marina Leite)
CH01 *In Situ* and *Operando* Techniques Applied to Electrochemical Systems—A Key Toolkit for Deep Understanding
CH02 Solid-State Chemistry of New Materials
CH03 Frontiers in Scanning Probe Microscopy—Beyond Imaging of Soft Materials
CH04 Accelerating Materials Characterization, Modeling and Discovery by Physics-Informed Machine Learning

MATERIALS COMPUTING AND DATA SCIENCE (Meeting Chairs: Craig Fennie and Markus J. Buehler)
DS01 Accelerating Experimental Materials Research with Machine Learning
DS02 Advanced Atomistic Algorithms in Materials Science
DS03 Combining Machine Learning with Simulations for Materials Modeling

ELECTRONICS, OPTICS AND QUANTUM (Meeting Chairs: Cengiz S. Ozkan, Craig Fennie, Marina Leite and Laura Na Liu)
EQ01 Quantum Optical Materials and Devices Based on Impurity Systems
EQ02 Heterostructures of Various Dimensional Materials
EQ03 Spin-Based Sensing at the Nanoscale and Hyperpolarization with NV-Diamond and Beyond
EQ04 Machine Learning on Experimental Data for Emergent Quantum Materials
EQ05 Plasmonics, Nanophotonics and Metaphotonics—Design, Materials and Applications
EQ06 Innovative Fabrication and Processing Methods for Organic and Hybrid Electronics
EQ07 Defects and Strain Potential Enabled Emergent Behavior in Two-Dimensional Materials
EQ08 New Frontiers in the Design, Fabrication and Applications of Metamaterials and Metasurfaces
EQ09 Cutting-Edge Plasma Processes for Next-Generation Materials Science Applications
EQ10 Multiferroics and Magnetoelectrics
EQ11 Materials, Processes and Device Structures Enabling Next-Generation High-Frequency Flexible Electronics
EQ12 Optical Probes of Nanostructured, Organic and Hybrid Materials
EQ13 Nitride Materials—Synthesis, Characterization and Modeling
EQ14 Materials and Devices for Controlling Quantum-Coherent Spin Dynamics
EQ15 Soft Matter Materials and Mechanics for Haptic Interfaces
EQ16 Infrared and Thermal Photonic Materials and Their Applications
EQ17 Emerging Materials for Contacts and Interfaces in Optoelectronics
EQ18 Emerging Materials for Quantum Information
EQ19 Diamond and Diamond Heterojunctions—From Growth to Applications
EQ20 Beyond Graphene 2D Materials—Synthesis, Properties and Device Applications

ENERGY AND SUSTAINABILITY (Meeting Chairs: Marina Leite, Markus J. Buehler and Cengiz S. Ozkan)
EN01 Materials for Sustainable Electronics
EN02 Solid-State Batteries—Electrodes, Electrolytes and Interphases
EN03 Thermal Materials, Modeling and Technoeconomic Impacts for Thermal Management and Energy Application
EN04 Silicon for Photovoltaics
EN05 Emerging Energy and Materials Sciences in Halide Perovskites
EN06 Sustainable Electronics—Green Chemistry, Circular Materials, End-of-Life and Eco-Design
EN07 Mechano-Thermo and Electrical Coupling in Emerging Energy Materials
EN08 Low-Dimensional Halide Perovskites—From Fundamentals to Applications
EN09 Metal Sulfides for High Performance Electrochemical Batteries
EN10 Advanced Materials for Thermal Energy Management and Harvesting
EN11 Electrocatalytic Materials to Sustainably Convert Atmospheric C, H, O and N into Fuels and Chemicals
EN12 Advanced Materials and Chemistries for Low-Cost and Sustainable Batteries
EN13 Climate Change Mitigation Technologies
EN14 Advanced Materials for Hydrogen and Fuel Cell Technologies
EN15 Materials Research Opportunities for Energy Efficient Computing

BIOMATERIALS AND SOFT MATERIALS (Meeting Chairs: Laura Na Liu and Markus J. Buehler)
SB01 Engineered Functional Multicellular Circuits, Devices and Systems
SB02 From Hydrogel Fundamentals to Novel Applications via Additive Manufacturing
SB03 Transformative Nanostructures with Therapeutic and Diagnostic Modalities
SB04 Materials and Algorithms for Neuromorphic Computing and Adaptive Bio-Interfacing, Sensing and Actuation
SB05 Antimicrobial Materials Against Coronaviruses and Other Nosocomial Pathogens
SB06 Graphene and Related 2D Materials for Bioelectronics and Healthcare
SB07 Soft, Healable Materials and Devices for Biological Interfaces and Wearables
SB08 Bioelectronics—Materials and Interfaces
SB09 Biological and Bioinspired Functional Materials—From Nature to Applications
SB10 Micro- and Nanoengineering of Biomaterials—From Precision Medicine to Precision Agriculture and Enhanced Food Security
SB11 Photo/Electrical Phenomena at the Interface with Living Cells and Bacteria
SB12 Biomaterials for Regenerative Engineering
STRUCTURAL AND FUNCTIONAL MATERIALS (Meeting Chairs: Markus J. Buehler and Cengiz S. Ozkan)

SF01  Advanced Atomic Layer Deposition and Chemical Vapor Deposition Techniques and Applications
SF02  Additive Manufacturing—From Material Design to Emerging Applications
SF03  3D Printing of Functional Materials and Devices
SF04  New Types of Polymers, Composites and Hybrid Materials for Additive Manufacturing

X  Frontiers of Materials Research

Updated 6/11/2021
SECTION 5: PROGRAM

A. PROGRAMMING INSTRUCTIONS

MRS offers an online process for abstract submittal and program development. This section summarizes the most important details that you should know before developing your program. Your understanding of these procedures and your cooperation in meeting the various programming deadlines are crucial to the timely publication of meeting information. Authors and other meeting attendees need this information to arrange their travel and meeting schedules.

MRS Online System
The MRS Online System is a complete easy to use online tool for abstract submission through acceptance and session building of technical programs. There are two features for symposium organizers Review and Session Centers:

1) The Submission Center allows authors to submit their abstracts to a symposium.
2) The Review Center allows organizers to review (accept/reject) and print submitted abstracts.
3) The Session Center enables organizers to create individual program sessions from the abstracts that you marked as “accepted” in the Review Center. It is important that you appoint one co-organizer to input the group’s collective programming decisions.

Instructions to access the Review and Session Centers will be sent to you by MRS. You will have two weeks following the abstract deadline to review, select and arrange accepted abstracts into a program that must be completed in the MRS Online System.

If you have specific symposium questions, please contact MRS programming staff (refer to Section 4).

Abstract Submission
All abstracts must be submitted via the MRS Online System submission site, http://www.mrs.org/fall2021, (this link will not be active until May 14, 2021 and will close on June 22, 2021 11:59 pm ET). Organizers can begin looking at submitted abstracts and familiarizing yourself with the Review Center as soon as the abstract submission site opens. However, please note that nearly two-thirds of an expected 4,000+ abstracts are not submitted until three days prior to the abstract deadline. Also, authors have the ability to revise their abstracts up to the abstract deadline date. Therefore, we recommend that you wait until after the submission deadline date before making any decisions.

MRS programming staff will contact you two weeks prior to the submission site closing with complete instructions for building your technical program. We strongly recommend that you print all the abstracts AFTER the submission deadline to be certain that you have the latest version of all submittals.

Submissions Directly to Organizers
All abstracts must be submitted via the MRS Online System. If you receive an abstract from an author, please instruct them to upload their abstract to http://www.mrs.org/fall2021. If an author is unable to submit their abstract to the Online System, please instruct them to email meetings@mrs.org for assistance. DO NOT SUBMIT ABSTRACTS FOR ANY INVITED SPEAKER OR AUTHOR THROUGH THE MRS ONLINE SYSTEM.
Accepting/Rejecting Abstracts
Use the Review Center to determine and indicate which abstracts will comprise your program. The Review Center enables you to conveniently mark submitted abstracts as accepted or rejected, or to suggest that they be re-categorize to a more appropriate symposium. Because all organizers for each symposium have access to the Review Center—and one person’s selections can override another’s—it is important to designate one person to record the group’s final decisions within the Review Center. Indicating abstract acceptance or rejection within the Review Center is a necessary prelude to using the online programming features in the Session Center. IMPORTANT INFORMATION ABOUT MRS-RECOMMENDED REJECTION RATES IS INCLUDED IN SECTION 5B and 5C.

Program Days
The program runs from Monday 8:30 am through Friday 5:00 pm. Optional: If you have a full program (Monday am-Friday pm) and need additional time, symposium sessions can be scheduled on Sunday.

Tutorials: Sunday, November 28, 2021 can be scheduled as half-day (morning or afternoon) or full day and must include appropriate breaks
  o Sunday
    o 8:30 am – 12:00 pm half day morning
    o 8:30 am – 5:00 pm full day
    o 1:30 pm – 5:00 pm half day afternoon

Symposia Oral Sessions: Monday, November 29, 2021 through Friday, December 3, 2021
  o Monday
    o 8:30 am – 12:00 pm Symposia sessions
    o 1:30 pm – 5:00 pm – Symposia sessions
    o 8:00 pm – 10:00 pm Poster Session - Author Presentations
  o Tuesday
    o 8:30 am – 12:00 pm Symposia sessions
    o 1:30 pm – 5:00 pm – Symposia sessions
    o 8:00 pm – 10:00 pm Poster Session - Author Presentations
  o Wednesday
    o 8:30 am – 12:00 pm Symposia sessions
    o 1:30 pm – 2:30 pm Symposia sessions
    o 2:30 pm – 3:30 pm SPECIAL BREAK FOR ALL SYMPOSIA
    o 3:30 pm – 5:00 pm Symposia sessions
    o 8:00 pm – 10:00 pm Poster Session - Author Presentations
  o Thursday
    o 8:30 am – 12:00 pm Symposia sessions
    o 1:30 pm – 5:00 pm Symposia sessions
    o 8:00 pm – 10:00 pm Poster Session - Author Presentations
  o Friday
    o 8:30 am – 12:00 pm Symposia sessions
    o 1:30 pm – 5:00 pm Symposia sessions
Program Times

Symposia Oral Sessions

- Oral presentations are assigned 15 minutes.
- Invited speakers are assigned 30 minutes.
- Keynote Session (Invited) presentation is assigned 30 minutes, at the end of the session.
- Spotlight Talk presentations are groups of 3 poster presentations given a 5 minute talk each, at the end of the session, if applicable, prior to the Keynote Session presentation.

  o Morning Sessions:
    - Morning session traditional start time: 8:30 am
      - Optional start times: 8:00 am, 8:15 am
    - Morning sessions must end at 12:00 noon.
    - Include a 30 minute “Break” in all morning sessions except Monday. This break can occur anytime between 9:30 am and 10:30 am. To ensure adequate time for meeting attendees to network, meeting chairs recommend serious consideration be given to times other than 10:00 am.

  o Lunch Break:
    - There is a mandatory lunch break scheduled from 12:00 pm – 1:30 pm. Please note that MRS does not provide lunch to meeting participants.

  o Afternoon Sessions:
    - Afternoon session start time: 1:30 pm.
    - Afternoon sessions must end by 5:00 pm.
    - Include a 30 minute “Break” in all afternoon sessions except Wednesday. This break can occur anytime between 2:30 pm and 3:30 pm. To ensure adequate time for meeting attendees to network, meeting chairs recommend serious consideration be given to times other than 3:00 pm.
      - **WEDNESDAY SPECIAL BREAK FOR ALL SYMPOSIA** – There will be a mandatory one-hour break so attendees have the opportunity to visit the Exhibit Hall on **Wednesday, December 1** from 2:30 pm – 3:30 pm. During this time, coffee will be served in the Exhibit Hall. **No other programming will be accepted during this 60-minute period**, all meeting attendees are encouraged to visit the Exhibit to take part in the special festivities. Morning programs can begin at 8:00 am Wednesday, so that the additional 30 minutes of program time can be recovered.

