

## PROGRAM

### Transition pathway toward sustainable fossil-free fuels and base chemicals a SUNERGY regional meeting

Thursday 14 September 9:30 – Friday 15 September 13:00  
Brdička Hall, J. Heyrovský Institute of Physical Chemistry (Czech Academy of Sciences),  
Dolejškova 3, Prague 8

#### Thursday 14 September

09:00 – 09:25 Registration

09:25 – 09:30 Opening (A. Vlček, M. Hof, J. Heyrovský Inst.)

09:30 – 09:50 V. Cílek (Geological Inst. CZ): Energy as a social force

09:50 – 10:20 J. Dědeček (J. Heyrovský Inst., CZ): Synthetic fuels as a part of energetics transformation

*10:20 – 10:40 Coffee break*

10:40 – 11:10 V.A. de la Peña O'Shea (IMDEA-ENERGÍA, Madrid, ES): New advances in solar fuels production

11:10 – 11:40 F. Chandezon (CEA Grenoble, SUNERGY Deputy Coordinator): SUNERGY/SUNER-C overview and future plans for a European large-scale research initiative

11:40 – 12:10 J. Kargul (University of Warsaw, PL): SUNERGY roadmap

12:10 – 12:30 P. Pracna (Technology Centre Prague, CZ) Opportunities of support to RDI from the Horizon Europe programme

*12:30 – 13:30 Break*

13:30 – 14:00 K. Bouzek (Univ. of Chemistry and Technology, Prague, CZ) Solid oxides steam-CO<sub>2</sub> co-electrolysis. From thermodynamics to the cell design

14:00 – 14:20 J. Plešek (Czech Academy of Sciences, CZ): "Strategy AV21" of the Czech Academy of Sciences and its energy aspects

14:20 – 14:40 V. Korittová (Technology Centre Prague, CZ): Horizon Europe programme and its partnerships under Cluster 5

14:40 – 15:00 F. Chandezon (CEA Grenoble, SUNERGY Deputy Coordinator): The AMPEA (materials) programme of the European Energy Research Alliance

*15:00 – 15:20 Coffee break*



- 15:20 – 15:40 A. Čornanič (ORLEN-Unipetrol, CZ): Decarbonization goals of ORLEN Unipetrol  
15:40 – 16:00 M. Lang (JRD Energo, CZ): Modernisation of the Czech energy sector - context and implications  
16:00 – 16:20 L. Gál (CO2 Czech Solution Group): Czech CCU research  
16:20 – 16:40 Y. Allahverdiyeva-Rinne (U. Turku, FI) Harnessing Photosynthetic Microbes for Sustainable Biocatalytic Chemical Production

### Friday, 15 September

- 09:00 – 09:30 M. Pospíšil (Univ. of Chemistry and Technology, Prague, CZ): Synthetic fuels  
09:30 – 10:00 S. Abermann (Austrian Inst. of Technology, AT): Photo-electrochemical Conversion Technologies  
10:00 – 10:30 P. Krtíl (J. Heyrovský Inst.): Challenges in water electrolysis  
*10:30 – 10:50 Coffee break*  
10:50 – 11:10 D. Sedmidubský (Univ. of Chemistry and Technology, Prague, CZ): Electronic structure and catalytic behavior of nanostructured 2D materials  
11:10 – 11:30 D. Rutkowska-Zbik (J. Haber Inst. of Catalysis and Surface Chem., PL): Gas phase conversion of furfural over Cu, Ni, and Cu-Ni systems  
11:30 – 11:50 J. Žitka (TailorMem, CZ): Ion exchange membranes  
11:50 – 12:20 I. Souček (Czech Chem. Ind. Assoc., CZ): View of chemical industry on renewable transition  
12:20 – 12:30 Final discussion and closing