



4th International Conference on

CCE-2020

Catalysis and Chemical Engineering

February 24-26, 2020 | Los Angeles, CA

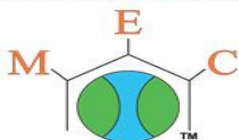
Tentative Program

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- *Catalytic Materials & Mechanisms
- *Catalysis for Chemical Synthesis
- *Catalysis and Energy
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- *Physical Chemistry
- *Reaction Engineering
- *Enzymes and Biocatalysts
- *Nanochemistry
- *Fluid dynamics & its Phenomena
- *Catalysis for Renewable Sources
- *Catalysis and Zeolites
- *Catalysis and Pyrolysis

- *Nanocatalysis
- *Material Sciences
- *Electrocatalysis
- *Environmental Catalysis
- *Chemical Kinetics
- *Surface and Colloidal Phenomena
- *Photocatalysis
- *Polymer Engineering
- *Simulation & Modeling
- *Organometallics Chemistry
- *Industrial Catalysis
- *Quantum Chemistry

Agenda

Day-1 Keynote Presentations from California Institute of Technology, CA, University of California at Berkeley, CA, Louisiana State University, LA, The Chinese University of Hong Kong, China, Federal University of Rio De Janeiro, Brazil, University of Oklahoma, OK, Portland State University Portland, OR, University of Houston, TX, Duke University, NC, Emory University, Atlanta, GA, Wuhan University of Technology, China, University of Houston, TX, Leibniz University of Hanover, Germany, University of Texas at El Paso, El Paso, TX, Michigan State University, MI, National University of Singapore, Singapore. and CCE Board Meeting

Day-2 Scientific Session-1, Scientific Session-2, Scientific Session-3 and Posters with cocktail party.

Day-3 Scientific Session-4, Scientific Session-5, Scientific Session-6, B2B meetings and Panel discussions.

Keynote Speakers

Title: To be Announced

* **Gabor A. Somorjai** , University of California at Berkeley, Berkeley, CA
Father of Modern Surface Chemistry, Wolf Prize in Chemistry, Priestley Medal

Title: New Quantum Mechanics based methods for Multiscale simulations of catalysis with focus on reaction mechanisms for Electrocatalysis

* **William Andrew Goddard III** , California Institute of Technology, CA
ISI Highly Cited Chemist, NASA Space Sciences Award

Title: To be Announced

* **James J. Spivey** , Louisiana State University, Baton Rouge, LA
Editor-in-Chief of Catalysis Today

Title: To be Announced

* **Jimmy C. Yu** , The Chinese University of Hong Kong, Hong Kong
Head of United College

Title: To be Announced

* **Martin Schmal** , Federal University of Rio De Janeiro, Brazil
Humboldt Foundation Award

Title: To be Announced

* **Kenneth M. Nicholas** , University of Oklahoma, OK

Title: In Search of New Catalysts by Artificial Intelligence Tools -- when the promising candidates are a statistically expectational minority

* **Matthias Scheffler** , Fritz Haber Institute, Germany

Title: Selective Interaction of Vanadium(IV) Coordination Complexes with Plasma Membrane Lipids Leading to G Protein-Coupled Receptor Signal Transduction

* **Debbie C. Crans** , Colorado State University, Fort Collins, CO

Title: To be Announced

* **Jie Liu** , Duke University, Durham, NC

Title: To be Announced

* **Zhifeng Ren** , University of Houston, Houston, TX
Editor-in-Chief of Materials Today Physics

Title: Catalytic activity of selected heteropolyacids as a function of their chemical composition. Theory versus experiment

* **Małgorzata Witko** , Polish Academy of Sciences, Poland

Title: To be Announced

* **Craig L. Hill** , Emory University, Atlanta, GA
Herty Medal Award

Title: How to make a viable electron device into a reliable product: what could and should be done differently

* **Ephraim Suhir** , Portland State University Portland, OR
ASME Worcester Read Warner Medal

Title: To be Announced

* **Russell R Chianelli** , University of Texas at El Paso, El Paso, TX

Title: To be Announced

* **Angela K. Wilson** , Michigan State University, MI
Michigan Women's Hall of Fame Award

