

# Rencontres Arts & Sciences : NEUROSCIENCES, ÉPISTÉMOLOGIE ET NOUVEAUX PARADIGMES

organized by **GDR ESARS**

February 5/6, 2016

**Amphi Giroud**

Centre Universitaire  
des Saints-Pères  
PARIS

Interdisciplinary and transdisciplinary developments are one of the current priorities in research.

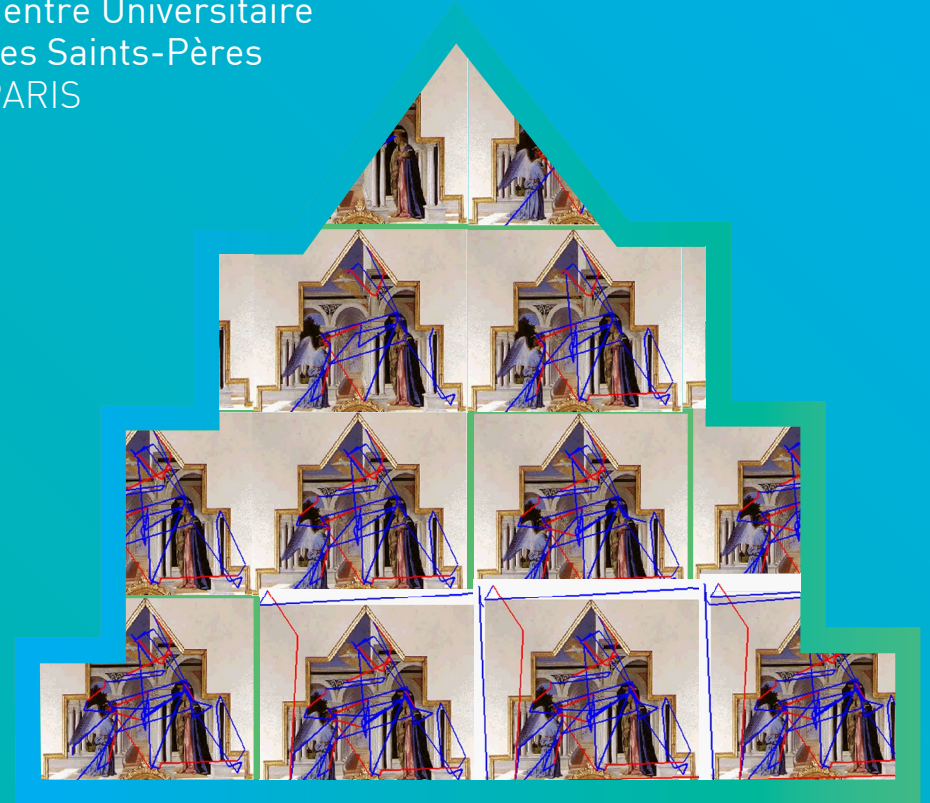
The GDR Aesthetic Arts & Sciences (ESARS) headed by Zoi Kapoula, Research Director at the CNRS, is a CNRS structure focused on this goal. This GDR includes many researchers, teachers and artists who push the boundaries of their disciplines and take the risk to undertake research on Art and Aesthetics.

[esars.scicog.fr](http://esars.scicog.fr)

Zoi Kapoula, Director of GDR  
and event organization

Coorganizers: Emmanuelle Volle,  
Julien Renoult et Moreno Andreatta

Contact mail : [esars.cnrs@gmail.com](mailto:esars.cnrs@gmail.com)



## February 5, Friday

9:00 WELCOMING OF PARTICIPANTS (COFFEE)

### AMPHITHÉÂTRE GIROUD

9:30 OPENING SPEECH, ZOÏ KAPOULA  
(CNRS, Université Paris Descartes, Paris)

10h00-12h00

#### SESSION 1: NEUROIMAGING – CREATIVITY AND AESTHETICS

Organizer: Emmanuelle Volle (ICM FrontLab, INSERM, Hôpital Salpêtrière, Paris)

- Le cerveau créatif : perspective différentielle* par **Todd Lubart**
- The creative brain : a differential psychology perspective*, **Todd Lubart**
- The neuroscience of creative thought*, **Mathias Benedek** (in english)
- Neuroimaging of emotions*, **Nathalie George**
- Measuring connectivity networks within and between brains*, **Fabrizio de Vico Fallani** (in english)
- The Labodanse project: A novel framework for the study of physiological, cognitive and experiential intersubjective modulations during a live dance performance*, **Asaf Bachrach**

