12th Annual Chautauqua on Nonlinear Optics

Location: 4102 Brown Bldg.
Purdue University
560 Oval Drive
West Lafayette, IN, 47907

Contact: Garth Simpson
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Program Introduction

This week-long intensive, interactive annual summer short course program on nonlinear optical and multi-photon phenomena is designed to engage participants in nuts-and-bolts discussions on issues related to measurements and analysis. This year's focus subject will target applications of non-linear optics microscopy, surface SHG and SFG. The program is designed to target participants with approximately 1-2 years of hands-on experience in nonlinear optics.

Website: www.chem.purdue.edu/chautauqua

Keynote Speaker

Virginijus Barzda

Professor of Biophysics and Physical Chemistry
University of Toronto, Mississauga

Biography

I was born. Now, I am at the University of Toronto, Mississauga. The interim is an interesting story…

Schedule of Events:

Monday, July 11:

8:30 – Coffee, Bagels, Introductions in Brown 4102. Assign Working Groups
9:00 – Molecular Frame - Garth Simpson
10:00 – Problem Set Questions

12:00 – Lunch

2:00 – Participant Presentations
3:00 – Symmetry and Character Tables - Garth Simpson
4:00 – Problem Set Questions

Tuesday, June 12:

8:30 – Review Problem Set Questions
9:00 – Keynote Speaker Lecture – Virginijus Barzda
"Nonlinear Stokes-Mueller Polarimetric Microscopy"
10:00 – Problem Set Questions

12:00 – Lunch

2:00 – Participant Presentations
3:00 – Macromolecular Frame – Garth Simpson
4:00 – Problem Set Questions

Wednesday, June 13:

8:30 – Review Problem Set Questions
9:00 – Local (Cartesian) Frame – Garth Simpson
10:00 – Problem Set Questions

12:00 – Lunch

2:00 – Participant Presentations
3:00 – Laboratory (Jones) Frame – Garth Simpson
4:00 – Problem Set Questions

Thursday, June 14:

8:30 – Review Problem Set Questions.
9:00 – Connecting the Jones and Mueller frames – Garth Simpson
10:00 – Problem Set Questions

12:00 – Lunch

2:00 – Participant Presentations

3:00 – Invited Speaker Lecture – Alexei Lagutchev
"Anatomy of a Microscope"
4:00 – Problem Set Questions

Friday, June 15:

9:00 – Review Problem Set Questions.
9:30 – Chirality and NLO – Garth Simpson
10:30 – Simpson Lab Tour and Demo
12:00 – Pizza, Refreshments, Homebrew, and Reminiscing of Fond Chautauqua Memories (to Be Held at the Simpson Family Residence: 108 Tecumseh Park Place, West Lafayette, 765-497-3370).
3:00 – Program Concludes.

Sponsors:

AlazarTech

ALTOS PHOTONICS

Participants

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