The best papers presented at STR2E 2026 will be considered for further review and possible publication in :

2nd INTERNATIONAL CONFERENCE ON SCIENCES AND TECHNIQUES FOR RENEWABLE ENERGY AND THE ENVIRONMENT

FINAL PROGRAM

The local time is Greenwich Mean Time + 1, (GMT + 1): Time (MOROCCO)

FST, AL HOCEIMA, MOROCCO

April 28-30 , 2026

www.str2e.com

str2e.conference@gmail.com

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A word from the Chairman

The STR2E conference (International Conference on Sciences and Techniques for Renewable Energy and the Environment), organized by the research team in chemistry, computer science and artificial intelligence (ERCI2A), Faculty of Sciences and Techniques-Al Hoceima, the Moroccan Association of Science and Technology for Sustainable Development (MASTSD) and Abdelmalek Essaadi University, Tétouan, Morocco, is part of a dynamic aimed at promoting scientific exchanges and interdisciplinary collaboration in all fields of engineering sciences and techniques related to renewable energy and the environment. This second edition highlights themes related to energy transitions, sustainability and contemporary environmental issues:

* Solar Energy Engineering
* Smart Grid
* Photovoltaic and grid
* Hydrogen storage
* Enegy Conversion
* Electrode Materials for Energy, Environment and Electrochemical Sensors Applications* Water Splitting, Electrolysis Efficiency and Fuel Cell
* Solar collector and exchangers
* Semiconductors and thin films for photovoltaic
* DFT for Semiconductor Energy Applications
* DFT for Photocatalysts, Catalysts, and optic
* Wind Energy Engineering
* Electric and Hybrid Vehicles
* Batteries
* Biomass Energy Engineering

STR2E has become a leading scientific platform, bringing together more than 140 participants from over 35 universities and institutions, representing 10 to 12 countries on 3 or 4 continents (Africa, Europe, Asia, with an opening towards Latin America), reflecting a consolidated international scientific influence (Figure 1). The committees have about 120 people with remarkable geaghraphic diversity.

It stands out for its strong institutional diversity, associating leading Moroccan universities—notably the Mohammed V University, the Abdelmalek Essaâdi University, the Hassan II University of Casablanca, the Ibn Zohr University, Cadi Ayyad University and Sultan Moulay Slimane University—to international partners from France, Spain, Portugal, the United Kingdom, India, Indonesia, Uzbekistan, Mexico, Colombia, Côte d'Ivoire, and Eritrea, creating an open and highly collaborative scientific environment.

Scientifically, the conference covers strategic areas with high impact, including renewable energy, environment and sustainable development, artificial intelligence, materials science, and applied

engineering, while promoting an advanced dynamic of cointernational authorship, academic mobility and knowledge transfer.

The selected contributions in this special issue have undergone a rigorous peer review process, ensuring a high level of scientific quality and methodological relevance. This initiative is thus part of a drive to strengthen innovation, structure scientific collaborations, and consolidate international positioning in the fields of energy and the environment.

Figure 1. statistics of participants in the second edition of STR2E 2026 according to their geo-geographical, disciplinary, and academic origins

14 plenary conferences will be presented during the three days of the event by eminent experts from around the world (Canada, France, Portugal, Mexico, Morocco).

Prof. Charaf Laghlimi On behalf of STR2E 2026

Guests of Honor

Pr. Bouchta El Moumni	President of Abdelmalek Essaadi University-Morocco
Pr. Mohammed Bakkali	Dean of Faculty of Sciences and Techniques, Al-Hoceima- Morocco
Pr. Hassan Amhamdi	Vice-Dean in charge of Pedagogical Affairs, Faculty of Sciences and Techniques, Al-Hoceima- Morocco
Pr. Mohammed Hassani Zerrouk	Vice-Dean in charge of Scientific Research and Cooperation, Faculty of Sciences and Techniques, Al-Hoceima- Morocco
Pr. Kebir CHAJI	Acting Director of the Higher School of Technology, Beni Mellal
Pr. Yassine Lakhal	Coordinator of the Mechatronics Program and fablab manager of higher school of technology - beni mellal

Conference Chairman

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Abdelmalek Essaadi University, Tetouan -Morocco
Faculty of Sciences and Techniques, Al Hoceima

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Pr. Mourad Fariss Abdelmalek Essaadi University, Tetouan, Morocco

Pr. Rachida Ouaabou Abdelmalek Essaadi University, Tetouan, Morocco

Guest Editors

Lead Guest Editor:

Pr. Charaf Laghlimi

Affiliation: ERCI2A, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco. And the Moroccan Association of Sciences and Techniques for Sustainable Development (MASTSD), Beni Mellal, Morocco.

Institutional e-mail address:

charaf.cac.fbs@gmail.com ; c.laghlimi@uae.ac.ma

ORCID: 0000-0002-5022-5238

Scopus: https://www.scopus.com/authid/detail.uri?authorId=57207915986

Guest Editors:

1- Pr. Younes Ziat

Affiliation: Engineering and Applied Physics Laboratory (EAPL), Superior School of Technology, Sultan Moulay Slimane University, Beni Mellal, Morocco. And the Moroccan Association of Sciences and Techniques for Sustainable Development (MASTSD), Beni Mellal, Morocco.

Institutional e-mail address: ziat.younes@usms.ma ; ziat.estbm@gmail.com

ID Scopus: https://www.scopus.com/authid/detail.uri?authorId=56074431200

2- Pr. Zakaryaa Zarhri

Affiliation : CONAHCYT- Faculty of Chemical Sciences and Engineering, The Autonomous University of

Morelos State, Av Universidad 1001, C.P. 62209, Cuernavaca, Morelos, Mexico.

Institutional e-mail address: zakaryaa.zarhri@docentes.uaem.edu.mx

IDScopus: https://www.scopus.com/authid/detail.uri?authorId=55944455700

3- Pr. Noureddine Lakouari

Affiliation : National Institute of Astrophysics, Optics and Electronics (INAOE), Puebla, Mexico. Secretariat of Science, Humanities, Technology and Innovation (Secihti), Mexico.

Institutional e-mail address: n.lakouari@inaoep.mx

ID Scopus:

https://www.scopus.com/authid/detail.uri?authorId=55861806500

4- Dr. Hamza Belkhanchi

Affiliation : Engineering and Applied Physics Laboratory (EAPL), Superior School of Technology, Sultan Moulay Slimane University, Beni Mellal, Morocco. And the Moroccan Association of Sciences and Techniques for Sustainable Development (MASTSD), Beni Mellal, Morocco.

