

*You and two of your students are invited  
to attend the CIPT Fall Workshop*

## **"Getting a Charge Out of Light"**

**Saturday, December 1, 2007**

### **Teacher Schedule**

8:30 – 9:00 a.m.	Registration and Continental Breakfast Atrium, Corson Hall
9:00 – 10:00 a.m.	Prof. Tobias Hanrath, "Harvesting the Power of the Sun" Morison Room, Corson Hall
10:05 – 10:25 a.m.	Andrew Chessen, "Cornell's Solar House" Morison Room, Corson Hall
10:30 – 11:30 a.m.	Lab Tours Bard Hall
11:30 – 12:30 p.m.	Lunch Buffet Atrium, Corson Hall
12:30 – 1:45 p.m.	Lab Activity I Comstock Hall
2:00 – 3:15 p.m.	Lab Activity II Comstock Hall
3:15 – 3:30 p.m.	Closing and Evaluation Atrium, Corson Hall

### **Teacher Activities**

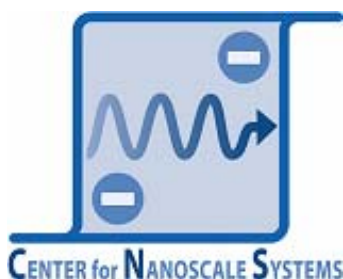
- **"Photovoltaic Cells"** – Students develop an understanding of how photovoltaic solar cells work and measure the peak power produced as a function of a load resistor.
- **"Electrical, Light, and Heat Energy Conversions"** – One of the most fundamental principles of physics is the law of conservation of energy. Regardless of its form, energy can be neither created nor destroyed. In this lab, electrical energy is converted to light energy and internal energy (heat) and light energy is later converted into heat. The efficiency of two different light sources is also calculated.

*There is no charge for the workshop.*

*Registration is limited to 40 teachers and 40 students.*

*You will be notified of your acceptance or placement on a wait-list.*

*Five and one-half contact hours will be awarded for participation.*



*Students, you are invited to attend with your physics teacher the CIPT Fall Workshop*

## **"Getting a Charge Out of Light"**

**Saturday, December 1, 2007**

### **Student Schedule**

8:30 – 9:00 a.m.	Registration for activities and Continental Breakfast Atrium, Corson Hall
9:00 – 10:00 a.m.	Prof. Tobias Hanrath, “Harvesting the Power of the Sun” Morison Room, Corson Hall
10:15 – 11:15 a.m.	Activity I (choices listed below)
11:15 – 1:00 p.m.	Informal campus tour and lunch in the Ivy Room
1:00 – 2:00 p.m.	Activity II (choices listed below)
2:15 – 3:15 p.m.	College Admissions Panel Morison Room, Corson Hall
3:15 – 3:30 p.m.	Closing, Evaluation and Meet Teachers Atrium, Corson Hall

### **Student Activities**

- **Discover** how gravity of black holes works with the “Spandex Universe”
- **Visit** the CAVE and experience 3-D imaging
- **Tour** Cornell Center for NanoScale Science & Technology Facility

**Activities for students will be described at sign-up which takes place at registration on a first-come first-served basis.**

*Breakfast and lunch will be provided for all participants.  
CIPT will provide \$50 reimbursement for accommodations to the first 6 teachers and 12 students (may be required to share rooms) who request it.*