

International Workshop & NIS colloquium

Sponsored by the Grant for Internationalization Project FORMHA4CAT

Heterogeneous catalysis based on naturally occurring materials: from prebiotic chemistry to applications

Tuesday 28th November 2023

Aula Copernico

Department of Molecular Biotechnology and Health Sciences

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For info: marta.corno@unito.it albert.rimola@uab.cat



Attendance is free but **registration is required** [here](#) before 23/11/23.

MORNING SESSION

- 09:15 **GABRIELE RICCHIARDI** - Director of NIS Interdepartmental Centre, Department of Chemistry, University of Torino
- 09:30 **MARTA CORNO** - Chairperson - Department of Chemistry and NIS, University of Torino
- 09:45 **PIERO UGLIENGO** Department of Chemistry and NIS, University of Torino
Heterogenous Catalysis as the key for building blocks of life: from astrochemistry to planet Earth
- 10:25 **STEFAN BROMLEY** Department of Materials Science and Physical Chemistry, University of Barcelona
Effect of size and hydroxylation on the structure and reactivity of oxide nanoparticles
- 11:05 *Coffee break*
- 11:35 **SEBASTIANO CAMPISI** Department of Chemistry, University of Milano
Hydroxyapatite in Catalysis: from Structure to Function, Unveiling Complexity and Unlocking Opportunities
- 12:20 **JESSICA PERRERO** Department of Chemistry, Autonomous University of Barcelona
Formation of interstellar Complex Organic Molecules on the surface of dust grains icy mantles
- 13:00 *Light lunch*

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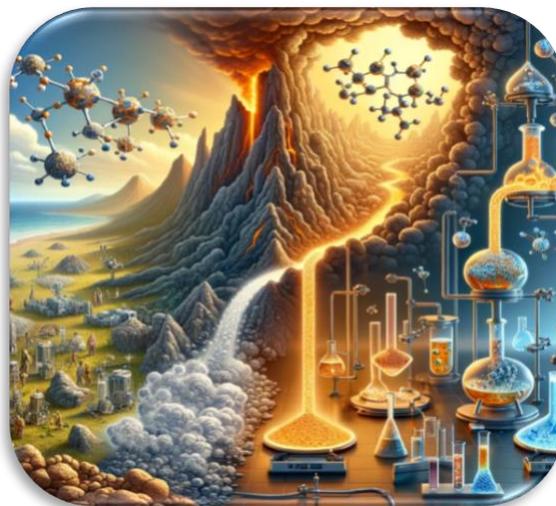
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AFTERNOON SESSION

- 15:00 **ALBERT RIMOLA** - Chairperson - Department of Chemistry, Autonomous University of Barcelona
- 15:15 **MARCO SAITTA** Institute of Mineralogy, Physics of Materials and Cosmochemistry, Sorbonne University, Paris
Prebiotic chemistry from ab initio & machine learning calculations
- 15:55 **GLORIA BERLIER** Department of Chemistry and NIS, University of Torino
Growth and self-assembly of polypeptide chains on the surface of silica
- 16:35 *Coffee break*
- 17:05 **LORENZO MINO** Department of Chemistry and NIS, University of Torino
Copper-doped hydroxyapatite: a green and versatile catalyst
- 17:45 **STEFANO PANTALEONE** Department of Chemistry and NIS, University of Torino
Water Reactivity on Schreibersite (Fe₂NiP): the Cradle of Living Phosphorus
- 18:25 **Recap and greetings**
- 20:00 *Social dinner*