Institutional e-mail address: hamza.belkhanchi@usms.ac.ma

ID
Scopus: https://www.scopus.com/authid/detail.uri?authorId=57218954479

5- Dr. Abdelaziz Moutcine,

Affiliation: ERCI2A, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco. And the Moroccan Association of Sciences and Techniques for Sustainable Development (MASTSD), Beni Mellal, Morocco.

Institutional e-mail address: abdelaziz.MOUTCINE@usmba.ac.ma

https://www.scopus.com/authid/detail.uri?authorId=57201357927

Plenary Speakers

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▪ Pr. Rabah Boukherroub

Institute of Electronics, Microelectronics and Nanotechnology (IEMN), UMRCNRS 8520, Cité Scientifique, Avenue Poincaré – CS60069, Villeneuve d'Ascq, France

Dr. Rabah Boukherroub received a PhD in chemistry from the University Paul Sabatier in Toulouse, France. He is currently a CNRS research director at the Institute of Electronics, Microelectronics and Nanotechnology (IEMN), CNRS & University of Lille, France. His research interests are in the area of functional materials, surface chemistry, and photophysics of semiconductor/metal nanostructures with emphasis on biosensors, nanomedicine, photocatalysis and electrocatalysis. He has been a visiting Professor in many Universities in China and Japan. He has published many research publications, wrote 45 book chapters and co-editor of 10 books in subjects related to nanotechnology, materials chemistry, and biosensors. He has 15 patents or patents pending.

Title of the Speech : Upcycling Commodity Polymers for the Preparation of Added-value Materials and Fuels

▪ Pr. GUITTARD Frederic

Université COTE d'AZUR, France

He was Director of the chemistry department from 2004 to 2010 at Nice University and built bachelor and Masters 1&2 in apprenticeship (www.unice.fr/master-pro-mqm & www.unice.fr/bhpe) with 130 industrial partners. He is authored or co-authored of 300 articles, 74 invited conferences and leader on adhesion (or anti-wetting) and surface properties, www.unice.fr/nice-lab. Between 2010 and 2022, he was visiting researcher at Bristol University (UK), at the Institute of physics (Czech Rep.) in Porto Alegre (Brazil) & at University California Riverside, CA (USA) for 5 years. Since 2012, he is the founder & the chairperson of the international conferences on Biobased and Biomimetic, Materials & Chemistry (www.nice-conference.com) a biannual (Summer-Winter) conferences endorsed by M.R.S, E-M.R.S. & I.U.P.A.C and accredited, in 2024, as Club for UNESCO. He is the founder & director, 2020-2024, of the CNRS national network initiative group for Biomimetic named "GDR-2088-biomim", 98 Laboratories, 700 researchers/members (www.gdr-biomim.com).

Title of the Speech: Green approaches to build up free fluorine anti-wetting surfaces

▪ Pr. Ljiljana Trajkovic

Simon Fraser University, Canada

Ljiljana Trajkovic received the Dipl. Ing. degree from University of Pristina, Yugoslavia, the M.Sc. degrees in electrical engineering and computer engineering from Syracuse University, Syracuse, NY, and the Ph.D. degree in electrical engineering from University of California at Los Angeles. She is currently a professor in the School of Engineering Science, Simon Fraser University, Burnaby, British Columbia, Canada. Her research interests include communication networks and dynamical systems. Dr. Trajkovic served as IEEE Division X Delegate/Director, President of the IEEE Systems, Man, and Cybernetics Society, and President of the IEEE Circuits and Systems Society. She serves as Editor-in-Chief of the IEEE Transactions on Human-Machine Systems. She is a Distinguished Lecturer of the IEEE Systems, Man, and Cybernetics Society and was a Distinguished Lecturer of the IEEE Circuits and System Society. She is a Fellow of the IEEE.

Title of the Speech: Data Mining and Machine Learning for Analysis of Network Traffic

▪ Pr. Mohamed Mohamedi

Institut National de la Recherche Scientifique (INRS), Centre Energie, Materiaux et Telecommunications, Canada

Pr. Mohamed Mohamedi graduated from the Institut National Polytechnique de Grenoble (INPG), France. He actually works as a research-professor at Institut National de la Recherche Scientifique (INRS), Canada, where he leads the Electrochemistry and Micro Energy Sources Laboratory. His research is focused on the science, engineering and technology of electrochemical devices, in particular energy conversion (fuel cells) and storage devices (metal-air batteries and supercapacitors), implantable biological fuel cells power sources and bioelectrochemical sensors for medical applications. Dr. Mohamedi has published in international scientific journals, over 180 articles and participated in more than 160 conferences including several as invited and keynote speaker. He is the recipient of the Tajima Prize from the International Society of Electrochemistry (ISE), the Electrochemistry Communications Award, the Research fellow of the Japan Society for the Promotion of Science (JSPS), Grant-in-Aids award for Encouragement of Young Scientists (Ministry of Science & Technology Japan), the Research Fellow of the 21st Center of Excellence at the Center for Practical Nano-Chemistry of Waseda University (Japan), the Research Fellow of the New Industry Creation Hatchery Center of Tohoku University (Japan), the Research Fellow of the New Energy and Industrial Technology Development Organization (NEDO) Japan and Leaders Opportunity Fund from Canada Foundation for Innovation.

Title of the Speech : Small Scale, Big Power: The Microfluidic Energy Revolution

▪ Pr. Noureddine Lakouari

Instituto Nacional de Astrofísica, Óptica y Electrónica, Coordinación de Ciencias Computacionales, Puebla 72840, Mexico. Secretaría de Ciencia, Humanidades, Tecnología e Innovación, Mexico City 03940, Mexico

He completed his studies in Physical Sciences at Mohammed V University in Rabat, Morocco, in 2011. He then pursued a master's degree in computational physics at the same institution. In 2015, he obtained his Ph.D. at the Laboratory of Condensed Matter and Interdisciplinary Sciences at Mohammed V University in Rabat, Morocco. In 2017, he joined the Autonomous University of the State of Morelos (UAEM), where he conducted postdoctoral research in the field of simulation and modeling of complex systems, such as traffic flow. In 2018, he joined the National Institute of Astrophysics, Optics and Electronics (INAOE) in Puebla as a researcher, where he began working on distributed computing and the modeling and simulation of mass phenomena in urban environments.

