

PROGRAM AT GLANCE - ICOSES'25

DAY 1 / 24, APRIL 2025

TIME ZONE

WELCOME AND INTRODUCTION / ICOSES'25



08:30-09:00

Prof. Ahmed Ennaoui (5MIN)
Prof. NN, (5MIN)
Prof. NN, (5MIN)

PLENARY SESSION (DURATION 30MIN. INCL. Q/A DISCUSSION)



09:00-09:30



Prof. Youssef Belmabkhout, Mohammed VI polytechnic University (UM6P), Applied Chemistry and Engineering research (ACER) Centre of Excellence (CoE)

Title: Advanced concepts for adsorptive based gas/vapor separations/purification with different degree of complexity. Air Capture as a case study

Moderator: Prof Ahmed Ennaoui, and Prof. Abdelilah Benyoussef, NN



09:30-10:00



Prof. Mohammad Khaja Nazeeruddin, Swiss Federal Institute of Technology in Lausanne, EPFL, Switzerland.

Title: Stable and Efficient Perovskite Solar Cells and Modules by Compositional and Interface Engineering

Moderator: Prof. Youssef Belmabkhout, Prof Ahmed Ennaoui, NN



10:30-11:00

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 10:00-10:30		<p>Dr. Jauad El Kharraz, Expert, scientist and advisor in the fields of sustainable development, energy transition, water policies, desalination, and science diplomacy</p> <p><i>Title: Water-Energy nexus: A pathway towards sustainability and Net-Zero</i></p> <p>Moderator: Prof. Charaf Hajjaj and Prof. Mohamed Azeroual, NN</p>
  10:30-11:00 11:30-12:00		<p>Dr. Diego Martínez Plaza, Managing Director at EU-SOLARIS ERIC</p> <p><i>Title: Concentrating Solar Thermal technologies: A reliable player to the global energy transition</i></p> <p>Moderator: Prof. Charaf Hajjaj and Prof. Mohamed Azeroual, NN</p>
SESSION FOR PARTICIPANTS / 14:30-16:00		
PLENARY SESSION (DURATION 30MIN. INCL. Q/A DISCUSSION)		
 16:00-16:30  10:00-10:30		<p>Dr. Ilias Belharouak, Corporate Fellow & Head of Electrification Section at Oak Ridge National Laboratory / Oak Ridge, Tennessee, United States Editor / Journal of Power Sources</p> <p><i>Title: Is the Moroccan LFP Li-ion battery industry ready for takeoff?</i></p> <p>Moderator: Prof. Ismael Saadoune, Prof. Alae Azouzoute, NN</p>

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  <p>16:30-17:00 11:30-12:00</p>		<p>Dr. Saad Y. Jasim, SJ Environmental Consultants (Windsor) Inc. Past President of the International Ozone Association (IOA), 2020-2022</p> <p><i>Title: Water Reuse to Enhance Water Security and Sustainability and reduce impacts of Climate Change</i></p> <p>Moderator: Dr. Ilias Belharouak , Prof. Charaf Hajjaj, NN</p>
  <p>17:00-17:30 09:00-09:30</p>		<p>Prof. Sarah Kurtz, University of California Merced Senior Research Fellow Emeritus at National Renewable Energy Laboratory, in Golden, CO</p> <p><i>Title: Will the Energy Transition Drive Solar? Or, Will Solar Drive the Energy Transition?</i></p> <p>Moderator: Prof. Charaf Hajjaj, Prof. Abdellatif Bouaichi, NN</p>

WRAP-UP AND TAKEAWAY (20 MIN.) / ALL KEYNOTE SPEAKERS PRESENT

SESSION FOR PARTICIPANTS / 17:30-19:00

END OF THE FIRST DAY









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DAY 2 / 25, APRIL 2025

P L E N A R Y S E S S I O N (DURATION 30MIN. INCL. Q/A DISCUSSION)








 09:00-09:30  10:00-10:30		<p>Prof. Ivan Gordon, Department Director IMOMECE at imec/Energyville - Vice-Director IMO at Hasselt University Professor Digital Photovoltaics at TU Delft.</p> <p style="text-align: center;"><i>Title: Crystalline-Silicon solar cells: State-of-the-art and future challenges</i></p> <p>Moderator: Prof. Mohamed Azeroual, Prof. Charaf Hajjaj, NN</p>
 09:30-10:00		<p>Prof. Saleh Khamlich, Research Centre of Excellence, UM6P - Mohammed VI Polytechnic University</p> <p style="text-align: center;"><i>Title: Nanofluids and Their Advances Towards Renewable Energy Applications</i></p> <p>Moderator: Prof. Mohamed Azeroual, Prof. Charaf Hajjaj, NN</p>
 10:00-10:30  10:00-10:30		<p>Dr. Mounia Karim, Senior Researcher in Solar Energy and Zero Carbon, University of Derby, Angleterre, Royaume-Uni.</p> <p style="text-align: center;"><i>Title: Local community acceptability of Solar power plants: Challenges and Opportunities?</i></p> <p>Moderator: Prof. Abdella f Bouaichi, Prof. Mohamed Azeroual, NN</p>
SESSION FOR PARTICIPANTS / 10:30-12:00		

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P L E N A R Y S E S S I O N (DURATION 30MIN. INCL. Q/A DISCUSSION)



