

## 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 and R. Boyle

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'

R. Hendry

Chemistry and Integrated History and Philosophy of Science

12.15– 13.15: Lunch pause

13.15 – 14.45: Session 3

E. Baum

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

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.

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

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

Carlos Sérgio Leonardo Júnior

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

R. Valero – L. Massi

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

19.30 – 22.00: Social activity (Drinks in Belgian Pub): TBA

**Thursday 10/07/25**

8.30 – 9.30: Keynote: T. Tahko

AlphaFold and Dependency Modelling: From Chemistry to Biology

9.30 – 10.15: 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?*

10.15 – 11.15: Session 1

O. Lombardi and S. Fortin

*The problem of molecular structure (once again)*

Michele Pizzochero

*Fuzzifying the Chemical Bond*

11.15- 11.30: coffee pause

11.30 – 12.30: Session 2

A. Ceulemans

Adaptive natural Density Partitioning and the Chemical Bond

M. Leach

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

12.30-13.15: lunch break

13.15– 14.15 keynote: Klaus Ruthenberg

Chemistry, Catalysis, Causality

14.15 – 15.15: session 2

M. Riesmeier

Interest-Dependence and Chemical Kinds

H. Vančík

Physical models for chemical phenomena, a case study about reductionism

15.15 -15.30: Coffee break

15.30 – 17.30: session 3 (online)

*Elena Ghibaudi, Nicolò Cimaradmore, Alberto Regis and Marco Ghirardi*

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

Juan Camilo Martínez González

Beyond Ordinary Water: Lewis's Journey to the Discovery of D<sub>2</sub>O

Alfio Zambon

Chemical Elements as Nodes of Relations

Accorinti, Hernan Lucas, Fortin, Sebastian, González Martínez and Juan Camilo

The Born-Oppenheimer Approximation and the Problem of Deldealization

19.30 – 21.30: Conference Dinner (TBA)

**Friday 11/07/25**

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

P. Thyssen

Is the Periodic Law a Law?

M. R. Peña

The Periodic Spiral of Elements

S. Bano

The Many Explanations of the Periodic Table

10.30 – 10.45: coffee break

10.45 – 11.45: Session 2

E. Tobin

Dualism on laws and powers: indispensability and functional laws

J. Garai (online)

Nuclear Lattice Model Offers Physical Explanation for Electronegativity

11.45 -12.00: Closure

12.00 – 13.00: annual ISPC-meeting

14.00-16.30: Afternoon programme with social activity (TBA)