Symposium X

Frontiers of Materials Research is scheduled from 12:15 pm - 1:15 pm Monday, Tuesday, Wednesday and Thursday. Meeting chairs are responsible for Symposium X.

Session Chairs – Make sure to have approval from your session chairs before assigning them to a session. (See Section 11B for Session Chair Guidelines)

- Each oral session should have at least two session chairs.
- Oral Session Chairs are responsible for overseeing the session and keeping it on time.
- Poster Session Chairs are responsible to review and nominate for the BEST POSTER AWARD. (At least one of the Poster session chairs should be a symposium organizer.)
**Poster Sessions**

Interdisciplinary Poster Sessions – Author Presentations will be scheduled on Monday, Tuesday, Wednesday and Thursday 8:00 pm – 10:00 pm, with snacks and beverages provided by MRS. Be sure to divide your evening poster session into separate sessions for each subtopic (if applicable, i.e. several sessions may be scheduled in a single evening). Poster sessions should be assigned the next sequential session number within your program. **Because of limited space, it is recommended that you consider having poster sessions on multiple evenings, particularly if you have more than 40 poster presentations.** In general, posters are assigned on a first-come, first-served basis until room capacity is exceeded on any given evening. However, your preferred evenings for posters may be shifted in the interest of creating appropriately sized, well-attended poster sessions within the limited confines of the assigned poster room.

MRS strongly recommends organizers adhere to author’s whose preferred presentation type is a poster when building your program. Most authors who prefer to have a poster presentation do so because of language barriers. Therefore, we ask that if an author’s preference is poster and you have accepted the abstract you place it in a poster session and not as an oral presentation.

The Meeting Chairs will select and present 3-5 Best Poster Awards each day to the presenting authors. You will receive Best Poster Award Nomination instructions at the Symposium Organizer Tie-Down meeting, Sunday, November 28, 2021.

**Invited Abstracts**

Please ask your invited speakers to submit their abstracts to the MRS Online System by the abstract deadline, Tuesday, June 22, 2021, 11:59 pm ET. ALL abstracts, including the invited speakers, are subject to the same deadlines. If they do not submit an abstract, you will often find it necessary to continuously remind them in order to avoid having “Abstract Not Available” appear in the online program. In those few cases in which extenuating circumstances make on-time submittal by an invited speaker impossible, please use the “placeholder” feature of the Session Center to indicate in your program the 30-minute time slot that you are holding for that invited speaker. MRS’ willingness to extend the deadline for invited speakers has been abused in recent meetings, with some papers not being submitted for several months after the published deadlines. This causes more work for both MRS staff and symposium organizers, so please urge your invited speakers to be timely.

**Invited Speaker Guidelines:**

- It is inappropriate for symposium organizers to be invited speakers within their own symposium.
- MRS expects invited speakers to personally present their talks. Please advise speakers of this requirement when inviting them.
- MRS strives to provide both established and newer members of the community the opportunity to give oral presentations. An invited-to-contributed ratio of 1:4 is recommended for your oral sessions. While some slight variation from this ratio is acceptable, the Society does not condone programs that are comprised of essentially all invited presentations.

MRS is aware that some people may be receiving invitations to speak at multiple symposia. To ensure that the invited speakers do not present the same material in multiple talks, please include the following in the invitation – “If you receive invitations to talk at multiple symposia, we ask that you accept no more than two invited talks and ensure that they are topically distinct.”
**Keynote Session**
Keynote Session (Invited) presentations are a 30 minute talk at the beginning or end of the session day by an invited speaker who has been requested to speak by multiple symposiums (uniting all symposiums (two or more symposiums) into one session for the invited speaker, known as a Keynote Session). Organizers of the applicable symposiums must work together on having the keynote session with the same title, abstract and session time.

**Joint Sessions**
Joint sessions must be constructed through the close, direct interaction of the respective groups of organizers involved—or at least by those organizers who have primary programming responsibility. Organizers of joint sessions must work closely together during the program planning process to recommend and share those abstracts that they feel are best suited to the topical emphasis of their joint session. It is especially important that both symposia sponsoring a joint session submit programs that are consistent; i.e., the same papers in the same time slots. This can only be done through close and frequent contact in the planning stage. Failure to properly coordinate joint sessions will only delay the processing of your program by MRS. MRS programming staff will provide complete instructions for building sessions in your program.

**Spotlight Talk**
Spotlight Talk presentations are groups of 3 poster presentations given a 5 minute talk each, up to a total of 30 minutes with a maximum of 6 poster presentations at the end of the session day, prior to the Keynote Session, if applicable. Spotlight talks highlight poster presentations of that evening promoting attendees to come see the poster presentation.

**Late Abstracts**
MRS strictly enforces the published abstract deadline so that symposium organizers can finalize their programs in a timely fashion. You may be contacted by an author who would like you to consider a late contributed abstract. If you feel the late abstract is 1) legitimate “late breaking news” or 2) is otherwise of a quality surpassing that of on-time submittals, please send a written explanation to your assigned Meeting Chair (identified on the symposia list, Section 4) with a copy to Pat Hastings at MRS Headquarters. We will review your requests and inform you of our decision as soon as possible. **Late abstracts cannot be included in your program without the approval of the Meeting Chair(s).** If the abstract does not meet either of these two criteria, please remind the author that we do not accept post-deadline submittals.

**Symposia Clusters**
The Meeting symposia have been organized into topical clusters, as shown in Section 4. We will try to maintain these clusters to the highest degree possible when assigning meeting rooms. However, history indicates that, in order to assign appropriately sized rooms to all symposia—and to try to keep related symposia and those with joint sessions in close proximity—it will be unlikely that ALL the linkages can be maintained. If you feel that your symposium is better placed in a different cluster, or you want to identify especially strong linkages within a given cluster that we should try to maintain under all circumstances, please let your assigned Meeting Chair (refer to Section 4) know right away. We will do everything we can to accommodate your requests. However, the Meeting Chairs must reserve the right to make the final decision on symposia locations and room assignments for the benefit of the overall meeting.
Program Planning Meeting
In order to finalize programs and room assignments, it is important that you complete your programs by the Symposium program deadline, July 9, 2021. That will enable MRS Programming Staff to prepare copies of the programs for your review at the Program Planning Meeting, July 26, 2021. An agenda and reply form for this planning meeting will be e-mailed to you. We cannot over-emphasize the importance of having at least one representative from each symposium at this critical planning event.

MRS looks forward to working with all of you to achieve an MRS Meeting that will exceed everyone’s best expectations. If you have any questions about the programming process, please contact Pat Hastings, hastings@mrs.org, or any of the Meeting Chairs.

If 2021 MRS Spring Meeting - Call for Papers editing deadline you have specific symposium questions, please contact MRS Programming Staff (refer to Section 4).

B. ABSTRACT ACCEPTANCE POLICY

High-quality meetings are one of the hallmarks of the Materials Research Society. MRS continuously strives to maintain and improve the quality of the symposia meeting program. As a symposium organizer, you are responsible for accepting abstracts for both oral and poster sessions that meet the high standards of your symposium and the meeting as a whole.

Things to keep in mind when determining a quality abstract:
1. Does the subject matter have an interested audience today?
2. Does the abstract present cutting edge research?
3. Does the abstract present technically new or innovative ideas?

Because it’s the quality, not the duration, that ultimately determines a symposium’s success, we strongly recommend that you reject abstracts that do not meet the topical criteria or the quality of your symposium. Including poor abstracts in poster sessions is NOT a valid alternative to rejecting them; the selection criteria for posters should be the same as for oral sessions. The MRS suggested abstract rejection rate is 15% based on the criteria below.

Although rejection rates can vary because of a symposium’s unique circumstances, symposium organizers will be asked to justify to the Meeting Chairs any rejection rates that are significantly below this level. The consequences of not rejecting unsuitable abstracts are substantial. Your symposium will experience lower-than-expected attendance and be perceived as being low-quality overall. Ultimately, this could jeopardize opportunities for participation of this topic or symposium in future MRS meetings.
**Grounds for Abstract Rejection:**

Grounds for abstract rejection include, but are not limited to, the following:

1. The abstract is not in the field of the symposium. (If possible, the abstract should be re-categorized to a more suitable symposium. This can be done in the Review Center.)
2. The work presented in the abstract is of comparatively poor quality.
3. The work is not likely to be of interest to a reasonable number of symposium attendees.
4. The work is not recent and/or has been reported extensively elsewhere.
5. The work is repetitive due to multiple submissions by a single author. (In this case, you should explicitly instruct the author to combine the material from various abstracts into a single submittal.)

**C. REJECTION RATES**

The Society continuously strives to maintain and improve the quality of its meetings. Because it is the quality, not the duration, that ultimately determines a symposium’s success, we strongly recommend that you reject abstracts that do not meet the topical criteria or the quality of your symposium. Including poor abstracts in poster sessions is NOT a valid alternative to rejecting them; the selection criteria for posters should be the same as for oral sessions. The recommended rejection rate for an MRS meeting is 15%—some are higher and some lower—depending on individual circumstances. **IMPORTANT:** Symposium organizers will be expected to justify rejection rates that are significantly below the suggested level to assigned Meeting Chairs for your cluster.

**D. SYMPOSIUM ORGANIZER RESPONSIBILITIES**

During the editing process of the Call for Papers, Symposium Organizers will have to select a Symposium Organizer Responsibility in the Call for Proposals/Call for Papers online system (refer to Call for Papers editing instructions sent by Amanda Edmiston edmiston@mrs.org). This selection is important to ensuring the designated organizer receives critical information from the designated MRS Staff (listed below).