Title of the Speech : Graph-theory-based methodology for the analysis and optimization of electric power distribution as a complex system using distributed generation in smart grids

▪ Pr. Jalal ISAAD

ERCI2A, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco

Dr. Jalal ISAAD was born in Mohammedia - Morocco, on October 27, 1979. In 2004, he obtained his M.Sc. degree in fine organic chemistry at the University Claude Bernard Lyon 1 - France. In September 2005, he joined the group of Prof. Roberto Bianchini as a Ph.D. student at the University of Florence - Italy, where he obtained his Ph.D. in Chemical Sciences in February 2009. From 2009 to 2014, he was an associate research lecturer in chemistry and then a researcher at the École Nationale Supérieure des Arts et Industries Textiles - France, and since April 2015, he has been an associate professor of organic chemistry at the Faculty of Science and Technology Al Hoceima- Morocco and a head of the research team "Chemistry, informatics, and artificial intelligence in the same Faculty His research interests revolve around the design and synthesis of new bio-derived materials (polymers, nanoparticles, and macromolecules) and their application in the removal and chemical detection of toxic anions, heavy metals and VOCs for wastewater treatment

Title of the Speech : From small molecules to polymeric adsorbents: a new approach to remove conventional and emerging pollutants from wastewater

▪ Pr. Youssef AIT EL KADI

Engineering Sciences and Energy Management Laboratory - Ibn Zohr University, Morrocco

Youssef Ait El Kadi obtained his “Agrégation” degree in Electrical Engineering and Power Electronics in 2000, followed by a postgraduate diploma in Energetics in 2004. He received his Ph.D. in Instrumentation, Measurements, Control, Characterization, and Modeling in 2016. He is currently an associate professor and teacher-researcher at Ibn Zohr University - Morocco, and was previously affiliated with Sultan Moulay Slimane University, with over 28 years of teaching experience.

He is a permanent member of the Engineering Sciences and Energy Management Laboratory at Ibn Zohr University and a member of the Engineering and Applied Physics Laboratory at Sultan Moulay Slimane University. His research focuses on the modeling and control of electrical machines and power electronics converters, the optimization of renewable energy conversion and grid integration, microgrids, smart grids, and power quality improvement, as reflected in numerous publications in indexed journals. In addition, he has reviewed over 120 manuscripts for indexed journals.

Professor Youssef Ait El Kadi has held several administrative positions and he is involved in international research and cooperation projects, including FoPEnSER, ADESFA, ADRF, PIC_FP-EnR, and SOLEIL-NYAKIRIZA, serves on scientific committees of international conferences, reviews indexed journals, and is an expert member of the team involved in the design, accreditation, and evaluation of a Master’s program in Renewable Energy at the University of Burundi, funded by the World Bank

Email: y.aitelkadi@uiz.ac.ma

Title of the Speech: What Will Our Energy Systems Look Like in 2050? Opportunities, Hidden Challenges, and Transformative Innovations

▪ Pr. Baghli Fatima Zahra

Engineering and Applied Physics Laboratory (EAPL), Higher School of Technology, Sultan Moulay Slimane University, Beni Mellal, Morocco

Fatima Zahra Baghli is a Moroccan researcher specializing in mechatronics and robotics. She currently serves as a professor in the Department of Mechatronics at the Higher School of Technology of Sultan Moulay Slimane University in Beni Mellal, Morocco, a position she has held since 2017. She obtained her Ph.D. in Mechatronics and Robotics from Abdelmalek Essaâdi University, following a Master’s degree in Mechatronics Engineering from the Faculty of Sciences in Tetouan.

Her research focuses on the modeling, control, and optimization of mechatronic and robotic systems, with particular emphasis on intelligent control strategies and system performance enhancement. Throughout her academic career, she has contributed to several scientific publications, including journal articles and book chapters, reflecting her engagement in advancing the field of mechatronics engineering.

Title of the Speech : Beyond Motion Control: An Integrated Mechatronic and Energy-Aware Framework for Intelligent Robotic Manipulation

- Pr. Younes Ziat

Engineering and Applied Physics Laboratory (EAPL), Sultan Moulay Slimane University, Morocco

Younes Ziat is a Moroccan physicist and academic affiliated with Sultan Moulay Slimane University in Beni Mellal. He serves as a professor at the Higher School of Technology, where he is involved in both teaching and research activities. His research interests encompass areas such as thin films, spintronics, magnetic materials, and density functional theory. Dr. Ziat has contributed to various scientific publications and has been involved in organizing international conferences related to materials science and sustainable energy. Dr. Ziat is active in academic circles, participating in conferences and contributing to the advancement of materials science in Morocco. His dedication to both education and research underscores his commitment to the scientific community.

Title of the Speech : Boosting the Photocatalytic Hydrogen Production via the S/Zr Co-Doping in a $CaTiO_3$ Perovskite: First-Principles Study of the Optoelectronic, Thermodynamic, and Photocatalytic

- Pr. Yassine Lakhal

Engineering and Applied Physics Laboratory (EAPL), Higher School of Technology, Sultan Moulay Slimane University, Beni Mellal, Morocco

Is a professor and researcher in Mechatronics at the Higher School of Technology of Beni Mellal, Sultan Moulay Slimane University (Morocco). His research focuses on intelligent control, modeling, and optimization of wind energy systems. He is also the coordinator of the Mechatronics program and director of the university's FabLab, where he promotes innovation and digital manufacturing.

Title of the Speech : Next Generation of Wind Turbines: Smart Design, Intelligent Blades, and Advanced Control

▪ Pr. Hamid HAMDANI

Engineering and Applied Physics Laboratory (EAPL), Higher School of Technology, Sultan Moulay Slimane University, Beni Mellal, Morocco

Pr. Hamid HAMDANI is an Associate Professor of Mechatronics Engineering at the High School of Technology (EST), Sultan Moulay Slimane University, Beni Mellal, Morocco, and a permanent member of the Engineering and Applied Physics Laboratory (EAPL). He received the joint Ph.D. degree in Mechanical and Mechatronic Engineering from the Institut National des Sciences Appliquées de Rouen Normandie (INSA Rouen Normandie), France, and the Faculty of Sciences and Technologies of Settat, Hassan I University, Morocco, in 2019, conducted within the Laboratoire de Mécanique de Normandie (LMN) and the Laboratoire IMII.

His research interests include surrogate modelling, evolutionary computation, structural reliability analysis, and reliability-based design optimization (RBDO) of mechatronic systems. He proposed surrogate-based optimization and reliability methodologies integrating the CMA-ES algorithm and Kriging metamodels to address the computational challenges of expensive multiphysics simulations in engineering design.

