

Society Agility Council Zoom Meeting
January 3, 2024 (Wednesday) at 3:00pm ET

Participants:

Susan Troler-McKinstry, SAC Chair
 Babu Chalamala, TSS Chair
 Paul Drzaic, IES Chair
 Bryan Huey, Topical Differentiation
 Al Hurd, TCS Chair
 Elizabeth Kocs, FoS Subcommittee Chair
 Linda Schadler, Publications Committee Chair
 Loucas Tsakalacos, MTGC Chair
 Eileen Kiley, MRS Director of Programs
 Gopal Rao, MRS Chief Editor for Technical Content
 Danielle Boston, MRS Member Engagement Manager
 Michele Feder, MRS DEI & Engagement Partner

Unable to Participate:

ACTION ITEMS listed below and highlighted in the minutes	
Name	Action
Bryan Huey	Connect with Beth Stadler on Topical Differentiation
Bryan Huey	Identify 4 members for Topical Differentiation Subcommittee by next SAC meeting
MRS HQ	Investigate adding a designation for Applied vs. Fundamental at the proposal and abstract submission stage
Paul Drzaic/Bryan Huey/ Loucas Tsakalacos (HQ to schedule)	<ul style="list-style-type: none"> • Meet in the next month (Feb 2024) to discuss implementing differentiation in 1-2 areas • Identify Meeting Symposia aligned with those 1-2 areas and work with the Meeting Chairs or Symposium Organizers to execute something concrete in 2024 • Discuss Future Faculty Poster idea
Eileen Kiley/Gopal Rao	Communicate with MRS Vice President about selecting 2026 Meeting Chairs to align with Differentiation goals (Spring vs. Fall)
MRS HQ	Arrange 1:1 meetings for Metals Staging Task Force members with EICs
Matt Copel	Provide names from IBM Semiconductor for Quantum Computing staff for Advanced Semiconductor Packaging Task Force
Babu Chalamala	Solicit names from NIST and CHIMES JUMP center for Advanced Semiconductor Packaging Task Force
Linda Schadler	Provide names from the NEMC hub for the CHIPS Act
Loucas Tsakalacos	Check for experts in packaging at Coherent
Paul Drzaic	Select 1-2 topical areas for Industry Engagement; report at next meeting
MRS HQ	Schedule next meeting (February 2024)

Agenda:

Introduction of Matt Copel
 Update on Differentiation Subcommittee
 Update on Staging for Metals and Advanced Semiconductor Packaging
 Update on Industry Engagement Subcommittee

Minutes:

Society Agility Council Chair Susan Trolier-McKinstry opened the meeting.

Introduction of Matt Copel

Susan had circulated the SAC Charges for 2024 via email and asked if there were any questions; there were none.

First charge is Susan's succession plan and Susan was pleased to introduce Matt Copel (Quantum Computing research at IBM), who has joined SAC and will become its Chair in 2025.

Matt has been involved with MRS since the 90s, including with Pubs and the Board/Presidential Line before taking a break, and is happy to be back serving in this capacity.

Update on Differentiation Subcommittee

Bryan met with MRS staff in Boston and reported on the following outcomes:

1) Suggestions for team members:

Mike Fitzsimmons – has done similar kinds of analysis

Gopal recommended post-docs with relevant expertise

Eric Stach – Bryan talked to him at F23

Beth Stadler – Bryan to connect with her

Bryan to identify a team of four people by the next SAC meeting

2) Missing important information

Still guessing with Symposia titles

Want to know if speakers/attendees/organizers view symposia as Applied or Fundamental

Propose capturing designation of Applied vs. Fundamental at proposal/abstract submission stage

The role of the Topical Differentiation Subcommittee is to implement strategic direction

- we are in a position where this subcommittee need not be completely reactive and should suggest more proactive things to help mold where differentiation occurs
- identify key topics that are missing
- Provide guidance to Meeting Chairs on where topics should appear (Spring vs. Fall)
 - o S25 Symposium proposal submissions deadline was 1/1/24 (76 proposals received), but there is still a window of 1-2 months to make recommendations to the S25 Meeting Chairs
 - o F25 Symposium proposal submissions open in May 2024
 - o look for more Applied content

Bryan/Paul to work together to implement differentiation and increase industry involvement

- need to progress from study mode into action mode
- have enough data to choose a couple areas and determine how to jumpstart participation
- MASC is having discussions to determine what Applied means and how it is perceived, creating an opportunity for Bryan/Paul/Loucas to work together to move forward and proceed well.

