02/06/2025		
Room Isola - RI		
10:00 – 10:20	OR19	Alixandre Magerat – Université catholique de Louvain (UCLouvain), IMCN, Louvain-la-Neuve (Belgium) *Keggin heteropolyanions: novel versatile deoxydehydration catalysts* Alixandre Magerat*, Sophie Hermans, Eric M. Gaigneaux Université catholique de Louvain (UCLouvain), Institute of Condensed Matter and Nanosciences (IMCN), Place Louis Pasteur, 1 – 1438 Louvain-la-Neuve, Belgium
10:20 – 10:40	OR20	Victor Longo – 1University of Messina, Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences and CASPE INSTM, Messina (Italy) *A new double dielectric barrier discharge (DDBD) reactor to prevent carbon deposition in plasma-assisted non-oxidative methane coupling* Victor Longo1*, Luana De Pasquale1, Siglinda Perathoner1, Gabriele Centi1, Chiara Genovese1 1University of Messina, Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences and CASPE INSTM, Viale F.S. D'Alcontres 31, Messina, Italy.
10:40 – 11:00	OR21	Maela Manzoli – University of Turin, Dept. of Drug Science and Technology and NIS, Turin (Italy) *Catalytic synthesis of adipic acid using biomass-derived raw materials* Maela Manzoli*1, Fabio Bucciol1, Sara Morandi2, Giancarlo Cravotto1, Svetlana Ivanova3 And Silvia Tabasso1 1University of Turin, Dept. of Drug Science and Technology and NIS Centre, Via P. Giuria 9, 10125, Turin, Italy. 2University of Turin, Dept. of Chemistry and NIS Centre, Via P. Giuria 7, 10125, Turin, Italy. 3University of Seville, Dept. of Inorganic Chemistry, Avda. Americo Vespucio 49, 41092, Seville, Spain
11:00 – 11:20	Coffee-Break	
11:20 – 11:40	OR22	Thomas Maschmeyer - The University of Sydney, Sydney (Australia) *Supercritical Water – Actions and Reactions During the Thermal Decomposition of Plastics* Jack Steel1, Taku Michael Aida2, Anthony F. Masters1, Alexander K.L. Yuen1, Thomas Maschmeyer*,1 1The University of Sydney, Laboratory of Advanced Catalysis for Sustainability, School of Chemistry, Sydney NSW 2006, Australia. 2 Fukuoka University, Department of Chemical Engineering, Faculty of Engineering, Nanakuma Jonan-ku, Fukuoka 814-0180, Japan
11:40 – 12:20	KN3	Angeliki Lemonidou – Aristotle University of Thessaloniki, Thessaloniki (Greece) *Upgrading of plastic pyrolysis oil model compounds over ZSM5-based catalysts: Effect of reactor type and operating variables* S-A. Andrianos1, P. Soldatos2, K. Triantafyllidis2, A.A. Lemonidou1* 1School of Chemical Engineering, 2School of Chemistry, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece
12:20 – 12:30	SO24	Giulia Forghieri – Università Ca' Foscari Venezia, Via Torino 155, Venezia *Doped-perovskites for the solar-powered photocatalytic valorisation of CO2* Giulia Forghieri a, Giorgia Ferraro a, Somayeh Taghavi b, Michela Signoretto a* a Università Ca' Foscari Venezia, Via Torino 155, Venezia b Faculty of Chemistry, University of Mazandaran, Babolsar 47416-95447, Iran
13:00 – 15:00	Lunch Break	
15:00 – 15:20	OR23	Marina Maddaloni – Department of Civil, Environmental, Architectural Engineering and Mathematics, University of Brescia, Brescia (Italy) *Green Hydrogen from Treated Wastewater via SOECs: A Pathway to Circular Economy and Renewable Energy Integration* Marina Maddaloni1, Matteo Marchionni3, Alessandro Abbá1, Michele Mascia3, Vittorio Tola3, Maria Paola Carpanese4, Giorgio Bertanza1 And Nancy Artioli1*

		1Department of Civil, Environmental, Architectural Engineering and Mathematics, University of Brescia, via Branze, 43, 25123 Brescia, Italy 2Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (INSTM), University of Brescia, via Branze 38, 25123 Brescia, Italy 3Department of Mechanical, Chemical and Materials Engineering, University of Cagliari, via Marengo 2, 09123 Cagliari, Italy 4Department of Civil, Chemical and Environmental Engineering, University of Genova (UNIGEDICCA), via Montallegro 1, 16145 Genoa, Italy
15:20 – 15:40	OR24	Maria Ortega-Jáuregui – Departamento de Ingeniería Química y Bioprocesos, Escuela de Ingeniería, Pontificia Universidad Católica de Chile, Macul, Santiago (Chile) *Ni exsolved nanoparticles from a La1-αNi1-xCrxO3 perovskite for Methane Steam Reforming* María A. Ortega-Jáuregui*1, 2, Deblina Majumder3, Evangelos I. Papaioannou3 Francisco García-García2, Elodie Blanco1, Néstor Escalona1 1 Departamento de Ingeniería Química y Bioprocesos, Escuela de Ingeniería, Pontificia Universidad Católica de Chile, Macul, Santiago, Chile. 2 Institute for Materials and Processes, School of Engineering, University of Edinburgh, Edinburgh, Scotland, United Kingdom. 3 Materials, Concepts & Reaction
15:40 – 16:00	OR25	Ida Ritacco – Dipartimento di Chimica e Biologia, Università degli Studi di Salerno, Fisciano, Salerno (Italy) *Tailoring catalytic activity of MoS2 catalyst through functionalization with Brønsted-acid ligands: A Computational and experimental study for enhanced Hydrogen Evolution Reaction in Alkaline Media* Ida Ritacco*,1, Giuseppe Santoriello1, Giulia Tuci2, Giuliano Giambastiani2, Matteo farnesi Camellone3, Lucia Caporaso1 1Dipartimento di Chimica e Biologia, Università degli Studi di Salerno, via Giovanni Paolo II 132, 84084 Fisciano, Salerno, Italy 2Institute of Chemistry of OrganoMetallic Compounds, ICCOM-CNR and Consorzio INSTM, Via Madonna del Piano, 10 - 50019, Sesto F.no, Florence, Italy. 3 Consiglio Nazionale delle Ricerche-Istituto Officina dei Materiali (CNR-IOM), 34136 Trieste, Italy
16:00 - 16:20	OR26	Wei Shi – Department of Materials Chemistry, Nagoya University, Furo-cho, Chikusa-ku, Nagoya (Japan) *Platinum-Tin Encapsulated Zeolite Catalysts with High Sn Loading: Boosted Performance in Methylcyclohexane Dehydrogenation* Wei Shi1, Akira Oda*,1, Yuta Yamamoto2, Kyoichi Sawabe1, Atsushi Satsuma1 1Department of Materials Chemistry, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, Japan. 2 Institute of Materials and Systems for Sustainability, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, Japan.
16:20 – 16:40	OR27	Amir Yazdani – University of Genoa, DICCA, Genoa (Italy) *Development of a new perovskite electrocatalyst for solid oxide cells with a novel symmetrical geometry* Amir Yazdani*1, Gabriella Garbarino1, Paola Riani2, Juan Basbus1, Maria Paola Carpanese1 1 University of Genoa, Department of Civil, Chemical and Environmental Engineering (DICCA), Via Opera Pia 15, 16145 Genoa, Italy. 2 University of Genoa, Department of Civil, Chemical and Environmental Engineering (DCCI), Via Dodecaneso 31, 16146 Genoa, Italy.
16:40 – 17:00	Coffee-Break	
		Short Orals
17:00 – 17:10	SO25	withdrawn
17:10 – 17:20	SO26	Andrea Fasolini – 1Dept. of Industrial Chemistry "Toso Montanari", University of Bologna, Bologna (Italy)

