**Abstract Deadline:** February 21\textsuperscript{st}  
Submit electronically to asincore@knights.ucf.edu or hard copy to Alex Sincore in CREOL Room 132

**CREOL Optics Demo Contest**

- **Abstract Due by February 21\textsuperscript{st}**  
  - Submit electronically to asincore@knights.ucf.edu or hard copy to Alex Sincore in CREOL Room 132

- **Top THREE (3) Abstracts will be chosen**  
  - These will be constructed following February 21\textsuperscript{st}, to be finished by March 21\textsuperscript{st}

- **The three optic demos will then be judged by all of CREOL to determine the winner of the Optics Demo Contest**  
  - The winning group will receive $100 cash prize!  
  - CREOL demo viewing and judging set for March 28\textsuperscript{th}

- **Groups may consist of 1-4 students**  
  - This contest is open to graduate AND undergraduate students in optics or related fields  
  - It is encouraged to form groups between various labs  
  - Groups are encouraged to ask advisors/professors for help in salvaging materials for construction. This allows more money to be used for the demo itself

- **Winners, as well as nominees, will have a poster constructed with their names on it. As well as their demos continually displayed in the front CREOL hallway!**  
  - Looks great on resumes!  
  - Will go on the CAOS and CREOL website!  
  - Potentially make $100!
CREOL Optics Demo Contest

Name(s):

Project Name:

Submitted Date:

1. Attach ONE (1) page abstract detailing the educational purpose and scientific/technical background to the project.
   - KNOW YOUR AUDIENCE!
   - These demos will be used as demonstrations for students touring CREOL, such as middle and high school students. As well as during Optics Day and any other relevant events. The project should be informative as well as easily explained to someone unfamiliar with optics/science.
   - Ensure the abstract includes BOTH the technical description of the project for the judges, as well as an explanation of how it relates to educating non-science persons.
   - Projects CAN improve on already existing demos, but must be well designed.
   - The project can be unexpectedly simple, yet “fun” and engaging to the audience. Motivating interest in science is a top priority.
   - If chosen, a one-page procedure manual will be required to assist a student in operating/fixing the demo.

2. Attach a computer-aided schematic of the project. Be sure to include electrical requirements, beam path, safety concerns, etc. Roughly 1.5” x 3” (45 cm x 90 cm) footprint is an appropriate estimate.
   - Observe the demos located in the front CREOL hallway as a guide for project space constraints. Smaller or larger demos are allowed, obviously minimize space when possible.
   - You may hand draw the schematic, ensure it is legible and well-drawn (usage of straight-edge preferred).
   - It is desirable that the demo can be used without opening the Plexiglas enclosure, such as the ‘Hologram’ demo. This allows ease in demo usage.

3. Attach a list of materials needed to construct the project, including budget estimates for each item. Each group is allowed up to $100 towards project construction.
   - It is HIGHLY encouraged to salvage unused optics/components around the lab to aide in the construction. Ask your professor and class-mates for contributions!
   - CAOS can provide Plexiglas enclosures and tables, as seen in the demos located in the front CREOL hallway.