  <p>14:00-14:30 15:00-15:30</p>		<p>Prof. Thomas Hannappel, Head of the department “Fundamentals of Energy Materials” Dean of the Master course “Renewable Energy Techniques” at the Institute of Physics, Technische Universität (TU) Ilmenau</p> <p><i>Title: Critical points of III-V semiconductor device structures for sustainable photoelectrochemical solar fuels production</i></p> <p>Moderator: Prof Ahmed Ennaoui, Prof. Abdelilah Benyoussef, NN</p>
 <p>14:30-15:00</p>		<p>Prof. Laila Mandi, International Institute for Sustainable Transition in Africa, Marrakech, Morocco Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco.</p> <p><i>Title: Water Resources and Sustainability: Towards a Greener Future</i></p> <p>Moderator: Prof. Alae Azouzoute, NN, NN</p>
 <p>15:00-15:30</p>		<p>Prof. Ismael Saadoune, Mohammed VI Polytechnic University, Applied Chemistry & Engineering Research, Morocco.</p> <p><i>Title: Recent Progress in Li- and Na- Phosphate-Based Electrodes for High- Efficiency Li- @ Na-Ion Batteries</i></p> <p>Moderator: Prof. Abdella f Bouaichi, Prof. Charaf Hajjaj, NN</p>

SESSION FOR PARTICIPANTS / 15:30-17:00

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 <p>17:00-17:30</p>		<p>Dr. Greg P. Smestad, PI at Sol Ideas Technology Development, California / Editor Emeritus for Solar Energy Materials and Solar Cells</p>
 <p>09:00-09:30</p>		<p><i>Title: Solar Energy-Related Engineering and Entrepreneurship in Emerging Market Countries.</i></p> <p><i>Moderator: Dr. Leonardo Micheli, NN, NN</i></p>

WRAP-UP AND TAKEAWAY (20 MIN.) / ALL KEYNOTE SPEAKERS PRESENT

SESSION FOR PARTICIPANTS / 17:30-19:00

END OF THE SECOND DAY

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DAY 3 / 26, April 2025

PLENARY SESSION (DURATION 30MIN. INCL. Q/A DISCUSSION)

Keynote of, Prof. Leonardo Micheli



09:00-09:30



10:00-10:30



Prof. Leonardo Micheli, “Rita Levi Montalcini” Assistant Professor (RTDB) Dept. of Astronautical, Electrical and Energy Engineering (DIAEE) Sapienza University of Rome, Italy

Title: Large-scale impacts of dust storms on the national photovoltaic capacity







Break 15'

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TWO HOURS WORKSHOP ON MODELING SOILING: STATUS, RESOURCES, AND CHALLENGES

  <p>09:45-10:45</p> <p>10:45-11:45</p>		<p>Dr. Álvaro Fernández Solas, Industrial Engineer & Scientific Researcher at DLR (German Aerospace Center). PhD in Photovoltaic Energy</p> <p><i>Title: Introduction to soiling and modelling approaches</i></p> <p><i>Moderator: Dr. Leonardo Micheli, Mr. Thore Müller, NN</i></p>
<p>Break 15'</p>		
  <p>11:00-12:00</p> <p>12:00-13:00</p>		<p>Mr. Thore Müller, Co-Founder, serving as Chief Executive Officer (CEO) at (PVRADAR, Germany)</p> <p><i>Title: Soiling modelling through Python</i></p> <p><i>Moderator: Dr. Leonardo Micheli, Dr. Álvaro Fernández Solas, NN</i></p>

WRAP-UP AND TAKEAWAY (20 MIN. DISCUSSION) / ALL KEYNOTES PEAKERS PRESENT

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TWO HOURS TUTORIAL ON FIRST-PRINCIPLES DENSITY FUNCTIONAL THEORS (DFT) SIMULATION OF VARIOUS NOVEL 2D MATERIALS FOR ENERGY STORAGE AND ADVANCED ELECTROCHEMICAL SOLAR ENERGY CONVERSION TO GREEN HYDROGEN AND CARBONE DIOXIDE REDUCTION: LEARNING FROM THE NATURE



Prof. Abdelilah Benyoussef, Hassan II Academy of Sciences and Technology, Rabat, Morocco LaMCScI, Faculty of Sciences, Mohammed V University, Rabat, Morocco

Title: *First-principles density functional theors (DFT) simulation of various novel 2d materials for energy storage*

PART 1 / 12:00-13:00

PART 2 / 13:15-14:15



Moderator: Prof. Ahmed Ennaoui, NN



Prof. Ahmed Ennaoui, President of the scientific council of IRESEN, Former head of research group at Helmholtz Center Berlin for Materials and Energy

Title: *Tutorial on advanced electrochemical solar energy conversion to green hydrogen and carbone dioxide reduction: learning from the nature*

PART 1 / 14:30-15:15

PART 2 / 15:30-16:15



15:30-16:15

16:30-17:15



Moderator: Prof. Abdelilah Benyoussef, NN

WRAP-UP AND TAKEAWAY (20 MIN. DISCUSSION) / ALL KEYNOTES SPEAKERS PRESENT

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INDUSTRY TALK PANEL

Moderator: Dipl. Ing. Badr IKKEN



16:35 - 18:35



Dipl. Ing. Badr IKKEN, Executive-President of Gi3 / Managing partner of Gi2 / Chairman of the Morocco-Germany Business Council - CGEM Member of the Board of Directors of the German Chamber of Commerce AHK Morocco

Title:



Dr. Ismail Akalay, Chief Executive Officer of Sonasid and Former general manager cobalt and base metals general manager cobalt and base metals Managem

Title:

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Break (10 min)



Dr. Samir Rachidi, Managing Director, Institut de Recherche en Énergie Solaire et Énergies Nouvelles (IRESEN)

Title:



Ms. Najlae Yazghi, Managing Director Siemens Gamesa & Siemens Energy Morocco

Title:



Mr. Reda Hamedoun, Executive Vice President at NAREVA HOLDING

Title:

END OF THE THIRD DAY

END OF ICOSES'25 CONFERENCE

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