		Cellulose Aqueous Phase Reforming (APR) using Ni and PtNi based catalyst for hydrogen generation: the unexpected effect of reductive atmosphere Andrea Fasolini1, Jacopo De Maron1, Andreas Buono1, Eleonora Tosi Brandi1, Francesco Basile1, 1Dept. of Industrial Chemistry "Toso Montanari", University of Bologna, Bologna, Italy
17:20 – 17:30	SO27	Alberta Genco – Department of Engineering (DI), Viale delle Scienze, University of Palermo, Palermo (Italy) *TiO2 or Nb2O5 composites with graphene or graphene oxide as photocatalysts for Photoreforming of organics to obtain H2* Alberta Genco1,2*, Elisa I. García-López3, Narimene Aoun1, Bartolo Megna1, Conchi O. Ania4 , Giuseppe Marcì1 1Department of Engineering (DI), Viale delle Scienze, University of Palermo, Palermo, Italy 2Department of Chemistry, University of Perugia, Perugia, Italy 3Department of Chemistry (STEBICEF) University of Palermo, Italy 4POR2E Group, CEMHTI CNRS (UPR 3079), Université d'Orléans, 45071 Orléans, France
17:30 – 17:40	SO28	Sholpan Itkulova – D.V. Sokolsky Institute of Fuel, Catalysis, and Electrochemistry, Almaty (Kazakhstan) *Revealing the effect of Pd on Co-based catalysts in dry and bi-reforming of methane* Kuralay t. Tilegen1, 2, Sholpan S. Itkulova*1,2, Yerzhan A. Boleubayev1, Aidana K. Aitzhanova1, Makpal A. Zhumash1 1D.V. Sokolsky Institute of Fuel, Catalysis, and Electrochemistry, 142, Kunaev str., Almaty, 050010, Kazakhstan
17:40 – 17:50	SO29	Valeria La Parola – Institute for NanoStructured Materials, Italian National Research Council (ISMN-CNR), Palermo (Italy) *Hydrogen production by chemical looping methane pyrolysis* Luca Consentino1,2, Francesca Deganello2, Rut Guil-Lopez3, Valeria La Parola2*, Leonarda Francesca Liotta2, Giuseppe Pantaleo2 1 Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo, V.le delle Scienze Ed. 17, 90128 Palermo, Italy; 2 Institute for NanoStructured Materials, Italian National Research Council (ISMN-CNR), Via Ugo La Malfa 153, 90146 Palermo, Italy, 3 Instituto de Catálisis y Petroleoquímica, Spanish National Research Council (ICP-CSIC), 28049 Madrid, Spain
17:50 – 18:00	SO30	Alessia Marino – University of L'Aquila, Department of Physical and Chemical Sciences, L'Aquila (Italy) *Biomass-derived Activated Carbon for H2 storage: influence of solvent and doping agent on the adsorption properties* Alessia Marino1, Carlo Poselle Bonaventura2, Sara Sciarretta1, Giuseppe Conte2, Alfredo Aloise1, Chiara Pelosi3, Andrea Lazzarini1, Celia Duce3, Luca Bernazzani3, Alfonso Policicchio2, Marcello Crucianelli1 1 University of L'Aquila, Department of Physical and Chemical Sciences, via Vetoio, 67100, L'Aquila, Italy. 2 University of Calabria, Physics Department, Via Bucci, 87036, Rende, Cosenza, Italy. 3 University of Pisa, Department of Chemistry and industrial chemistry, Via Moruzzi, 56124, Pisa, Italy.

18:00 – 19:00 parallel to P1 session	ERC and projects session	**Room Isola - RI** 18:00-18:15 Nadine Vermorel, EU-ERC (Brussels, Belgium) *Funding opportunities for the ERC programme* 18:15:18:30 Štěpán Kment, Czech Adv. Techn. and Res.. Inst.(Olomouc, Czech Republic) *Presentation of the SUN4Fuel project* 18:30:18:45 Chiara Genovese, University of Messina (Italy) *Presentation of the ERC Synergy project SCOPE* 18:45:19:00 Rosalba Passalacqua, ERIC aisbl and UniME (Belgium, Italy) *Presentation of the EIC project GreenSwap*

03/06/2025		
Room Isole (RI)		
10:00 – 10:20	OR46	Raffaele Cheula – 1Aarhus University, Center for Interstellar Catalysis, Aarhus (Denmark) *Design of catalysts for CO2 hydrogenation with fine-tuned machine learning potentials* Raffaele Cheula1, Jonh Kitchin2, And Mie Andersen1* 1Aarhus University, Center for Interstellar Catalysis, 8000 Aarhus, Denmark. 2 Carnegie Mellon University, Department of Chemical Engineering, 15213 Pittsburgh (PA), USA.
10:20 – 10:40	OR47	Giovanni Di Liberto – Università degli Studi di Milano Bicocca, Department of Materials Science, Milano (Italy) *Modeling Single-Atom Catalysis* Giovanni Di Liberto1, Clara Saetta1, Elisabetta Inico1, Silvia Picello1, Gianfranco Pacchioni1 1Università degli Studi di Milano Bicocca, Department of Materials Science, Via Cozzi 55, Milano, Italy.
10:40 – 11:00	OR48	Shin Kihyun – Department of Materials Science and Engineering, Hanbat National University, Daejeon (Republic of Korea) *Beyond Linear Scaling: Innovations in Catalyst Optimization* Kihyun Shin1*, Hyun You Kim2, Kyubock Lee3 1Department of Materials Science and Engineering, Hanbat National University, Daejeon 34158, Republic of Korea 2Department of Materials Science and Engineering, Chungnam National University, Daejeon 34134, Republic of Korea 3Graduate School of Energy Science and Technology, Chungnam National University, Daejeon 34134, Republic of Korea
11:00 – 11:20	Coffee-Break	
11:20 – 12:00	KN6	Yuefeng Liu – Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian (China) *Generation of oxide surface patches promoting H-spillover in Ru/(TiOx)MnO catalysts enables CO2 reduction to CO* Hui Kang,1 Shiyan Li,1 Jun Ma,1 Xuxu Zhai,1 Siglinda Perathoner,2 Gabriele Centi,2 Yuefeng Liu *,1 1 Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China 2 Department of ChiBioFarAm, University of Messina, Messina 98166, Italy
12:00 – 12:20	OR49	Elena Groppo – Department of Chemistry, INSTM and NIS Centre, University of Torino, Torino (Italy) *CO-induced dynamic behavior of supported PGM nanoparticles in mild conditions* Alberto Ricchebuono,1 Elena Seminerio,1 Paolo Lazzarini,1 Eleonora Vottero,1 Daniele Bonavia,1,2,3 Riccardo Pellegrini,4 Valentina Crocellà,1 Natale Gabriele Porcaro1 Stefano Checchia,3 Davide Ferri,4 Andrea Piovano,5 Elena Groppo1

