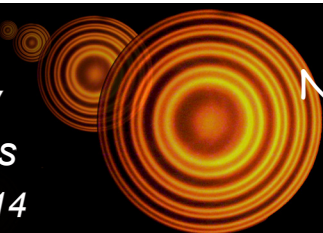


THE ADVANCED LABORATORY PHYSICS ASSOCIATION

PRESENTS

ALPhA's
Laboratory
Immersion
Summer 2014



Learn a
NEW ADVANCED LAB EXPERIMENT
well enough to
TEACH IT WITH CONFIDENCE!

Which Immersion will YOU be attending?

May 28-30 Whitman College (WA)

- *Single Photon Experiments in More Depth*

June 10-12 Harvard University (MA)

- *Slow Light in a Simple Rb Vapor*
- *Optical Spectroscopy in Ruby and H₂ Gas*

June 10-12

Sewanee-Univ. of the South (TN)

- *Compton Scattering and Nuclear Spectroscopy*

June 24-26

Princeton Plasma Physics Lab (NJ)

- *Low Cost Plasma Physics: Paschen Curve*
- *Low Cost Plasma Physics: Spectroscopy*
- *Low Cost Plasma Physics: Electron Temperature*

July 23-25 Bethel University (MN)

- *Shock Waves and Supersonic Flows*
- *Low-Cost Ultrafast Optics with a Fiber Laser*
- *Nano-Plasmonics and Surface-Enhanced Spectroscopy*

July 23-25 Univ. of Minnesota (MN)

- *FPGA Exercises in the Advanced Lab*

August 5-7 Colgate University (NY)

- *Experiments on Photon Quantum Mechanics*

June 16-18 Miami University (OH)

- *Simple Quantized Conductance*
- *Arduinos for the Advanced Lab*

June 23-24 Reed College (OR)

- *LabView Instruction for the Advanced Lab*

June 25-27 Univ. of Florida (FL)

- *Optical Trapping for Biological Physics*
- *Fluorescence Correlation Spectroscopy*

July 7-9 CSU - Chico (CA)

- *Arduinos in the Advanced Lab*

July 16-18 Vanderbilt (TN)

- *Simple Microfluidics for the Advanced Lab*

August 3-6 Buffalo State (NY)

- *One Dimensional Imaging Using Pulsed NMR*
- *Fourier Methods*
- *Noise Fundamentals*
- *Earth's Field NMR*
- *Diode Laser Spectroscopy*
- *Modern Interferometry*

August 6-8 Caltech (CA)

- *Spectroscopy of Hydrogen-Like (Rb) Atoms*
- *Vacuum Techniques / Thin-Film Deposition*
- *Low-Noise Signal Detection With Lock-Ins*

Work closely with an experienced mentor and alongside fellow advanced lab practitioners to gain hands-on experience that benefits you and your students.



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