Title: To be Announced

* **Jiaguo Yu** , Wuhan University of Technology, China

Title: To be Announced

* **Detlef Bahnemann** , Leibniz University of Hanover, German

Title: To be Announced

* **Sibudjing Kawi** , National University of Singapore, Singapore

Title: To be Announced

* **Debasish Kuila** , North Carolina A&T State University, NC

Title: To be Announced

* **Hua Chun Zeng** , National University of Singapore, Singapore

Title: To be Announced

* **Mannar Ram Maurya** , Dean of Indian Institute of Technology Roorkee, India

Title: To be Announced

* **Yu-Wen Chen** , National Central University, Taiwan

Presentations at CCE-2020, Los Angeles

Title: Catalytically Modulated Memristor

Peter Schubert, IUPUI, Indianapolis, IN

Title: To be Announced

Debbie C. Crans, Colorado State University, Fort Collins, CO

Title: Advanced characterization of transition metals on TiO₂ nanoparticles under catalytic reaction: the role of interface and subsurface oxygen in CO₂ and CO conversion

Djawhar Ferrah, University of California, Irvine, CA

Title: To be Announced

Jochen Lauterbach, University of South Carolina, Columbia, SC

Title: Barium-promoted Ruthenium Catalysts on Yttria-Stabilized Zirconia Supports for Ammonia Synthesis and Decomposition

Zhenyu Zhang, Colorado School of Mines, Golden, CO

Title: Gold, Silver, and Serendipity in Catalyst Development

Anna G. Wenzel, WM Keck Science Center, Claremont, CA

Title: To be Announced

Jun Li, Kansas State University, Manhattan, KS

Title: Synthesis of Hydrophobic Polymer Coatings via Initiated Chemical Vapor Deposition

Malancha Gupta, University of Southern California, Los Angeles, CA

Title: Water sanitisation using novel catalyst systems

Jennifer Edwards, Cardiff Catalysis Institute, UK

Title: Topological Polymorphism and Phases of Lipid A-Phosphate Approximants

Henrich H. Paradies, Jacobs University, Germany

Title: To be Announced

Craig Stivala, Genentech, San Francisco, CA

Title: To be Announced

Songgang Qiu, West Virginia University, Morgantown, WV

Title: Supported Iron? Only with the right support!" or "Supported Iron Catalyst for Fischer-Tropsch Synthesis

William C. Hecker, Brigham Young University, Provo, UT

Title: To be Announced

Edward Rosenberg, University of Montana, Missoula, MT

Title: To be Announced

Marc Madou, NAI Fellow, University of California, Irvine, CA

Title: To be Announced

Yi Rao, Utah State University, Logan, UT

Title: To be Announced

John Muldoon, Toyota Research Institute, Ann Arbor, MI

Title: Molecularly Imprinted Nanoparticles as Artificial Enzymes for Efficient and Selective Catalysis in Water

Yan Zhao, Iowa State University, Ames, IA

Title: To be Announced

Michal Bajdich, STANFORD & SLAC National Accelerator Laboratory, Stanford, CA

Title: HCl emission minimization via. Unit operations and chemical reaction modification

Rahul Patil, BASF, Sugar Land, TX

Title: Precursor influence on flame made Hopcalite nanoparticles for low-temperature CO oxidation under humid conditions

Julia Grothe, Technische Universität Dresden, Germany

Title: To be Announced

Mal-Soon Lee, Pacific Northwest National Laboratory, Richland, WA

Title: To be Announced

Xiujun James Li, University of Texas at El Paso, El Paso, TX

Title: To be Announced

Rudolf Wessels, Avantium Chemicals, France

Title: Photocatalytic bacterial inactivation by Cu_xO and Ag_xO on polyester prepared by HiPIMS for hospital textiles

Sami Rtimi, Swiss Federal Institute of Technology, Switzerland

Title: To be Announced

Quan Xu, China University of Petroleum, China

Title: To be Announced

Craig E Stivala, Genentech, San Francisco, CA

Title: Topological Catalysis

Zhenyu Zhang, University of Science and Technology, China

Title: To be Announced

Vijaya Rangari, Tuskegee University, Tuskegee, AL

Title: Modifying Fischer-Tropsch Reaction Sequence with Addition of Zeolite to Iron-based Activated-Carbon Supported Catalyst

Avinashkumar V Karre, Worley, LA

Title: To be Announced

Ferruccio Trifiro, University in Bologna, Italy

Title: To be Announced

Aimin Liu, The University of Texas at San Antonio, San Antonio, TX

Title: Investigation on the two-step POM-IonoSolv concept

Jakob Albert, University Erlangen-Nuremberg, Germany

Title: Synthesis of Z-scheme type Ag₂O/Ag/Graphene oxide composites as a catalyst for carbon dioxide photocatalytic reaction

