



November 13-14, 2023 (1.5 days)

University of California, San Diego (La Jolla, CA) – co-hosted with University of Chicago

1. Building professional connections, sharing efforts to advance STEM education & workforce development.

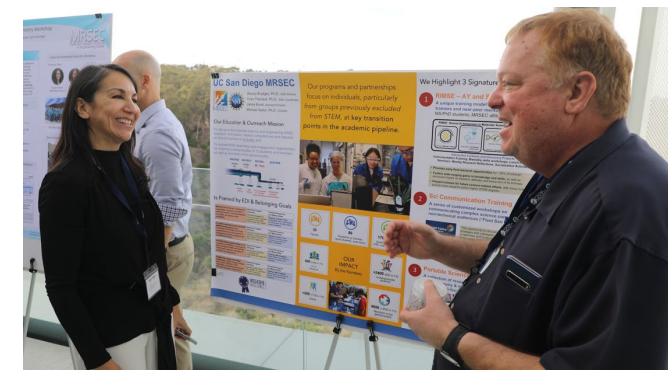
Reception at the Fleet Science Center



Meeting with CEO & VP Steven Snyder and VP of Community Service & Engagement Mwenda Kudumbiggs



Poster Presentations on E&O Efforts of Centers



2. Gaining exposure to new ideas and perspectives in support of MSE education and outreach.

Invited Speakers

1. Recruitment



Olivia Graeve, Ph.D.

Professor, Materials Science and Engineering, UC San Diego

ENLACE Summer Research Program

2. Evaluation



Karen L. Franck, Ph.D.

Extension Associate Professor, Family and Consumer Sciences, University of Tennessee, Knoxville

Using the Lens of Developmental Evaluation to Examine 4-H STEM Career Pathway Initiatives

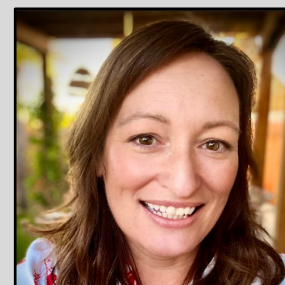
3. Retention



Steve Desir, Ed.D.

Assistant Professor of Research, Pullias Center for Higher Education, University of Southern California
Improving Educational and Mentor Experiences for Minoritized Groups-Inclusive Graduate Education

Industry Panel – Workforce Development



Emily Anglin

Sr. Scientist and Manager
[Spinnaker Biosciences, Inc.](#)



James Ha

Principal Scientist
[Battelle Memorial Institute](#)



John Newsam

CEO
[Tioga Research](#)



Saziid Hussain

CSO & Cofounder
[Aivo Code, Inc.](#)

3. Takeaways: Reinforcing goals and exploring cross-network collaborations

- **From participant post-meeting survey:**

“The speakers gave me lots of food for thought. It would have been nice to have some discussion time with other education directors after each speaker to digest each session more deeply.”

“The discussion with the industry panel highlighted several skills that I believe our MRSEC can do a better job in working to foster among our students. I walked away from the panel with some new goals and ideas in mind for our workforce development efforts at our MRSEC.”

- **From Discussions on Shared Interests/Opportunities for Network:**

- Need for Mentor training (inspired by Steve Desir’s talk)
- How can MRSEC E&O Directors better integrate their efforts with the MRSEC Directors E&O working group?
- What practices or programs would be more impactful if shared across the MRSEC network?
- Is there a way to combine recruitment of MRSEC REU trainees across the MRSEC network?
- **Additional focused/structured working time with colleagues on particular topics / projects is needed**

Conference Across



National Science Foundation



MATERIALS RESEARCH SCIENCE AND
ENGINEERING CENTERS



- PREM

PARTNERSHIPS FOR RESEARCH
AND EDUCATION IN MATERIALS

Schools

2024 PREM PI meeting

Stuart J Rowan: UChicago MRSEC Director

The First CAMPS Meeting - OSU / UCSB, Oct 2022

CAMPS (Conference across MRSEC and PREM-Schools)
student-led workshop on networking in academia and industry.



