



**PHYSICS Workshop on  
LASER's for Teachers**  
**June 28-July 1, 2010**



**Laser Faculty at  
IPFW Department of Physics**

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**IPFW Laser Workshop**

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**Teacher Workshops Note:**

The state of Indiana requires teachers to pursue professional development for license renewal. Professional development may be obtained through college credit, contact hours, and Professional Growth Plan Points (PGP). This workshop provides 32 contact hours that teachers may submit to the state of Indiana for 16 CRUs or 32 PGPs.

There is a \$40 fee to process CRU and PGP paperwork.

**WWW.LASERFEST.ORG**

## 2010—50th Anniversary of the LASER

The first LASER was created on May 16, 1960. In celebration of this event LaserFest was created.

As an official LaserFest activity, the IPFW Department of Physics has developed a workshop on Laser Activities. This workshop will provide you with an awesome t-shirt, some cool equipment (lasers, webcam, detector) help you learn activities which you can do with your students that will amaze and engage them, and a free lunch! Better yet, the workshop is provided at no cost to you

### Workshop Activities

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- Light, lasers and waves
- Create a hologram.
- Create simple laser light shows
- Detect and measure light.
- Communicate using light.
- Measure the speed of light
- Measure distance with a laser.
- Measure the size of a cell (or calibrating a ruler).
- Simulate a CD or DVD.
- Build a simple spectrometer.
- Learn interferometry for students.
- Making and using a turbidity meter.

The IPFW Laser Workshop is intended for teachers teaching in the physical sciences. The goal is to provide you with laser based activities you can do with your students.

You will learn about Light and Lasers and apply what you learn in a variety of activities.

The workshop runs June 28-July 1, 9AM-5PM. To register Contact Barbara Biedermann of the IPFW Department of Physics at 260-481-6306

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