Jih-Mirn Jehng, National Chung Hsing University, Taiwan

Title: To be Announced

Gautam Gupta, University of Louisville, Louisville, KY

Title: To be Announced

Juan R. González-Velasco , University of the Basque, Spain

Title: To be Announced

Johannes Hachmann , University at Buffalo, Buffalo, NY

Title: To be Announced

Joao Guilherme Rocha Poco , Centro Universitario FEI, Brazil

Title: Improved Generations of Catalysts for the Preparation of Challenging High Value Chiral Compounds

Montserrat Dieguez , Universitat Rovira i Virgili, Spain

Title: Applications of Iridium Complexes with Heterodonor Carbene-based Ligands in Catalysis. From Water Oxidation to Asymmetric Hydrogenation

Oscar Pamies , Universitat Rovira i Virgili, Spain

Title: To be Announced

Miguel Alcalde , Institute of Catalysis, ICP-CSIC, Spain

Title: Tandem Core-Shell Catalyst for CO₂ Hydrogenation to Aromatics and Hydrocarbons

Wai Ming Hui , National University of Singapore, Singapore

Title: Selective mono-alkylbenzene disproportionation over silylated MFI zeolite

Tseng-Chang Tsai , National University of Kaohsiung, Taiwan

Title: To be Announced

Wensheng Zhang , China Building Materials Academy, China

Title: To be Announced

Byeong-Kyu Lee , University of Ulsan, South Korea

Title: Engineering Precious Metal-free Catalyst Interfaces by Electrografting for Energy Applications

Loic Assaud , Universite Paris-Saclay, France

Title: To be Announced

Natasa Novak Tusar , National Institute of Chemistry, Slovenia

Title: To be Announced

Ilker Erdem, Abdullah Gül University, Turkey

Title: Gold Nanoparticles Supported on Metal Oxide Based Nanotubes for the Catalytic Reduction of Nitroarenes

Shanmugaraj Krishnamoorthy, University of Concepcion, Chile

Title: Synthesis of CeO₂-ZrO₂ nanosheets and their enhanced catalytic activity in diesel soot oxidation

Zhengzheng Yang, China West Normal University, China

Title: Use of Nb₂O₅.nH₂O and Nb₂O₅/Al₂O₅ as acids catalysts for the dehydration of xylose to furfural

Leticia Franco de Lima, University of Campinas, Brazil

Title: Role of Organic Acids in Highly Efficient and Mild Regioselective C-H Arylation of Aromatic Compounds

Guanghui An, Heilongjiang University, China

Title: To be Announced

Anusorn Seubsai, Kasetsart University, China

Title: To be Announced

Zhonghao Han, East China University of Science and Technology, China

Title: Removal of Antibiotic Cephalexin using Solar Photo-Fenton

Henry Zuniga-Benitez, Universidad de Antioquia, Colombia

Title: Organolithium Chemistry Using Flow Microreactors and Its Applications to Palladium Catalyzed Crosscoupling

Aiichiro Nagaki, Kyoto University, Japan

Title: Removal of Antibiotic Cephalexin using Solar Photo-Fenton

Narh Christopher, Jiangnan University, China

Title: To be Announced

GUILLARD Chantal, Universite Lyon, France

Title: To be Announced

Seung-Mok Lee, Catholic Kwandong University, South Korea

Title: Glycerol carboxylation using Zinc-based Metal Organic Framework with Lanthanum Incorporation

Chechia Hu, Chung Yuan Christian University, Taiwan

Title: Influence of silicon coordination environment on the catalytic properties of one-pot-synthesized Cu-SAPO-18

Zhen Chen, Huazhong University of Science and Technology, China

Title: Photoredox Catalysts for Direct Phenol Production from Benzene

Kei Ohkubo, Osaka University, Japan

Title: To be Announced

Xian Wu, East China University of Science and Technology, China

Title: To be Announced

Agusti Lledos, Universitat Autònoma de Barcelona, Spain

Title: To be Announced

Begona Espina, International Iberian Nanotechnology Laboratory, Portugal

Title: Kerosene Removal from Water Using TiO₂, V₂O₅ and MnO₂ Nanoparticles Modified MWCNTs

Thamer A. Abdullah, University of Pannonia, Hungary

Title: Production Enhancement of Biodiesel via Sequential Esterification/Transesterification over Superacidic and Superbasic Catalysts

