UNIVERSITÀ DEGLI STUDI DI TRIESTE

VSB TECHNICAL UNIVERSITY OF OSTRAVA

Univerzita Palackého v Olomouci

SAN4Fuel

2nd SAN4Fuel Project Summer School:
New Trends in Single-Atom-Based (Photo)Catalysis

24.-26. June 2024
Trieste - Giambiagi Lecture Hall
www.ictp.it

Monday, June 24

9:30 – 10:30	Participants registration
10:30 – 11:00	Opening – Welcome address – **Prof. Paolo Fornasiero** (University of Trieste, Italy), **Prof. Štěpán Kment** (Palacký Univesity in Olomouc, Czechia)
11:00 – 12:00	Lecture **Prof. Patrik Schmuki** (Friedrich-Alexander-Universität Erlangen, Germany) – Single atom co-catalysts in photocatalytic H2 generation
12:00 – 13:30	**Lunch**
13.30 – 14.30	Lecture **Prof. Radek Zbořil** (VSB - Technical University of Ostrava, Czechia) – Carbon-based nanostructures: from low-dimensional chemistry to single-atom engineering
14:30 – 15:30	Lecture **Dr. Giorgio Zoppellaro** (Palacký Univesity in Olomouc, Czechia) – Single atom catalysts and catalytic processes probed via electron paramagnetic resonance technique
15:30 – 16:00	Coffee break

Monday, June 24 - continued

16:00 – 17:00	Consortium partners meeting: review of the current project status and planning for the second half
19:00	**Dinner for speakers**

Tuesday, June 25

9:00 – 10:00	Lecture **Prof. Gianfranco Pacchioni** (University of Milano-Bicocca, Italy) – Can we predict the properties of single-atom catalysts?
10:00 – 10:10	Coffee break (quick refreshment)
10:10 – 11:00	Lecture **Prof. Alberto Naldoni** (Palacký Univesity in Olomouc, Czechia) – Concentrating light at the nanoscale: fundamentals and application of plasmonic photocatalysts
11:00 – 12:00	**Dr. Emiliano Fonda** (Synchrotron SOLEIL, France) – Investigating structures at the local scale via X-ray absorption spectroscopy: applications to SAC
12:00 – 13:00	**Lunch**
13:00 – 14:00	Lecture **Dr. Phillip Szuromi** Science deputy editor– (Washington, DC, US, From remote)
14:00 – 15:00	Lecture **Dr. Nikolaos Floratos**, Research & Innovation coach, Horizon Europe (Atika, Greece) – Horizon Europe opportunities for renewable energy and catalysis and understanding its most important aspects (From remote)
15:00 – 15:30	Coffee break
15:30 – 16:30	Lecture **Prof. Matthias Beller** (Leibniz Institute for Catalysis, Germany) - Development of hydrogen storage technologies based on formic acid and formates (From remote)

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Tuesday, June 25 - continued

19:00	**Dinner for speakers**

Wednesday , June 26

9.00 – 10.00	Lecture **Dr. Yazhou Zhou** (Max Planck Institute for Polymer Research, Mainz, Germany) – Single-atom catalysts: simplicity and complexity (From remote)
10:00 – 10:30	Lecture **Dr. Eirini Ioannou** (Palacký Univesity in Olomouc, Czechia) – Time management for researchers (From remote)
10:30 – 11:00	Coffee break
11:00 – 11:20	Lecture **Dr. Hossein Hejazi** (Palacký Univesity in Olomouc, Czechia) - Redefining defect engineering in brookite TiO2: from single-atom hosts to optimized sites for oxygen evolution reactions
11:20 – 11:40	Lecture **Dr. Hayoon Jung** (Friedrich-Alexander-Universität Erlangen, Germany) - Photocatalytic nitrate reduction to ammonia by p-type TiO_2 nanotubes with quantum confinement and Pt single atom
11:40 – 12:00	Lecture **MSc. Gaia Castellani** (University of Trieste, Italy) – Carbon nitride supported single-atom photocatalysts for hydrogen evolution
12:00 – 12:20	Lecture **Dr. Mahdi Shahrezaei** (Palacký Univesity in Olomouc, Czechia) - Ultrasound-driven defect engineering in TiO2-x nanotubes for efficient platinum single atom photocatalysis
12:20 – 12:40	Lecture **MSc. Shanshan Quin** (Friedrich-Alexander-Universität Erlangen, Germany) - Photocatalytic H2 generation: controlled and optimized dispersion of single atom co-catalysts based on Pt-TCP
12:40 – 13:00	Closing – **Prof. Paolo Fornasiero**, **Prof. Štěpán Kment**
13:00 – 14:00	**Lunch**
14:00 – 16:00	Joint Ph.D. program design

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