Each Symposium Organizer must designate who will be the lead for each one of the four listed functions below:

- **Finance/Budgets** - For fund raising and allocation of symposium expenses (refer to Section 7)
  
  *Primary MRS Staff Contact:* Mallory Starr, starr@mrs.org

- **Program Development** - Coordinates program outline (refer to Section 5)
  
  *Primary MRS Staff Contact:* Marla Boots, boots@mrs.org, or Erin Moore, moore@mrs.org
  
  (See Section 4 for who is responsible for your particular symposium)

- **Manuscripts/MRS Advances** - Coordinates manuscript review and makes publication decisions (refer to Section 8)
  
  *Primary MRS Staff Contact:* Susan Dittrich, dittrich@mrs.org

- **Graduate Student Awards** program – For evaluation of applications (refer to Section 12)
  
  *Primary MRS Staff Contact:* Lorri Smiley, smiley@mrs.org
A. PROMOTING YOUR SYMPOSIUM

The Meeting Chairs have asked that all symposium organizers submit their Call for Papers text through the MRS Call for Papers website (https://www.callforpapers.mrs.org/) by January 4, 2021. This information will be posted to the 2021 MRS Fall Meeting web pages (www.mrs.org/fall2021) by February 1, 2021.

The 2021 MRS Fall Meeting web pages are the primary media for disseminating information about the meeting. The Call for Papers, Program, Abstracts, and other relevant information are posted on the website as they become available. The Program and Abstracts are posted in HTML format. A web-based and mobile Meeting App will also available closer to the Meeting date.

Marketing efforts begin in late April, when approximately 20,000 postcards and over 40,000 email announcements will be sent to materials scientists from around the world. The Call for Papers will also be promoted via our e-newsletter, Materials360®, which has a global reach of 35,000+.

In addition, we ask for your help to promote the 2021 MRS Fall Meeting, your symposium, and in particular, your own Call for Papers. As the Call for Papers and registration promotional periods approach, MRS will share a toolkit with you to help you disseminate information to your networks. These toolkits will include sample messaging for you to share via email, social media, and any newsletters or listservs you contribute to, as well as some graphics to support these messages. Flyers will also be provided in PDF format for you to share with your colleagues via print or email. Messaging will be provided in copy-and-paste templates for ease of use, but we encourage you to add your own voice and personality as you reach out to your networks.

We also ask that you encourage your colleagues to update their email preferences with MRS to ensure they receive all the latest news and updates about the 2021 MRS Fall Meeting and related events.

Marketing Timelines

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<th>Description</th>
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<tr>
<td>April 26</td>
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<td>Call for Papers postcard to all Meetings list</td>
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<tr>
<td>May 10</td>
<td>Call for Papers paid social campaign begins</td>
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<tr>
<td>May 17</td>
<td>Call for Papers email to S/F20 attendees</td>
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<tr>
<td>May 24</td>
<td>Call for Papers email to all Meetings list</td>
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<tr>
<td>June 3</td>
<td>Call for Papers email to all Meetings list</td>
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<td>June 7</td>
<td>Call for Papers email to openers of June 3 email</td>
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<tr>
<td>June 10</td>
<td>Call for Papers email to all Meetings list</td>
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<tr>
<td>June 10</td>
<td>Call for Papers paid social campaign ends</td>
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*Timelines continued on next page.*
LATE NEWS ABSTRACT SUBMISSION

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<tr>
<td>September 8</td>
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<td>September 13</td>
<td>Call for Papers email to openers of September 8 email</td>
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<td>September 15</td>
<td>Call for Papers email to all Meetings list</td>
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<tr>
<td>September 15</td>
<td>Call for Papers paid social campaign ends</td>
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B. PUBLICITY/PRESS COVERAGE FOR MRS MEETINGS

Our Objectives
To generate responsible coverage in the technical and general press about research developments reported at MRS Meetings; and to encourage greater appreciation among reporters and editors about the contributions and importance of materials research and development.

Principal Methods
Furnish reporters and editors with a suggested list of topics and specific presentations worth attending—either overviews of important fields or explanations of noteworthy developments in research or application of materials.

Procedure
• In early October, Symposium Organizers will receive an email from MRS Marketing, inviting them to submit their Symposium Highlights for the press. The email will include a direct link to the online Symposium Highlights submission form.
• **Highlights Submission Deadline: October 22, 2021**
• We are seeking your judgment as to which presentations—if any—ought to be highlighted for the press. Highlights should be selected principally for the novelty of the work to be presented, although we are also interested in any good overview presentations that would help give reporters a “handle” on the symposium and fields affected.
• MRS prepares a Press Tip Sheet (see sample in Section 6C) based on symposium highlights furnished by symposium organizers.

Additional Press Considerations
Our first emphasis for press coverage at MRS Meetings is on veteran correspondents from *Science, Nature, Science News, Physics Today, C & E News*, and other major technical publications. They have been extremely complimentary of the press information provided by symposium organizers in the form of symposium highlights and lay-language abstracts. Sometimes these materials lead to immediate news coverage; sometimes they form the basis for a more in-depth article weeks or months later. (MRS cannot guarantee the use of any press information that you provide.)
We also are on the lookout for topics and stories appropriate for the general press. Science editors at the *Wall Street Journal, Boston Globe, New York Times, CNN, Newsweek* and *Time* pay attention to the MRS Meeting although coverage in these publications is rare. If you know of a topic or presentation that you believe should be called to the attention of these editors, please contact:

**Jenny MacBeth**  
Marketing and Communications Coordinator  
Phone: 724-779-2771  
[macbeth@mrs.org](mailto:macbeth@mrs.org)
C. PRESS TIP SHEET (Sample-only text below)

2021 MRS Fall Meeting
Boston, MA — November 28 – December 3, 2021

Symposium organizers for the 2021 MRS Fall Meeting have advised that the following presentations are of special note to the trade press. Program comments *(in italics)* are from the symposium organizers themselves. Only presenting authors are listed. The content provided is based on information current as of November 16, 2021. For the most up-to-date information, and for additional information on these presentations (including abstracts), visit *www.mrs.org/fall2021*, or consult the official MRS Spring Meeting mobile app.

**Symposium BI01—Sustainable Development in Materials Science and Related Societal Aspects**

**BI01.01.01** Karyn Perdue, Key Concepts and Educational Approaches for Engaging Public Audiences in Learning About Materials Science and Sustainability
Monday, 8:30 AM | Sheraton, 3rd Floor, Hampton
*This is a key issue on how to engage general public on sustainability.*

**BI01.01.05** Ivana Aguiar, Research, Teaching and Outreach as Examples of Helping to Go Towards a More Sustainable Future
Monday, 10:30 AM | Sheraton, 3rd Floor, Hampton
*This talk is on research and teaching for moving to a sustainable world.*

**BI01.01.07** Mark A. Miodownik, Can Materials Science Save Us (From Ourselves)?
Monday, 11:30 AM | Sheraton, 3rd Floor, Hampton
*Miodownik will show how materials science may embrace the future of our civilization.*

**BI01.02.03** Markus Buehler, Eigenprot—A Musical Instrument Based on the Molecular Vibrations of Over 100,000 Protein Structures
Monday, 2:30 PM | Sheraton, 3rd Floor, Hampton
*Buehler’s talk is on using proteins vibrations for making a musical instrument.*

**Symposium ET10—Redox Active Materials and Flow Cells for Energy Applications**

**ET10.03.02** Y. Shirley Meng, Enhanced Stability of Flow Batteries Using Complexing Agents and Additives
Monday, 2:00 PM | Hynes, Level 3, Room 309
*The solubility of organic materials in redox flow battery electrolytes is critical to achieving high concentration. From a pharmaceutical approach, Meng’s group used additives that coordinate to organic redox couples and bring them into solution without modifying the active species itself.*
The Aziz group has received much press for their development of organic materials for use in aqueous based redox flow chemistries. Many of their materials are related to, and/or derived from, natural products. His group is leading the field in aqueous organic flow batteries.

D. MEETING SCENE® ON-SITE COVERAGE

Meeting Scene delivers daily summaries of technical presentations and events by on-the-spot reporters at MRS Spring and Fall Meetings. These electronic newsletters are produced by Meeting Scene Editor, Judy Meiksin (meiksin@mrs.org), and are distributed to approximately 25,000 MRS members, Meeting attendees and subscribers. They are also posted on the MRS website.

During the Meeting week, we ask that you forward newsworthy items, breaking news, or significant new research developments to Judy for inclusion in the daily reports. Please also alert us to any special or noteworthy talks within your symposium that could warrant special attention. News items (along with graphics) can be e-mailed directly to Judy or may be left at one of the MRS Help Desks.

Additional information on Meeting Scene may be found at www.mrsmeetingscene.org
SECTION 7: SYMPOSIUM FUNDING

A. INTRODUCTION/FUNDING POLICY

MRS supplies symposium organizers with the necessary basic services to run a symposium without raising additional funds. However, additional funds can assist in obtaining internationally recognized scientists as invited speakers and cover expenses incurred during the organization of the symposium. Possible funding sources include government agencies, DOE national laboratories, and industry. Guidance for approaching fundraising is given in this section. Fundraising does not involve a great deal of time, and it adds to the success of a symposium.

MRS encourages co-support of symposia by other professional societies, institutes and foundations. For details on this and reciprocal arrangements that can be made with other organizations, contact Patricia (Pat) Hastings, Director of Meeting Activities.

To ensure fiscal responsibility and to avoid situations that might be potentially embarrassing to you and to the Society, it is important that you follow the procedures outlined in this section.

Symposium Funding Policy

MRS uses its financial resources to provide symposium organizers the opportunity to plan and advertise a topical symposium in their specialty field and to hold that symposium in comfortable, well-managed surroundings conducive to the productive exchange of information. Frequently, symposium organizers want to extend or enhance these basic features to make their symposium special.

Unlike most other technical societies, MRS permits its symposium organizers to supplement the basic meeting features with appropriate additions they feel will improve the quality and effectiveness of their symposium. MRS encourages symposium organizers to take full advantage of the opportunity to design a unique symposium operationally and technically. However, with the right to provide desired enhancements goes the responsibility to raise funds to pay for them and to use those funds in an appropriate manner.

The financial burden of services and benefits beyond the basic symposium support of the Society rests entirely with the symposium organizers. MRS cannot afford and will not pay for these. However, MRS will provide considerable assistance with the fundraising efforts of the symposium organizers.

Each symposium is allocated $1,500 of funding from MRS. The funding is designed to assist organizers with enhancing the quality of their symposia and might be set aside by organizers for invited speaker registration and/or travel support, financial support for junior researchers and students, and special at-meeting AV needs. Note: symposium organizers’ registration fees cannot be paid from this fund.
The Society has developed effective methods by which symposium organizers can successfully solicit funds from federal agencies and private corporations. These methods do involve time and effort by the organizers. The following pages provide more detailed information concerning the **basic** symposium services, examples of **supplemental** features, and **operational** procedures for symposium funding.

### B. BASIC SYMPOSIUM SERVICES SUPPLIED BY MRS

MRS assumes the essential financial costs of running a symposium. The services that MRS provides to all symposia and which **do not** require supplemental funds are:

**Before the Meeting:**
- Compilation of a **targeted mailing list** from MRS interest lists and from names supplied by symposium organizers.
- Production and distribution of the **Call for Papers**
- Processing and coordination of **abstracts** for production and posting of the Program on the MRS website.
- Processing of **pre-registrants**
- Assembly and printing of the **Meeting & Exhibit Guide**
- **Detailed planning** of the meeting activities for smooth operation

**At the Meeting:**
- Processing **on-site registrants**
- **Well-equipped and staffed meeting rooms** to include standard AV, poster boards, and symposium assistants.
- **Morning and afternoon coffee breaks**
- **Society reception**
- **Refreshments at evening Poster Sessions**.

