

Networking dinner: Participant list

Please remember to sign-up for a table corresponding to the selected speaker (labeled by number) for the Networking Dinner during Friday & Saturday activities.

1. Katherine Aidala

Associate Professor, Department of Physics, Mount Holyoke College
See conference booklet for biographical information.

2. John Beacom

Professor, Department of Physics, Director of the Center for Cosmology and Astro-Particle Physics (CCAPP), The Ohio State University
Prof. Beacom works in particle astrophysics. This area of research is founded on the astounding idea that understanding the largest things in the universe – stars, galaxies, and the universe itself – depends on understanding the smallest things in the universe – atoms, nuclei, and elementary particles. Not only is this idea astounding – it is true. His specialty is neutrinos (see <http://theconversation.com/how-neutrinos-which-barely-exist-just-ran-off-with-another-nobel-prize-48726>). He is passionate about communicating science to the the public (see <https://www.youtube.com/watch?v=d6eMdixkoRI>).

2. Lisa Colarosa

Program Coordinator, Center for Cosmology and Astro-Particle Physics
Lisa graduated in 2009 from OSU with a Bachelor's in Engineering Physics, specialization in Aerospace Engineering. And as she decided not to pursue this field further, she began her position as Program Coordinator for the OSU Center for Cosmology and AstroParticle Physics (CCAPP), which is a research team operated jointly between the Departments of Physics and Astronomy.

3. Jessica France

Engineer, J.P. Morgan Chase & Co.
Jessica is an engineer at JP Morgan Chase where she manages a team focused on the resilience of the company's network technology. Jessica graduated from Ohio State with Master's and Bachelor's degrees in Industrial Engineering (2012 and 2011). She participated in research on the resilience of social and technological complex systems while at OSU in the Cognitive Engineering Lab.

4. Renee Michelle Goertzen

Education Programs Manager, the American Physical Society
Renee Michelle Goertzen is the Education Programs Manager at the American Physical Society. As part of the Department of Education and Diversity, she works with the Physics Teacher Education Coalition (PhysTEC), a project to improve the education of

future physics teachers. The PhysTEC project has received over \$13M toward its efforts and has more than doubled the number of physics teachers graduating from supported sites. The project also organizes an annual conference, which is the nation's largest conference on physics teacher preparation. She is also the staff liaison for the APS Topical Group on Physics Education Research and helps organize the APS Conferences for Undergraduate Women in Physics. Goertzen earned a Ph.D. in Physics Education from the University of Maryland, College Park, where she studied teaching assistants and their use of research-based curriculum. She then completed a post-doctoral fellowship at Florida International University. Her research interests are professional development for physics teachers, graduate students, and faculty and developing community among physics learners and instructors, using methodologies such as case studies, video analysis, and interviews.

4. Beatriz Burrola Gabilondo

Lecturer & Center for Emergent Materials Program Assistant, The Ohio State University
See conference booklet for biographical information.

5. Katherine Groot

Engineering Consultant, West Monroe Partners
Katherine Groot, an Ohio State University graduate with an Honors B.S. in Industrial Engineering, is an Industrial Engineering Consultant at West Monroe Partners doing process improvement work in retail and distribution center environments. She is also interested in IE as it applies to government, health care, and making systems socially and environmentally sustainable.

6. Chris Hammel

Professor, Departments of Physics and Electrical & Computer Engineering, Director, Center for Emergent Materials, The Ohio State University
Magnetism is a topic of enduring fundamental scientific interest and has had a number of successful and important applications ranging from magnetic resonance to high density information storage. We seek deeper understanding of the behavior of the electronic spin in materials, the magnetic phenomena that arise from collections of spins, and the novel phenomena that emerge in microscopic magnetic structures and in complex materials in which disparate materials controllably interact. One primary focus of our research involves the generation and use of pure spin currents that flow from either excited ferromagnets into adjacent materials or are gener-

ated by spin-orbit interactions. We are particularly seeking to demonstrate and study these phenomena in nanoscale ferromagnetic modes created by scan-nable micromagnetic tips. We are developing new approaches to these studies including nanoscale imaging tools and novel approaches to understanding dynamic interactions within and between magnetic structures. Among the techniques we employ to study magnetism and electron spin in many different environments are conventional magnetic resonance spectroscopy, scanning probe Magnetic Resonance Force Microscopy (MRFM), optically-detected magnetic resonance, ferromagnetic resonance, and electrical and optical spin injection.

7. Haiying He

Assistant Professor, Department of Physics, Valparaiso University

Dr. Haiying He is a Physics professor at Valparaiso University. She teaches both lower-division and upper-division physics courses. Her research interests are in the area of computational studies of nanoscale materials, surfaces, and interfaces for energy and human health related applications. She has a passion of mentoring undergraduate students in research and integrating research into higher-education.

8. Lenore Horner

Upper school physics and math teacher, The Seven Hills School

Lenore Horner is a member of the American Association of Physics Teachers.

