



CENTRE NATIONAL  
DE LA RECHERCHE  
SCIENTIFIQUE



Centre de Recherche Public  
**Gabriel Lippmann**

Conference to celebrate the 100<sup>th</sup> anniversary  
of Gabriel Lippmann Nobel prize

## **“A World of Colors: From Gabriel Lippmann to Nanophotonics”**

**October 3, 2008**

The one day conference will be held in Paris  
at Conservatoire des Arts et Métiers  
in the Abbé Grégoire amphitheatre  
292 rue Saint-Martin, 3<sup>d</sup> arrondissement, Paris, France  
Métro : Réaumur-Sébastopol (lines 3 and 4), Bus lines # 38-39-47

**Registration is free of charge, but is mandatory**  
**Please fill the registration form available at <http://www.sfoptique.org/>**

### **Organizing committee**

- **Jean-Marc Fournier**, École Polytechnique Fédérale de Lausanne, Switzerland
- **Michèle Leduc**, President of the French Society of Physics, France
- **Gilles Pauliat**, Laboratoire Charles Fabry de l'Institut d'Optique, CNRS, Palaiseau, France
- **Jean-François Roch**, École Normale Supérieure de Cachan, France

### **Scientific committee**

- **Alain Aspect**, Laboratoire Charles Fabry de l'Institut d'Optique, CNRS and École Polytechnique, Palaiseau, France
- **Claude Cohen-Tannoudji**, Emeritus Professor at Collège de France, Paris, France
- **Thomas Ebbsen**, Université Louis Pasteur, Strasbourg, France
- **Jean-Jacques Greffet**, École Centrale de Paris, France
- **Theodore Hänsch**, Ludwig Maximilian Universität, Munich, and Max-Planck-Institut für Quantenoptik, Garching, Germany
- **Antoine Labeyrie**, Professor at Collège de France, France
- **Juan-Ariel Levenson**, Laboratoire de Photonique et de Nanostructures, Marcoussis, CNRS, France and Director of Centre de Compétence Nanosciences Ile-de-France (C'Nano IdF)
- **Emmanuel Rosencher**, Onera and École Polytechnique, President of the French Optical Society, France

# Program

08:45 – 09:00

- *Introduction – presentation of the conference*  
**xxx**, to be determined

09:00 – 09:45

- *"Spectral Archiving by Structural Colors: The Method of Gabriel Lippmann"*,  
**Jean-Marc Fournier**, Advance Photonics Laboratory, EPFL, Switzerland

09:45 – 10:30

- *"Conservation of Ancient Photographs and Preservation of Digital Archives"*  
**Sabine Süsstrunk**, Audiovisual Communications Laboratory, École Fédérale Polytechnique de Lausanne, Switzerland

10h30 – 11h10

- *Coffee break*

11:10 – 11:55

- *"Construction of Colour by the Cerebral Cortex"*  
**Semir Zeki**, College University, London, United Kingdom

11h55 – 12h40

- *"Structural Colors"*  
**Jacques Lafait**, Institut des Nanosciences de Paris, CNRS, and Université Pierre et Marie Curie, Paris VI, France

*Lunch break (lunch is **not** provided)*

14:30 – 15:00

- *"Photonic Crystals"*  
**Isabelle Robert-Philip**, CNRS, Laboratoire de Photonique et de Nanostructures, Nozay, France

15:00 – 15:30

- *"Nano-markers and their Applications"*  
**Laurent Cognet**, Centre de Physique Moléculaire Optique et Hertzienne, Université de Bordeaux, France

15:30 – 16:00

- *Coffee break*

16:00 – 16:45

- *"Novel Uses of Interference in Modern Spectroscopy"*  
**Theodore Hänsch**, Nobel laureate, Ludwig Maximilian Universität, Munich, and Max-Planck-Institut für Quantenoptik, Garching, Germany

16:45 – 17:30

- *"Wave particle duality: in the light of recent experiments"*  
**Alain Aspect**, Laboratoire Charles Fabry de l'Institut d'Optique, CNRS, and École Polytechnique, Palaiseau, France