		1 Department of Chemistry, INSTM and NIS Centre, University of Torino, via Quarello 15A, Torino, I-10135, Italy 2 ESRF-The European Synchrotron, 71 avenue des Martyrs, Grenoble, 38000, France 3 Paul Scherrer Institut, Forschungsstrasse 111, 5232 Villigen PSI (Switzerland)5 4 Chimet SpA - Catalyst Division, Viciomaggio (Arezzo), I-52041, Italy 5 Institut Laue-Langevin (ILL), 71 avenue des Martyrs, Grenoble, 38000, France
		Short Orals
12:20 – 12:30	SO51	Alessandra Beretta – Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, POILIMI, Milano (Italy) *A multiscale study of CH4 pyrolysis over Fe-Al2O3 catalyst: the challenge of C build-up for the kinetic and the reactor studies* Marco Orsenigo1, Davide Cafaro1, Veronica Piazza1, Chiara Negri1, Lidia Castoldi1, Gianpiero Groppi1, Matteo Maestri1, Alessandra Beretta*,1 1Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, Via La Masa, 34 – 20156 Milano, Italy.
12:30 – 12:40	SO52	Elisabetta Inico – Università degli Studi di Milano-Bicocca, Dipartimento di Scienza dei Materiali, Milano (Italy) *Combining ab-initio thermodynamics and kinetics toward the Oxygen Evolution and Reduction Mechanism on a Dual Atom Catalyst* Elisabetta Inico1, Giovanni Di Liberto1, Gianfranco Pacchioni1 1Università degli Studi di Milano-Bicocca, Dipartimento di Scienza dei Materiali, Via R. Cozzi 55, 20125 Milano, Italy
12:40 – 12:50	SO53	Luca Mastrianni – Università di Napoli 'Federico II', Chemical Sciences, Napoli (Italy) *DLP 3D printing of catalyst architectures: from material preparation to mathematical modeling of structure effects on catalyst performance* Luca Mastroianni*1,2, Ananias Medina2, Anna De Domenico1,2, Kari Eränen2, Martino Di Serio1, Dmitry Murzin2, Vincenzo Russo1,2, Tapio Salmi1,2 1Università di Napoli 'Federico II', Chemical Sciences, IT-80125 Napoli, Italy 2Åbo Akademi, Laboratory of Industrial Chemistry and Reaction Engineering (TKR), FI-20500 Turku/Åbo, Finland
14:50 – 13:00	SO54	Mauro Bacconi – POLIMI, Laboratory of Catalysis and Catalytic Processes, Department of Energy, Milano (Italy) *Hierarchical multiscale analysis of CO2 electroreduction at high current densities: The onset of transport limitations* Kaustav Niyogi, Mauro Bracconi, Matteo Maestri* Politecnico di Milano, Laboratory of Catalysis and Catalytic Processes, Department of Energy, Via La Masa 34, Milano 20156, Italy
13:00 – 14:55	Lunch Break	
14:55 – 15:00	INTRO	Premio "Pio Forzatti" Alessandra Beretta - Introduction
15:00 – 15:20	OR50	Daria Gashnikova – Karlsruhe Institute of Technology, Institute for Chemical Technology and Polymer Chemistry, Karlsruhe (Germany) *Confining Pd on CeO2 nano-islands for more efficient oxidation catalysts* Daria Gashnikova1, Florian Maurer1, Maria Casapu1, Jan-Dierk Grunwaldt1,2* 1 Karlsruhe Institute of Technology, Institute for Chemical Technology and Polymer Chemistry, Karlsruhe, Germany. 2 Karlsruhe Institute of Technology, Institute of Catalysis Research and Technology, Karlsruhe, Germany.
15:20 – 15:40	OR51	Running Kang – State Key Laboratory of High-Temperature Gas Dynamics, Institute of Mechanics, Chinese Academy of Sciences, Beijing (China) *Investigation on structure-activity relationship and reaction pathways of CuO/CeO2 catalysts for NH3 self-sustained combustion* Running Kang1, Mingxia Yang1,2, Zirui Zhang1, Chenhang Zhang1,3, Xiaokun Yi1, Feng Bin*1, Xiaolin Wei1 1State Key Laboratory of High-Temperature Gas Dynamics, Institute of Mechanics, Chinese Academy of Sciences, Beijing 100190, PR China.

		2 School of Chemistry and Chemical Engineering, Guangxi University, Nanning 530004, PR China. 3 Key Laboratory of Beijing on Regional Air Pollution Control, Faculty of Environment and Life, Beijing University of Technology, Beijing 100124, PR China
15:40 – 16:00	OR52	Patrick Lott –KIT, Institute for Chemical Technology and Polymer Chemistry, Karlsruhe (Germany) *Forced dynamic reactor operation for boosting the activity and selectivity of Pd-based ammonia oxidation catalysts* Camilo Cárdenas1, Thomas Häber2, Olaf Deutschmann1,2, Patrick Lott*1 1Karlsruhe Institute of Technology (KIT), Institute for Chemical Technology and Polymer Chemistry, Engesserstr. 20, 76131, Karlsruhe, Germany. 2Karlsruhe Institute of Technology (KIT), Institute of Catalysis Research and Technology (IKFT), Hermann-von-Helmholtz-Platz 1, 76344, Eggenstein-Leopoldshafen, Germany.
16:00 – 16:20	OR53	Dieter Plessers – KU Leuven, Center for Sustainable Catalysis and Engineering, Leuven (Belgium) *Spectroscopic Investigation of the Role of Water in Copper Zeolite Methane Oxidation* Dieter plessers*,1, alexander j. Heyer2, jing ma1, augustin braun2, hannah m. Rhoda2, max l. Bols1, robert a. Schoonheydt1, edward i. Solomon2, bert f. Sels1 1KU Leuven, Center for Sustainable Catalysis and Engineering, Celestijnenlaan 200F, Leuven, Belgium. 2 Stanford University, Department of Chemistry, 337 Campus Drive, Stanford, U.S.A.
16:20 – 16:40	OR54	Yulong Shan – Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing (China) *Aluminum-rich small-pore Cu-zeolites applied for NH3-SCR of NOx* Yulong Shan*, Guangzhi He, Wenpo Shan, Yunbo Yu, Hong He 1Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, 18 Shuangqing Road, Haidian District, Beijing, 100085, China.
16:40 – 17:00	Coffee-Break	
		Short Orals
17:00 – 17:10	SO55	Christoph Hahn – Institute of Energy Process Engineering and Chemical Engineering, Chair of Reaction Engineering, TU Freiberg, Freiberg (Germany) *Modelling the combined HCHO/SCR reaction on V2O5/WO3/TiO2 catalyst in lean gas engine exhaust* Christoph HAHN1, Sven KURETI1,* Institute of Energy Process Engineering and Chemical Engineering, Chair of Reaction Engineering, TU Freiberg, Fuchsmuehlenweg 9D, 09599 Freiberg, Germany
17:10 – 17:20	SO56	Ilyas Yousuf Mir – Indian Institute of Technology Delhi, Department of Chemical Engineering, Hauz Khas, New Delhi (India) *Microkinetic modelling of a Pd-based three-way catalyst for stoichiometric natural gas vehicles* Ilyas Yousuf Mir1, Divesh Bhatia*,1 1Indian Institute of Technology Delhi, Department of Chemical Engineering, Hauz Khas, New Delhi 110016, India
17:20 – 17:30	SO57	Yuki Inoda – Department of Applied Chemistry, Waseda University, Shinjuku, Tokyo (Japan) *NOx storage and reduction system with an electric field at low temperature* Yuki Inoda1, Ayaka Shigemoto1, Chihiro Ukai1, Takuma Higo1, Kohei Oka2, Yasushi Sekine*,1 1 Department of Applied Chemistry, Waseda University, 3-4-1, Okubo, Shinjuku, Tokyo, 169-8555, Japan. 2 Isuzu Central Research Center, Fujisawa, Kanagawa, Japan.
17:30 – 17:40	SO58	Enrico Sartoretti – POLITO, Dept. of Applied Science and Technology, Turin (Italy) *Pd-ceria catalysts for complete CH4 oxidation: influence of Pr-doping on sulfur resistance*

