

Registration
Welcome addresses and organizational matters <i>Muriel Gargaud, University of Bordeaux, FR</i> <i>Jan Hrušák, J. Heyrovsky Institute, Prague, CZ</i> <i>Wolf Geppert, Stockholm University, DE</i>
Session I: “Formation and detection of complex molecules in the interstellar medium” Chair: <i>Wolf Geppert, Stockholm University</i>
Interstellar Molecules: Ambassadors of the Chemical History of Star Formation (Invited talk) <i>Stephan Schlemmer, University of Cologne, DE</i>
Discussion
Trends in the H₂ formation on hydroxylated silicate nanograins of the interstellar medium <i>Boutheina Kerkeni, Observatoire Paris-Meudon, FR</i>
Discussion
Aggregation of guest molecules on ice nanoparticles <i>Juraj Fedor, J. Heyrovsky Institute, Prague, CZ</i>
Discussion
Coffee break
The Role of Silicate Grain Surfaces in the Interstellar Formation of H₂ <i>Javier Navarro Ruiz, Autonomous University of Barcelona, ES</i>
Discussion
Formation of Complex Organic Molecules in the interstellar medium by radical chemistry <i>Teddy Butscher, University Aix-Marseille, FR</i>
Discussion
Formation of anions by radiative electron attachment <i>Jan Franz, Gdansk University of Technology, PL</i>
Discussion
Diffuse Interstellar Bands and Top Down Chemistry <i>Takeshi Oka, University of Chicago, US</i>
Discussion
Lunch
Session II: “Chemistry of star-forming regions and protoplanetary disks” Chair: <i>John Brucato, Observatory of Arcetri, IT</i>
Chemistry in protoplanetary disks (Invited talk) <i>Thomas Henning, MPI for Astronomy, DE</i>
Discussion
From Interstellar to Chondrite Organics: The Impact of the Hydrothermal alteration <i>Vassilissa Vinogradoff, Natural History Museum, Paris, FR</i>

Session III: “Physical and chemical processes in planet and satellite atmospheres”
Chair: <i>Jan Hrušák, J. Heyrovsky Institute, Prague, CZ</i>
The extent of chemical complexity in Titan's atmosphere (Invited talk)
<i>Veronique Vuitton, University J. B. Fourier, Grenoble, FR</i>
Discussion
Study of gas-phase ion molecular reactions at temperatures relevant to the atmosphere of Titan
<i>Illia Zymak, J. Heyrovsky Institute, Prague, CZ</i>
Discussion
Shock wave chemistry network of nucleic bases formation in reduction atmospheres
<i>Martin Ferus, J. Heyrovsky Institute, Prague, CZ</i>
Discussion
Short presentations of posters
Dinner
Poster session with wine, beer and nibbles

Wednesday September 14th, 2016

Session IV: “Organic Chemistry on planetary surfaces and ocean floors”
Chair: <i>Ján Žabka, J. Heyrovsky Institute, Prague, CZ</i>
Organics on Mars (Invited talk)
<i>Inge Loes ten Kate, University of Utrecht, NL</i>
Discussion
Study of Martian fluvial and lacustrine environments: paleoclimatic and astrobiological implications
<i>Giulia Alemanno, University of Salento, IT</i>
Discussion
Montmorillonite-catalyzed photo-induced transformation of carbon dioxide based atmospheres to organic molecules
<i>Antonín Knížek, J. Heyrovský Institute, Prague, CZ</i>
Discussion
Coffee break
Ultrahigh-resolving analytics in meteoritic soluble organic matter
<i>Alexander Ruf, Helmholtz Centre Munich, Germany</i>
Discussion
Exploring organic diversity and origins in seafloor hot springs: a synthesis of recent discoveries (Invited talk)
<i>Eoghan Reeves, University of Bergen, NO</i>
Discussion
Peptides in the Origin of Life
<i>Gonen Ashkenasy, Ben Gurion University, IL</i>
Discussion
Self -assembly, self-organization and evolution of minimal protocells (Invited talk)
<i>Steen Rasmussen, University of Southern Denmark, DK</i>
Discussion
Lunch
Facultative excursion to Mělník
The White Paper on ethical, societal and political consequences of astrobiology research: update on work progress
<i>Klara Anna Čapová, University of Durham, UK</i>

Thursday, September 15th 2016

Meeting of WG 5 of COST Action TD1308 "The Chemical Cosmos"

Session V: Formation of biopolymers and prebiotic chemistry on Early Earth

Chair: Robert Pascal, University of Montpellier, FR

From formamide to RNA the path is tenuous but continuous (Invited talk)

Ernesto di Mauro, University La Sapienza, Roma, IT

Discussion

Abiogenesis and the Gel Phase

Terence Kee, University of Leeds, UK

Discussion

Activation of N-carbamoylamino acids by carbodiimides – prebiotic relevance

Laurent Boiteau, University of Montpellier, France

Discussion

Clues for the Prebiotic Co-evolution of Peptides and Nucleic Acids Subsystems

Ziwei Liu, University of Montpellier, FR

Discussion

Coffee break

Session VI: Self-assembly of biomolecules to first cells

Chair: Terence Kee, University of Leeds, UK

The need for an energy threshold in the origin of life process

Robert Pascal, University of Montpellier, FR

Discussion

Non-Enzymatic Catalysis of Segments of the Reductive Tricarboxylic Acid Cycle

Joseph Moran, University of Strasbourg, FR

Discussion

Tracing the footprints of a prebiotic pathway? A proposed mechanism for the nonenzymatic synthesis of glycinamide ribonucleotide (GAR), the third – and first stable – intermediate in modern de novo purine biosynthesis.

Harold Bernhardt, University of Otago, NZ

Discussion

Life as a complex chemical game (Invited talk)

Kepa Ruiz-Mirazo, University of the Basque Country, ES