Title of the Speech : From Classical Simulation to Metamodels: A Unified Framework for Mechatronic System Reliability Analysis and Optimization

▪ Pr. Mohammed Ali Jallal

Higher Normal School, Sidi Mohamed Ben Abdellah University in Fez, Morocco Ingénieur Post doctoral DTCH/SSETI/LSET; Centre de Grenoble/ Site du Bourget-du-Lac, France

Dr. Mohammed Ali Jallal is a Professor at Sidi Mohamed Ben Abdellah University in Fez, Morocco, specializing in Artificial Intelligence and smart energy systems. He earned his Ph.D. in 2021 from the Faculty of Sciences Semlalia at Cadi Ayyad University in Marrakesh, focusing on the integration of AI with renewable energy and electrical engineering. During his doctoral studies, he completed a research internship at the University of Murcia in Spain, where he worked on hybrid machine learning approaches applied to smart buildings. He previously served as a researcher at the French Atomic Energy Commission and Alternative Energies (CEA) in France, contributing to advanced projects on AI-driven energy systems, including international initiatives related to energy optimization and system digitalization. His work also spans areas such as intelligent thermal systems and sustainable energy solutions. Prof. Jallal has collaborated with multidisciplinary teams across Europe and contributed to several international research projects. He has authored and co-authored numerous scientific publications in AI and the energy sector. In addition, he serves as a reviewer for leading publishers including Elsevier, Springer, Wiley, and IET, and actively participates as a member of program committees for international conferences worldwide.

Title of the Speech : Bridging Trust and Intelligence: AI-Driven Energy Systems in an Uncertain World

▪ Dr. Hamza Belkhanchi

Engineering and Applied Physics Laboratory (EAPL), Sultan Moulay Slimane University, Morocco
****** Portugal***

Hamza Belkhanchi is a PhD holder in Materials Science with a specialization in chemistry-physics and nanomaterials for energy applications. He obtained his doctorate from the Faculty of Sciences and Techniques of Beni Mellal, Sultan Moulay Slimane University, Morocco. His research focuses on the synthesis, characterization, and optimization of nanocomposites, particularly carbon nanotube-based materials, for photovoltaic and sustainable energy applications. He has extensive experience in teaching and research. His work integrates experimental approaches with computational methods, including Density Functional Theory (DFT), to design advanced materials with improved optoelectronic and catalytic properties. Dr. Belkhanchi has authored over 47 scientific publications in international journals and actively participates in international conferences. His research interests align with green chemistry, circular economy principles, and the development of innovative materials for environmentally friendly energy systems.

Title of the Speech: First-principles investigation of Zr/Te co-doped $XTiO_3$ (X = Ca, Sr) perovskites for improved solar hydrogen production and optoelectronic applications

▪ Dr. Ahmed Abarkan

Biomechanics & Bioengineering Laboratory, CNRS, Université de Technologie de Compiègne, 60203 Compiegne, France

Ahmed Abarkan est docteur en bioingénierie et génie des procédés. Depuis 2017 en France, ingénieur lauréat de l'ENSAH, il a poursuivi un doctorat puis un postdoctorat à l'Université de Technologie de Compiègne. Il a consacré ses recherches à la "dialyse verte", une approche visant à recycler et valoriser les rejets d'osmose inverse issus de la dialyse. Il travaille en recherche et développement dans l'industrie du traitement des eaux, notamment sur la conception d'équipements pour les stations d'épuration et le dessalement, et s'intéresse à l'amélioration de la gestion et de la réutilisation de l'eau

Title of the Speech : Towards sustainable dialysis: innovations in waste recycling and water treatment

Scientific Committee

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Pr. Mikhael Bechelany University of Montpellier, Montpellier, France
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Pr. Salah TOUIL National School of Applied Sciences, Khouribga, Morocco
Pr. Ouafae Hamdoun Sultan Moulay Slimane University, Beni Mellal, Morocco
Pr. Hande Girard OSTIM Technical University, Yenimahalle Ankara, Türkiye
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Pr. Rachid Bouhdadi University of Lorraine, Nancy, France
Dr. Mohamed El Bastrioui Abdelmalek Essaadi University, Tetouan, Morocco
Mr. Ayoub Koufi Sultan Moulay Slimane University, Beni Mellal, Morocco
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Pr. Ali Lamkaddem Abdelmalek Essaadi University, Tetouan, Morocco
Pr. El houssien Akichouh Mohammed Premier University, Oujda Morocco
Pr. Mohamed Bendaoud Sultan Moulay Slimane University, Beni Mellal, Morocco
Pr. Mustapha Boulghalat Sultan Moulay Slimane University, Beni Mellal, Morocco
Pr. Kekeli N'konou Université de Lille, Lille, France
Pr. RAJI Hajar Sultan Moulay Slimane University, Beni Mellal, Morocco
Pr. Ahmed Toukmati Abdelmalek Essaadi University, Tetouan, Morocco
Pr. Hlaing Htake Khaung Tin Faculty of Information Science, Myanmar
Pr. Anass Lamaizi Abdelmalek Essaadi University, Tetouan, Morocco
Pr. Mohammed Ellaite Higher School of Technology – Béni Mellal, Morocco
Pr. Adil Soufi Abdelmalek Essaadi University, Tetouan, Morocco
Pr. Younes Abou El Hanoune Abdelmalek Essaadi University, Tetouan, Morocco
Pr. Aassem Younes Sultan Moulay Slimane University, Beni Mellal, Morocco
Pr. Ali Allaoui Sultan Moulay Slimane University, Beni Mellal, Morocco
Dr. Abdelajalil HAMDI Abdelmalek Essaadi University, Tetouan, Morocco
Dr. Ahmed Abarkan Biomechanics & Bioengineering Laboratory, CNRS, Université de Technologie de Compiègne, France

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Pr. Adil Soufi Abdelmalek Essaadi University, Tetouan, Morocco

Pr. Abderrahim Zannou Abdelmalek Essaadi University, Tetouan, Morocco

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Dr. Hamza Belkhanchi Sultan Moulay Slimane University, Beni Mellal, Morocco

Pr. El houssien Akichouh Mohammed Premier University, Oujda Morocco

Pr. Mohamed Saih Sultan Moulay Slimane University, Beni Mellal, Morocco

Pr. Hamid Elmoutaouakil Regional Academy of Education and Formation, Beni Mellal-Khénifra

Ms. Souad Bouyassan, PhD student, Sultan Moulay Slimane University, Beni Mellal, Morocco

Mr. Ayoub Koufi Sultan Moulay Slimane University, Beni Mellal, Morocco

Mr. Walid Iken PhD student, Sultan Moulay Slimane University, Beni Mellal, Morocco

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Ms. Chaimae EL Youssfi PhD student, Abdelmalek Essaadi University, Tetouan, Morocco