**Note:** The **standard AV package** in each meeting room will consist of an LCD projector, screen, pointer and lapel microphone. ONLY meeting rooms with seating capacity over 150 attendees will have wireless aisle microphones for Q&A. Authors must provide their own laptop computer, power cord, and any proprietary cords required by their laptop.

### C. OPTIONAL SUPPLEMENTAL FEATURES FINANCED BY EXTERNAL FUNDING

It is possible to run a symposium and publish in *MRS Advances* without raising any additional funds. However, additional funds can be used to help make your symposium special.
Examples of supplemental features that symposium organizers might want to provide include the following:

- Support for invited speakers such as travel reimbursement, registration fees or complimentary print issue of *MRS Advances*;
- Support for tutorial instructors above the stipend provided by MRS (Refer to Section 10);
- Support for students or underrepresented groups to attend your symposium;
- Payment of registration fees and travel reimbursement for symposium organizers;
- Food and beverage functions, other than the basic refreshments provided by MRS;
- Requests for special AV such as extra microphones (wireless, aisle or podium);
- Best Poster or Best Presentation awards within your symposium (see guidelines below)

**DETERMINING A BUDGET FOR OPTIONAL SYMPOSIUM FEATURES**

Only partial support is normally required to secure a speaker (for example, offering $500 towards travel, not covering their entire travel cost). In most cases, partial support of travel makes it easier for speakers to raise the balance they need.

- **Payment of honoraria is not appropriate.**
- Offers of support should be for fixed dollar amounts rather than for a percentage of the total travel expense.
- Until funding is confirmed, offers of support should be communicated as tentative ("if funding becomes available, we will assist you with $500 toward your travel expenses").
  
  **MRS is not liable for offers of support that cannot be fulfilled.**

There are **no waived, reduced, or one-day registration fees.** All meeting registrations must be paid either by the individual or from symposium funds.

You should exercise discretion in setting up your budget.

- Lavish and excessive spending is not necessary to run an effective symposium and may bring discredit to MRS.
- Spending on entertainment should be kept within reasonable levels. (For example, a dinner for speakers and session chairs should be treated as a networking opportunity and limit lavish food and beverages).
- In most circumstances, government agencies will not support food & beverage costs. Supplemental food & beverage functions require using the $1,500 MRS funds or corporate funds.
BEST POSTER OR BEST PRESENTATION AWARDS GUIDELINES

If you choose to give Best Poster or Best Presentation awards within your symposium, the symposium organizers should decide on the amount and number of awards to give (MRS recommends amounts of $500 or less per award). The organizers will also be responsible for selecting the winners.

MRS will process monetary awards from your symposium account. Symposium Organizers must complete and submit a check request form to Mallory Starr (starr@mrs.org) for processing the monetary awards.

The symposium organizers should coordinate any certificate or other documentation you wish to give to the award winners.

- Please note if certificates or other documentation is issued to the winners, the certificate wording should be specific to your symposium (for example, “Best Poster for Symposium MS01: Materials Science is Great as held at the 2021 MRS Fall Meeting”)

- Please list the MRS Meeting in this format, without shortening or modifying: 2021 MRS Fall Meeting.

It is not necessary to “name” the award after your symposium supporters, as they will receive various other forms of recognition in return for their donation. However, if you do choose to offer an award in the name of one of your supporters (often the publisher supporters will want you to do this), the award must not be tied to any obligation to publish with them because MRS reserves the right of first refusal for publication of collections of MRS Symposium content.

D. OPERATIONAL PROCEDURES FOR SYMPOSIUM FUNDING

Symposium organizers wanting to add supplemental activities must adhere to the following minimal procedures. These are for liability protection of both the organizers and the Society:

- Symposium budgets are managed by Mallory Starr at HQ. Symposium Organizers must communicate with Mallory Starr regarding their plans for receiving and spending symposium funds.
- All funds raised on behalf of MRS symposia must be deposited at MRS in an account specific to a given symposium (Mallory Starr at MRS will provide information on how to make payment to this fund).
- Disbursements from symposium funding will be made upon written request of the symposium financial chair. No reasonable request will be denied, but the Society needs to have this procedure to be assured that the request is indeed reasonable and funds to cover the request exist.
- Organizers should ONLY offer support to symposium attendees when the funding commitments are confirmed. (MRS is not liable for offers of support that cannot be fulfilled.)
Until funding is confirmed, offers of support can be communicated as tentative ("if funding becomes available, we will assist you with $500 toward your travel expenses").

E. PROPOSALS FOR FEDERAL FUNDS

The following government agencies are potential sources for funding your symposium – Contact Mallory Starr (starr@mrs.org) or Sandy Forrest (forrest@mrs.org) for sample government proposals:

- Air Force Office of Scientific Research/Air Force Research Laboratory: www.afrl.af.mil
- Army Research Office\(^1\): www.aro.army.mil
- Department of Energy: www.doe.gov
- National Science Foundation\(^2\): www.nsf.gov
- Office of Naval Research: www.navy.onr.mil

\(^1\) ARO requires MRS to submit one block grant per meeting. Symposium Organizers should submit proposal information to Sandy Forrest (forrest@mrs.org) who will then arrange the block grant to be submitted collectively.

\(^2\) The National Science Foundation updates its Proposal & Award Policies & Procedures Guide (PAPPG) each year to communicate the recommendations of the National Science Board. The link to the most recent PAPPG (effective June 1, 2020) is: https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf20001&org=NSF
This document should be reviewed by organizers that wish to request funding from NSF.

Each proposal must contain a summary of the project and statements on the intellectual merit of the proposed activity and a statement on the broader impacts of the proposed activity. NSF values the advancement of scientific knowledge and activities that contribute to the achievement of societally relevant outcomes. Such outcomes include, but are not limited to: full participation of women, persons with disabilities, and underrepresented minorities in science, technology, engineering, and mathematics (STEM); improved STEM education; increased public scientific literacy and public engagement with science and technology; and increased partnerships between academic, industry, and others.

STEPS FOR SOLICITING GOVERNMENTAL FUNDING

Generally, government agencies are very receptive to novel symposia, and you should emphasize this aspect in your initial contact. The following approach has been successful for many previous symposium organizers:

1. **Telephone funding agency representatives** that you believe are likely to be interested in the technical area your symposium will address; describe your plans and ask if they are interested in possibly funding such a symposium.
2. If the representative seems interested or does not discourage you, prepare a formal proposal to include:

- A one-page abstract readable by people with wide and diverse backgrounds;
- A description of the scientific background, objective and technical approach;
- How the proposed research effort will respond to the objectives of the funding agency;
- The need for this topic to be held at the MRS meeting vs. other meetings;
- List of invited speakers;
- How the results of the meeting will be disseminated;
- Future directions for this series of symposia;
- Anticipated budget and budget justification;
- A 1-2 page biographic profile for the lead or financial symposium organizer

3. Submit all proposals to Sandy Forrest, MRS HQ for processing.

Sandy Forrest can assist you by supplying copies of proposals from previous symposia. Proposal evaluations can take up to six months so early planning is recommended. Once an agency has formally decided to fund your symposium, MRS HQ will handle the administrative details to include invoicing for the funds, filing financial reports, and providing required MRS Advances volume to the funding agency.

4. For all government grants, a final technical report must be prepared by the symposium organizers 60-days post-meeting and sent to Sandy Forrest for submission to the granting agency. Failure to comply with this requirement delays evaluations for pending MRS proposals. To ensure full compliance by the symposium organizers in preparing final reports, MRS will hold in reserve 10% of the total grant award funds. These funds will be released for spending once the final report is prepared and submitted to MRS for forwarding to the appropriate government agency.

F. SOLICITATION OF CORPORATE FUNDS

Funds should be solicited where possible from the industrial/corporate sector. Contact industrial representatives that you believe are likely to be interested in the technical area your symposium will address; describe your plans and ask if they are interested in possibly funding such a symposium. Corporate funds can generally be used for a wider variety of purposes than government funds.

The MRS Symposium Support Program offers four (4) support levels beginning at $1,000:

- $10,000 Platinum
- $5,000 Gold
- $3,000 Silver
- $1,000 Bronze

Each donation can acknowledge only one Institution/Company.
All donations $1,000 and above receive Signature Benefits as follows:

- Recognition in the MRS Meeting & Exhibit Guide
- Recognition in on-site signage positioned outside the symposium room
- Recognition on Symposium Support page on the MRS website & mobile meeting app
- Recognition in the symposium technical program on the MRS website & mobile meeting app
- Recognition in a post-meeting issue of MRS Bulletin

The various support levels offer additional opportunities for recognition. See the MRS Symposium Support Program brochure for additional information.

PLEASE NOTE: Contributions of less than $1,000 will NOT receive the Signature Benefits, but will be recognized on the Symposium Support page on the MRS website & mobile meeting app.

For assistance in preparing correspondence to solicit corporate funds, contact Mallory Starr at MRS HQ. See page 38 for sample letter.

PLEASE NOTE:

Organizers may request to have one skirted table placed within their meeting room where their symposium supporters may display printed literature only – no electronic advertising of any kind is permitted in the symposium meeting rooms. To order the table (free of charge), contact Mallory Starr at starr@mrs.org. Symposium organizers are responsible for arranging delivery of the printed literature to the meeting room, and the organizers are also responsible for managing the table throughout the meeting week to ensure only your symposium supporters’ printed materials are on display.

At your discretion, you can also offer your symposium supporters additional exposure by projecting a PowerPoint slide at various times throughout the session. This would require you to create the slide, bring your own laptop, and connect to the switcher to project the slide before the start of the session and at break and lunch times. We encourage you to limit this to 1-2 slides, to use text only—no logos, and not to permit the symposium supporters to submit their own slides.

Please note the acknowledgement deadlines as listed in Section 7G that follows.
Insert date

Dear

The Materials Research Society requests your financial support for Symposium (insert code identifier and topic) to be held at the 2021 MRS Fall Meeting, November 28 – December 3, in Boston, Massachusetts. Your support will help the Symposium Organizers provide a high quality technical program and encourage participation from researchers all over the world.

The MRS Symposium Support Program offers four (4) support levels ranging from $1,000 - $10,000, and includes the following Signature Benefits:

- Recognition in the MRS Meeting & Exhibit Guide
- Recognition in on-site signage positioned outside the symposium room
- Recognition on Symposium Support page on the MRS website & mobile meeting app
- Recognition in the symposium technical program on the MRS website & mobile meeting app
- Recognition in a post-meeting issue of MRS Bulletin

Please see the MRS Symposium Support Program brochure for additional information.

Payment should be identified as support for F21 (insert Symposium code identifier), and checks should be made payable to the Materials Research Society. Wire transfer details will be provided upon request.

For additional information regarding meeting and exhibit activities, please visit https://www.mrs.org/meetings-events.

Thank you for your continued support.