Kuen-Song Lin, Yuan Ze University, Taiwan

Title: Syngas production from hydrocarbons on Ni-based catalysts: Strategy to enhance thermal stability of Ni nanoparticles

Jong Wook Bae, Sungkyunkwan University, South Korea

Title: To be Announced

Shuang Li, Northwest University, China

Title: To be Announced

Ho Cheuk-Lam, The Hong Kong Polytechnic University, Hong Kong

Title: To be Announced

Ichiro Yamanaka, Tokyo Institute of Technology, Japan

Title: Mechanistic Investigation Inspired Green Synthesis

Jingping Zhang, Northeast Normal University, China

Title: Photoassisted degradation of Rhodamine B and Caffeine by synthesis of ZnO/hydroxyapatite nanoparticles

Kherbeche Abdelhak, Sidi Mohamed Ben Abdellah University, Morocco

Title: Novel Hybrid Nanozyme-Catalysts for Ferroptosis-induced Cancer Therapy based on Polysaccharide-Enzyme-Magnetic Iron Oxide Nanostructures

Herman Sander Mansur, Federal University of Minas Gerais, Brazil

Title: Hydrogen Evolution by Photocatalytic Splitting of Water Using SrTiO₃/PAN Based Fibers

Gulmira Yar-Mukhamedova, Al-Farabi Kazakh National University, IETP, Kazakhstan

Title: Magnetic core-shell nitrogen-doped carbon-supported Co₃O₄ as a highly-reactive nanoreactor for the catalytic degradation of bisphenol A

Liu Fuqiang, Nanjing University, China

Title: To be Announced

Jinwoo Lee, KAIST, South Korea

Title: Quantitative mapping of carbon and metals on catalysts down to the ppm scale by Laser Induced Breakdown Spectroscopy (LIBS)

Lina Jolivet, IFP Energies nouvelles, France

Title: To be Announced

Anabel Lanterna, University of Ottawa, Canada

Title: PtA-(H_xMoO₃)B CO-tolerant anode catalysts for PEMFCs

Kirill Kurdin, Skolkovo Institute of Science and Technology, Russia

Title: To be Announced

Boris Alchagirov, Kabardino-Balkarian State University, Russia

Title: To be Announced

Roberto Parra-Saldivar, Tecnológico de Monterrey, Mexico

Title: In-situ Local Phase-Transitioned MoSe₂ in Perovskite Oxide Heterostructure and Excellent Overall Water Electrolysis

Hyesung Park, Ulsan National Institute of Science and Technology, South Korea

Title: First-Principles Study of Catalytic CO₂/Water Decomposition on Layered Materials

Hong Seok Kang, Jeonju University, South Korea

Title: Study of nitrous oxide adsorption by Zeolitic Imidazolate Framework (ZIF-8): Molecular Modeling and Computational Chemistry

Karen Villegas Dominguez, University de Sherbrooke, Canada

Title: Effect of solvation on the reactivity of Co₃O₄ (001) (001) surface: Insights from Molecular dynamics simulation

Stephane Kenmoe, University of Duisburg-Essen, Germany

Title: Heterogeneous Nucleation of Aluminum on Al₃Ti Phases with Tetragonal D0₂₂ Structure and L1₂ Modified Structure

Yoshimi Watanabe, Nagoya Institute of Technology, Japan

Title: To be Announced

Dae-Woon Jeong, Changwon National University, South Korea

Title: A comparative study of support oxide over Ni based catalysts for dry reforming of methane

Ju-Hwan Kim, Changwon National University, South Korea

Title: The comparison of Cu/CeO₂ catalyst using different precipitants for low temperature water gas shift reaction

Yun-Jung Gu, Changwon National University, South Korea

Title: The effect of Cu loading on co-precipitated Cu–CeO₂ catalyst

Hui-Ju Byeon, Changwon National University, South Korea

Title: DTPA Capped Superparamagnetic Iron Oxide Supported Magnetically Retrievable Pd and Ni catalysts for Suzuki Coupling Reactions

Padmaja Sudhakar Pamidimukkala, University of Baroda, India

Title: Robust Fused Aromatic Networks for Energy Applications

Jong-Beom Baek, UNIST, South Korea

Title: To be Announced

Sompit Wanwong, King Mongkut's University of Technology, Thailand

Title: 1D TiO₂ Nanotube Layers Decorated by Atomic Layer Deposition: Efficient Photocatalyst

