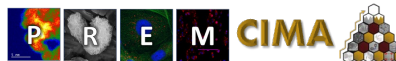




2024 PREM PI Meeting

Hosted by Texas State University



Program Agenda

All events will be taking place at the [LBJ Student Center](#) Grand Ballroom
(3rd floor of [LBJ Student Center](#))

Day 1 – Friday, January 26, 2024

- 8:30 am – 9:00 am **Coffee/Morning Snacks (provided) and Registration**
- 9:00 am – 9:30 am **Welcome Remarks**
- 9:00 am – **Dr. Tania Betancourt**, Professor of Chemistry and Biochemistry, NSF PREM CIMA, Texas State University
 - 9:05 am – **Dr. Shreek Mandayam**, Vice President for Research, Texas State University
 - 9:15 am – **Dr. Germano Iannacchione**, Division Director, NSF Division for Materials Research
 - 9:25 am – **Dr. Shadi Mamaghani**, Program Director, NSF PREM
- 9:30 am – 9:50 am **Q&A on Current PREM Solicitation (due Feb 2024)**
Solicitation came out 12/14/2023 and proposals are due March 12, 2024
10-min introduction + 10-min Q&A
Presentation by **Dr. Shadi Mamaghani**, Program Director, NSF PREM
Q&A moderated by *Dr. William Brittain*
- 9:50 am – 10:20 am **Occupational artifacts that undermine STEM workforce diversity and what MSI research-active institutions (and therefore PREMs) can do to overcome these artifacts to increase STEM workforce diversity**
Dr. Omar Lopez, Professor of Organization, Workforce and Leadership Studies, Texas State University
20-min talk, 10-min Q&A
Introduced by Dr. Tania Betancourt
- 10:20 am – 10:55 am **NSF Opportunities for PREMs**
Panelists introduced by Dr. Ben Martin
- **Dr. John Schlueter**, Program Director, DMR DMREF - Designing Materials to Revolutionize and Engineer our Future
 - NSF 23-530,
<https://www.nsf.gov/pubs/2023/nsf23530/nsf23530.htm>
 - Supplements for PREM PIs, seed funds
 - 15-min presentation + 5 min Q&A



- **Dr. Souleymane Omar Diallo**, Program Director, NSF MRI – Major Research Instrumentation Program (zoom)
 - NSF 23-519,
<https://www.nsf.gov/pubs/2023/nsf23519/nsf23519.htm>
 - 10 min presentation + 5 min Q&A

10:55 am – 11:10 am

Networking Break (15 min)

11:10 am – 12:00 pm

Round Table Discussion: How to Make the PREM and Partner Network Work for Your Students and Centers

- *Introduced and moderated by **Dr. Jennifer Irvin***
- *Format: Round table discussions (30 min) followed by reporting to group (20 min). Assign roles within each table: moderator, note taker, reporter.*
- Questions to guide discussion will be posted on the screen and printed
 - What opportunities are there for utilizing the PREM/MRSEC network (i.e. the contacts) to open opportunities for our students in academia, national labs and industry?
 - How can we better use the PREM website <https://prem-dmr.org/>, social media (X, LinkedIn), and other platforms to promote our students and connect them with opportunities?
 - How can we grow the PREM brand and facilitate inter-student networking for research, educational, social, professional purposes at regional and national level within and beyond PREM?
 - How does (or could) your PREM partnership connect students with STEM jobs or other opportunities?

CHANGE TABLES

12:00 pm – 1:00 pm

Lunch (provided) and Networking

1:00 pm – 1:20 pm

Opportunities with EPSCoR Program

Speaker: **Dr. Hongmei Luo**, Program Director, Established Program to Stimulate Competitive Research (EPSCoR), National Science Foundation

- *Introduced by **Dr. Tania Betancourt***
- 10-min talk + 10min Q&A

1:20 pm – 2:10 pm

The Balancing Act: Research Productivity, Partnership, Student Engagement

- *Format: Round table discussions followed by reporting to group*
- *Moderated by **Dr. Demetris Geddis***
- Discussion on how to balance the multi-pronged mission of PREM and its impact on student success and campus infrastructure/productivity

2:10 pm – 2:20 pm

Networking Break



2:20 pm – 3:05 pm

Evolving your PREM

- *Format: Short presentations by long-lived PREMs followed by Q&A panel*
 - Best practices for nurturing the evolution of your PREM with successful re-competition and sustainability in mind. Challenges and best practices for refocusing/reinventing research thrusts, managing personnel changes, improving center administration, invigorating educational activities, and refreshing the PREM/MRSEC partnership
- Two 15-min presentations + 7-8 min Q&A for each
- *Moderated by Dr. Karen Lozano*
- Presenters:
 - **Dr. Karen Lozano**, University of Texas Rio Grande Valley
 - **Dr. Idalia Ramos**, University of Puerto Rico Humacao