Sincerely,

Mallory Starr

Mallory Starr
Accounting Manager
Tel: 724-779-2713
starr@mrs.org
G. SUMMARY OF IMPORTANT FINANCIAL INFORMATION AND DEADLINES

CONTACT: MALLORY STARR (starr@mrs.org), 724-779-2713, FOR SYMPOSIUM FUNDING ISSUES

- MRS provides the essential services required for a symposium; however, additional support can help provide special features. Discuss possible sources of funding and appropriate expenditures with your co-organizers.
- Each symposium has been allocated $1,500 of funding from MRS. The funding is designed to assist organizers with enhancing the quality of their symposium. **Symposium organizer registration fees cannot be paid from this fund.**
- Prepare proposals for submission by Sandy Forrest to appropriate federal agencies. Allow sufficient time as the evaluation process can take up to six months. Funds from government agencies cannot be used for entertainment expenses. Some government agencies and DOE national laboratories do not allow payments to international attendees.
- Organizers may solicit industry for donations for symposium support. Checks are to be made payable to the Materials Research Society, identified as support for your particular symposium and sent directly to MRS. **All solicited funds must go through the MRS to receive symposium support recognition benefits (in program, onsite signage, etc.)**
- **There are no waived, reduced or one-day registration fees.** All meeting registrations must be paid either by the individual or from symposium funds.
- Do not make firm financial commitments to individuals (either registration or travel) until you know there is money “in the bank.” Until funding is confirmed, offers of support can be communicated as tentative (“if funding becomes available, we will assist you with $500 toward your travel expenses”). MRS is not liable for offers of support that cannot be fulfilled due to insufficient symposium funds.
- **Please note symposium-paid registrations for invited speakers and organizers are not automatic.** You are responsible for selecting invited speakers and organizers whose registration fees will be paid by the symposium. You are also responsible for notifying your invited speakers if your symposium **will not** offer them any financial assistance.
- If you have invited speakers that **will not** receive financial support from your symposium, make sure you inform them they have to register for the meeting. Many invited speakers come to the meeting under the assumption the organizers have paid their registration. Notification before the meeting eliminates confusion and frustration.
- Based on the speaker list you provide, Mallory will verify the membership status of your speakers and organizers and send a draft budget to you for approval. Once approved, the registrations are processed and the speakers will receive confirmation by email. Registration requests received after the preregistration deadline will be charged the higher on-site rates.
- Symposium-paid food and beverage (F&B) events require non-government funds. Symposium F&B events to be held at the meeting venue are to be coordinated with Mallory Starr. Organizers may opt to host an event at a local restaurant. One of the organizers must pay for the event and submit receipts to Mallory for reimbursement.
• Travel support checks may be processed prior to the meeting and ready for distribution onsite. Arrangements will be made with the local Wells Fargo Bank where your participants receiving travel support may cash the MRS check for a nominal fee.

DEADLINES
• The deadlines to list symposium support in MRS publications:
  o *Meeting & Exhibit Guide*, and sign placed outside of your symposium room – **October 8, 2021**.
  o Symposium technical program posted on the MRS website – **November 5, 2021**.
• Symposium-paid onsite food and beverage (F&B) requests are due no later than **October 15, 2021**.
• Special AV requests are due no later than **October 15, 2021**.
• Travel support checks may be processed prior to the meeting and ready for distribution in Boston. This list is due to Mallory by **November 5, 2021**.
  o Travel support checks for non-USA participants may also be processed at the meeting. Details on this procedure will be provided to the symposium financial chairs in November 2021.
  o Arrangements will be made with a local bank where your participants receiving travel support may cash the MRS check for a nominal fee before leaving the USA.
• Requests for final disbursement are due to Mallory no later than **April 30, 2022**. Requests received after April 30, 2022 will not be fulfilled.
SECTION 8: MRS Advances PUBLISHING

Publishing with MRS and Springer Nature, MRS’s new publishing alliance in 2021, ensures dissemination and discoverability of your symposium’s content well beyond the meeting. MRS Advances is a digital journal publishing snapshots of work in progress. Article scope offers a focused, in-depth look at key materials topics of current interest, as identified by MRS meeting programming. The journal now includes contributions not presented at the meeting, but solicited from the MRS community for the specific topics of each meeting. This allows you, at your option, to create a focused issue on your symposium topic that incorporates the broadest reach of the society. Details are available at your request. MRS Advances is now indexed in Scopus and the Web of Science, Emerging Sources Citation Index (ESCI), which heightens the profile of the work published in it.

This section focuses on publication of MRS Advances and the editorial responsibilities of symposium organizers in publishing these collections of symposium content. Depending on the stage of research and the scope of their presentations, authors may also submit to the other impactful journals in the MRS portfolio: MRS Bulletin, MRS Communications, Journal of Materials Research, and MRS Energy & Sustainability.

A. GENERAL INFORMATION ABOUT PUBLISHING MRS Advances

MRS Advances is a digital journal that publishes snapshots of work in progress, with a focus on MRS Meetings programming topics.

The MRS Advances editorial board shares leadership with symposium organizers to ensure high quality content, rapid peer review and publication. Access to MRS Advances is free to over 14,000 MRS members and by subscription to institutional libraries around the world.

MRS Advances will be available on a print-on-demand basis on the Springer Nature platform, and the clusters that organize each meeting’s symposia will be published as print issues, available by pre-publication order at the time of meeting registration.

1. Principal Editors for each Symposium will be confirmed according to the Responsibility Chart by June 15, 2021.
2. Instructions and license to publish information will be supplied to your authors by MRS Headquarters and Springer Nature.
3. MRS Advances print issues may be ordered prior to the Meeting at special discounted attendee rates. Symposium Organizers may elect to use symposium support funds to purchase quantities of the issues or individual print-on-demand symposia collections for invited speakers, etc.
B. PUBLICATION POLICIES FOR MRS Advances

The term “content” or “paper” in this policy statement refers to any form of manuscript or electronic file that is derived from the presentation made in connection with an MRS Meeting Symposium.

1. MRS reserves the right of first refusal for publication of collections of MRS Symposium content. Symposium Organizers (editors) may not publish collections of papers from their Symposium in non-MRS venues without MRS’s written permission.

2. Only those Symposium Organizers directly involved in the editorial handling of Symposium papers are included in the list of MRS Advances Principal Editors.

3. MRS assumes all financial risk in publishing MRS Advances. The responsibilities of Principal Editors are limited to basic editorial activities under their control.

4. In order to maximize the value of the MRS Advances, all attempts will be made to publish individual papers electronically as soon as the editors approve them and in complete issues within 3 months of the end of the Meeting. This requires a high level of cooperation between the authors, Principal Editors, MRS headquarters, and Springer Nature. The Meeting Chairs, the MRS Advances Editorial Board, the Publications Committee, and officers of the Society will take whatever steps are necessary to protect the Society’s financial and scientific interests.
C. PUBLISHING SCHEDULE

2021 MRS Fall Meeting

2021

June 15  Deadline for Principal Editor confirmations, per the Responsibility Charts*

August 9  *MRS Advances* prepublication prices established
          Print issues can be pre-ordered with meeting registration

August 16  Call for Paper Submissions beyond meeting presentations issued, 2021

Mid-August  Information for electronic manuscript submission emailed to contact authors

August 30  2021 Fall MRS submission site open for all

December 15  Electronic paper submission deadline

2022

February 7  Editorial work on *MRS Advances* symposium papers completed*

February 14  *MRS Advances* Fall 2021 bound issues begin to go to the printer

*Requires symposium organizer action.
D.  **MRS Advances EDITOR – ON-SITE MEETING INFORMATION**

**Editor Training**

Training on the use of the Editorial Manager submission site for peer review is available from Springer Nature, but registration must be made in advance. Training sessions are offered monthly. MRS staff can provide further information and assistance with registration.

E.  **SYMPOSIUM ORGANIZER/PRINCIPAL EDITOR RESPONSIBILITIES**

1. Throughout the symposium, remind authors to submit their papers promptly via the Editorial Manager website if they have not already done so. Remind referees to review manuscripts as soon as they are available.
2. Monitor the progress of your Symposium’s manuscript submissions. MRS will also be closely monitoring the progress and can help with problems.
3. If a review has been completed, check the referee comments and make a final determination on the paper’s acceptability.

Authors and referees will be instructed to follow the standard *MRS Advances* procedures unless you inform them otherwise. Please keep the journals publication staff informed of any modifications or changes in procedures for your Symposium’s manuscript submissions.

F.  **PRINCIPAL EDITOR CHECKLIST**

- Provide to MRS a list of all PRINCIPAL EDITORS from your symposium and their affiliations and full contact information. Submit the Editor name information exactly as you want it to appear on the MRS Advances editorial masthead. Only those organizers directly involved in the editorial handling of symposium papers will be recognized as Principal Editors.
- Provide to MRS the ORDER OF YOUR PAPERS (if different from the Program order), along with section/chapter headings as soon as the editing/acceptance of all papers from your symposium is completed. The default order of publication will be the order in which the papers were accepted for publication.

Send to mrsadvances@mrs.org
SECTION 9: SYMPOSIUM CO-SPONSORSHIP GUIDELINES

The MRS is frequently asked, in one manner or another, to allow co-sponsoring of its symposia. The objectives of the Society are to serve professionals working in the field of materials science and engineering by fostering interaction, sponsoring interdisciplinary meetings, and disseminating information. We believe that co-sponsorship of MRS symposia should arise from a desire to fulfill one or more of these objectives. To this end, the MRS welcomes co-sponsorship of its symposia by other societies or groups provided that:

A. The co-sponsor provides substantive support, such as:

- Funding (e.g., for invited speakers)
- Publicity
- Individual and corporate mailing lists
- Assistance in organizing and conducting the symposia

B. The MRS retains full technical and financial control of all symposia held as part of the general meeting of the MRS.
SECTION 10: SYMPOSIUM TUTORIALS

A. GENERAL TUTORIAL INFORMATION

Tutorials are designed to bring people quickly up-to-speed on the symposium’s topic often on the first half day of a symposium. Tutorials typically are scheduled on Sunday before the symposium as an integral part of the program. They may or may not be held in the same meeting room as the symposium, depending on attendance expectations and other considerations. Tutorials are available at no additional charge; a nominal fee is charged for optional colored tutorial notes, which are generally bound copies of the instructors’ presentation visuals.

PLANNING A SYMPOSIUM TUTORIAL

It is the decision of the symposium organizers as to whether or not their symposium should feature a tutorial. Some of the criteria for deciding whether a tutorial would be beneficial include:

- to provide an introduction to a new or rapidly evolving field
- to highlight new developments in an older field
- to educate attendees on a new technique
- to serve as a plenary overview or introduction from a “senior researcher”
- to introduce a “broader impact” topic within or outside of a symposium

The intent to offer a tutorial and the potential topic of the tutorial should be included in the Call for Papers.

SCHEDULING THE TUTORIAL

Please use the proposal form to submit your tutorial proposal. The MRS Tutorial Review Group, a subset of the Program Development Subcommittee (PDSC), will approve or reject the tutorial based upon its role in enhancing meeting and symposium quality. Timely submission of the proposal will also be considered. MRS, Erin Moore, will notify the symposium organizer of the MRS Tutorial Review Group’s decision early enough to incorporate the tutorial into their program.

