

FOURTEENTH ANNUAL CHEMICAL ENGINEERING AND MATERIALS SCIENCE RESEARCH FORUM

May 11, 2017, Huntington Club, Spartan Stadium Tower

- 8:30 **Registration and coffee**
- 9:00 **Opening remarks**
Donald Morelli
Interim Chairperson, Professor, Chem. Engineering & Materials Science

Morning Keynote Lectures

- 9:15 **Challenges and innovations facing automotive interior manufacturers**
Rose Ryntz
IAC Vice President Advanced Development & Material Engineering
- 10:00 **Making wind power better – new polymer composites with improved sustainability metric**
John Dorgan
Professor, Chemical Engineering & Materials Science

10:30 **Break**

Student Presentations and Posters

Track 1: Biotechnology and Biomedical Engineering

- 10:45 **Simulation of intermediate channeling in catalytic cascades**
Yuanchao Liu (Advisor: Scott Calabrese Barton)
- 11:05 **Design & engineering of value added products from soybean refinery**
Sayli Bote (Advisor: Ramani Narayan)

Track 2: Energy and Sustainability — Materials

- 10:45 **Anions for near-infrared selective organic salt photovoltaics**
Chris Traverse (Advisor: Richard Lunt)
- 11:05 **Computational studies of charge transfer, oxygen vacancy formation and oxygen vacancy ordering in Lanthanum Strontium Ferrite**
Tridip Das (Advisors: Yue Qi, Jason Nicholas)

11:30 **Poster Session I**

- 12:15 **Lunch**
- 1:15 **Recognition of prizes and awards**
Donald Morelli
Interim Chairperson, Professor, Chem. Engineering & Materials Science

Afternoon Keynote Lectures

- 1:30 **Catalytic selectivity engineering in sustainable production of chemicals, fuels, and energy from biomass and CO₂**
Ganapati Yadav
Vice Chancellor and R.T. Mody Distinguished Professor, Institute of Chemical Technology, Mumbai
- 2:15 **Materials insertion challenges in the automobile industry**
Paul Krajewski
General Motors Global R&D Director Vehicle Systems Research Lab
- 3:00 **Modeling of the thin passivation layer on Aluminum and Lithium metals**
Yue Qi
Associate Professor, Chemical Engineering & Materials Science

Afternoon Posters

- 3:30 **Poster Session II**
- 4:15 **Mixer and light refreshments**
- 5:00 **Meeting adjourned**