



# The OAPT Photo Contest

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To coincide with the World Year of Physics, 2005, the OAPT is pleased to announce the first annual OAPT Physics Photo Contest for senior high school physics students. The contest is open to any student enrolled in a day school Grade 12 physics course in Ontario in the 2004/2005 school year. There are two categories in the contest, one for students enrolled in the university preparation course, SPH4U, and the other for students enrolled in the college preparation course, SPH4C. Physics educators at the annual OAPT Conference will judge the photos in May 2005, in Sudbury.

## Grade 12 University Category Controlling Photographing Variables

- **Polarization of light**
  - polarization of reflected light
  - polarization of scattered light
  - polarization by double refraction
  - determining stress in plastic models
- **Interference and/or diffraction of light**
  - Reflection and/or transmission in thin film interference
  - using "star filters"
  - using diffraction gratings with different numbers of lines per cm
- **Depth of field**
  - changing the focal length of the lens
  - changing the lens aperture
- **Shutter speed**
- **Film speed**

Requirement: Two or three photos of the same subject with title and a double-spaced written explanation (150 to 250 words)

## Grade 12 College Category 2004/2005 Theme: The Physics of Motion, Forces, and/or Machines

for example:

- acceleration
- Newton's laws of motion
- friction
- simple machines
- domestic and industrial machines

Requirement: one or two photos with title and a double-spaced written explanation (100 to 200 words)

## OAPT Members Category Controlling Photographing Variables

This is a one-time opportunity for teachers in celebration of World Year of Physics.

Subject is the same as for 4U students.

### Prizes for 4U and 4C Contests

- 1st place - \$200 to the student and a Computerized Assessment Bank for 4U or 4C to the teacher
- 2nd place - \$100
- 3rd place - \$50
- An Honourable Mention will also be awarded

### Members' Contest

#### Photos illustrating polarization:

- 1st place - \$200
- 2nd place - \$100
- 3rd place - \$50
- Honourable Mention

#### Photos illustrating all other photographic variables:

- 1st place - \$200
- 2nd place - \$100
- 3rd place - \$50
- Honourable Mention

*Special inaugural  
contest for  
teachers!*

For more details on rules and submission see OAPT website at <http://www.physics.uoguelph.ca/OAPT/>

Photos must be received no later than May 2, 2005