PROGRAM TIMES

- **Tutorials:** Sunday, November 28, 2021 can be scheduled as half-day (morning or afternoon) or full day and must include appropriate breaks:
  - 8:30 am – 12:00 pm half day morning
  - 8:30 am – 5:00 pm full day
  - 1:30 pm – 5:00 pm half day afternoon
• **Breaks**
  - Morning Break:
    - Include a 30 minute “Break” in all morning sessions. This break can occur anytime between 9:30 am and 10:30 am. Coffee will NOT be available before 9:30 am or after 10:30 am. To ensure adequate time for meeting attendees to network, meeting chairs recommend serious consideration be given to times other than 10:00 am.
  - Lunch Break:
    - There is a mandatory lunch break scheduled from 12:00 pm – 1:30 pm. Please note that MRS does not provide lunch to meeting participants.
  - Afternoon Break:
    - Include a 30 minute “Break” in all afternoon sessions. This break can occur anytime between 2:30 pm and 3:30 pm. Coffee will NOT be available before 2:30 pm or after 3:30 pm. To ensure adequate time for meeting attendees to network, meeting chairs recommend serious consideration be given to times other than 3:00 pm.

**SELECTING INSTRUCTORS**
Tutorial instructors should be chosen from the membership already involved in the symposium and should be individuals with a high-recognition factor. Some information for potential instructors should include:

- A tutorial is an excellent method of highlighting your field.
- Except for unusual circumstances, tutorial instructors should be limited to one or two per half-day session.
- It is prestigious to be an MRS tutorial instructor, recognizing the instructor’s important position in his/her research field.
- Because of the extra time and effort required to produce an effective tutorial, symposium organizers are discouraged from also being tutorial instructors and can be instructors only with the prior approval of the MRS Tutorial Review Group.

It is your responsibility to confirm that all proposed tutorial instructors are able to attend and present onsite at the Meeting before you submit your tutorial proposal. In the event that a tutorial instructor can no longer participate, please notify Erin Moore (moore@mrs.org) as soon as possible. Any changes to tutorial instructors after October 1, 2021, will not be reflected in any printed materials or on the website.

**TUTORIAL NOTES**
The instructors are required to prepare notes, (i.e., reproducible copies of their visuals), which MRS reproduces in color and distributes to those tutorial attendees who pre-purchased the notes. The nominal charge for these notes enables the Society to conduct the tutorial program on a cost-effective basis. It is important that the symposium organizers make certain that the instructor sends these notes to MRS (Erin Moore, moore@mrs.org) by November 5, 2021 so that both the budget and production schedule for these professionally bound notes can be met. If the tutorial notes are not received by the above date, the tutorial instructor(s) will be responsible for printing, shipping and delivering the notes to the Meeting at their own expense.
Please be sure instructors understand the level of support they can expect from both MRS and the symposium before they agree to conduct the tutorial.

INSTRUCTOR SUPPORT
A total stipend of $500 for one instructor and $800 for two or more instructors will be provided, regardless of the tutorial’s length. This stipend is meant to defray the cost of producing tutorial notes and it is contingent upon the instructor’s submittal of completed notes to MRS by the requested date. A stipend cannot be used toward the instructor’s registration fee. Additional financial support for tutorial instructors—to cover registration or a portion of the instructor’s travel expenses, for example—is the responsibility and prerogative of the symposium organizers. Please be sure instructors understand the level of support they can expect from both MRS and the symposium before they agree to conduct the tutorial.

In addition to the tutorial stipend, and professionally bound colored copies of the tutorial notes, MRS also provides a suitable meeting space, audio-visual package (LCD projector, screen, laser pointer, and wireless lapel microphone), coffee break(s), a complimentary copy of tutorial notes for instructors and pre-meeting publicity.

CONTRACTUAL AGREEMENT
Each instructor must sign and return a copy of an MRS Instructor Agreement to MRS (Erin Moore, moore@mrs.org) by June 30, 2021.

TUTORIAL PROGRAM EVALUATION
At the end of the tutorial, each participant will be asked to complete an evaluation form. The results of the participant evaluations are sent to the instructors by MRS (Erin Moore, moore@mrs.org).
B. TUTORIAL PROPOSAL FORM

TUTORIAL PROPOSAL FORM

2021 MRS Fall Meeting Symposium Code:

2021 MRS Fall Meeting Symposium Title:

2021 MRS Fall Meeting Symposium Organizer Contact:
   Name:
   Email:

2021 MRS Fall Meeting Tutorial Title:

Proposed Tutorial Length (Select One):
Half day  8:30 am – 12:00 pm        1:30 pm – 5:00 pm
Full day   8:30 am – 5:00 pm

Breaks:
Morning Break (Select One):    9:30 – 10:00 am    9:45 – 10:15 am    10:00 – 10:30 am
Mandatory Lunch Break:          12:00 pm – 1:30 pm
Afternoon Break (Select One):   2:30 – 3:00 pm     2:45 – 3:15 pm     3:00 – 3:30 pm

Tutorial Overview: (should include learning objectives)
Tutorial Instructor(s) Affiliation, Contact Information and Biography
Include full name, affiliation, address, email, and a brief biographical summary for all instructors:

Instructor One:
Name:
Gender: Male Female Prefer Not to Answer
Affiliation:
Address:
Email:
Biography:

Instructor Two:
Name:
Gender: Male Female Prefer Not to Answer
Affiliation:
Address:
Email:
Biography:
Instructor Three:
Name:

Gender: Male        Female        Prefer Not to Answer

Affiliation:

Address:

Email:

Biography:

Instructor Four:
Name:

Gender: Male        Female        Prefer Not to Answer

Affiliation:

Address:

Email:

Biography:
C. TUTORIAL SAMPLE
Tutorial Proposal from a previous year

SAMPLE TUTORIAL PROPOSAL FORM

2020 MRS Fall Meeting Symposium Code: NM01
2020 MRS Fall Meeting Symposium Title:
Nanophotonics—Emerging Hybrid Platforms, Materials and Functions
2020 MRS Fall Meeting Symposium Organizer Contact:
   Name: Aftur Davoyan
   Email: davoyan@ucla.edu

2020 MRS Fall Meeting Tutorial Title:
Emergent Nanophotonic Platforms and Functions
Proposed Tutorial Length (Select One):
Half day ☐ 8:30 am – 12:00 pm ☐ 1:30 pm – 5:00 pm
Full day ☐ 8:30 am – 5:00 pm

Breaks:
Morning Break (Select One): ☐ 9:30 – 10:00 am ☐ 9:45 – 10:15 am ☐ 10:00 – 10:30 am
Mandatory Lunch Break: 12:00 pm – 1:30 pm
Afternoon Break (Select One): ☐ 2:30 – 3:00 pm ☐ 2:45 – 3:15 pm ☐ 3:00 – 3:30 pm

Tutorial Overview: (should include learning objectives)
This tutorial session covers emerging topics in nanophotonics. The four select tutorials cover different aspects of the rapidly growing and promising field from symmetry breaking at the subwavelength scale to emergent phenomena in collective systems to novel and enabling applications.

Prof. Andrea Alu will discuss importance of symmetry in nanophotonic systems and the role of symmetry breaking for potential device applications. Continuing the discussion of the roles of symmetry, Prof. Jennifer Dionne will introduce recent development in the context of chiral nano-optics and its applications to biochemistry and biomedicine. Materials with extreme parameters are at the frontier of nanophotonics and offer unique applications in quantum physics and optoelectronics. Prof. Nader Engheta will discuss recent developments in the field of near-zero index photonics revealing some of the fascinating phenomena that emerge in this extreme materials parameter regime. Finally, Prof. Din Ping Tsai will present most recent developments in the field of metasurfaces.
Tutorial Instructor(s) Affiliation, Contact Information and Biography:
Include full name, affiliation, address, email, and a brief biographical summary for all instructors:

Instructor One:
Name: Andrea Alù
Gender: ☑ Male ☐ Female ☐ Prefer Not to Answer
Affiliation: Advanced Science Research Center, City University of New York
Address: 85 St. Nicholas Terrace, New York, NY 10031, USA
Email: aalu@gc.cuny.edu

Biography:
Andrea Alù is the Founding Director and Einstein Professor at the Photonics initiative, CUNY Advanced Science Research Center. He received his Laurea (2001) and PhD (2007) from the University of Roma Tre, Italy, and, after a postdoc at the University of Pennsylvania, he joined the faculty of the University of Texas at Austin in 2009, where he was the Temple Foundation Endowed Professor until Jan. 2018. Dr. Alù is a Fellow of NAI, IEEE, AAAS, OSA, SPIE and APS, and has received several scientific awards, including the IEEE Kyo Tomiyasu Award, the Vannevar Bush Faculty Fellowship from DoD, the ICO Prize in Optics, the NSF Alan T. Waterman award, the OSA Adolph Lomb Medal, and the URSI Isaac Koga Gold Medal.

Instructor Two:
Name: Jennifer A. Dionne
Gender: ☐ Male ☑ Female ☐ Prefer Not to Answer
Affiliation: Stanford University
Address: 496 Lomita Mall 125 Durand Hall Stanford, California 94305
Email: jdionne@stanford.edu

Biography:
Jennifer Dionne is an associate prof of Materials Science and Engrg and of Radiology (by courtesy), Director of the Photonics at Thermodynamic Limits Energy Frontier Research Center, and co-director of the TomKat Center for Sustainable Energy at Stanford. She is also an affiliate faculty of the Wu Tsai Neurosciences Institute, the Institute for Immunity, Transplantation, and Infection, and Bio-X. Jen received her B.S. degrees in Physics and Systems Science and Mathematics from Washington University in St. Louis in 2003 and her Ph. D. in Applied Physics at the California Institute of Technology in 2009, advised by Harry Atwater. Prior to joining Stanford, served as a postdoctoral researcher in Chemistry at Berkeley, advised by Paul Alivisatos.
Instructor Three:
Name: Nader Engheta
Gender: [ ] Male [ ] Female [ ] Prefer Not to Answer
Affiliation: University of Pennsylvania
Address: 200 S. 33rd St., Philadelphia, PA 19104
Email: engheta@seas.upenn.edu
Biography:
Nader Engheta is the H. Nedwill Ramsey Professor at the University of Pennsylvania, with affiliations in the Dept of Electrical and Systems Engrg, Bioengineering, Materials Science and Engrg, and Physics and Astronomy. He received his BSc degree from University of Tehran, and MS and PhD degrees from Caltech. He received several awards for his research including Ellis Island Medal of Honor, Pioneer Award in Nanotechnology, Gold Medal from SPIE, Balthasar van der Pol Gold Medal from International Union of Radio Science (URSI), William Streifer Scientific Achievement Award, induction to the Canadian Academy of Engineering as an International Fellow, Fellow of US National Academy of Inventors (NAI), IEEE Electromagnetics Award, IEEE Antennas and

Instructor Four:
Name: Din Ping Tsai
Gender: [ ] Male [ ] Female [ ] Prefer Not to Answer
Affiliation: The Hong Kong Polytechnic University
Address: Core E, 6/F, Dept. of Elect. & Info Engrg., Hung Hom, Kowloon, Hong Kong
Email: diping.tsai@polyu.edu.hk
Biography:
Din Ping Tsai received Ph.D in Physics from University of Cincinnati, USA in 1990. He worked at Micro Lithography Inc., Ontario Laser and Lightwave Research Center, and National Chung Cheng Univ., Taiwan from 1990 to 1999. He joined National Taiwan Univ. as an Associate Professor in 1999, and became Professor and Distinguished Professor of Department of Physics at NTU in 2001 and 2006. He served as the Director General of the Taiwan Instrument Technology Research Center located in Hsinchu Science Park, Taiwan from 2008 to 2012. He was the Director and Distinguished Research Fellow of Research Center for Applied Sciences, Academia Sinica from 2012 to 2019. He is currently Chair Professor and Head of the Dept of Electronic and Information Engineering, The Hong Kong Polytechnic University. He is author and coauthor of 313 SCI papers (more than 11,798 SCI cited times, SCI H-index 55), 65 book chapters and conference papers, and 38 technical reports and articles. He was granted 67 patents.
Tutorial Outline and Description:

Include a preliminary schedule or timeline with topics; if multiple instructors, please indicate which information each instructor will specifically deliver.

