ISPC PARIS CONFERENCE PROGRAMME

July 3-6, 2017

Laboratory SPHERE, University Paris Diderot, Paris, France
Room L. Valentin, 454A (level 4). Building Condorcet, 10, rue Alica Domon et Léonie Duquet, 75013 Paris
Organizer: Jean-Pierre Llored

MONDAY 3RD, 2017

8:30 Welcome coffee
9:00 Introduction by Pascal Crozet (Dir. of SPHERE) and Jean-Pierre Llored (SPHERE & Linacre College, Oxford University).

9:15-10:15 Plenary lecture
Eric Scerri (University of California, USA): An assessment of Woody’s thesis on the turn to practice and representations of the periodic table

9:15-10:30 Coffee break

10:30-12:30 // SESSION 1 // Chair: Eric Scerri (University of California, USA)

• 10:30-11:00 Benjamin J. McFarland (Seattle Pacific University, USA): Inorganic chemistry, causation, and prediction in natural history
• 11:00-11:30 Mathieu Arnoux (Paris Diderot University & Ecole des Hautes Etudes en Sciences Sociales, France): Iron and steel in preindustrial times: words, commodities and chemical element
• 11:30-12:00 Sarah Hijmans (Paris Diderot University, France): What are elements? A pragmatic approach to the meaning of a chemical concept
• 12:00-12:30 Juan Camilo Martínez González & Hernán Accorinti (University of Buenos Aires, Argentina): Idealized quantum chemistry? Approximations and molecular structure

12:30-13:30 Lunch

13:30-16:00 // SESSION 2 // Chair: Grant Fisher (Korea Advanced Institute of Science and Technology, Korea)

• 13:30-14:00 Gabriela García Zerecero (Panamericana University, Mexico): Philosophy of science and ontology
• 14:00-14:30 Sebastián Fortín, Martín Labarca & Olimpia Lombardi (CONICET, University of Buenos Aires, Argentina): On the ontological status of molecular structure: is it possible to reconcile molecular chemistry with quantum mechanics?
• 14:30-15:00 Guillermo Restrepo (University of Pamplona, Colombia & Leipzig University, Germany): A categorical formalism for classification of chemical substances
• 15:00-15:30 Vanessa Seifert (University of Bristol, UK): Downwards causation for the case of molecular structure
15:30-16:00 Alfio Zambon & Mariana Córdoba (University of Patagonia San Juan Bosco, Argentina): Nanomaterials and intertheoretical relations: macro and nanochemistry as emergent levels

16:00-16:30 Coffee break

16:30-17:30 Plenary lecture
Rom Harré, Linacre College, Oxford University) & Jean-Pierre Llored (SPHERE & Linacre College):
Procedures, Products and Pictures

17:30-18:30 ISPC meeting

TUESDAY 4TH, 2017

8:30 Welcome coffee

9:00-10:00 Plenary lecture
Bernadette Bensaude-Vincent (University Paris 1 Sorbonne, France):
What carbon teaches to philosophers

10:00-10:30 Coffee break

10:30-12:00 // SESSION 3 // Chair: Bernadette Bensaude-Vincent (University Paris 1 Sorbonne, France)

• 10:30-11:00 François Pépin (IHRIM-ENS de Lyon, France): Chemistry and materialism: from matter to materiality

• 11:00-11:30 Klaus Ruthenberg (Coburg University of Applied Sciences and Arts, Germany): No analysis without synthesis

• 11:30-12:00 Yaman Abdin & Claus Jacob (Saarland University, Germany): The matter of impurities in pharmaceuticals: Substances without a name and how to handle them

12:00-13:00 Plenary lecture
Augustin Berque (Ecole des Hautes Etudes en Sciences Sociales, France):
Trajective chains in mesology, von Neumann chains in physics, etc. - and chemistry

13:00-14:00 Lunch and poster session

14:00-15:00 Plenary lecture
Stephane Sarrade (CEA of Saclay, France): Green chemistry and sustainable development: a survey

15:00-16:30 // SESSION 4 // Chair: Klaus Ruthenberg (Coburg University of Applied Sciences and Arts, Germany)

• 15:00-15:30 Benoît Timmermans (Free University of Brussels, Belgium): REACH’s impact on the ways of thinking and making chemistry

