

COLLOQUE DE LA SOCIÉTÉ INTERNATIONALE DE PHILOSOPHIE DE LA CHIMIE (ISPC)

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*

10:15-10:30 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 (Ecole 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*

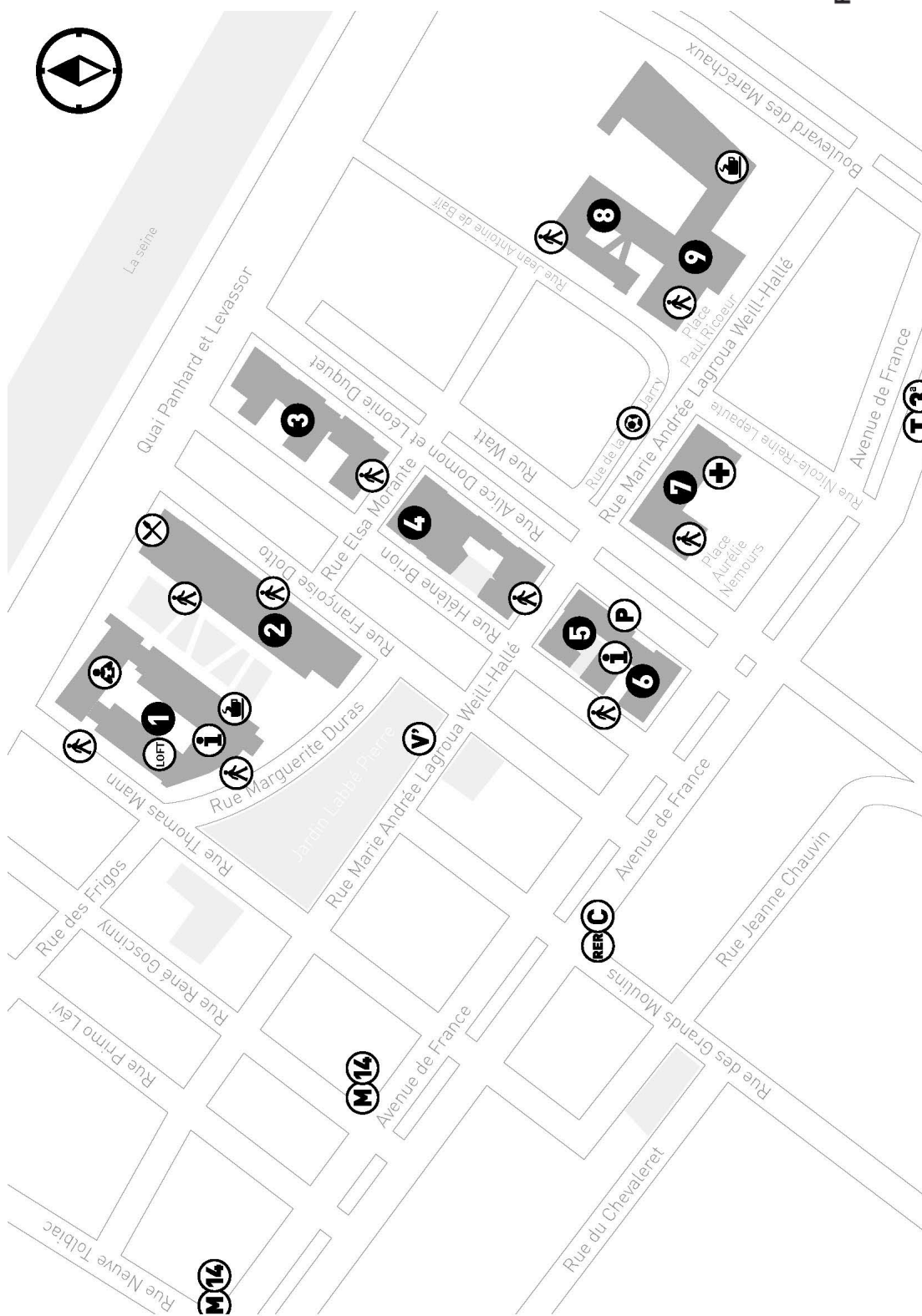
12:00-13:00 Closing plenary lecture

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



- 1 - Les Grands Moulins**
16 rue Marguerite Duras
BVE - BRI - SAOP - Service culture
UFR LCAO - UFR LAC
 - 2 - La Halle aux Farines**
Espace Pierre Vidal-Naquet
Amphis - SCRIPT - EIDD
Relais handicap Diderot
Service social et aide aux étudiants
 - 3 - Condorcet**
4 rue Elsa Morante
UFR Physique
 - 4 - Buffon**
4 rue M.A. Lagroue Weill-Hallé
UFR SDV - Amphitheâtre
 - 5 - Lamarck B**
35 rue Hélène Brion
UFR Chimie - UFR STEP
UFR Sciences du vivant SDV
 - 6 - Lamarck A**
37 rue Hélène Brion
DEU inscriptions
 - 7 - Sophie Germain**
Place Aurélie Nemours
Service des sports
Locaux syndicaux étudiants
UFR Mathématiques
UFR Informatique
Amphi Turing
 - 8 - Lavoisier**
15/17 rue Jean de Baiï
UFR Chimie - MIE LAB013
 - 9 - Olympe de Gouges**
Place Paul Ricœur
CRL - UFR EILA
UFR Études anglophones
UFR Études psychanalytiques
UFR GHSS - UFR Sciences sociales
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-  Accueils
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 -  BVE - Service culture