Dr. Hamid EL MOUMEN Abdelmalek Essaadi University, Tetouan, Morocco

Mr. Youssef El Moussati Abdelmalek Essaadi University, Tetouan, Morocco

Mr. Mustapha AIT OMAR Abdelmalek Essaadi University, Tetouan, Morocco

Mr. Adil BEN-FARES Abdelmalek Essaadi University, Tetouan, Morocco

Ms. Fatima El ARNOUKI Abdelmalek Essaadi University, Tetouan, Morocco

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Mr. Mohamed Asbai Abdelmalek Essaadi University, Tetouan, Morocco

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Mr. AAZIZI Anass Higher School of Technology – Beni Mellal

Mr. Said El Ouardi PhD student ,Higher School of Technology – Beni Mellal, Morocco

Widad LAMNIAI FST-Al Hoceima, Abdelmalek Essaadi University, Tetouan, Morocco

Hanane Gaou FST-Al Hoceima, Abdelmalek Essaadi University, Tetouan, Morocco

Kharta Azzeddine FST-Al Hoceima, Abdelmalek Essaadi University, Tetouan, Morocco

Nada Nahi FST-Al Hoceima, Abdelmalek Essaadi University, Tetouan, Morocco

Mohmaed Taibi FST-Al Hoceima, Abdelmalek Essaadi University, Tetouan, Morocco

Alae Mouddou FST-Al Hoceima, Abdelmalek Essaadi University, Tetouan, Morocco

Nada Bobouh ENSA, Abdelmalek Essaadi University, Tetouan, Morocco

SALMA El Hajjari FST-Al Hoceima, Abdelmalek Essaadi University, Tetouan, Morocco

Mohamed Bahouch FST-Al Hoceima, Abdelmalek Essaadi University, Tetouan, Morocco

Technical Committee

Pr. Charaf Laghlimi **Abdelmalek Essaadi University, Tetouan, Morocco**

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Pr. Aziz srai **Abdelmalek Essaadi University, Tetouan, Morocco**

Pr. Mourad Fariss **Abdelmalek Essaadi University, Tetouan, Morocco**

Pr. Younes Ziat **Sultan Moulay Slimane University, Beni Mellal, Morocco**

Pr. Rachida Ouaabou **Abdelmalek Essaadi University, Tetouan, Morocco**

Pr. Abdelaziz Moutcine **Sultan Moulay Slimane University, Beni Mellal, Morocco**

Dr. Hamza Belkhanchi **Sultan Moulay Slimane University, Beni Mellal, Morocco**

Mr. ABARKAN Abdechahid Faculty of Sciences and techniques of Al Hoceima

Ms. CHAIMAA BENYICHE Sultan Moulay Slimane University, ENSA-Khouribga, Morocco

DAY 1

Day 1 : Tuesday, 28th April, 2026

8h30 _ 9h30	***Registration***
9h30 _ 10h00	***Official Opening Ceremony*** ***Welcome address by*** ***Pr. Bouchta El Moumni /*** *President of Abdelmalek Essaadi University-Morocco* **Pr. Mohammed Bakkali /** *Dean of Faculty of Sciences and Techniques, Al-Hoceima- Morocco* ***Pr. Charaf Laghlimi/*** *Faculty of Sciences and Techniques, Al Hoceima–Morocco* ***Pr. Yassine Lakhal/*** *Coordinator of the Mechatronics Program and Director of the university's FabLab Sultan Moulay Slimane University-Morocco*

Please check the time zone so you don't miss the event slots.

******Honoring Ceremony******

-- Session 1: Green Chemistry, Materials and AI-driven energy systems --

Google Meet link :

https://teams.microsoft.com/meet/388174432592189?p=CMk9q2LLNguhvAc7bP

Opening keynote speaker Session

Session Chair : Pr. Hassan AMHAMDI_ Vice Dean in charge of Educational Affairs , Abdelmalek Essaadi University

10h00 _ 11h00	Plenary 1: Green approaches to build up free fluorine anti-wetting surfaces ***Pr. Frédéric Guittard*** *(COTE d'AZUR University, France –* ***Onsite****)* ➢ ***40 min talk + 20 min discussion***
11h00 _ 11h30	***Coffee break***

DAY 1

--Plenary Speakers—

Google Meet link :

https://teams.microsoft.com/meet/388174432592189?p=CMk9q2LLNguhvAc7bP

Session Chair: Pr. Yassine LAKHAL / Coordinator of the Mechatronics Program and Director of the university's FabLab, Sultan Moulay Slimane University-Morocco

11h30 _ 12h30	Plenary 2: Bridging Trust and Intelligence: AI-Driven Energy Systems in an Uncertain World ***Pr. Mohammed Ali Jallal*** *(Sidi Mohamed Ben Abdellah University, Former researcher at the Grenoble center / Bourget-du-Lac site, France- Onsite)* ➢ ***40 min talk + 20 min discussion***

Session Chair : Pr. Jalal ISAAD, ERCI2A, FSTH, Abdelmalek Essaadi University

12h30 _ 13h15	Plenary 3: Upcycling Commodity Polymers for the Preparation of Added-value Materials and Fuels ***Pr. Rabah Boukherroub (Institute of Electronics, Microelectronics and Nanotechnology (IEMN), France – Virtual)*** ➢ ***30 min talk + 15 min discussion***

DAY 1

13:15 – 15:00 | ORAL SESSION (Parallel sessions)

❖ Theme 1 : Chemistry / Materials

Pr. GUITTARD Frederic, Pr. Yassine LAKHAL, Pr. Hassan AMHAMDI,

🏛 Conference Room

Google Meet link:
https://teams.microsoft.com/meet/390261242809516?p=yqVzRvuunFhtRziXYh

ONSITE **virtual**

PY46133	TAFRAOUT Fatiha **/Al Hoceima** Adsorptive Removal of PFAS from Wastewater: Recent Advances, Challenges, and Perspectives	**VY461109**	Muhammad Arif Budiyanto **/Indonesia-United Kingdom (UTC+7)** Comparative Review of Solar Radiation Models for Hourly Solar Intensity Estimation in the Indonesian Tropical Region
PY46147	Hicham El-Assib **/Rabat** Electron extraction layer-driven performance enhancement in CaHfSe3 photovoltaics	**PY46141**	Ramiro Martins/ **Bragança, Portugal (UTC+1)** Enhancing Methane Production from Crude Glycerol Through Ultrasound Pretreatment
PY46137	Oussama Darare **/Rabat** DFT Study of Functionalized γ-Al_2O_3 Surfaces for Optimized CO_2 Capture	**VN461142**	Ayoub Koufi/ **Béni Mellal** Physical Characteristics of Hydride Perovskites XZrH3 (X = Mg, Ca, Sr, and Ba) as Materials for Hydrogen Storage: A First-Principles Investigation