Martin Motola, University of Pardubice, Czech Republic

Title: Phosphoric Acid Modified Al-TUD-1 Mesoporous Catalysts for the Hydrotreatment of FCC Diesel

Aijun Duan, China University of Petroleum Beijing, China

Title: To be Announced

Can Erkey, Koc University, Istanbul

Title: To be Announced

Jesse Greener, Laval University, Canada

Title: Roles of oxygen defects of (WO₃,V₂O₅)/SBA-15 catalysts in the oxidative desulfurization of fuel

Jin An Wang, Instituto Politecnico Nacional, Mexico

Title: To be Announced

Zhong Li, Taiyuan University of Technology, China

Title: Study of a novelty hydroxyapatite/g-C₃N₄ hybrid material as a high performance photocatalyst

Angeles Mantilla, Miguel Othón de Mendizábal, Mexico

Title: To be Announced

Marco Antonio Alvarez Amparan, Universidad Nacional Autónoma de México, Mexico

Title: To be Announced

Ira Alan Weinstock, Ben-Gurion University of the Negev, Israel

Title: To be Announced

Kangwoo Cho, Pohang University of Science and Technology, South Korea

Title: To be Announced

Karine Philippot, French National Centre for Scientific Research, France

Title: To be Announced

Xiaoming Fang, South China University of Technology, China

Title: To be Announced

Olumide Bolarinwa Ayodele, International Iberian Nanotechnology Laboratory, Portugal

Title: To be Announced

Jiang Li, China University of Petroleum, Beijing, China

Title: Removal of Nitrate and Nitrite Contaminants in Wastewater over NiFe₂O₄ and ZnFe₂O₄ Nanoparticles

Vukile Mdlovu, Yuan Ze University, Taiwan

Title: To be Announced

Peng Li, Fudan University, China

Title: To be Announced

Olalla Nieto Faza, Universidade de Vigo, Spain

Title: Preparation and Characterization of Ni/Al₂O₃ for Carbon Nanofiber Production from CO₂ Hydrogenation

Kuen-Song Lin, Yuan Ze University, Taiwan

Title: Formulation and Characterization of W-doped Titania Nanotube for Adsorption/Photocatalysis of Methylene Blue and Basic Violet 3 Dyes

Vukile Mdlovu, Yuan Ze University, Taiwan

Title: To be Announced

Alex Basso, Federal University of Santa Catarina, Brazil

Title: To be Announced

Nai-Xing wang, Chinese Academy of Sciences, China

Title: To be Announced

Xiao Jiang, Georgia Institute of Technology, Atlanta, GA

Title: Insight into Pd-based catalysts in o-xylene oxidation at low temperature

Wang Yafei, Beijing Institute of Petrochemical Technology, China

Title: Reduction of Particulate Emissions by Using a Nano-fibrous Catalysed Particulate Filter

Manju D. Tanwar, University of Birmingham, UK

Title: To be Announced

Zhengying Wu, Suzhou University of Science and Technology, China

Title: To be Announced

Michèle Oberson de Souza, UFRGS - Porto Alegre, Brazil

Title: To be Announced

Tayirjan TI Isimjan, Lead Scientist, SABIC, Saudi Arabia

Title: To be Announced

Jiusheng Li, University of Chinese Academy of Sciences, China

Title: To be Announced

Albert Poater, University of Girona, Spain

Title: To be Announced

Sylvain CAILLOL, CNRS Research Scientist, France

Title: To be Announced

Larisa A. Arkatova, Tomsk State University, Russia

Title: To be Announced

Mohammadreza Kamali, University of Aveiro, Portugal

Title: To be Announced

Mahsa Davarazar, University of Aveiro, Portugal

Title: Heterogeneous catalysis for CO₂ capture from industrial gas sources of CO₂

Raphael Idem, University of Regina, Canada

Title: To be Announced

Carlos Castillo-Zacarias, Tecnológico de Monterrey, Mexico

Title: To be Announced

Fabiana Magalhães Teixeira Mendes, National Institute of Technology, Brazil

Title: To be Announced

Fernando J. Uribe-Romo , University of Central Florida, Orlando, FL

Title: Synthesis and characterization of CuO nanostructures as an electrode material for supercapacitors

Neha Paras, National Institute of Technology, Kurukshetra, India

Last Updated on: September 12, 2019

Slots Available for Oral and Poster Presentations

******This is a Tentative program subjected to Change**