

**2022 PHYSICS LEADERS' MEETING AGENDA**  
**October 28-29, 2022**  
**Department of Physics and Astronomy**  
**University of Missouri**

## Friday, October 28

**Morning: Physics Room 236. Zoom link TBD for virtual attendees**

<b>8:00 - 8:30 am</b>	<b>Coffee and Snacks</b>
<b>8:30 - 9:15 am</b>	Paul Miceli: State of the Department
<b>9:15 - 9:30 am</b>	Paul Miceli (for Suchi Guha): Graduate program overview
<b>9:30 - 9:45 am</b>	Silvia Bompadre: Undergraduate program overview
<b>9:45 - 9:55 am</b>	Emma Burton: SPS news
<b>9:55 - 10:05 am</b>	David Beckwitt: PAGSA news
<b>10:05 - 10:20 am</b>	<b>Break</b>
<b>10:20 - 10:35 am</b>	Deepak Singh: MRSEC and collaborative projects
<b>10:35 - 10:50 am</b>	Gavin King: Ice lithography
<b>10:50 - 11:15 am</b>	Andrew Meng: "Switching Behavior of Epitaxial AlN and AlScN Thin Films on Si(111)"
<b>11:15 - 11:45 am</b>	<b>Leaders only discussion prior to afternoon Deans meeting</b>

**Lunch (11:45 – 12:50 pm): Physics Library, Room 223A & 236**

Leaders & alumni, faculty, and students.

During lunch, Room 236: Leaders/Alumni panel with students

**Afternoon: Physics Room 236**

Student Presentations:

1:00 – 1:20 pm	Corey Valleroy (Advisor: Prof. Carlos Wexler)	"Molecular dynamics simulation study of sodium dodecyl sulphate on single walled carbon nanotubes in aqueous solution: surfactant coverage and water penetration"
1:20 – 1:40 pm	Alexander Daykin (Advisor: Prof. Paul Miceli)	"Disorder in Hydrogenated Graphene Revealed by X-ray and Neutron Scattering"
1:40 – 2:00 pm	Break	
2:00 – 2:20 pm	Dillon Balthrop (Advisor: Prof. Maria Mills)	"Measuring the effects of C-terminal deletion in mycobacterial type IA topoisomerases using magnetic tweezers"
2:20 – 2:40 pm	Ehsan Faridi (Advisor: Prof. Giovanni Vignale)	"Atomic-Scale Spin-Wave Polarizer Based on a Sharp Antiferromagnetic Domain Wall"
2:40 - 3:00 pm	Charles Mentzer (Advisor: Prof. Aigen Li)	"Spatially Resolved PAH Emission in the Protoplanetary Disk around HD 97048 and HD 169142"
3:00 – 3:30 pm	Break/Leaders Discussion for presentation awards	
3:30 – 4:30 pm	Dean Cooper Drury	
4:30 pm	Adjourn	

## Friday Evening:

Les Bourgeois Bistro (14020 W Hwy Bb, Rocheport, MO 65279) [Directions Google Map](#)

6:00-9:00 pm: Reception and Banquet

Program:

Paul Miceli and John Shumway:

- Presentation of 2022 Physics Leader's Awards for Outstanding Student Presentations
- Presentation of Faculty Enhancement Awards

Paul Miceli with Ronald Boain and Catherine Rangel-Boain:

- Presentation of Boain Dissertation Award for best doctoral dissertation

Paul Miceli:

- Introduction and presentation of *Physics Distinguished Alumni Award* to **Dr. Robert Guenther**
- Remarks from Dr. Guenther

## Saturday, October 29

### Morning: Physics Room 236

9:00 -9:30 am	Coffee and snacks
9:30 -10:30 am	Leaders and Faculty discussion
10:30-10:45 am	Break
10:45-12:00 pm	Leader's discussion: Letter to the Dean, Other topics, new members
12:00 pm	Adjourn