DAY 1

❖ Theme 2: Energy Systems /AI/ Environment

Room 5

Google Meet link:
https://teams.microsoft.com/meet/359143774092335?p=qQD2dKCn4PfuzLj49V

Pr. Mohammed Ali JALLAL, *Pr.* Fatima Zahra BAGHLI , Pr. Youssef AIT EL KADI, *Pr. Adil Soufi*

	ONSITE		virtual
PN46116	Reda Er-Roukhou /Al Hoceima/ Engineering Tunable Defect Modes in Hybrid Photonic Crystal Structures for Advanced Wavelength-Selective Filtering	VY461134	Muhammad Taufiq/ Yogyakarta, Indonesia (UTC+7) Optimization of Energy Availability of Offshore Solar Photovoltaic Systems in the Middle East Considering Tilt Angle and Fouling Effects
PY461124	Redouane MIHRAMANE /Casablanca/ Physics-Constrained Multi-Agent Deep Reinforcement Learning for Real-Time Energy Management of a Saharan Hybrid Microgrid	WY46193	Balaji V/Manipur,India (UTC+5:30) AI-driven shortest routing techniques in iot-enabled vehicular networks: A comprehensive review of deep learning models
PY46196	JAMAL EZZINE/ Béni Mallal LegalTrans: An Intelligent Pipeline for Automatic Translation of Arabic Judicial Documents into Italian using OCR and Multilingual Neural Models		

Room 6

Google Meet link:
https://teams.microsoft.com/meet/329865484223096?p=tWsHgs4p11tDk31bJk

Pr. Jalal ISAAD, Pr. M'hamed AHARI, Pr. Fouad Mourabit

	ONSITE		virtual
PN46152	Atlamsani Mohamed Amine/ Tetouan Propriétés thermophysiques des polyalphaoléfines et des esters utilisés comme fluides de base en lubrification	VN461130	Doris HOUSSOU/ Cotonou,BENIN (UTC+1) Impact of the gari/salt production service model with improved stoves on the reduction and redistribution of women's working time and on-air quality
PY46150	Ilham ABERKAN/Nador Clay-based Hybrid Materials: a Sustainable Approach for Advanced Applications	VY46142	Safaa Alqudah/ Bragança, Portugal (UTC+1) Ozone-Based Pretreatment of Waste Sludge for Enhanced Anaerobic Digestion and Biogas Yield
		VN46110	Mohammed Mahjoub/ Oujda Trace metal levels in water and edible tissues of Liza ramada along the northeastern Mediterranean coast of Morocco: implications for human health risk assessment

DAY 1

Room 7

Google Meet link:
https://teams.microsoft.com/meet/321413184795182?p=pkTin5z3IpYrDsKBhW

Pr. Hamid HAMDANI, Pr. Aziz Srai, Pr. Ahmed Toukmati

virtual

PN46120	Sara Faryat/**Rabat** Ab-initio Insights into the Stability, Electronic Structure of SEI layer and Diffusion Kinetics of Li between $Li_7La_3Zr_2O_{12}$ and Lithium metal Anode	PN46124	Khaoula Chaoui/ **Rabat** Interface Engineering to Prevent Dendrite Growth in Sulfide-Based Na-metal Batteries
VY46112	OTMANE DARBAL/ **Kénitra** Data-driven approach for assessing water quality–related risks: application of Self-Organizing Maps (SOM) to the Inaouen watershed	VN46125	Ech-chebaby Mohamed/**Béni Mellal** PUF-Based Lightweight Mutual Authentication Protocol for IoT: Formal Security Verification and Performance Evaluation
VY46114	OTMANE DARBAL/ **Kénitra** Statistical modeling and machine learning of COVID-19 vaccination dynamics in France		

Room BP

Google Meet link:
https://teams.microsoft.com/meet/367731565076104?p=liOC7bcV3gNJlEBc6i

Pr. Ouafae Hamdoun, Pr. Ali Lamkaddem, Pr. Mustapha Hamdi

virtual

VY46108	Otajonov Salim Madraximovich/ **Ferghana, Uzbekistan (UTC+5)** The Use of Solar Cells Based on pCdTe – nCdS and pCdTe – nCdSe Heterostructures and Their Application in Devices	VN46135	RIBAG KHALIL/ **Taza** First-Principles Investigation of Thermoelectric and Optoelectronic Properties of Silicon-Doped Tetragonal Graphene for Photocatalytic Applications
VY46131	Sabir HAJJAJI/**Kenitra** A Systematic Literature Review of thermoelectric properties of antimony trisulfide (Sb_2S_3)	VY46143	Mohamed Ait Ichou/ **Berrechid** Molecular dynamics study of the properties of TiNi thin films deposited on a Ni substrate: effect of the incidence angle
VN46134	Mustapha Bryk/**Khouribga** Structural, Electronic, Optical, and Device Properties of Ga-Doped $CuIn_{1-x}Ga_xSe_2$ Absorber Layers for Thin-Film Solar Cells: A DFT+U and SCAPS-1D Study		

15h00 _ 16h30 ***Lunch Break***

DAY 1

Session 2: Advanced Materials for Sustainability

Google Meet link :

https://teams.microsoft.com/meet/388174432592189?p=CMk9q2LLNguhvAc7bP

Session Chair: Pr. Fatima Zahra BAGHLI, Engineering and Applied Physics Laboratory (EAPL), Sultan Moulay Slimane University, Beni Mellal, Morocco /Pr. Jalal ISAAD, ERCI2A, FSTH, Abdelmalek Essaadi University

16h30 _ 17h15	Plenary 4: Small Scale, Big Power: The Microfluidic Energy Revolution ***Pr. Mohamed Mohamedi (Institut National de la Recherche Scientifique (INRS), Centre Energie, Materiaux et Telecommunications, Canada – Virtual)*** ➢ *30 min talk + 15 min discussion*

17:15 – 18:45 | ORAL SESSION (Parallel sessions)

❖ Theme 3: Energy & Smart Systems

🏛 Conference Room

Google Meet link:

https://teams.microsoft.com/meet/390261242809516?p=yqVzRvuunFhtRziXYh

Pr. GUITTARD Frederic, Pr. Ouafae Hamdoun, Pr. Youssef AIT EL KADI

ONSITE

PY461125	Amjad ECH-CHARQAOUY/**casablanca** Reinforcement Learning-Based Predictive Maintenance Framework for Desert Photovoltaic Systems
PY461123	Nizar ECH-CHARQAOUY/**casablanca** Physics-Informed Deep Reinforcement Learning for Compact VBT Farms: Integration, Power Quality, and Economics

virtual

VY461132	Sergio Rubén Ocampo-Pérez / **Cuernavaca, Mexico (UTC-6)** Application of Machine Learning for the Prediction of Coulombic Efficiency in Lithium Metal Batteries
PY461118	Youssef El Moussati /**Al Hoceima** Periodic and Quasiperiodic Energy Harvesting in a Duffing Oscillator Coupled to a Van der Pol resonant circuit