		Enrico Sartoretti*,1, Eleonora Calì1, Chiara Novara1, Nunzio Russo1, Debora Fino1, Samir Bensaid1 1Politecnico di Torino, Dept. of Applied Science and Technology, C.so Duca degli Abruzzi 24, Turin, Italy.
17:40 – 17:50	SO59	Jieling Shao – Chemistry and Chemical Engineering, Competence Centre of Catalysis, Chalmers University of Technology, Gothenburg (Sweden) *Pd speciation and support effect for H2 SCR* Jieling Shao1, Zhipeng Wang,2 Phuoc Hoang Ho1, Yifei Ren2, Derek Creaser1, Feng Wang2 and Louise Olsson1 1Chemistry and Chemical Engineering, Competence Centre of Catalysis, Chalmers University of Technology, Gothenburg S041296, Sweden. 2 Department of Chemical Engineering, University College London, London WC1E 7JE, United Kingdom
17:50 – 18:00	SO60	Shivangi Singh – Department of Physics and Competence Centre for Catalysis, Chalmers University of Technology, Göteborg (Sweden) *Water Inhibition of NH3-SCR over Cu-CHA: Measurements and DFT-based kinetic modeling* Shivangi Singh,a,b Yingxin Fenga, Ton V. W. Janssensb, and Henrik Grönbecka A Department of Physics and Competence Centre for Catalysis, Chalmers University of Technology, SE-412 96 Göteborg, Sweden B Umicore Denmark ApS, DK-2970 Hørsholm, Denmark
18:00 – 18:30	Special Guest Lecture	**Room Isola - RI** Michael Stockenhuber *The Nexus between Understanding Redox Catalysts and Process Development for Environmental Applications.* Michael Stockenhuber, Luke Harvey, Matthew Drewery, Eric Kennedy University of Newcastle and UTS University - Sidney, Australia
18:30 – 19:00	Exhibitors session	**Room Isola - RI** 18:30-18:45 Labtech: Innovation, Technology, your solution! (M. Musetti) 18.45-19:00 Verder Sci. (S. Tieuli)

04/06/2025		
Room ISOLA - RI		
10:00 – 10:20	OR79	Guillaume Aubert – CP2M, University of Lyon1, CPE - CNRS, Villeurbanne (France) *Experimental and modeling of Sorption-Enhancement Reaction Process with in-situ water removal for a methanol production from CO_2* Enrico Antonuccio, David Edouard, Frédéric Bornette, Guillaume Aubert, Pascal Fongarland* 1CP2M, University of Lyon1, CPE - CNRS, 3 Rue Victor Grignard 69100 Villeurbanne, France
10:20 – 10:40	OR80	Juan Jose Villora Pico – School of Chemistry and Chemical Engineering, Queen's University Belfast, Belfast (UK) Enhanced CO_2 Hydrogenation to Hydrocarbons via SIL-Modified Fe-Ru/Al_2O_3 Catalysts: Tailoring Activity and Selectivity Through Support Engineering Juan José Villora-Picó1, Marina Maddaloni2, Ander Centeno-Pedrazo1, Jillian Thompson1, Chunfei Wu1, Nancy Artioli2,*, and Haresh Manyar1,* 1 School of Chemistry and Chemical Engineering, Queen's University Belfast, David-Keir Building, Stranmillis Road, Belfast, BT9 5AG, UK; 2 CEEP Laboratory, Department of Civil Engineering, Architecture, Territory, Environment and Mathematics, University of Brescia, via Branze 38, 25123 Brescia, Italy
10:40 – 11:00	OR81	Samir Bensaid – POLITO, Dept. of Applied Science and Technology, Turin (Italy) *Effect of pre-treatment conditions on Fe-based catalyst for e-fuel production via modified Fischer-Tropsch synthesis*

		Alessio Tauro1, Fabio Salomone1, Fabrizio Celoria1, Marco Armandi1, Luca Nodari2, Luca Romagnoletti3, Emanuele Felli4, Raffaele Pirone1, Samir Bensaid1,* 1 Polytechnic of Turin, Dept. of Applied Science and Technology, Corso Duca degli Abruzzi 24, 10129 Turin, Italy. 2 Istituto di Chimica della Materia Condensata e di Tecnologie per l'Energia (ICMATE), Consiglio Nazionale delle Ricerche (CNR), C.so Stati Uniti 4, 35127 Padova, Italy. 3 API Raffineria di Ancona S.p.A., Via Flaminia 685, 60015 Falconara Marittima (AN), Italy. 4 Italiana Petroli S.p.A., Via Salaria 1322, 00138 Roma, Italy.
11:00 – 11:20	Coffee-Break	
11:20 – 11:40	OR82	Claudio Contreras Diaz – Pontificia Universidad Católica de Chile, Departamento de Ingeniería Química y Bioprocesos, Escuela de Ingeniería, Santiago (Chile) *Improving Nickel Catalyst Dispersion on Phenol Hydrodeoxygenation by Amine-Assisted Impregnation* Claudio Contreras-Díaz1,2*, Cesar Pazo-Carballo3, Claudio Araya-Lopez1,2, C. Sepulveda4 and Néstor Escalona1,2,3** 1Pontificia Universidad Católica de Chile, Departamento de Ingeniería Química y Bioprocesos, Escuela de Ingeniería, Santiago, Chile. 2Núcleo Milenio en Procesos Catalíticos hacia la Química Sustentable, Santiago, Chile. 3Pontificia Universidad Católica de Chile, Departamento de Química Física, Facultad de Química y Farmacia, Santiago, Chile. 4Universidad de Concepción, Facultad de Ciencias Químicas, Edmundo Larenas 129, Concepción, Chile.
11:40 – 12:00	OR83	Bezawit Zerihun Desalegn – Hanyang University, Department of Chemical Engineering, Seoul (South Korea) *Tuning Multifunctionality for the Co-production of H2, Carboxylic Acids and Electricity in a Multi-purpose Biomass-Fuel Cell* Bezawit Z. Desalegn, and Jeong Gil Seo* Hanyang University, Department of Chemical Engineering, 04763, Seoul, South Korea. Hanyang University, Clean-Energy Research Institute, 04763, Seoul, South Korea.
12:00 – 12:20	OR84	Valérie Meille – IRCELYON, CNRS, UCBL, Villeurbanne (France) *Hydrogen release from perhydrobenzyltoluene: role of the catalyst support* Nataliia Marchenko, Mohamad Kharma, Franck Morfin, Laurent Piccolo, Nuno Rocha Batalha, Valérie Meille * IRCELYON, CNRS, UCBL, 69100 Villeurbanne, France.
12:20 – 13:00	KN9	Andrzej Adamski – Jagiellonian University, Faculty of Chemistry, Kraków (Poland) *Cenosphere-based catalysts active in selected heterogeneous pro-environmental redox reactions* Paweł Rybowicz1, Yana Vitushynska1, Allison Proszowska1,2, Tomasz Polczyk1, Bogdan Samojeden3, Agata Łamacz4, Monika Motak3, Marek Michalik4, Andrzej Adamski*,1 1 Jagiellonian University, Faculty of Chemistry, Gronostajowa 2, 30-387 Kraków, Poland. 2 Jagiellonian University, Faculty of Biology, Gronostajowa 7, 30-387 Kraków, Poland. 3 AGH University of Krakow, Faculty of Energy and Fuels, Mickiewicza Ave. 30, 30-059 Kraków, Poland. 4 Wroclaw University of Technology, Faculty of Chemistry, Gdanska 7/9, 50-344 Wroclaw, Poland.
13:00 – 15:00	Lunch break	
		Short Orals
15:00 – 15:10	SO81	Chiara Aliotta – CNR, ISMN, Palermo (Italy) *Low-critical elements perovskite oxides for clean energy production and CO2 conversion* Chiara Aliotta*1, Francesca Deganello1, Valeria La Parola1, Laura Valentino1, Eleonora La Greca1 and Leonarda Francesca Liotta1 1 CNR, ISMN, Via Ugo La Malfa 153, 90146-Palermo, Italy
15:10 – 15:20	SO82	Luca Cosentino – ISMN-CNR, Palermo (Italy) *Ni-La Perovskite Catalysts for CO_2 Methanation: Uncovering the Structure-Function Correlation*