12h00-14h00

FREE LUNCH BREAK. **ESPACE LAVOISIER** : EXHIBITION OF ARTWORKS AND SCIENTIFIC POSTERS

### AMPHITHÉÂTRE GIROUD

14H00-16H00

#### SESSION 2: COGNISCIENCES AND THE NEUROPHYSIOLOGY OF AESTHETICS

Organizer: Zoï Kapoula (CNRS, Université Paris Descartes)

- Hearing and painting*, **Alain Londero**
- Numerical encapsulating processes (transformations) in architectural creation*, **Eglantine Bigot-Doll**
- Physiological ocular behavior of viewers in natural conditions*, **Solène Kalénine**
- Body oscillations in viewers facing paintings and sculptures*, **Zoï Kapoula**
- The a-A question: from every-day to eternal aesthetics*, **Claus-Christian Carbon**

16H00-16H30

COFFEE BREAK – **ESPACE LAVOISIER** : FLASH PRESENTATION OF POSTERS

Moderator: Jacques Sapiega

16H30-18H30

#### SESSION 3: MUSIC, MATHEMATICS AND BRAIN

Organizer: Moreno Andreatta (CNRS, IRCAM)

- Musical friends and foes: coordinated musical behavior can communicate social intent*, **Jean-Julien Aucouturier**
- Style classification in music*, **Louis Bigo**
- Geometrical displays in music: from Tonnetz of the Spinnen model*, **Gilles Baroin**
- Neuronal music*, **Alain Destexhe** and **Luc Foubert**
- Study of the aesthetic emotion in the arts therapies*, **Edith Lecourt**

19H00

#### CONCERT AT THE JEAN-PHILIPPE RAMEAU CONSERVATORY

3 TER RUE MABILLON, 75006 PARIS

- Computer-assisted improvisation with the participation of **Georges Bloch**, composer and **Hervé Sellin**, jazz pianist. Dispositif OMAX-ImproTech (IRCAM-EHESS)
- OuMuPo or the workshop of potential music, **Valentin Villenave**, composer and pianist (and colleagues).
- Math'n Pop, **Moreno Andreatta**, composer and pianist (Hamiltonian songs and geometric representations). With the participation of **Gilles Baroin** (mathemusician and graphic computer-scientist) and **Polo** (musician and singer)

## February 6, Saturday

9H00 WELCOMING OF PARTICIPANTS (COFFEE)

### AMPHITHÉÂTRE GIROUD

9H30-12H00

#### SESSION 4: EVOLUTIONARY AESTHETICS (in english)

Organizer: Julien Renoult (CNRS, Université Paris 1)

- Chimpanzee as artist in the lab*, **Dominique Lestel** and **Gabriela Bezerra de Melo Daly** (in english)
- A coevolutionary aesthetic framework*, **Richard O. Prum** (in english)
- Attractiveness of the female body, insight from art through history*, **Jeanne Bovet** (in english)
- Is the beauty honest?* **Michel Kreutzer** (in english)
- Expertise as moderator of evolutionary and coevolutionary aesthetics*, **Jan Verpooten** (in english)

12H00-14H00

FREE LUNCH BREAK. **ESPACE LAVOISIER**: EXHIBITION OF ARTWORKS AND SCIENTIFIC POSTERS

### AMPHITHÉÂTRE GIROUD

14H00-16H00

#### SESSION 5: ARTIST SESSION

ARTISTS WHO AIM AT EXPLORING THE LINKS BETWEEN ART AND SCIENCE WILL EXPLAIN THEIR ARTISTIC PROCESS AND WILL PRESENT THEIR PROJECTS

Moderators : Jean Delseaux and Zoï Kapoula

- Sensory multimodality, synesthesia and heuristics: at the invisible source of creative inspiration*, **Vincent Mignerot**
- Anahata, organization of research and creation, Art, Science and Society*, **Delphine Fabbri-Lawson**
- Co-creation in arts and sciences: copyright*, **Claire Leroux**
- The post-petrol world: a new awareness and a new biological organization?* **Olga Kisseleva**
- Le grand collisionneur*, **Hervé Bacquet**
- Form as an emerging self-organization*, **Sophie Lavaud**
- Attention and surprise: the stage as a terrain for experiments*, **Daria Lippi**
- The couple, a simple machine, for a combination of movements*, **Pascale Weber** and **Jean Delseaux**

16H00-17H00

COFFEE BREAK. **ESPACE LAVOISIER**: FLASH PRESENTATION OF ARTISTS VIDÉOS

Moderator: Jacques Sapiega

### AMPHITHÉÂTRE GIROUD

17H00-18H00

ROUNDTABLE: ARTS AND SCIENCES – EPISTEMOLOGY AND NEW PARADIGMS

Moderator: Zoï Kapoula

With the participation of **Denis Cercllet** and **François Pachet**

18h00

CLOSING SPEECH