

#### Photonic Games - Hands-on challenges to spark teenagers' interest in light

This scrapbook was produced by REPOL, a student organization affiliated with Quebec's SPIE and OSA student chapters

2010, Université Laval, Québec, Canada







### PHOTOMIC

### GAMES



3 highschools



115 students



28 teams

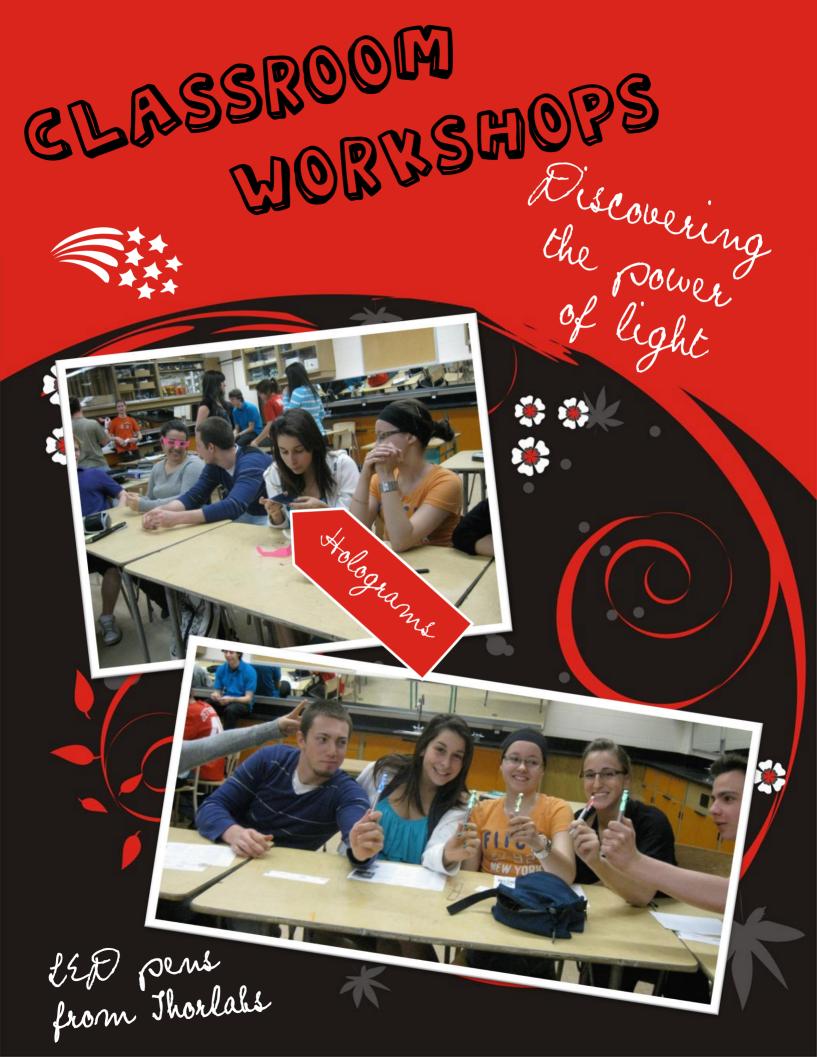


7 challenges



50 volunteers

www.jeuxphotoniques.com

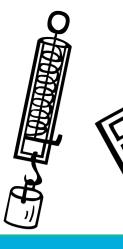




Phenomenon	Experience in the workshop	applications
Reflection	Conlave mirrors Convex mirrors	Rear view mirrors Surveillance/security mirrors
Refraction	Converging lenses Ewerging lenses	Everything that contains lenses: glasses, cameras, microscopes, telescopes, etc.
Dispersion	Prism	Rainhow
Polarization	Stress lines in plastic object between polarizers	3D movies Sunglasses
Birefringence	Calcite crystal that doubles printed letters	Liquid crystal screens (flat screens, cell phone displays, calculators)
Diffraction	Piffraction grating "Rainbow" glasses Shapes with laser pointer and diffraction slide	Spectrometer: instrument that analyses light emitted, transmitted or reflected by an object
laser	laser pointer	ENE/Blu-Ray Slayer Bar-code reader Laser eye surgery







## Lagoratory Tours





shedding light on research in optics and photonics

# OPTICAL TI



playing with light to shoot a hole-in-one







Synthetic

I-shaped course



## FR CUITZ FR



a team and its volunteer





Question about convere mirror







### Spotlight on optical knowledge



# LASER

Optical security: a brilliant idea!





瓣

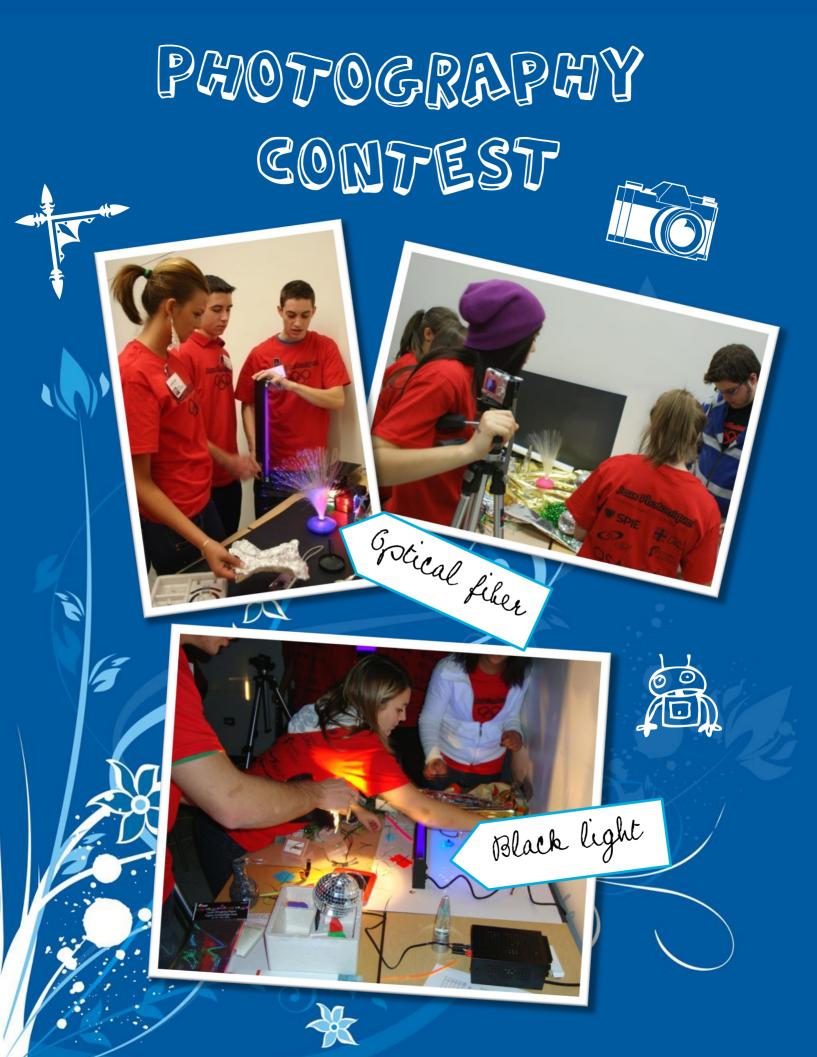


### JELL-OPTICS

Controlling light with Jell-6 lenses













### SPIE







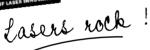
Réseau photonique du Québec Quebec Photonic Network













Gur research centre



Faculté des sciences et de génie Département de physique, de génie physique et d'optique





Encourages student involvement