DAY 1

Room 5

Google Meet link:
https://teams.microsoft.com/meet/359143774092335?p=qQD2dKCn4PfuzLj49V

Pr. Fatima Zahra BAGHLI , Pr. Abderrahim Zannou, Pr. Yassine LAKHAL

ONSITE

WY46186	LEFHAL LALAOUI IKRAM/ **Tangier** Artificial Intelligence and Big Data for Dynamic Pricing in Renewable Energy Markets: A Systematic Review	VN461111	Jawad Islah/ **Rabat** Hydrogen Storage and Optoelectronic Properties of Lithium-Based Li_2BH_6 (B = Pt, Pd, Ni) Lead-Free Perovskite Hydrides: A First-Principles Investigation
PY461117	Youssef El Moussati/ **Alhoceima** Energy harvesting from galloping vibrations using a Van der Pol circuit	VY461771	Noureddine Elmeskini/ **Béni mellal** Hydrogen Storage Potential and Thermoelectric Properties of KXH_3 (X = Al, Mn, Ni) Perovskite Hydrides

virtual

Room 6

Google Meet link:
https://teams.microsoft.com/meet/329865484223096?p=tWsHgs4p11tDk31bJk

Pr. Hamid HAMDANI, Pr. Aziz Srai, Pr. Ahmed Toukmati, Pr. Anass Lamaizi

virtual

VY461135	SASSI NAOUFAL /**Tangier** An Intelligent Mobile LiDAR Approach for High-Efficiency 3D Urban Mobility Analytics	VY461133	Mohamed AJAKANE/ **Casablanca** An imaging approach for identifying damage in plate-like structures using PZT sensor arrays through the integration of the RAPID algorithm
VY461137	Hamza Belkhanchi/ Portugal/ **(UTC+1)** Co-Doping Strategies in $CaZrO_3$ Perovskites for Enhanced Photocatalytic Hydrogen Production and CO_2 Reduction	VY46155	IMANE LAFRAM/**Casablanca** Fouling dynamics driven by flow in an industrial shell and tube heat exchanger
VY461140	Younes Ziat / **Béni Mellal** Pressure-Tunable Optoelectronic Properties of $AlSnBr_3$ and $AlSnI_3$ Halide Perovskites: A DFT Study	VN461114	Sara Makrouf/ **Rabat** Balancing AI's Energy Footprint with Dynamic Energy Governance

DAY 1

❖ Theme 4: Environment & Sustainability

Room 7

Google Meet link:
https://teams.microsoft.com/meet/321413184795182?p=pkTin5z3IpYrDsKBhW

Pr. Jalal ISAAD, Pr. Amin SALHI, Pr. Taoufik Rohand, Pr. Fouad Mourabit

	ONSITE		virtual
PN46175	Akhittouch Oumayma/ **Al hoceima** Towards zero emerging pollutants in water	VY46111	BEHJA Yousra/**Marrakech** Nanomaterials for Environmental Protection: Iron-Doped Biochar for Advanced Wastewater Depollution
PN46156	Ahidar Basma/ **Al hoceima** Agricultural waste–derived adsorbents for the removal of pharmaceutical pollutants from wastewater: A review	VN46128	Imane YAZIDI/ **Tangier**, **Valencia** Spain Sustainable Removal of Antibiotic from Water Using Argan Shell–Derived Activated Hydrochars: Experimental Adsorption Study

Session for Master's students in sciences and techniques

❖ Theme 5: Specific analyses of surafces and materials

Study of a scientific publication

Room CAQ

Pr. M. Abdelaziz EL Aamrani, Pr. Abdellah El Youssfi, Pr. Mohammad Ghalit

ONSITE

CAQ1	Oulad ali nadia / Belhaj Nawal Characterization of silver nanoparticles synthesized using Urtica dioica Linn. leaves and their synergistic effects with antibiotics	CAQ4	EL MORABIT Maryam /Assouti Ouarda Ammonia gas sensors based on undoped and Ca-doped ZnO nanoparticles
CAQ2	El Hajjaj Samra /Allouch Kaoutar Organic Pyridinium Salts as Corrosion Inhibitors for Mild Steel in Acidic Wastewater: Experimental and DFT Study	CAQ5	EL ABDELLAOUI Lamyae /EL BOUCHTAOUI salima Facile synthesis of nano-Si/graphite composites from rice husk for high performance lithium-ion battery anodes
CAQ3	Nader EL AJJOURI / Naoual EL GHARSS Electrochemical synthesis of graphene oxide from graphite flakes exfoliated at room temperature		

18h45 _ 19h15 | *Coffee break*

End of the 1st day

DAY 2

Day 2 : Wednesday, 29th April, 2026

Session 3: Energy & Sustainability

--Plenary Speakers—

Google Meet link :

https://teams.microsoft.com/meet/388174432592189?p=CMk9q2LLNguhvAc7bP

Session Chair : Pr. Yassine LAKHAL /Engineering and Applied Physics Laboratory (EAPL), Higher School of Technology, Sultan Moulay Slimane University, Beni Mellal, Morocco

09h00 _ 10h00	Plenary 5: What Will Our Energy Systems Look Like in 2050? Opportunities, Hidden Challenges, and Transformative Innovations ***Pr.Youssef Ait El Kadi*** *(Engineering Sciences and Energy Management Laboratory - Ibn Zohr University, Morrocco – Onsite)* ➢ ***40 min talk + 20 min discussion***

Session Chair: Pr. M. Abdelaziz EL Aamrani Ibn Zohr University, Agadir, Morocco

10h00 _ 11h00	Plenary 6: Beyond Motion Control: An Integrated Mechatronic and Energy-Aware Framework for Intelligent Robotic Manipulation ***Pr. Fatima Zahra Baghli (Engineering and Applied Physics Laboratory (EAPL), Higher School of Technology, Sultan Moulay Slimane University, Beni Mellal, Morocco – Onsite)*** ➢ ***40 min talk + 20 min discussion***

11h00 _ 11h30	***Coffee break***

DAY 2

--Plenary Speakers—

Google Meet link :

https://teams.microsoft.com/meet/388174432592189?p=CMk9q2LLNguhvAc7bP

Session Chair : Pr. Fouad Mourabit ,FSTH, Abdelmalek Essaadi University

11h30 _ 12h30

Plenary 7: Next Generation of Wind Turbines: Smart Design, Intelligent Blades, and Advanced Control