		Luca Consentino*,1,2, Miriam González-Castaño3, Luis F. Bobadilla3, Michelangelo Gruttadauria2, Leonarda Francesca Liotta1, José Antonio Odriozola3 1 ISMN-CNR, Via U. La Malfa 153, 900146 Palermo, Italy 2 STEBICEF Department Ed. 17, University of Palermo, Viale delle Scienze, 90128 Palermo, Italy 3 Department of Inorganic Chemistry, University of Seville (ICMS-CSIC), C/Americo Vespucio 49, 41092 Seville, Spain
15:20 – 15:30	SO83	Sven Kureti – Institute of Energy Process Engineering and Chemical Engineering, Chair of Reaction Engineering, TU Freiberg, Freiberg (Germany) *Transient isotopic study of low-temperature NOx reduction by H2 on Pt/Mo/ZrO2 catalyst* Daniel Schröder1, Sven Kureti1,* 1Institute of Energy Process Engineering and Chemical Engineering, Chair of Reaction Engineering, TU Freiberg, Fuchsmuehlenweg 9D, 09599 Freiberg, Germany
15:30 – 15:40	SO84	Andrea Felli – Politechnical Department, University of Udine, Udine (Italy) *A Parametric Study on Ru-CeO2 Catalysts for H2 Production from NH3 Decomposition* Andrea FELLI1, Maila DANIELIS1, Alessandro TROVARELLI1, Sara COLUSSI1 1Politechnical Department, University of Udine, Via del Cotonificio 108, 33100, Udine, IT
		Orals
15:40 – 16:00	OR85	Izabela Kurzydym – Faculty of Chemistry, Biological and Chemical Research Centre, University of Warsaw, Warszaw (Poland) *Overview of ZSM-5, CLI, and FAU catalysts with metallic dimers (Cu, Fe, Zn) and their sensitivity to poisoning by sulfur dioxide (SO2) in the DeNOx process.* Izabela Kurzydym*1, Izabela Czekaj2 1Faculty of Chemistry, Biological and Chemical Research Centre, University of Warsaw, ul. Żwirki i Wigury 101, 02-089 Warszaw, Poland 2Department of Organic Chemistry and Technology, Faculty of Chemical Engineering and Technology, Cracow University of Technology, Warszawska 24, 31-155 Cracow, Poland
16:00 – 16:20	OR86	Jean-François Lamonier – Unité de Catalyse et Chimie du Solide (UCCS), Univ. Lille, CNRS, Centrale Lille, Univ. Artois, Lille (France) *Promoting the efficient oxidation of toluene via non-thermal plasma-assisted synthesis of supported cobalt oxide catalysts* Victor Deboos1,2, Savita Kaliya Perumal Veerapandian2, Eliane Ghossein1,2, Jean-Marc Giraudon1, Rino Morent2, Nathalie De Geyter2, Jean-François Lamonier*,1 1Unité de Catalyse et Chimie du Solide (UCCS), Univ. Lille, CNRS, Centrale Lille, Univ. Artois, 59000 Lille, France 2 Unit Plasma Technology (RUPT), Department of Applied Physics Faculty of Engineering and Architecture, Ghent University, 9000 Ghent, Belgium
16:20 – 16:40	OR87	Luciana Lisi – Istituto di Scienze e Tecnologie per l'Energia e la Mobilità Sostenibili (STEMS) – CNR, Napoli (Italy) *NOx emission control by H2-SCR over Pt-ZSM5 catalyst in mobile applications* Elisabetta M. Cepollaro1, Stefano Cimino1, Michele E. Fortunato1, Luciana Lisi*,1 1Istituto di Scienze e Tecnologie per l'Energia e la Mobilità Sostenibili (STEMS) – CNR, P.le Tecchio 80 – 80125 Napoli, Italy
16:40 – 17:00	Coffee-Break	
17:00 - 17:20	OR88	Francesco Montanari – University of Florence, Department of Chemistry "Ugo Schiff", Sesto Fiorentino (Italy) *Effective upcycling of Pd(II) waste into an atomically precise Pd(II)-based catalyst for alkaline fuel cells applications* Francesco Montanari*1, Marco Bonechi1,2, Carlotta Cappanni1, Pietro Gentilesca1, Matteo Savastano2,3, Mirko Severi1, Antonio Bianchi1,2, Massimo Innocenti1,2 1University of Florence, Department of Chemistry "Ugo Schiff", Via della Lastruccia 3-13, 50019 Sesto Fiorentino, Italy. 2 National Interuniversity Consortium of Material Science and Technology (INSTM), via G.Giusti 9, 50121, Italy.

