



WORKSHOP W16

Laserfest Apparatus and Activities

7/30/11



- <http://faraday.physics.uiowa.edu/hes>

- **Laserfest Grant Proposal**

Our Activities

- While the audience was coming in and going out we had several activities they could enjoy including holograms, spirograph, and atomic fingerprints of gases.
- Give away items were calibrated spectrometers, holographic paper and holographic glasses.

- 1. Laser Light Show** – Fog and different colored lasers, lasers on a staff.
- 2. Laser Fashion Show** – Lasers with tubes, diode lasers, and laser parts – mirrors and 10% out.
- 3. Laser communication and fiber optics**
– LED communicator, Modulated laser, Fiber optics demonstrators, Fiber optic cable, different colored lasers and filters down the fiber optic demonstrator.

- 4. Measuring with a laser** - Bend a wall, Michelson Interferometer, laser distance finder, Lunar retroreflector with corner cubes, LISA (laser interferometer space antenna) and other GPS satellites.
- 5. Music with laser instruments** – Michelson Interferometer and Bend a wall, Laserfest Song.
- 6. Laser and heat** – Thermometer and green laser pointer, blow up balloons, balloon inside a balloon.
- 7. Information storage and security** – Holograms, security tags, holographic gratings, optical storage cube, etc.

- 8. Laser array and grating demo.**
- 9. Rocket engine.**

OFFICIAL WORKSHOP MOTTO

**If we can't fix the problem,
we'll fix the blame!!**