

Distinguished Speaker Series and Annual Callout

The Nanotechnology Student Advisory Council (NSAC) serves Graduate Students working in Birck Nanotechnology Center. NSAC seeks to enrich the graduate student experience academically, socially, and professionally. NSAC hosts Birck symposiums, academic trips, weekly coffee hours, sports leagues, and workshops among many other things.

**Join us on
September 14th
Friday at 1:00 PM
Birck 1001**

1:00pm-1:15pm

Intro to the NSAC & lunch !!

1:15pm -1:30pm

Meet with **Prof. Ali Shakouri**

1:30pm – 2:30pm

Talk by **Prof. Alexandra Boltasseva**

2:30pm – 3:00pm

Feedback/ Q&A session

Everyone who works in Birck is Invited!

Free Pizza !!!



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CATCHING LIGHT RAYS: MAKING LIGHT WORK AT THE NANOSCALE FOR FASTER COMMUNICATION, DENSER DATA STORAGE, ENERGY AND MEDICAL APPLICATIONS

Alexandra Boltasseva

School of Electrical and Computer Engineering

Birck Nanotechnology Center

Purdue University, West Lafayette, IN 47907



Abstract: Optics has revolutionized how we communicate, harvest energy, do computation and diagnose illness. Novel optical technologies fueled by nanophotonics “squeeze” electromagnetic radiation into tiny areas much smaller than the wavelength of light. Explore “flatland” optics, on-chip nanocircuitry, medical diagnostics, and therapy and green energy with nanophotonics.

Bio: Alexandra Boltasseva is a Professor at the School of Electrical & Computer Engineering and Birck Nanotechnology Center, Purdue University. She received her PhD in electrical engineering at Technical University of Denmark, DTU in 2004. Boltasseva specializes in nanophotonics, nanofabrication, optical materials, plasmonics and metamaterials. She received the 2013 IEEE Photonics Society Young Investigator Award, 2013 Materials Research Society Outstanding Young Investigator Award, the MIT Technology Review Top Young Innovator award, the Purdue College of Engineering Early Career Research Award, the Young Researcher Award in Advanced Optical Technologies from the University of Erlangen-Nuremberg, Germany, and the Young Elite-Researcher Award from the Danish Council for Independent Research. She is a Fellow of the Optical Society of America and SPIE. Dr. Boltasseva has authored more than 130 journal articles and served on MRS Board of Directors and is Editor-in-Chief for OSA’s Optical Materials Express.