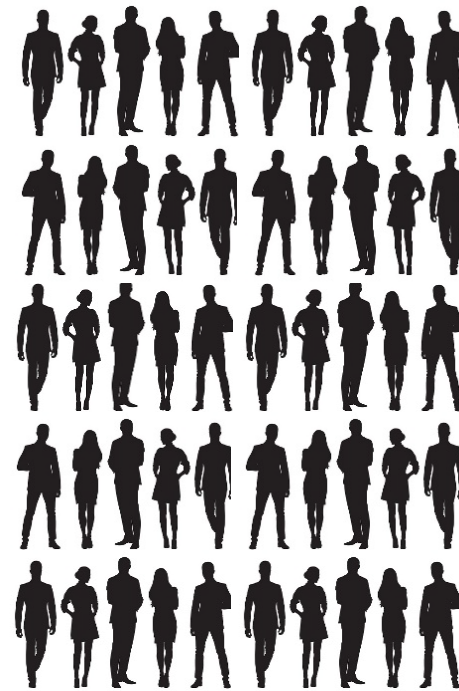
Student planning committee
Mohamed Nawwar (OSU)
Tanay Tak (UCSB)
Mel Endsley (UCSB)



Conference Across MRSEC and PREM Schools

- Jointly hosted by OSU and UC Santa Barbara MRSECs, October '22 to:
 - Build professional networks across academia and industry
 - Deepen collaboration skills

- 50 participants



50

Participants



Conference Across MRSEC and PREM Schools

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- 50 participants
- From 27 different universities



27

Institutions



Conference Across MRSEC and PREM Schools

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- 50 participants
- From 27 different universities
- 10 MRSECs and 9 PREMs represented



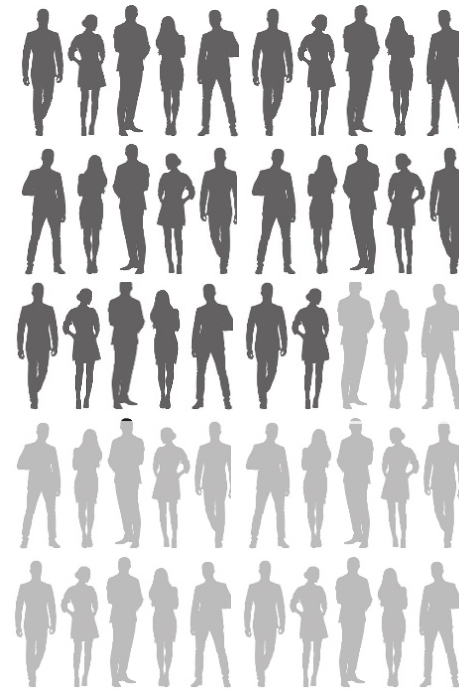
10 MRSECs
9 PREMs



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- 46% undergraduates
54% graduate students



54% Graduates
46%
Undergraduates



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54% graduate students
- 54% female



54% Female



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Faculty Research Presentations – UChicago, OSU, UCSB

Industry Presentations – 3M, EAG Laboratories, GE Aviation, Raytheon

Career panel showing different tracks available for PhD students

One-on-one chat with industry representatives/ social hour

Scientific Soft Skills Presentation

Professional development workshop

Lab Tours

Poster Sessions

*I enjoyed having more **networking time with the industry professionals, university faculty, and other participants.** Being an undergraduate it was an **amazing opportunity to speak with Master and PhD students from other universities** which I do not get to do often, if at all. -Student Participant*

*I am happy that **participants of this conference [are] a very diverse group.** The group of participants is diverse and inclusive in terms of degree (Ph.D.'s, graduate students, and undergraduate students), ethnicity, and gender. It is impressive (and not easy) for an event to be organized to such diversity and inclusiveness. -Student Participant*





Conference across MRSEC and PREM Schools (CAMPS 2024-2026

- NSF requested a supplementary proposal in Fall 2023
(\$400-450K for three CAMPS meetings)
- Faculty PIs - Stuart Rowan, University of Chicago
Tania Betancourt, Texas State University
- Cosubmitted from MRSEC (UChicago) and PREM (Texas State) schools
- Submitted October 2023; Funded Dec 2023

CAMPS 2024

WHO

Undergraduate and Graduate students affiliated with MRSEC and PREM

WHAT

Two-day workshop for students to build research and professional skills

WHEN

August 2-3, 2024

WHERE

The University of Chicago, Chicago, IL



Faculty presentations

- Research talks from 3 faculty representatives
- Exposure to research at different MRSEC and PREM institutions
- Opportunities for potential collaboration