		3University San Raffaele Roma, Department of Human Sciences for the Promotion of Quality of Life, Via di Val Cannuta 247, 00166 Rome, Italy.
17:20 – 17:40	OR89	Tofik Nagiev – Nagiev Institute of Catalysis and Inorganic Chemistry of Ministry of Science and Education, Baku (Azerbaijan) *Gas-phase selective dehydrodimerization of 3-picoline In the coherent synchronization mode* Nagieva I.T.2, Malikova N.N.1, Ali-zadeh N.I.1, Nagiev T.M.1 1Nagiev Institute of Catalysis and Inorganic Chemistry of Ministry of Science and Education, Baku, Azerbaijan; 2Baku State University, Baku, Azerbaijan
17:40 – 18:00	OR90	Ying Zheng – Western University, Dept. of Chemical and Biochemical Engineering London, Ontario (Canada) *Plasma-Driven Modulation of Metal-Organic Frameworks for CO2 hydrogenation* Nan Zou, Ying Zheng* Western University, Dept. of Chemical and Biochemical Engineering London, Ontario, Canada
		Short Orals
18:00 – 18:10	SO85	Bernardo Patella – University of Palermo, Department of Engineering, Palermo, (Italy) *Fabrication of thermally annealed NiFeS ternary alloy for green hydrogen production* Bernardo Patella1, Salvatore Geraci1, Roberto Luigi Oliveri1, Nadia Moukri1, Giuseppe Aiello1, Filippo Pellitteri1, Cinzia Muriana1, Rosario Miceli1, Rosalinda Inguanta1 1University of Palermo, Department of Engineering, Viale delle Scienze, Palermo, Italy
18:10 – 18:20	SO86	Marta Stucchi – University of Milano, Chemistry Department, Milano (Italy) *Innovative materials for CO2 capture and conversion to e-fuels* Marta Stucchi*,1, Valentina Colombo1, Alessia Colombo1, Alberto Vertova1, Claudio Ampelli2, Siglinda Perathoner1. 1University of Milano, Chemistry Department, Via Golgi 19, 20133 Milano, Italy. 2 University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, Viale Ferdinando Stagno d'Alcontres 31, 98166 Messina, Italy.
18:20 – 18:30	SO87	Fabio Salomone – University of Calabria, Dept. of Environmental Engineering, Rende (Italy) *Hierarchical zeolites for methanol and dimethyl ether dehydration into light olefins* Emanuele Giglio*,1, Giorgia Ferrarelli1, Fabio Salomone2, Elena Corrao3, Raffaele Pirone2, Samir Bensaid2, Massimo Migliori1, Girolamo Giordano1 1 University of Calabria, Dept. of Environmental Engineering, Via Pietro Bucci 45A, 87036 Rende (CS), Italy. 2 Polytechnic of Turin, Dept. of Applied Science and Technology, Corso Duca degli Abruzzi 24, 10129 Turin, Italy. 3 University of Turin, Dept. of Chemistry, Via Pietro Giuria 7, 10125 Turin, Italy.
18:30 – 18:40	SO88	Shigeo Satokawa – Seikei University, Faculty of Science and Technology, Tokyo (Japan) *CO2 hydrogenation activity over iron carbide catalysts having different crystal structures derived from iron oxalate* Akihide Yanagita, Daisuke Komizu, Haruki Horikoshi, Keigo Tashiro, Shigeo Satokawa* Seikei University, Faculty of Science and Technology, 3-3-1 Kichijoji-kitamachi, Musashino-shi, Tokyo 180-8633, Japan.
18:40 – 18:50	SO89	Shaohua She – Graduate School of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology, Tokyo (Japan) *Effect of Sulfonation Conditions on Performance of Sulfonated Lignin-Based Porous Carbon Catalyst* Shaohua She1, Shunpei Takada1, Kenji Kamiya1, Eika W. Qian*,1 1Graduate School of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology, 2-24-16 Nakacho, Koganei, Tokyo 184-8588, Japan
18:50 – 19:00	SO90	Michela Signoretto – Ca' Foscari University, Department of Molecular Sciences and Nanosystems, Venice (Italy) *Hydrodeoxygenation of isoeugenol catalyzed by Co/biochar catalyst* Lilia Longo*1, Davide Baldassin1, Päivi Mäki-Arvela2, Joan Wärnå2, Mark E. Martinez Klimov2, Olha Yevdokimova2, Kari Eränen2, Dmitry Y. Murzin2, Michela Signoretto1.

		1 Ca' Foscari University, Department of Molecular Sciences and Nanosystems, Venice, Italy. 2Åbo Akademi University, Johan Gadolin Process Chemistry Centre, Henriksgatan 2, 20500 Turku/Åbo, Finland

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Room Isola - RI		
09:40 – 10:00	OR111	Matthew Drewery – University of Newcastle, Chemical Engineering, University Drive, Callaghan (Australia) *Implementation of Catalytic Technologies for Mitigation of Humid, Lean Methane Exhaust Streams; Technological Hurdles for Industrial Implementation* Matthew Drewery*1, Matthew Bligh1, Ryan Noon1, Luke Harvey1, Martin Hartmann2, Wilhelm Schwieger2, Eric M Kennedy1, Michael Stockenhuber1 1University of Newcastle, Chemical Engineering, University Drive, Callaghan, Australia. 2Friedrich Alexander Universität, Chemical and Bioengineering, Egerlandstr, Erlangen, Germany.
10:00 – 10:20	OR112	William Epling – University of Virginia, Charlottesville, VA, USA *Impact of NO2 on Sulfur Poisoning of Cu-SSZ-13 Catalysts* Afrina Zaman Shoronika1, Poonam Rani1, Rohil Daya2, and William Epling1* 1University of Virginia, Charlottesville, VA, USA 2Cummins Inc., Columbus, IN, USA
10:20 – 10:40	OR113	Nadia Grifasi – POLITO, Department of Applied Science and Technology, Turin (Italy) *Synergistic effect between manganese and copper oxides in boosting low-temperature catalytic oxidation of indoor pollutants* Nadia Grifasi, Giorgio Demichelis, Samir Bensaid, Nunzio Russo, Debora Fino, Marco Piumetti* Polytechnic of Turin, Department of Applied Science and Technology, Corso Duca Degli Abruzzi, 24, 10129, Turin, Italy
10:40 – 11:00	OR114	Richard Knopp – University of Chemistry and Technology, Dept. of Chemical Engineering, Technická 5, Prague (Czech Republic) *Kinetics of site transformations in Pd/AEI zeolite for NOx adsorption* Petr Kočí*,1, Tetyana Zheleznyak1, Richard Knopp1, Maria Pia Ruggeri2, Djamela Bounechada2, Andrew P.E. York2 1University of Chemistry and Technology, Dept. of Chemical Engineering, Technická 5, Prague, Czech Republic. 2Johnson Matthey Technology Centre, Blounts Court Road, Sonning Common, Reading, UK.
11:00 – 11:20	Coffee-Break	
		Short Orals
11:20 – 11.30	SO119	Luana De Pasquale – University of Messina, Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences, Messina (Italy) *Magnetic ferrite-based materials for hydrogen generation via water photo-electrolysis* Daniele Valenzisi1, Falak Shafiq1, Luana De Pasquale*,2, Tatiana Rodriguez-Flores1, Roberto Nistico'1, Matteo Cantoni3, Marco Montalbano4, Maria Vittoria Dozzi4, Mery Malandrino5, Maria Cristina Paganini5, Chiara Genovese2 1University of Milano-Bicocca, Dept. of Materials Science, Via R. Cozzi 55, Milano, Italy. 2University of Messina, Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences, Viale F.S. D'Alcontres 31, Messina, Italy. 3Politecnico di Milano, Dept. of Physics, Via G. Colombo 81, Milano, Italy. 4University of Milano, Dept. of Chemistry, Via C. Golgi 19, Milano, Italy. 5University of Torino, Dept. of Chemistry and NIS Centre, Via P. Giuria 7, Torino, Italy.
11:30 – 11:40	SO120	moved to SO64
11:40 – 11:50	SO121	Kamila Sobańska – Faculty of Chemistry, Jagiellonian University, Kraków (Poland)

