



ISPC 2025 Antwerp 9-11/07/2025

28th Conference of the International Society for the Philosophy of Chemistry

Program

WEDNESDAY 09/07/25

8.45-9.15: Foreword & intro

9.15 – 10.15: Keynote: J. Hedesan

The Multiple Facets of Van Helmont's Notion of the Archeus.

10.15 - 11.00: Session 1

F. Buyse

J.B. Van Helmont in Robert Boyle's *The Sceptical Chymist*

11.00 –11.15: coffee break

11.15 – 12.15: Session 2

C. Schmechel

Landscapes of disease and contagion: Fracastoro's 'seeds', Van Helmont's 'ferments', Kircher's 'worms'

E. Baum

On the origins of the conceptualization of the kinetic theory of gases: M.V. Lomonosov.

12.15– 13.15: Lunch pause

13.15 – 14.45: Session 3

Y. Siderer

Gas studies by Udagawa Youan in his book Seimi Kaiso (Introduction to Chemistry, 1837-1846).

M. Hendrickx (ONLINE)

On the relation between metaphor and the scientific method, today and during the 17th century.

R. Hendry (ONLINE)

Chemistry and Integrated History and Philosophy of Science.

14.45 -15.00: coffee break

15.00- 15.15: info concerning the International Society for the Philosophy of Chemistry - ISPC (by Eric Scerri)

15.15 – 16.45: Session 4 (ONLINE SESSION)

M. P. Banchetti-Robino (ONLINE)

From Alchemy to Early Modern Chymistry: The Transitional Chemical Ontologies of Helmont and Sennert

Carlos Sérgio Leonardo Júnior and L. Massi (ONLINE)

The chemist's imagination in Primo Levi's science fiction stories: the tension between objectivity and subjectivity in chemistry.

R. Valero – L. Massi (ONLINE)

Diachronic and synchronic analysis of Chemical Nomenclature and its implications for chemistry education.

19.30 – 22.00: Social activity (Drinks in HORTA, Hopland 2, 2000 Antwerpen)

THURSDAY 10/07/25

8.30 – 9.30: Keynote: T. Tahko

AlphaFold and Dependency Modelling: From Chemistry to Biology

9.30 – 10.30: E. Scerri and M. Pizzochero

Does structural realism have any role to play in chemistry and more specifically in the context of the periodic table?

10.30 – 11.30: Session 1

O. Lombardi and S. Fortin

The problem of molecular structure (once again)

Michele Pizzochero

Fuzzifying the Chemical Bond

11.30- 11.45: coffee pause

11.45 – 12.45: Session 2

A. Ceulemans

Adaptive natural Density Partitioning and the Chemical Bond

M. Leach

The Theoretical Schism in Foundational Chemistry: Lewis vs. Quantum.

12.45-13.30: lunch break

13.30– 14.30 keynote: Klaus Ruthenberg

Chemistry, Catalysis, Causality

14.30 – 15.30: session 3

M. Riesmeier

Interest-Dependence and Chemical Kinds

Elena Ghibaudi, Nicolò Cimadamore, Alberto Regis and Marco Ghirardi (partially ONLINE)

The evolution of the notion of chemical bond in the light of the evolution of chemistry

15.30 -15.45: Coffee break

15.45 – 17.30: session 4 (ONLINE SESSION)

H. Vančík (ONLINE)

Physical models for chemical phenomena, a case study about reductionism

Juan Camilo Martínez González (ONLINE)

Beyond Ordinary Water: Lewis's Journey to the Discovery of D₂O

Accorinti, Hernan Lucas, Fortin, Sebastian, González Martínez and Juan Camilo (ONLINE)

The Born-Oppenheimer Approximation and the Problem of DeIdealization

Alfio Zambon (ONLINE)

Chemical Elements as Nodes of Relations

19.30 – 21.30: Conference Dinner for all the speakers/organizers at Restaurant HORTA, Hopland 2, 2000 Antwerp (<https://www.grandcafehorta.be/en>).

FRIDAY 11/07/25

9.00 – 10.30 : Session 1 (Chair: E. Scerri)

P. Thyssen

Is the Periodic Law a Law?

E. Tobin

Dualism on laws and powers: indispensability and functional laws

M. R. Peña

The Periodic Spiral of Elements

10.30 – 10.45: coffee break

10.45 – 11.45: Session 2 (Chair: E. Scerri)

J. Garai

Nuclear Lattice Model Offers Physical Explanation for Electronegativity

S. Bano (ONLINE ?)

The Many Explanations of the Periodic Table

11.45 -12.00: Closure

12.00 – 13.00: annual ISPC-meeting

15.00-16.30: Afternoon program: visit to *The Hendrik Conscience Heritage Library* (Hendrik Conscienceplein 4, 2000 Antwerpen)