

PROGRAM AT GLANCE - ICOSES'25

DAY 1 / 24, APRIL 2025

TIME ZONE

WELCOME AND INTRODUCTION / ICOSES'25



08:30

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

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

Session Chair: Prof. Ahmed Ennaoui

Moderator: Prof. Abdelillah Benyoussef, and Prof. Youssef Belmabkhout



09:00-9:30



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



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



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: <u>Water-Energy nexus: A pathway towards sustainability and Net-Zero</u></i></p>
 10:30-11:00  11:30-12:00		<p>Dr. Diego Martínez Plaza, Managing Director at EU-SOLARIS ERIC</p> <p><i>Title: <u>Concentrating Solar Thermal technologies: A reliable player to the global energy transition</u></i></p>
SESSION FOR PARTICIPANTS / 14:30-16:00		
PLENARY SESSION (DURATION 30MIN. INCL. Q/A DISCUSSION)		
<p><u>Session Chair:</u> Prof. Charaf Hajjaj</p> <p><u>Moderator:</u> Prof. Ismael Saadoune, and Dr. Massaab El Ydrissi</p>		
 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: <u>Is the Moroccan LFP Li-ion battery industry ready for takeoff?</u></i></p>

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  16:30-17:00 11:30-12:00		<p>Dr. Saad Y. Jasim, SJ Environmental Consultants (Windsor) Inc. Past President of th 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>
  17:00-17:30 09:00-09:30		<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>

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

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

Session Chair: Prof. Abdellatif Bouaichi

Moderator: Prof. Aumeur El Amrani, and Prof. Pierre Oliver Logerais

 09:00-09:30		<p>Prof. Ivan Gordon, Department Director IMOMEC at imec/Energyville - Vice-Director IMO at Hasselt University Professor Digital Photovoltaics at TU Delft.</p> <p><u>Title:</u> <i>Crystalline-Silicon solar cells: State-of-the-art and future challenges</i></p>
 10:00-10:30		
 09:30-10:00		<p>Prof. Ahmed Ennaoui, President of the scientific council of IRESEN, Former head of research group at Helmholtz Center Berlin for Materials and Energy</p> <p><u>Title:</u> <i>Toward Efficient all inkjet printing solar cells: from Lab to Fab</i></p>
 10:30-10:00		
 10:00-10:30		<p>Dr. Mounia Karim, Senior Researcher in Solar Energy and Zero Carbon, University of Derby, Angleterre, Royaume-Uni.</p> <p><u>Title:</u> <i>Local community acceptability of Solar power plants: Challenges and Opportunities?</i></p>
 10:00-10:30		

SESSION FOR PARTICIPANTS / 10:30-12:00

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

Session Chair: Prof. Alae Azouzoute

Moderator: Prof. Omar Eloutassi, and Dr. Jauad El Kharraz




 14:00-14:30  15:00-15:30		<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><u>Title:</u> <i>Critical points of III-V semiconductor device structures for sustainable photoelectrochemical solar fuels production</i></p>
 14:30-15:00		<p>Prof. Laila Mandi, International Institute for Sustainable Transition in Africa, Marrakech, Morocco Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco.</p> <p><u>Title:</u> <i>Water Resources and Sustainability: Towards a Greener Future</i></p>
 15:00-15:30		<p>Prof. Ismael Saadoune, Mohammed VI Polytechnic University, Applied Chemistry & Engineering Research, Morocco.</p> <p><u>Title:</u> <i>Recent Progress in Li- and Na- Phosphate-Based Electrodes for High- Efficiency Li- @ Na-Ion Batteries</i></p>

SESSION FOR PARTICIPANTS / 15:30-17:00

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

Session Chair: Prof. Ahmed Ennaoui
Moderator: Prof. Alae Azouzoute and Dr. Houssain Zitouni

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

Moderator: Prof. Leonardo Micheli



09:45-10:45



Dr. Álvaro Fernández Solas, Industrial Engineer & Scientific Researcher at DLR (German Aerospace Center).
PhD in Photovoltaic Energy

Title: *Introduction to soiling and modelling approaches*



10:45-11:45

Moderator: Dr. Leonardo Micheli, Mr. Thore Müller

Break 15'



11:00-12:00



Mr. Thore Müller, Co-Founder, serving as Chief Executive Officer (CEO) at (PVRADAR, Germany)

Title: *Soiling modelling through Python*



12:00-13:00

Moderator: Dr. Leonardo Micheli, Dr. Álvaro Fernández Solas

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

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TUTOTIAL ON FIRST-PRINCIPLES DENSITY FUNCTIONAL THEORS (DFT) SIMULATION OF VARIOUS NOVEL 2D MATERIALS FOR ENERGY STORAGE



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

PART 1 / 12:00-13:00

PART 2 / 13:15-14:15

Moderator: Prof. Ahmed Ennaoui, NN

TUTOTIAL ON ADVANCED ELECTROCHEMICAL SOLAR ENERGY CONVERSION TO GREEN HYDROGEN AND CARBONE DIOXIDE REDUCTION: LEARNING FROM THE NATURE



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

PART 1 / 14:30-15:15

PART 2 / 15:30-16:15

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



16:30 - 18:30



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



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

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Break (10 min)



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



Najlae Yazghi, Managing Director Siemens Gamesa & Siemens Energy Morocco

END OF THE THIRD DAY

END OF ICOSES'25 CONFERENCE

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