• 15:30-16:00 Michele Friend (Georgetown University, USA): Ecologically sound practice in chemistry

• 16:00-16:30 Dominique Pecaud (Ecole polytechnique de l’université de Nantes, France): Investigating the concept of social acceptance from chemistry: the Case of mosquito control

16:30-17:00 Coffee break
17:00-18:00 Plenary lecture
Franck Dumeignil (University of Lille, France) in collaboration with Martine Benoit (Maison Européenne des Sciences de l'Homme et de la Société, Lille University, France):
Biosourced chemistry, biorefineries: the origin, the status and the fate of bioeconomy in our civilization

WEDNESDAY 5TH, 2017

8:15 Welcome coffee

8:45-09:45 Plenary lecture
Hasok Chang (University of Cambridge, UK): Pragmatism, technoscience and chemistry

09:45-10:00 Coffee break

10:00-12:30 // SESSION 5 // Chair: Hasok Chang (University of Cambridge, UK)

• 10:00-10:30 Geoffrey Blumenthal (University of Bristol, UK): The late phlogiston theories 1791-1813 and the debates concerning pluralisms
• 10:30-11:00 Clevis R. Headley (Florida Atlantic University, USA): What can the philosophy of chemistry contribute to critical philosophy of race: the case of phlogiston and race
• 11:00-11:30 M.E. Tobin (Independent Scholar, USA): Why are there so many unknowns in chemistry?
• 11:30-12:00 Luigi Cerruti & Elena Ghibaudi (University of Torino, Italy): Peirce’s semiosis and the representation of protein molecules
• 12:00-12:30 Marina Paola Banchetti-Robino (Florida Atlantic University, USA): The explanatory significance of negative-empirical concepts in Daniel Sennert’s experimental chymistry

12:30-13:30 Lunch

13:30-15:30 // SESSION 6 // Chair: Yona Siderer (The Hebrew University of Jerusalem, Israel)

• 13:30-14:00 Tami Spector (University of San Francisco, USA): Fugitive form: a close reading of cyclobutadiene
• 14:00-14:30 José A. Chamizo (Universidad Nacional Autónoma de México, Mexico): The fourth chemical revolution (1945-1966): From substances to chemical species
• 14:30-15:00 Sacha Tomic (University Paris 1 Sorbonne-IHMC, Paris): Toxicology in France in the mid-XIXth Century
• 15:00-15:30 Sébastien Dutreuil (Max Planck Institute for the History of Science, Germany): An archeology of the chemical conceptions of the Earth: from chemical geology to Gaia and Earth system science

16:00-16:30 Coffee break

16:30-17:30 Plenary lecture
Michel Morange (École Normale Supérieure Ulm, Paris; President of the International Society for the History, Philosophy, and Social Studies of Biology): Biology and chemistry: strong, but ambiguous relations

19:00-21:00 Conference dinner
THURSDAY 6TH, 2017

8:30 Welcome coffee

9:00-10:00 Plenary lecture
Ludovic Duhem (University of Lille 3, ESAD Orléans and Valenciennes, France):
*Philosophy of technology: insights for philosophers of chemistry*

10:00-10:30 Coffee break

10:30-12:00 // SESSION 7 // Chair: Joachim Schummer (Editor-in-Chief of *Hyle*, International Journal for the Philosophy of Chemistry)

- 10:30-11:00 Grant Fisher (Korea Advanced Institute of Science and Technology, Korea): *Chemistry and concurrent exploratory science*
- 11:00-11:30 Hirofumi Ochiai (Nagoya Bunri University, Japan): *The role and reach of transdiction in chemical epistemology*
- 11:30-12:00 Alexandre Hocquet & Frédéric Wieber (University of Lorraine – LHSP Archives Poincaré, France): “Only the initiates will have the secrets revealed”: computational chemists and the openness of scientific software

12:00-13:00 Closing plenary lecture
Joachim Schummer (Editor-in-Chief of *Hyle*, International Journal for the Philosophy of Chemistry): *What does the present neglect of ethics of chemistry tell us about the past neglect of philosophy of chemistry, and vice versa?*

13:00-14:00 Lunch

End of the ISPC Paris Conference