Bryan/Paul/Loucas to arrange a discussion in the coming month

Are Meeting Chairs specifically selected to align to Spring (applied) vs. Fall (fundamental)?

- This guidance has been provided to the Vice President for the selection process and has been done to some extent in the past
- opportunity to do this with the 2026 Meeting Chairs
- Eileen to communicate this to incoming Vice President [NOTE: Gopal did have this discussion with 2024 Vice President Eric Stach]

Predictive Analytics from Springer Nature

- no RFP responders could provide predictive analytics
- Springer Nature can provide detailed reporting now and will continue discussions as they develop predictive tools
- request made for the information that would actually be provided which can be useful to the differentiation committee

Update on Topical Staging (Babu)

Metals Task Force

- Members are confirmed
 - o Alison Beese – Chair; upcoming MRS Guest Editor
 - o Isabella Gallino – represent Europe
 - o Suveen Mathaudhu – TMS side; get people back to MRS; current JMR Principal Editor
 - o Ian McCue – upcoming MRS Bulletin Guest Editor
 - o seeking additional members from Industry, Europe, Asia-Pacific
- Kick-off meeting scheduled for January 12
- **Arrange 1:1 meetings with Metals Staging Task Force members and EICs**
- Plan is to begin making suggestions for F25; possibly webinars as well
- Advisory Group for metals may not be needed; will see how they run before deciding
- No representation from a national lab or the theory/computational side
 - o had a few other names but want to see how these members do
 - o give them the freedom to grow and evolve and build a community; need time to gel

Advanced Semiconductor Packaging Task Force

Significant discussions with Intel, Amcor, and ASE

Chair:

- identified one, but their corporation did not support the role
- re-starting the process

Members:

- identified and made contact with a few potential members
- need enthusiastic volunteers
- Packaging effort at IBM is small, but **Matt will attempt to get names of people involved in Semiconductor for Quantum Computing**
- **Babu may receive some names from NIST**
- Reach out to new hubs (i.e., NEMC) for the CHIPS and Science Act; **Linda to provide contacts**
- **Babu looking into CHIMES Jump Center** – focus on early stage, junior faculty engaged with the center
- **Loucas to check at Coherent for experts in Packaging**

May take another month or so to lock in a Chair and members

Apple has a packaging group that's pretty advanced but very inward looking; they likely won't participate in organizing

Suggested Carolyn Duran at Apple, with Babu confirming he has talked to Carolyn

Industry Engagement

Focus is to re-engage large industrial multinational companies

Goals for 2023

- Recruiting, Publications/Training, Programming (identify value, solicit participation)
- Focus on technology segments – sustainability; DuPont (build on their participation)
- iMatSci is on hold

Goals for 2024

- Identify areas/opportunities for large company engagement
 - o encourage MRS content organizers to appeal to industry
 - o engage other MRS committees regarding opportunities
- leverage and actively solicit
- recruit volunteers with ties to segment
- re-evaluate and reset iMatSci as an area for small industrial participation

Why focus on multinational technology and industrial companies?

- Pool of opportunity from these companies
- Determine how to draw them in and make it interesting for them

Industrial membership data

- USA dominates; reasonable presence from Germany/Japan/Korea; very little presence from China
- Material Technology (3M, Dow, DuPont, and BASF) – why are they not engaged?
- IBM has a major presence; determine the basis for the connection
- Aerospace and Automotive – moderate presence; areas to increase
- Panasonic, Aramco – clarify the connection; what value did these members see in MRS?
- DuPont – Sustainability

Recruiting

- large and small companies
- open-ended
- everyone mentioned; is a problem shared by the U.S. National Labs
- MRS is not a part of their recruiting portfolio
- need to be filled

How to structure to gain momentum

- Grow the committee (currently a committee of one)
- Identify a few topical areas where we specifically want industry participation and work to drive momentum; build a couple of success scenarios
 - o Suggestions: Power Electronics, Packaging of Materials, Batteries, Materials for 5G/6G Communications
 - o **Select 1 or 2 areas and report at next meeting**
- Identify Symposia aligned with the selected topical areas and work with the Meeting Chairs/Symposium Organizers as a method to recruit and a way to execute something concrete in 2024; **Paul/Loucas/Bryan to discuss**
- Suggestion: Future Faculty Poster with employers/employees; choose one topic to prop up for each meeting; **Paul/Bryan/Loucas to discuss topic**
- Korea – high focus on technology (Samsung); identify persons with strong Korean connections

Next Meeting:

February 2024 (date TBD)

Topics: Meetings, Pubs, Sustainability

Susan adjourned the meeting.