

# Center for Catalysis and Separation (CeCaS) 3rd International Workshop

## Catalysis and Separation Towards Sustainability and Net Zero Carbon Emissions (ZeroC)

### WORKSHOP INAUGURATION

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| 9:25-9:30 AE | <b>Opening Remarks</b>   |
| 9:30-9:40 AE | <b>Khalifa University Research Ecosystem: Towards Net zero Economy</b><br><b>Prof. Steve Griffiths</b> , Senior Vice President, Research & Development, Khalifa University of Science and Technology, United Arab Emirates                                     |
| 9:45-9:55 AE | <b>Catalysis &amp; Separations: Emerging Opportunities in The Net zero Emission</b><br><b>Prof. Kyriaki Polychronopoulou</b> , Director of the Center for Catalysis and Separation (CeCaS), Khalifa University of Science and Technology, United Arab Emirates |

### TECHNICAL PRESENTATIONS

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| 10:00- 10:35 AE | <b>Greening the Blue – Challenges in Decarbonizing the Maritime Sector</b><br><b>Dr. Yasser Alwahedi</b> , Managing Director, Abu Dhabi Maritime Academy<br>United Arab Emirates  |
| 10:35-10:45 AE  | Short Break (10 minutes) (D00073 Multipurpose hall)   |
| 10:45-11:20 AE  | <b>Greening up the Fossil Fuels: CO<sub>2</sub> Capture and Dehydration</b><br><b>Mr. Manish Mehta</b> , Technical Manager Middle East/Central Asia,<br>BASF Middle East Chemicals, United Arab Emirates<br><b>Ms. Elena Petriaeva</b> , Technical Market Manager, Middle East/Central Asia,<br>BASF Middle East Chemicals, United Arab Emirates. |
| 11:20-11:55 AE  | <b>Kinetic Modeling of Greenhouse Gas CO<sub>2</sub> Hydrogenation to Methanol Over a Cu-Catalyst</b><br><b>Dr. Kaiser Hajam</b> , Postdoctoral Fellow, Department of Chemistry, Khalifa University of Science and Technology, United Arab Emirates   |
| 11:55-12:55 AE  | Lunch Break (60 minutes) (D00073 Multipurpose hall)   |
| 13:00-13:35 AE  | <b>High G for ZeroC</b><br><b>Dr. Abdallah Berrouk</b> , Department of Mechanical Engineering, Center for Catalysis and Separation (CeCaS), Khalifa University of Science and Technology, United Arab Emirates  |
| 13:35-14:10 AE  | <b>Challenges Related to Low Carbon and Sustainable aviation fuels deployment</b><br><b>Ms. Hanin Radman</b> , Research Scientist, ADNOC Refining Research Center, United Arab Emirates   |

### TECHNICAL PRESENTATIONS (CONT.)

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| 14:10-14:45 AE | <b>Selectivity Switching of Adsorbents for Olefin/Paraffin Separation</b><br><b>Fahmi Anwar</b> , PhD student, Center for Catalysis and Separation (CeCaS), Khalifa University of Science and Technology, United Arab Emirates                               |
| 14:55-15:30 AE | Short Break + Poster session (D00073 Multipurpose hall)  |
| 15:30-16:05 AE | <b>Innovative and Sustainable Water Treatment</b><br><b>Technologies from Natural Resources for a Greener Future</b><br><b>Dr. Chamanei Sandamali Hettiarachchige</b> , University of Peradeniya, Sri Lanka.   |
| 16:05-16:40 AE | <b>Intergrowth in Zeolite Materials</b><br><b>Dr. Maryam Khaleel</b> , Research and Innovation Center on Hydrogen and Carbon Dioxide (RICH), Center for Catalysis and Separation (CeCaS), Khalifa University of Science and Technology, United Arab Emirates |
| 16:45-17:00 AE | <b>Best Poster Award</b><br><b>Closing Remarks + Group Photo</b>   |