3:05 pm – 4:00 pm

How to Nurture, Grow and Evolve the Partnership – the Partner Perspective *NSF participants to excuse themselves from this session.*

- *Format: Short and honest presentations by Partners with accounts of what has and has not worked followed by Q&A panel and discussions. This session will occur in the absence of NSF participants. Recommendations will be collected and provided to the NSF.*
- Best practices and challenges for growing and nurturing the partnership
- *Moderated by Dr. Edward Yu*
- *Four 7-min presentations back-to-back, followed by 25-min discussion*
 - **Dr. Edward Yu**, The University of Texas at Austin Center for Dynamics and Control of Materials MRSEC (partner with Texas State University)
 - **Dr. Tim Lodge**, University of Minnesota (partner with UTRGV)
 - **Dr. Eric Stach**, University of Pennsylvania (Partner with UPR Humacao)
 - **Dr. Joan Redwing**, Penn State University (partner with Florida International University)

4:00 pm – 4:10 pm

Networking Break

4:10 pm – 4:20 pm

Reporting back to NSF on discussion highlights of “How to Nurture, Grow and Evolve the Partnership” session

Oral report by Dr. Edward Yu; Written report by Dr. Tania Betancourt

4:20 pm – 5:10 pm

Opportunities for Inter-PREM Networking and Connections

- *Format: Short presentations followed by Q&A panel*
 - Discussion on how to use these partnerships to facilitate student/faculty networking for research, educational, social, professional purposes
- *Moderated by Dr. Tania Betancourt*
- 30-min (total) presentations + 20 min Q&A
 - *15 min: MRS/PREM Research Summit and Joint Puerto Rico Events – Dr. Idalia Ramos*, University of Puerto Rico Humacao



- *8-min: Conference Across MRSEC and PREM Schools (CAMPS) – Dr. Stuart Rowan, University of Chicago*
- *7-min: Texas PREM Conference - Dr. Tania Betancourt, Texas State University*

5:10 pm – 5:15 pm

Day 1 Closing Remarks

Dr. Tania Betancourt

Day 2 – Saturday, January 27, 2024

CHANGE TABLES

8:30 am – 9:00 am

Coffee/Morning Snacks and Networking

9:00 am – 9:50 am

Opportunities at DMR Centers and Facilities

- *Format: Presentations by program representatives focusing on opportunities for PREM to engage and utilize facilities*
- *Four 10-min presentations + 10 min Q&A*
- *Moderated by Dr. Jorge Colón, University of Puerto Rico Río Piedras*
- **Presenters:**
 - Dr. Jorge Colón, University of Puerto Rico-Río Piedras (Introduces CHESS)
 - **Dr. Joel Brock, Cornell High Energy Synchrotron Source (CHESS)**, CHESS resources available and how to connect
 - Dr. Daniela Radu, Florida International University (Introduces 2DCC MIP)
 - **Dr. Joan Redwing, 2D Crystal Consortium MIP**, resources and how to connect
 - Dr. Tatiana Timofeeva, New Mexico Highlands University (Introduces BioPACIFIC)
 - **Dr. Angela Pitenis, BioPACIFIC MIP**, resources available and how to connect
 - Dr. Yiyang Li, Fort Lewis College (Introduces STROBE)
 - **Dr. Sarah Schreiner, STROBE** NSF Science and Technology Center for Real-Time Functional Imaging, University of Colorado, Boulder, resources available and how to connect

9:50 am – 10:30 am

Closing the Gap Through Entrepreneurial Education

- *Format: Short presentations followed by Q&A session*
 - *Two 15-min presentations + 10 min Q&A total*
 - *Moderated by Dr. Sean Kerwin*
- Panel of entrepreneurs, PREMs and MRSECs that have successfully engaged their students in entrepreneurship
 - Panelists:
 - **Dr. Sean Kerwin**, Texas State
 - **Dr. Karen Lozano**, UTRGV



10:30 am – 11:30 am

Leveraging PREM to Support Institutional Infrastructure Building

- Short (~10 min) accounts by PREM PIs that have had success and/or MRSECs that can provide suggestions about how to do it, followed by discussions (20 min)
- Presenters
 - **Dr. Thiagarajan Soundappan**, Navajo Technical University
 - **Dr. Ramana Chintalapalle**, University of Texas El Paso
 - **Dr. Tatiana Timofeeva**, New Mexico Highlands University
 - **Dr. Tania Betancourt**, Texas State University
- *Presenters introduced and Q&A moderated by **Dr. Chris Rhodes***

11:30 am – 11:50 am

Annual Report Guidelines/Reminders

10-min introduction + 10-min Q&A

Presentation by **Dr. Shadi Mamaghani**, Program Director, NSF PREM

11:50 am – 12:50 pm

Lunch (provided) and Networking

12:50 am – 1:00 pm

Closing Remarks

Dr. Tania Betancourt, Texas State University