Industry presentations

- Presentations from 4 industry /national lab representatives
- Learn about different career options at industry and national lab
- Get to know the work life of an industry/national lab employee



Student presentations

- ~ 80 students representing different MRSEC and PREM institutions from across the country
- Opportunity to share your research through oral or poster presentations
- Opportunity to collaborate with the other students





CAMPS 2024-2026

Student CAMPS Leaders

Elina Ghimire, University of Chicago (Graduate student) (**Chair**)
Jessica Peterson, Texas State University (Undergraduate student) (**Vice-chair**)
Camaryn Bennett, University of Chicago (Graduate student)
Kushal Thapa, Texas State University (Graduate student)
Luis Alfredo Albiter, Texas State University (Graduate student)
Anthony Martinez, The University of Texas at Arlington (Graduate student)

Student Advisory Board (CAMPS 2022 Organizers)

Mohamed Nawwar, The Ohio State University (Graduate student)
Tanay Tak, University of California, Santa Barbara (Graduate student)
Melina Endsley, University of California, Santa Barbara (Graduate student)

Proposal P.I.'s and Faculty Advisors to CAMPS

Prof. Stuart Rowan, University of Chicago
Prof. Tania Betancourt, Texas State University

Networking Opportunities

- CAMPS is relatively a small-scale conference (~100 attendees), therefore ample opportunities to build personal connections
- Coffee breaks and informal chat sessions with the industry representatives
- Social hour
- Networking breakfast, lunch, and dinner on both days

...and more

Career Panel- Opportunity to learn about different career options after graduation

Soft Skills / Science Communication Workshop- Learn how to present your research effectively to your family, relatives, and the broader audience

Professional Development Workshop- Learn various skills to navigate your professional life

Lab Tour of the MRSEC lab space at UChicago



Conference Across MRSEC-PREM Schools

Call for Applications

WHO Undergraduate & Graduate Students affiliated with MRSEC or PREM institutes

WHAT Two-day workshop for students to build research and professional skills

 Chicago, IL
The University of Chicago

 August 2-3, 2024



CAMPS
2024
Apply Now!

For more information, check out the conference webpage:

<https://mrsec.uchicago.edu/mrsec-prem-conference/>



THE UNIVERSITY OF CHICAGO Chicago Materials Research Center

ABOUT US PEOPLE RESEARCH FACILITIES EDUCATION INDUSTRY CAMPS 2024

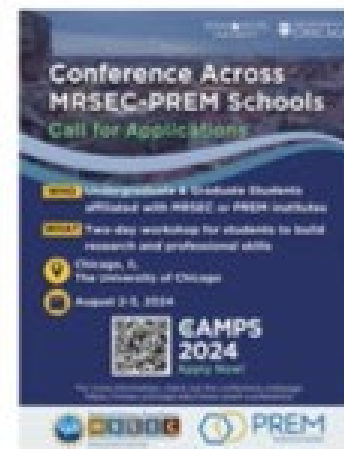
CAMPS 2024

CONFERENCE ACROSS MRSEC-PREM SCHOOLS

August 2-3, 2024

Home / CAMPS 2024

CAMPS 2024



The Conference Across MRSEC-PREM Schools is a student-led initiative to bring MRSEC-PREM students, faculty, and industry together to help improve students' research, academic, and professional skills. The conference was founded as a result of a growing need to network with students from other institutions and learn about their work. Given the collaborative spirit that MRSEC instills in us, we find it imperative to expand upon this spirit to encourage cross-institutional discussions and benefit from each other's knowledge, network, and industry connections.

Where and when?

This year's conference will be held in Chicago, IL, at the University of Chicago on August 2nd-3rd, 2024.

Why attend?

Participating students will benefit from attending the conference through:

- Encouraging and fostering student networking amongst themselves and industry visitors
- Introducing different career paths through a panel encompassing people from industry, academia, and national labs
- Presenting senior students with job opportunities and postdoc positions (this conference will be a chance for career advertising either from industry or from interested research groups)
- Expanding students' knowledge through a set of academic talks by respected faculty in the field