8:30 am Lecture 1: “Exotic Light-Matter Interactions in Metamaterials with Broken Symmetries,” by Andrea Alù

In this tutorial, I will overview emerging sub-fields of electromagnetics and nano-optics showing how suitably tailored meta-atoms and suitable arrangements of them open exciting venues to realize new phenomena and devices for light, radio-waves and sound. In particular, I discuss venues in which broken symmetries play a pivotal role in establishing emerging physical properties in metamaterials, from geometrical asymmetries and generalized forms of chirality, to time-reversal symmetry and parity-time symmetry. The opportunities offered by hybrid metamaterials combining classical photonic material platforms with 2D and quantum materials with exotic lattice symmetries will also be discussed. Our work shows how these concepts can provide interesting tools to largely break Lorentz reciprocity and realize isolation without the need of magnetic bias, based on broken time-reversal symmetry induced by mechanical motion, spatio-temporal modulation and/or nonlinearities. I also discuss how broken symmetries in space and space-time can open the opportunity to induce topological order in metamaterials. In the talk, I will also discuss the impact of these concepts from basic science to practical technology, from classical waves to quantum phenomena.

10:30 am Lecture 2: “Hybrid nanophotonic platforms to control chiral light-matter interactions,” by Jennifer Dionne

Chirality in Nature can be found across all length scales. At the molecular scale, the spatial dissymmetry in the atomic arrangements of pairs of mirror-image molecules, known as enantiomers, gives rise to fascinating and often critical differences in chemical and physical properties. With increasing hierarchical complexity, protein function, cell communication, and organism health rely on enantioselective interactions between molecules with selective handedness. For example, neurodegenerative and neuropsychiatric disorders including Alzheimer’s and Parkinson’s diseases have been linked to distortion of chiral-molecular structure. Moreover, d-amino acids have become increasingly recognized as potential biomarkers, necessitating comprehensive analytical methods for diagnosis that are capable of distinguishing l- from d-forms and quantifying trace concentrations of d-amino acids.

Correspondingly, many pharmaceuticals and agrochemicals consist of chiral molecules that target particular enantioselective pathways. Yet, despite the importance of molecular chirality, it remains challenging to sense and to separate chiral compounds. Chiral-optical spectroscopies are designed to analyze the purity of chiral samples, but they are often insensitive to the trace enantiomeric excess that might be present in a patient sample, such as blood, urine, or sputum, or pharmaceutical product. Similarly, existing separation schemes to enable enantiopure solutions of chiral products are inefficient or costly. Consequently, most pharmaceuticals or agrochemicals are sold as racemic mixtures, with reduced efficacy and

Deadline – Friday, September 11, 2020 (Proposals will not be accepted after this date)
SECTION 11: MEETING INFORMATION

A. 2019 MRS FALL MEETING FLOOR PLANS (SAMPLE)
B. IDENTIFY POTENTIAL EXHIBITORS

Due Date: June 1, 2021

Held in conjunction with the meeting, the 2021 MRS Fall Exhibit will feature international exhibitors from all sectors of the global materials science and engineering communities. As a symposium organizer, your involvement is necessary to assure the growth and success of the exhibit. First, stress the importance of visiting the exhibit and promote the exhibit hall activities. Second, review the following list of previous exhibitors and help us identify new companies that may benefit by exhibiting at an MRS meeting. Submit your list of potential exhibitors to Donna Watterson at watterson@mrs.org by June 1, 2021.

AAAS Science & Technology Policy Fellowships
abcr GmbH
Accurion, Inc.
Across International LLC
ACS Publications
Admiral Instruments
AdValue Technology, LLC
Advanced Polymer Materials Inc.
Advanced Research Systems, Inc.
AIP Publishing
AJA International, Inc.
Alemnis AG
Allevi, Inc.
Allwin21 Corp.
American Physical Society
ANCORP
Andeen-Hagerling, Inc.
Angstrom Engineering Inc.
Angstrom Science, Inc.
Angstrom Sciences, Inc.
Angstrom Scientific Inc.
Anton Paar
Applied Surface Technologies
Arizona State University
Asahi Spectra Co., Ltd.
Asylum Research, an Oxford Instruments Company
attocube systems Inc.
Barnett Technical Services
BASi
Bio-Logic USA, LLC
Blue Wave Semiconductors, Inc.
Bruker
Carl Zeiss Microscopy, LLC
Cell Press
CELLINK
Chemat Scientific
Cobolt by HUBNER Photonics
CRAIC Technologies, Inc.
CrystalMaker Software Ltd.
CVD Equipment Corporation
DataPhysics Instruments USA Corp.
DCA Instruments, Inc.
DE GRUYTER
Delcom Instruments
Delon America Inc.
DENSsolutions
Digital Surf
DIII-D National Fusion Facility
DOE Scientific High Performance Computing & Networking Facilities
Duniway Stockroom Corporation
Ebara Technologies, Inc.
Ebatco
Ecopia Corp.
ECS—The Electrochemical Society
EDAX Inc., AMETEK Materials Analysis Division
Edinburgh Instruments Ltd.
Electron Microscopy Innovative Technologies
Electron Microscopy Sciences
Electron Optics Instruments LLC | EmCrafts
Elsevier
Energetiq Technology, Inc.
Eni Technology Co., Ltd.
Environmental Molecular Sciences Laboratory
EnvisionTEC, Inc.
Ereztech LLC
ETRI (Electronics and Telecommunications Research Institute)
Evactron® by XEI Scientific, Inc.
Extrel CMS, LLC
FemtoTools AG
Fischione Instruments
Formulation Inc.
Frontiers
Furuya Metal Americas, Inc.
Gamry Instruments
Gatan
Geib Refining Corporation
Geowell Vacuum Co., Ltd.
Goodfellow Corporation
Graphene Square Inc.
Hamamatsu Corporation
HeatWave Labs, Inc.
Heidelberg Instruments Inc.
Herzan LLC
High Flux Isotope Reactor/Spallation Neutron Source
Hitachi High Technologies America, Inc.
HORIBA Scientific
Hummingbird Scientific
Huntington Vacuum Products
ibss Group, Inc.
ID Quantique SA
InRedox LLC
Instec, Inc.
Integrated Dynamics Engineering
Integrated Surface Technologies
International Centre for Diffraction Data (ICDD)
International Union of Crystallography
Ionoptika Ltd.
IONTOF
IOP Publishing
ISS U.S. National Laboratory
ISS, Inc.
J.A. Woollam Company, Inc.
Janis Research Company, LLC
Japan Science and Technology Agency
JASCO
JEOL USA, Inc.
JFE Shoji Electronics Corporation
JoVE
KA Imaging
Kaufman & Robinson, Inc.
KEMSTREAM
Keysight Technologies
KLA Corporation
Kleindiek Inc.
KP Technology USA Inc.
Kurt J. Lesker Company
Lake Shore Cryotronics, Inc.
Light Source Facilities
Linkam Scientific Instruments
LTS Research Laboratories, Inc.
Lyncée Tec SA
M. Braun Inc.
Mad City Labs, Inc.
Malvern Panalytical
Materials Analysis Technology Inc. (MA-tek Inc.)
Materials Characterization Facility, University of Notre Dame
Materials Square, Inc.
Matheson Tri-Gas, Inc.
McCrone Group
MDPI
MilliporeSigma
MIT Press
MKS Instruments
Montana Instruments
MSE Supplies LLC
MTI Corporation
Naieel Technology
NanoAndMore USA Corp.
nanoHUB
NanoMagnetics Instruments
Nano-Master, Inc.
Nanoscale Science User Facilities
Nanosur, Inc.
NANOVEA
NASA—Physical Science Informatics
National Academies of Sciences, Engineering, and Medicine
National High Magnetic Field Laboratory
National Nanotechnology Coordinated Infrastructure
National Security Agency (NSA)
National Tsing Hua University
NBM Design, Inc.
neaspec GmbH
Neocera, LLC
NETA
NETZSCH Instruments North America, LLC
Newport Corporation
Nextron Corporation
Nor-Cal Products, Inc.
Novocontrol America, Inc.
NT-MDT America, Inc.
Nuclear Science User Facilities (NSUF)
OptiGrate, An IPG Photonics Company
OriginLab Corporation
Oxford Instruments America, Inc.
Oxford University Press
Your support, in partnership with MRS, will help to make the 2021 MRS Fall Meeting & Exhibit a success!
SECTION 12: GRADUATE STUDENT OPPORTUNITIES

A. GRADUATE STUDENT AWARD EVALUATION INSTRUCTIONS

Symposium Organizers’ Online Evaluations – 2021 Fall Meeting

Reviews Begin: August 3, 2021 (Tentative)
Evaluations Due: August 14, 2021 (Tentative)

The Graduate Student Award (GSA) is an important vehicle for encouraging outstanding graduate students to present their research at MRS meetings, become affiliated with the Society, and continue to do excellent work in the field of materials science. Finalists will present their work orally during the Special Talk Sessions at the MRS Spring Meeting, competing for the Gold and Silver Awards. Each symposium is requested to select one of its organizers to assist in the selection of these finalists by carefully evaluating the merits of some of the applications that have been submitted for this competition. Symposium organizers will be provided with a link for online evaluation (access by logging in with your MRS User ID and Password). The site will prompt you if you need login assistance. If you experience any problems, please send an email to gsa@mrs.org.

Once you access the site, you will see a list of applications assigned for your review. This list will include applications from all students who have submitted their abstracts to your symposium and to other symposia within your topical cluster. Please review ALL the applications that are posted on the screen; then categorize them according to the criteria as outlined in the attachment. Your evaluations are due online by date that is published in the email sent to you with instructions.

It is important that every application receives a full set of evaluations (4 reviews per application), so please complete the reviews assigned to you promptly and by the deadline specified in the email that you receive.

