



INTRODUCE A GIRL TO PHOTONICS: EXPLORING LIGHT TECHNOLOGIES

Duke Open House: A community celebration of the science and power of light in honor of International "Introduce a Girl to Photonics" Week

Sunday, October 9, 2016 • 1-4 p.m.

Fitzpatrick Institute for Photonics
FCIEMAS Atrium, Duke West Campus

Did you know that light-based technologies promote sustainable development and provide solutions to global challenges in energy, education, agriculture and health? Join Duke's Fitzpatrick Institute for Photonics for an Open House celebration held in conjunction with "Introduce a Girl to Photonics" Week, and explore the fun and fascinating science and power of light!

Duke
PRATT SCHOOL of
ENGINEERING

Featuring:

- Hands-on activities and demonstrations of light-based technologies (see list on reverse side)
- Light refreshments
- Giveaways including hologram glasses, LED finger lights, souvenir photos and more! Quantities limited, please register in advance.

Free and open to the public • All ages welcome

Teachers: Come see hands-on demonstrations you can replicate in the classroom!

Learn more & register: fitzpatrick.duke.edu/october9

Walk-ins welcome, but please register in advance for souvenirs and free parking



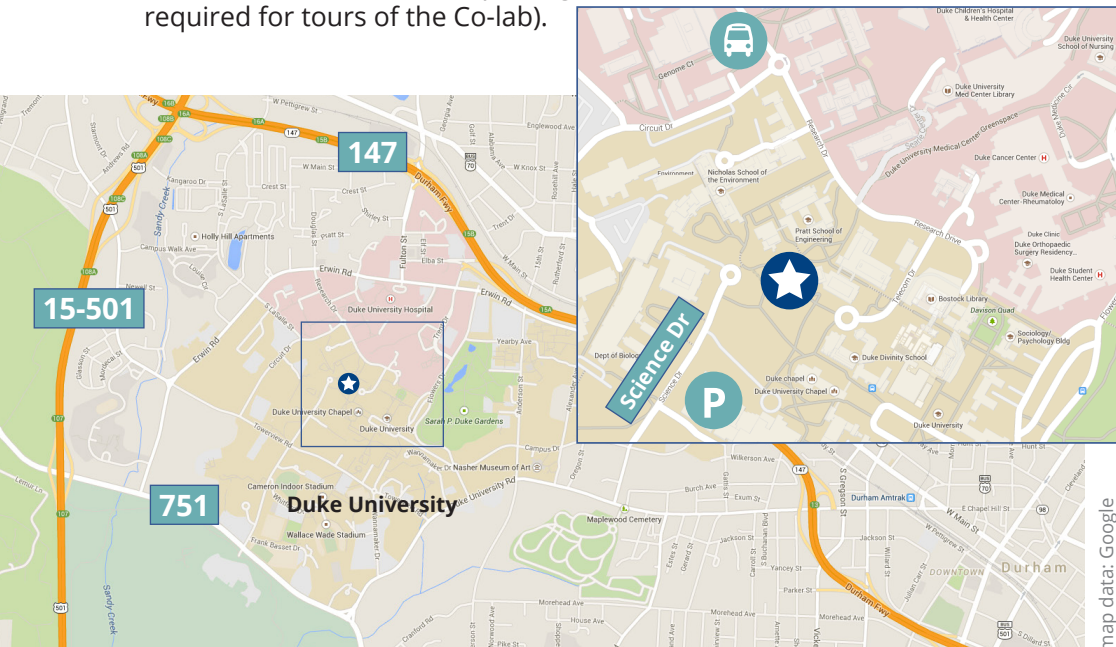
Light Demonstrations

Here's a partial list of demonstrations—there's something for everyone!

- ⚙️ **Light Pipe:** Duke Optical Student Chapter (OSA/SPIE) demonstrates how fiber optics work to speed data to your computer, TV and more
- ⚙️ **Solar Power and Hydrogen Fuel:** Discover the future of automotive technologies – a demonstration of how cars can be powered by light
- ⚙️ **Hiding in Plain Sight:** Come investigate materials that emit their own light, like Play-Doh and more using laser beams
- ⚙️ **See Cells with a Cell:** Check out cells, neurons, and other microscopic objects with a cell phone microscope—a novel technology that's like having a lab in your pocket!
- ⚙️ **High-Resolution Endoscope:** Learn how doctors peer inside the body with this light-based visualization tool
- ⚙️ **Light Blox:** See how light works—understand reflection and refraction
- ⚙️ **Photonics in Art:** See how X-rays are used in art
- ⚙️ **Interference of Light:** Learn what interference is and see how an interferometer is used
- ⚙️ **3D Printers:** See how they work. To learn more about digital fabrication and 3D printing, check out the Innovation Co-Lab (pre-registration required for tours of the Co-lab).



- ⚙️ **MEDx Wireless Technology:** View wearable light technology used in medicine, including a wireless pulse oximeter, smartphone apps, Google Glass, and a new holographic technology called Microsoft Hololens
- ⚙️ **SMIF Clean Room:** Tour the clean room and see cool things under a light microscope (pre-registration required for tours)
- ⚙️ **Meet Women Scientists and Engineers:** Ask what they do and how they got here
- ⚙️ **Photo Booth:** Try on a clean room suit, step into the photo booth and get an instant photo strip of you, your family & friends to take home as a souvenir



Park at the Bryan Center Parking Garage (PGIV):
135 Science Drive, Durham or



Ride the free Bull City Connector from Downtown Durham to the **Research Drive at Circuit Drive bus stop**



The open house will be held in the atrium of the **Fitzpatrick Center (FCIEMAS Building)**.



For a more detailed map, visit
fitzpatrick.duke.edu/address-directions

Learn more & register: fitzpatrick.duke.edu/october9

This open house event is being sponsored in conjunction with International "Introduce a Girl to Photonics" Week 2016.