9. Kate Kirby

Chief Executive Officer, the American Physical Society

See conference booklet for biographical information.

10. Elaine Lalanne

Physicist, United States Navy

See conference booklet for biographical information.

11. Laura Lopez

Assistant Professor, Department of Astronomy, The Ohio State University

See conference booklet for biographical information.

12. Elizabeth Mann

Professor, Department of Physics, Kent State University

The Mann soft-matter experimental group plays with molecularly thin layers at fluid interfaces. Important applications include understanding cell membranes and the design of simple sensors using liquid crystal surfaces. They work not only at the interface between different fluids, but also between disciplines: They collaborate with biologists, chemists, mathematicians and engineers, which is both fun and crucial for their work

13. Sierra O'Bryan

Application developer, J.P. Morgan Chase & Co.

See conference booklet for biographical information.

14. Ruth Pachter

Senior scientist, Air Force Research Laboratory,
Wright-Patterson Air Force Base

See conference booklet for biographical information.

15. Jon Pelz

Professor & Vice Chair of Graduate Studies, Department of Physics,
The Ohio State University

Prof. Pelz serves as Vice Chair of Graduate Studies and is also the faculty contact of the APS Bridge Program at OSU, an MS to PhD program that strives to enhance the diversity of qualified applicants to physics PhD programs. Prof. Pelz's research group investigates surface and interface science using many of the essential tools of condensed matter physics (including scanning tunneling microscopy, atomic force microscopy, and ultra-high vacuum), specifically looking into electronic transport phenomena at the nanometer scale.

16. Michelle Pruitt

Calibration Technician, Lake Shore Cryogenics

Michelle Pruitt works at Lake Shore Cryogenics. Leading researchers around the world trust Lake Shore for measurement and control solutions that drive the discovery and development of new materials for tomorrow's technologies. In electronics, clean energy, nanotechnology, and many other applications, Lake Shore provides the products and systems needed for precise measurements over a broad range of temperature and magnetic field conditions.

17. Gillian Ryan

Assistant Professor, Department of Physics, Kettering University

Prof. Ryan is originally from NS Canada, where she received both her graduate and undergraduate training (PhD Dalhousie University 2010, MSc Dalhousie University 2006, BSc St. Francis Xavier University 2004). She is currently an assistant professor of physics at Kettering University, and has worked here since Fall 2013. Before this she was a postdoc in the physics dept. at Lehigh University from 2010-2013. Her primary area of research is computational biophysics, studying symmetry-breaking and pattern-formation events in eukaryotic cells. She's also interested in nucleation and phase transition events, and collaborate on some research with colleagues on these topics within materials sciences.

18. Nayana Shah

Assistant Professor, Department of Physics, University of Cincinnati

Prof. Nayana Shah is a theoretical physicist and her field of research is Condensed Matter Physics. Using the fundamental laws of physics, her research seeks to understand how different phases and properties of matter emerge in a collection of many particles interacting with each other under different conditions. The quest is also to identify the universalities with-

in the diversity. The main focus of her research is quantum matter and devices and she uses a variety of theoretical approaches depending on the problem at hand, with an emphasis on studying non-equilibrium dynamics and transport.

19. Carol Thompson

Professor, Department of Physics, Northern Illinois University

Thompson is an experimental materials physicist, studying how surfaces form and evolve during their growth and subsequent processing. She uses these results to further our understanding of the interplay of the microscopic mechanisms involved can be controlled to form desired properties in the complex materials structures. She uses x-ray scattering as a probe to watch how atoms and molecules attach and rearrange themselves onto the surface under the environments used in various vapor phase epitaxy film growth environments. She performs her x-ray experiments using the bright x-ray source of the Advanced Photon Source at Argonne National Laboratory.

20. Dayna Thompson

Assistant Planetarium Director, Ball State University

Dayna Thompson has been the Assistant Planetarium Director at Ball State University since 2012. She obtained her Master of Science degree in Physics in 2012. For her thesis, she researched photometric parallaxes for red dwarf (m-type) stars. She continues to work with a team on this research.

21. Rolando Valdés Aguilar

Assistant Professor, Department of Physics, The Ohio State University

Prof. Valdés Aguilar's research interests are the exploration and understanding of novel phases of matter, such as topological states, by using a suite of optical spectroscopies. He is particularly focused in using terahertz radiation to probe materials at their fundamental frequency and energy scales. The goal of this research program is to develop an understanding of novel quantum effects in materials that can find applications in optical and electronic devices. More information can be found on the web at thz.osu.edu.

22. Jami Valentine

Primary Examiner, United States Patent and Trademark Office

See conference booklet for biographical information.

23. Mary Battershell Whalen

Physics teacher, Olentangy High School & Member of American Association of Physics Teachers

See conference booklet for biographical information.

24. Desiré Whitmore

Science curriculum developer, Learning Design Group

See conference booklet for biographical information.