Please note: In performing these evaluations, you are free to share the reviewing duties with your co-organizers as long as they have no conflicts-of-interest with any of the applicants assigned to your symposium; however, only one organizer per symposium may enter the rankings. In fairness to all applicants, if you have submitted a Letter of Evaluation for a student whose application is included in your symposium’s review group, you ARE NOT ELIGIBLE to participate in the ranking of ANY of the applications in the group. If this is the case, or if, for any reason, you must recuse yourself from participating in this evaluation, please make sure that another co-organizer of your symposium does assume the evaluation responsibility.

Guidelines for Evaluation of Applications

Please rank the Graduate Student Award applications that you have reviewed in accordance with the Award Criteria given below and enter the rankings online. All finalists will receive either a Gold or Silver Award that will be presented during the Award Ceremony at the MRS Meeting. The award prizes consist of: $400 and a presentation plaque for the Gold Award; $200 and a certificate for the Silver Award.

Award Criteria
The MRS Graduate Student Awards are intended to honor and encourage graduate students whose academic achievements and current materials research display a high order of excellence and distinction. MRS seeks to recognize students of exceptional ability, who show promise for future substantial achievement in materials research. Emphasis is placed on the quality of the student and his/her research ability. The criteria for selection are:

- Excellence in the conduct of materials research, including:
  1. Thoroughness of the applicant’s research;
  2. Originality and independence of the applicant’s contributions;
  3. Depth of understanding of the research topic, the methodologies used, and the relationship of the results to the specific research area and the broader materials field;
  4. Scholarship and ingenuity shown by the student in attacking the research project
- Promise for future substantial achievement in materials research.

**NOTE:** Please keep these criteria in mind while making your evaluations.

Please indicate online which students are in the “**HC**” (Highly Competitive), “**C**” (Competitive), and “**NC**” (Not Competitive) categories.

For online review/ranking technical assistance, please contact: Lorri Smiley, gsa@mrs.org.

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**Graduate Student Award Calendar (TENTATIVE)**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Student Award Applications Deadline</td>
<td>August 3, 2021</td>
</tr>
<tr>
<td>(including Advisor Letters of Evaluation)</td>
<td></td>
</tr>
<tr>
<td>MRS sends student application review instructions to symposium organizers to begin to evaluate for selection of finalists</td>
<td>August 14, 2021</td>
</tr>
<tr>
<td>Evaluations Due</td>
<td>August 28, 2021</td>
</tr>
</tbody>
</table>

*An organizers who is also an applicant’s advisor may not participate in ranking the applicants but may still coordinate the rankings of the other organizers if he/she is the GSA lead contact person*
B. SYMPOSIUM ASSISTANT OPPORTUNITY

Here’s an opportunity for you to help an especially promising graduate student to attend the MRS Meeting at a significant savings and, at the same time, assure your symposium of a dedicated and dependable Symposium Assistant.

Symposium Assistants provide essential service to Session Chairs by tracking important attendance figures; bringing timers, laser pointers, signs, and last-minute announcements to the room each day; and seeking help from audio-visual and MRS staff when unforeseen problems arise.

Because it’s often not possible for MRS to assign the same assistant for the entire length of a given symposium, we are offering you the opportunity to choose a trusted, deserving graduate student as your program’s Symposium Assistant. Both you and the student would benefit in a number of ways:

**SYMPOSIUM BENEFITS:** Your symposium can count on the reliable services of a known, dedicated and dependable individual throughout the course of the meeting. The graduate student will be someone with whom you’re comfortable and who knows exactly how you want your program to be conducted.

**STUDENT BENEFITS:** A student who assists in a symposium room for at least two days (four half-day sessions) will receive a post-meeting refund of the student registration fee, $40 per half day session assisted to help defray meeting expenses and a one-year complimentary electronic MRS student membership commencing January 1, 2022. The student will also receive $10 for attending the training session to help defray attendance cost. Also, the graduate student gains the opportunity to witness presentations by, and possibly network with, leaders in his/her chosen field of study.

If you would like to recommend a promising graduate student to act as your program’s Symposium Assistant during the Meeting, please follow these two important steps:

1. Reach agreement among your symposium co-organizers as to which student is chosen as your Symposium Assistant.
2. **Important Deadline Date:** Complete and return the attached Symposium Assistant Nomination form providing the student’s contact information and send via e-mail to Amanda Edmiston, edmiston@mrs.org **NO LATER THAN** August 9, 2021. Beginning in September, all remaining open positions will be filled from the general pool of applicants who submit an online Symposium Assistant application and assignments will not be changed.

Ideally, the recommended graduate student will act as Symposium Assistant for the entire length of your symposium. However, symposium organizers for programs lasting four half days or longer can appoint two Symposium Assistants, each of whom must serve at least two days (four half-day sessions) to obtain the full benefits mentioned above. **Please do not choose more than two students.**

In late September, the student will receive an email with further details about the assignment and a confirmation form to secure his/her participation. The appointed student **does not** need to complete the general application form that will be posted online.
C. SYMPOSIUM ASSISTANT NOMINATION FORM

SYMPOSIUM ASSISTANT NOMINATION FORM

2021 MRS FALL MEETING • BOSTON, MA • November 28 – December 3, 2021

(Available to Graduate Students Only)

PLEASE RETURN THIS FORM NO LATER THAN August 9, 2021 to Amanda Edmiston – edmiston@mrs.org

Symposium Organizers whose programs are 4 days (equivalent of 8 half-day sessions) or longer can appoint up to 2 Symposium Assistants. Each assistant must serve at least 2 full days (equivalent of 4 half-day sessions) to obtain the registration refund. Symposium Assistants are not assigned to poster sessions.

Symposium Code: ________________
(Ex. EL01, MD03, SM06, etc.)

SYMPOSIUM ORGANIZER:

FIRST Name: ___________________ LAST (FAMILY) Name: ___________________
E-Mail: ________________________

STUDENT ONE

FIRST Name: ___________________ LAST (FAMILY) Name: ___________________
Email: ________________________ Country: ________________________________
Session Days: Sun _____ Mon _____ Tues _____ Wed _____ Thurs _____ Fri _____

STUDENT TWO (Optional)

FIRST Name: ___________________ LAST (FAMILY) Name: ___________________
Email: ________________________ Country: ________________________________
Session Days: Sun _____ Mon _____ Tues _____ Wed _____ Thurs _____ Fri _____

For more information on the Symposium Assistant Opportunity, please refer to Section 12.B of your Symposium Organizer Handbook.
D. SYMPOSIUM ASSISTANT GUIDELINES

- Students assisting in two days (four or more half-day sessions) receive a reimbursement of the student registration fee and a one-year complimentary electronic MRS student membership commencing on January 1, 2022. Students also receive $40 per each half-day session and $10 for the training session to help defray meeting expenses.

- MRS Registration Desk: Prior to the first session, please go to MRS Registration to pick up your Meeting badge and Meeting and Exhibit Guide. Please wear your Meeting badge at all times during the MRS Meeting.

- Download the MRS Meetings App for your smartphone or tablet, or start building your schedule at www.mrs.org/meeting-app. Log in with your MRS username and password and use the app to check the location and exact start/end times for your assigned sessions. You can also check the MRS website at http://www.mrs.org/.

- Symposium Assistant Substitutes have no pre-assigned session. If you check in as a Symposium Assistant Substitute, you must wait to see if you are needed. If you are not needed to replace someone, you will receive $10. If you are needed to replace someone, you will receive $40.

Before the session:
- Arrive at the Symposium Assistant Desk 30 minutes prior to the start of the session.
- Check-in next to your assigned symposium on the Check In/Out sheet.
- You will receive a session folder and bag containing a laser pointer and timer.
- Report to the session room (you will find the room at the top of the session sheet).
- Insert white session sheet into plastic pocket attached to sign that is outside of room.
- Introduce yourself to the Session Chair and give him/her the yellow copy of the session sheet, a light blue Session Chair ribbon and the Session Chair Guidelines. (NOTE: If you need more ribbons, come back to the Symposium Assistant Desk). Remember you are there to assist the Session Chair; your steady, courteous support will be appreciated.
- Place timer and laser pointer on the table near the LCD projector.
- Use the orange copy of the session sheet to pre-fill the Presenter Sign In/Attendance form with the final id #, start time and presenter name.
- Place the Presenter Sign In/Attendance form on the table and ask presenters to sign it.

During the session:
- Record attendance numbers for each presentation on the Presenter Sign In/Attendance form.
- Make sure each presenter signs the Presenter Sign In/Attendance form.
- Substitute Presenters: If someone other than the presenting author underlined in the session sheet delivers the talk, have the presenter print their name and member id on the Presenter Sign In/Attendance form.
- If the presenter on the session sheet did not give the presentation, did not send a substitute presenter, and had not notified the Symposium Organizer, mark the “Presenter No Show” column on the Presenter Sign In/Attendance form.
If a problem occurs:
  • If there is an audio-visual problem, first check the plug to make sure it has not become unplugged.
  • Report the problem to one of the Audio-Visual Assistant locations:
    o Audio Visual Tables - Located in the hallways.
    o Audio Visual Room:
      ▪ TBD
    o Symposium Assistant Desk
      ▪ TBD
  • For other problems (e.g., room needs more chairs; room too hot/cold; lighting, etc.) report the issue to MRS Staff at the Symposium Assistant Desk.
  • Be sure to include the room number and a short description of the problem.

Following the session:
  • Complete your Attendance Log and have the Session Chair initial it.
  • Collect the session folder, timer and laser pointer from the room.
  • Complete the total attendance, average attendance and peak attendance on the Presenter Check In / Attendance form.
  • Remove the white session sheet from the plastic pocket attached to the sign that is outside of the room.
  • Report back to the Symposium Assistant Desk and turn in the session folder, timer and laser pointer.
  • BE SURE TO RECORD your Check Out.
  • Turn in your Attendance Log at the end of your final work session.

Payment:
  • **U.S. Residents:** (you live/study in U.S. and can receive mail at a U.S. address,) Be sure to submit your Attendance Log at the end of your final assignment. Your check will be mailed to the address provided approximately six weeks after the MRS meeting.
  • **Non-U.S. Residents:** To receive your check onsite, please submit your Attendance Log by Thursday at 5:30 pm. Checks can be picked up until 11:00 am on Friday, December 3 at the Registration Desk (ask for Accounting Manager, Mallory Starr). After 11:00 am on Friday, you will pick up your check at the Symposium Assistant Desk up until 5:30 pm. Attendance Logs submitted after 5:30 pm on Thursday your check will be mailed to the address provided approximately six weeks after the MRS meeting.
  • Also, for your convenience, the check will be issued from the **local bank** account where you may cash it for a nominal fee while you are visiting Boston. If you prefer, you can cash the check at your hometown Bank.
    o **Bank TBD**

Meeting Registration Refund:
  • Registration refunds are given to those Symposium Assistants who work at least two full days (four half-day sessions). Refunds will be completed in approximately 6-8 weeks and will be refunded in the manner in which they were processed. MRS cannot give you the registration refund this week. It must be processed at the MRS headquarters after the meeting.