		Electroprotic reactions of hydrogen peroxide at the interface of aqueous solution and the surface of amorphous oxide ZrO2, Nb2O5, HfO2, Ta2O5 gels – relevance for advanced oxidation processes Kamila Sobańska,*,1 Łukasz Wolski,2 Piotr Pietrzyk1 1Jagiellonian University, Faculty of Chemistry, Gronostajowa 2, 30-387 Krakow, Poland. 2Adam Mickiewicz University, Faculty of Chemistry, Uniwersytetu Poznańskiego 8, 61-614 Poznań, Poland.
11:50 – 12:00	SO122	Jiaqiang Wang – Yunnan Provincial Center of Technology Innovation for New Materials and Equipment in Water Pollution Control, Yunnan University, Kunming (China) *The challenge of large-scale application of biomimetic photocatalytic water treatment* Jiaqiang Wang*, Yi Zhao, Die Zou, Han Zhang, Chenjie Duan Yunnan Provincial Center of Technology Innovation for New Materials and Equipment in Water Pollution Control, School of Materials and Energy, School of Chemical Sciences & Technology, Yunnan Province Engineering Research Center of Photocatalytic Treatment of Industrial Wastewater, Yunnan University, Kunming, 650091, P. R. China
		Orals
12:00 – 12:20	OR115	Francesco Tavella – ChiBioFarAm – University of Messina, ERIC aisbl and CASPE/INSTM, Messina (Italy) *A novel gas-phase approach to control selectivity in ethanol photo-oxidation on metal-doped TiO2/Ti gauze photoanodes* Francesco Tavella*,1, Luana De Pasquale 1, Siglinda Perathoner1, Gabriele Centi1, Chiara Genovese1, Claudio Ampelli1 1 Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm) – University of Messina, ERIC aisbl and CASPE/INSTM, V.le F.Stagno d'Alcontres, 31 – 98166 Messina, Italy.
12:20 – 12:40	OR116	Jenny Grazia Vitillo – Department of Science and High Technology and INSTM, Università degli Studi dell'Insubria, Como (Italy) *Two In, One Out: Molecular Architectures for Efficient Photon Upconversion* Soumitra Manna1, Francesca S. Freyria2, Barbara Bonelli2, Jenny G. Vitillo*,1 1 Department of Science and High Technology and INSTM, Università degli Studi dell'Insubria, Via Valleggio 9, I-22100 Como, Italy. 2 Department of Applied Science and Technology and INSTM-Unit of Torino Politecnico, Corso Duca degli Abruzzi 24, Politecnico di Torino,10129 Torino, Italy.
12:40 – 13:00	OR117	Łukasz Cichocki – Gdańsk University of Technology, Department of Sanitary Engineering, Gdańsk (Poland) *Catalytical degradation of haloacetic acids (HAA) in H2/CO2/Xe-UV system – Advanced Reduction Process (ARP) for wastewater treatment* Łukasz Cichocki*, Grzegorz Boczkaj Gdańsk University of Technology, Department of Sanitary Engineering, St. Narutowicza 11/12, 80-233 Gdańsk, Poland.
13:00 – 15.00	Lunch Break	
15.00 – 15:20	OR125	Muhammad Sabir – University of Messina, ChiBioFarAm, Messina (Italy) Novel APPJ-thermal hybrid system for methane decomposition Francesco Pio Abramo*1, Muhammed Sabir1, Palmarita Demoro1, Siglinda Perathoner, Gabriele Centi1, Ruben Bartali2, Alireza Ganjovi2, Salvatore Abate1 1University of Messina, Department of ChiBioFarAm (Industrial Chemistry), V.le F. Stagno d'Alcontres, Messina, Italy. 2Fondazione Bruno Kessler, Via Sommarive 18, Trento, Italy.
		Short Orals
15:20 – 15:30	SO126	Kazuki Shun – Division of Materials and Manufacturing Science, Graduate School of Engineering, Osaka University, Osaka (Japan) *Hydrogen spillover on a non-reducible metal oxide comprising earth-abundant elements and its catalysis* Kazuki Shun1, Kohsuke Mori*,1, Takumi Kidawara1, Hiromi Yamashita1 1 Division of Materials and Manufacturing Science, Graduate School of Engineering, Osaka University, 2-1 Yamadaoka Suita Osaka 565-0871, Japan

15:30 – 15:40	SO127	Hirohisa Tanaka – Kwansei Gakuin University, 1 Gakuen-Uegahara, Sanda, Hyogo 669-1330, Japan *STACY: International collaboration towards liquefied hydrogen safety* Hirohisa Tanaka*, 1, Ernst Arndt Reinecke2, Nabiha Chaumeix3, Ahmed Bentaib4, Daiju Matsumura5, Masashi Taniguchi6, Shannon Krenz2, Tomohito Nakayama1, Shinya Uegaki1, Itsuki Jinjo1, Seita Kurono1 1 Kwansei Gakuin University, 1 Gakuen-Uegahara, Sanda, Hyogo 669-1330, Japan 2 Forschungszentrum Jülich GmbH (FZJ), 52425 Jülich, Germany 3 Centre National de la Recherche Scientifique (CNRS), Orléans, France. 4 Institut de Radioprotection et de Sûreté Nucléaire (IRSN), Fontenay-aux-Roses, France. 5 Japan Atomic Energy Agency, SPring-8, 1-1-1 Koto, Sayo, Hyogo 679-5148, Japan 6 Daihatsu Motor Co., Ltd., 21-1 Momozono, Ikeda, Osaka 563-8651 Japan
15:40 – 15:50	SO128	Piercosimo Vedele – POLITO, Turin (Italy) *Deactivation and kinetic models of catalytic methane pyrolysis over Fe/Al2O3 catalysts for a fluidized bed reactor integrated system* Piercosimo Vedele1*, Enrico Sartoretti1, Fabio Salomone1, Massimiliano Antonini2, Samir Bensaid1 1Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129, Turin, Italy. 2 Hysytech srl, Via I Maggio 5, 10043, Orbassano, Italy.
15:50 – 16:00	SO129	Ramazan Yildirim – Boğaziçi University, Department of Chemical Engineering, Istanbul (Türkiye) *Machine learning analysis of halide perovskite for photocatalytic CO2 reduction and water splitting* Beyza Yilmaz, Ramazan Yildirim* Boğaziçi University, Department of Chemical Engineering, 34342, Istanbul, Türkiye.
16:00 – 16:10	SO130	Dorottya Szalay – Wolfson Catalysis Centre, Department of Chemistry, University of Oxford, Oxford, (UK) *Magnetic field-enhanced electrochemical oxygen evolution reaction using Co3O4/BaFe12O19 co-catalyst system* Dorottya Szalay1, Amy Radford1, Chen Wu2, Shik Chi Edman Tsang1* 1 Wolfson Catalysis Centre, Department of Chemistry, University of Oxford, Oxford, OX1 3QR, United Kingdom 2 School of Materials Science and Engineering, State Key Laboratory of Silicon and Advanced Semiconductor Materials, Zhejiang University, Hangzhou 310027, China
16:10 – 16:20	SO131	Hajime Suzuki – Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University, Kyoto (Japan) *Spontaneous Adsorption of Iridium Chloride Complex on oxychloride photocatalysts Provides Efficient and Durable Reaction Site for Photocatalytic Water Oxidation* Hajime Suzuki,1 Kengo Minamimoto,1 Yusuke Ishii,1 Osamu Tomita,1 Akinobu Nakada,1 Shunsuke Nozawa,2 Ryu Abe*,1 1Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University, Nishikyo-ku, Kyoto 615-8510, Japan 2Photon Factory (PF), Institute of Materials Structure Science (IMSS), High Energy Accelerator Research Organization (KEK), Tsukuba, Ibaraki 305-0801, Japan
16:20 – 16:30	SO132	Saman Noroozi – Dept. of Applied Science and Technology, POLITO, Turin (Italy) *Evaluation of Cu- and CuZn-Exsolved Catalysts for the CO2 Hydrogenation to MeOH* Eleonora Calì1*, Saman Noroozi1, William Skinner2, David J. Payne2,3, Fabio Salomone1, Samir Bensaid1 1Dept. of Applied Science and Technology, Politecnico di Torino, C.so Duca degli Abruzzi 24, 10129 Turin, Italy. 2 Department of Materials, Imperial College London, Exhibition Road, London SW7 2AZ, U.K. 3 NEOM Education, Research, and Innovation Foundation, Al Khuraybah, Tabuk 49643-9136, Saudi Arabia
16:30 – 17:00	Coffee-Break	

