

Hands On Optics

Hands On Optics (HOO) is a collaboration between the National Optical Astronomy Observatory, the Optical Society of America, and the International Society of Optical Engineering.

Hands On Optics consists of a series of six modules that cover different areas of optics. Teachers will receive training in each of the six modules over a two-year period. The teacher will be paired with an Optics Resource Volunteer (ORV). ORVs are optics professionals who work in industry, research, or universities and bring their expertise to the students. Pairing a professional educator with a professional scientist leads to a rich experience for students in the program.

This program is free and open to all Arizona MESA and Tucson area teachers.



More About Hands On Optics

Hands-on Optics is

- A collaboration of SPIE, OSA, NOAO and MESA
- Funded by NSF
- A new model for informal science education

Its goal is to

- Create link between optics professionals and educators
- Engage kids in collaborative learning and problem solving through inquiry-based hands-on optics activities.
- Increase science and technology knowledge and awareness of optics

Its target audience is

- Middle school students who are traditionally underserved in science
- Science center visitors
- Parents, teachers and the community

HOO offers a turn-key program that includes

- Training for teachers, science center staff and optics professionals
- Six complete educational modules
- Connection to local optics industry professionals
- A support network

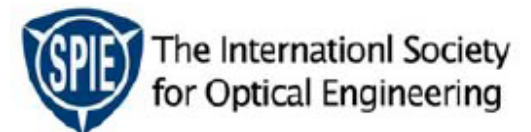
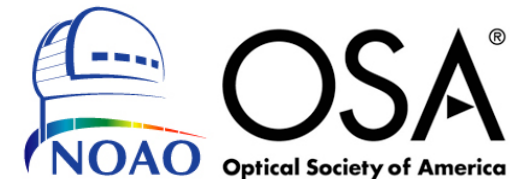
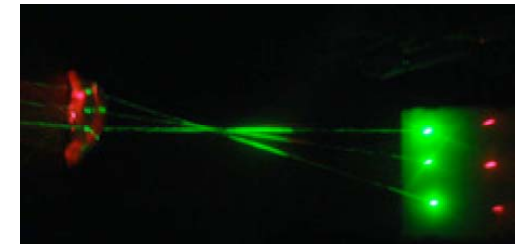
For more information, please contact
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**Optical Society of America
Educator's Day**
Thursday, October 20th
Hilton El Conquistador Golf and Tennis
Resort

**Hands On Optics
Teacher Training**
October 21st – October 22nd
Radisson City Center

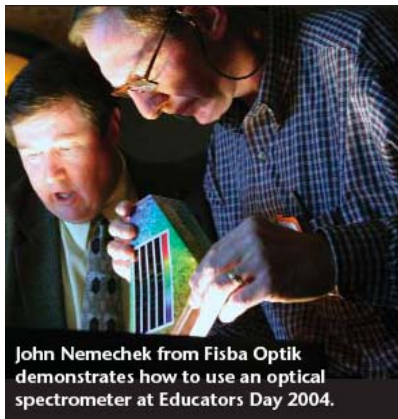


Seeing the World Through the Eyes of Optics

The Optical Society of America is proud to present a special day for educator's in conjunction with their 89th Annual Meeting, "Frontiers in Optics".

Educator's Day will take place on Thursday, October 20th at the Hilton El Conquistador Golf and Tennis Resort. This free event will provide a high quality educational experience for science teachers in the Tucson area.

The afternoon keynote speaker is Dr. Sara Armstrong from the George Lucas Educational Foundation. Dr. Armstrong has been an educator for over thirty years and published on topics including multiple intelligences, educational technology and storytelling.



John Nemecek from Fisba Optik demonstrates how to use an optical spectrometer at Educators Day 2004.

A buffet dinner will be followed by an evening of interactive optics demonstrations. Organized and presented by optics experts, the workshop will feature hands-on activities and demonstrations with a special emphasis on experiments that teachers can replicate in their classrooms.

Event Schedule

Educator's Day

Thursday, October 20th

At the Hilton El Conquistador Golf and Tennis Resort

10000 North Oracle Road

3:30pm - Check in and coffee hour

4:00pm - Keynote Address : Dr. Sara Armstrong

5:00pm – 6:30p - Social hour and buffet dinner

6:30pm – 9:00pm - Optics Demonstrations

Hands On Optics Training

Friday, October 21st

Module 1: Laser Challenges

Radisson City Center

181 W. Broadway Boulevard

4:00-9:00pm - HOO Training (dinner included)

Saturday, October 22nd

Module 2: Kaleidoscope Adventures

Radisson City Center

181 W. Broadway Boulevard

12:00pm - Lunch

1:00-5:00pm - HOO Training

Sign-up Form

Sign up for:

- OSA Educator's Day (October 20th)
- Hands On Optics Training (Attendance on October 21st and 22nd required.)

Name _____

School _____

School Address _____

City _____

State _____ Zip _____

Phone _____

Email address _____

Grades Taught _____

Are you a MESA Teacher? ___ yes ___ no

Please send completed forms
by October 3rd to
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