17:00 – 17:20	OR118	Masaru Ogura – Institute of Industrial Science, The University of Tokyo, Komaba, Tokyo (Japan) *Transient and catalytic NO direct decomposition by irradiating microwave* Maya Chatterjee, Misaki Kimura, Masateru Nishioka, Masaru Ogura* Institute of Industrial Science, The University of Tokyo, Komaba, Tokyo, Japan.
17:20 – 17:40	OR119	Kalle Weidauer – 1TU Bergakademie Freiberg, Institute of Energy Process Engineering and Chemical Engineering, Freiberg (Germany) *Removal of formaldehyde, carbon monoxide and methane from lean gas engine exhaust gases using precious metal-free catalysts* Kalle Weidauer1, Sven Kureti1 1TU Bergakademie Freiberg, Institute of Energy Process Engineering and Chemical Engineering, Fuchsmühlenweg 9D, 09599 Freiberg, Germany.
17:40 – 18:00	OR120	Margarita Popova – Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, Sofia (Bulgaria) *CO2 capture on the amino-modified mesoporous silica* Margarita Popova*,1, Svilen Simeonov1, Ivailo Slavchev1, Yavor Mitrev1, Pavletta Shestakova1, Stela Grozdanopva1, Ivalina Trendaflova1 1 Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, acad. G. Bonchev str., bl. 9, Sofia, Bulgaria.
18:00 – 18:20	OR121	Edyta Tabor – J. Heyrovský Institute of Physical Chemistry, Czech Academy of Sciences, Prague (Czech Republic) *Nature of Cu active centres in ferrierite based catalysts responsible for direct CO2 transformation to platform chemicals* Julia Sobalska1,2, Kinga Mlekodaj3, Karolina Tarach1, Olena Tynkevych1, Dalibor Kaucký3, Jiri Dedecek3, Mark Newton3, Kinga Gòra-Marek1, and Edyta Tabor3* 1Faculty of Chemistry, Jagiellonian University in Kraków, Gronostajowa 2, 30-387 Kraków, Poland. 2 Doctoral School of Exact and Natural Sciences, Jagiellonian University in Krakow, Łojasiewicza 11, 30-348 Krakow, Poland. 3 J. Heyrovský Institute of Physical Chemistry, Czech Academy of Sciences, Dolejškova 2155/3, 182 23 Prague 8, Czech Republic.
18:20 – 18:40	OR122	Leonarda Francesca Liotta – CNR, ISMN, Palermo (Italy) *Ag/Ce1-xMnxO2 Catalysts for Soot Oxidation: Role of Ce/Mn Molar Ratio* Ekaterina S. L'vova,1 Tamara S. Kharlamova,1 Maria V. Grabchenko,1 Olga V. Vodyankina,*1 Eleonora La Greca,2 and Leonarda F. Liotta*2 1 Tomsk State University, 36 Lenin Ave., Tomsk, 634050, Russian Federation 2 CNR, ISMN, Via Ugo La Malfa 153, 90146-Palermo, Italy
		Short Orals
18:40 – 18:50	SO141	Stefania Volante – University of Pisa, Department of Chemistry and Industrial Chemistry, Pisa (Italy) *Sustainable energy storage materials from waste hazelnut shell biomass* Stefania Volante*1, Domenico Licursi1, Federico Maria Vivaldi1, Pietro Zaccagnini2, Federico Bella2, Fabio Di Francesco1, Claudia Antonetti1 1University of Pisa, Dept Chem and Industrial Chemistry, Via G. Moruzzi 13, Pisa, Italy 2 Department of Applied Science and Technology, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129, Torino, Italy
18:50 – 19:00	SO142	Jennifer Cueto – Thermochemical Processes Unit, IMDEA Energy, Madrid (Spain) *Improving oil quality from waste plastics pyrolysis: aromatization and dehalogenation activity using MFI zeolites* Jennifer Cueto*,1, Alberto Pinto1,2, Lidia Amodio1,2, Pavla Eliášová3, Patricia Pizarro1,2, Kenta Iyoki4, Tatsuya Okubo4, Tareq W.M. Amen5, Nao Tsunoji5, Jiří Čejka3, David P. Serrano1,2 1Thermochemical Processes Unit, IMDEA Energy, Avda. Ramón de la Sagra 3, 28935, Móstoles, Madrid, Spain 2Chemical and Environmental Engineering Group, Rey Juan Carlos University, Móstoles, Madrid, Spain

		3Dep. of Physical and Macromolecular Chemistry, Faculty of Science, Charles University, Prague, Czech Republic 4Department of Chemical System Engineering, The University of Tokyo, 7-3-1 Hongo, Tokyo, 113-8656, Japan 5Department of Applied Chemistry, Graduate School of Advanced Science and Engineering, Hiroshima University, 1-4-1 Kagamiyama, Hiroshima, 739-8527, Japan
19:00 – 19:10	SO143	Withdrawn
19:10 – 19:20	SO144	Alessandra Beretta – Dipartimento di Energia, POLIMI, Milano (Italy) Kinetic Investigation of Ammonia Decomposition over Ru/CeO2 Catalysts Synthesized by Conventional IWI and Novel Mechanochemical Approaches Yi Qiu1, Ivan Conti1, Nicole Bendazzoli1, Rudy Calligaro2, Alessandro Trovarelli2, Elisabetta Iengo3, Enzo Alessio3 and Alessandra Beretta*1 1Dip Energia, Politecnico di Milano, Via Lambruschini 4, 20156, Milano, Italy 2 Dipartimento Politecnico di Ingegneria e Architettura, Università degli Studi di Udine, via del Cotonificio 108, 33100, Udine, Italy 3 Dipartimento di Scienze Chimiche e Farmaceutiche, Università degli Studi di Trieste, Via L. Giorgieri 1, 34127, Trieste, Italy
19:20 – 19:30	Closing	

20:15 – 23:00	Banquet