Pr. Yassine LAKHAL *(Engineering and Applied Physics Laboratory (EAPL), Higher School of Technology, Sultan Moulay Slimane University, Beni Mellal, Morocco – Onsite)*

- ***40 min talk + 20 min discussion***

Session Chair : Pr. Ouafae Hamdoun Sultan Moulay Slimane University, Beni Mellal, Morocco

12h30 _ 13h30

Plenary 8: From Classical Simulation to Metamodels: A Unified Framework for Mechatronic System Reliability Analysis and Optimization

Pr. Hamid HAMDANI *(Engineering and Applied Physics Laboratory (EAPL), Higher School of Technology, Sultan Moulay Slimane University, Beni Mellal, Morocco – Onsite)*

- ***40 min talk + 20 min discussion***

DAY 2

13:30 – 15:00 | ORAL SESSION (Parallel sessions)

❖ Theme 6: Integrated Advances in Materials, Renewable Energy Systems, and Techno-Economic Applications

🏛 Conference Room

Google Meet link:
https://teams.microsoft.com/meet/390261242809516?p=yqVzRvuunFhtRziXYh

Pr. Yassine LAKHAL Pr. Ouafae Hamdoun, Pr. Youssef AIT EL KADI

ONSITE **virtual**

PY46158	GUESMI Ibtissam/ **Oujda** Tuning the Electronic and Optical Properties of Bulk ZrS_2 via Titanium Doping: An ab Initio Investigation	**VY461105**	Muhammad Arif Budiyanto/ **Indonesia.,United Kingdom/(UTC+7)** Design and Energy Cost Evaluation of a Portable Cold Storage Unit for Tuna Fish Using the LCOE Approach
PN46159	Safae Aaouad/ **Oujda** Impact of Solar Irradiance Measurement Methods on Green Hydrogen Production Potential in a Desert Site of Eastern Morocco	**VY461112**	Muhammad Arif Budiyanto/ **Indonesia.,United Kingdom/(UTC+7)** Technical Design and Investment Feasibility Analysis of a 30-GT Steel Fishing Vessel for Operations in the Java Sea
PN46161	Maryam MEHDI/ **Oujda** Experimental Assessment of Soiling Effect on the Performance of Different PV Technologies under Semi-arid Climate	**VN461143**	Ayoub Koufi/ **Béni mallal** DFT and BoltzTrap investigations on the thermal and structural characteristics of the perovskite MgCuH3 and MgCoH3

DAY 2

❖ Theme 7: Chemistry and sustainable environment

Room 5

Google Meet link:
https://teams.microsoft.com/meet/359143774092335?p=qQD2dKCn4PfuzLj49V

Pr. Jalal ISAAD, Pr. Amin SALHI, Pr. Taoufik Rohand

virtual

VY46127	Ouaissa khadija/ **Agadir** Ecological Approach to the Reuse of Aquaculture Water in Agriculture2	**VN46139**	MAHAMADOU KODIO/ **Béni Mellal** Use of Functionalized Cellulose for the Filtration and Adsorption of Micropollutants in Water
VN46136	HAFDI Anas/ **Béni Mellal** From Moroccan Phosphate to Water Remediation: Sustainable Adsorbents for Wastewater Treatment	**VY46151**	OUMAYMA EL WAFI/**Béni Mellal** Lavender Straw–Derived Beads Functionalized with Self-Assembled Metal–Phenolic Networks for Aqueous Dye Removal
VY46138	Fatima Oubihi/ **Tetouan** Electronic structure and optical properties of Methylammonium Lead Halide Perovskites for Tandem Solar Cell applications	**VN461144**	Imane Regragui/ **Al Hoceima** Global Trends in Groundwater Contamination and Clay-Based Remediation: A Bibliometric Analysis with a Focus on the Morocco Case Study

❖ Theme 8: Advances in Hydrology, Energy Management, and Environmental Technologies

🏛 Room 6

Google Meet link:
https://teams.microsoft.com/meet/329865484223096?p=tWsHgs4p11tDk31bJk

Pr. Hamid HAMDANI, Pr. Aziz Srai, Pr. Ahmed Toukmati, Pr. Anass Lamaizi

virtual

VN46154	Oumayma Jahid/ **Al Hoceima** A novel heterogeneity-driven adaptive IMPES scheme for robust simulation of immiscible pollutant transport in complex aquifers	**WY46183**	Yassine ELYAAKOUBY/ **Errachidia** Energy Management of a Brackish Water Reverse Osmosis Plant Using Time-of-Use Electricity Tariffs
VY46162	EL KARFA DRISS/**Kénitra** Assessment of the impact of drought on water resources in the Gharb plain: approach using the Support Vector Regression (SVR)	**VN46195**	Amine BENDAHHOU/ **Nador** Photocatalytic degradation of methylene blue by tetragonal tungsten bronze modified by a heterojunction with graphitic-C3N4 in the presence of sunlight
VY46176	RAJAE ERRAFIA/**Tetouan** Analyse bibliométrique de l'optimisation et de l'amélioration des systèmes de contrôle qualité dans l'industrie agroalimentaire : impact sur la durée de vie des produits alimentaires		

15h00 _ 16h30 ***Lunch break***

DAY 2

Session 4: Machine Learning Applications and Innovative Water Treatment Strategies

--Plenary Speakers—

Google Meet link :

https://teams.microsoft.com/meet/388174432592189?p=CMk9q2LLNguhvAc7bP

Session Chair: Pr. Hassan AMHAMDI_ Vice Dean in charge of Educational Affairs , Abdelmalek Essaadi University/ Pr. Jalal ISAAD , ERCI2A, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco / Pr. Fouad Mourabit, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco

16h30 _ 17h15	Plenary 9: Data Mining and Machine Learning for Analysis of Network Traffic ***Pr. Ljiljana Trajkovic*** *(Simon Fraser University, Canada ; Virtual)* ➢ ***30 min talk + 15 min discussion***

Session Chair: Pr. Hassan AMHAMDI - Vice Dean in charge of Educational Affairs , Abdelmalek Essaadi University / Pr. Fouad Mourabit, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco

17h15 _ 18h15	Plenary 10: From small molecules to polymeric adsorbents: a new approach to remove conventional and emerging pollutants from wastewater ***Pr. Jalal ISAAD*** *(ERCI2A, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco, On site)* ➢ ***40 min talk + 20 min discussion***

18:15 – 19:15 | ORAL SESSION (Parallel sessions)

❖ Theme 9: Recent Advances in Eco-Friendly Solar Cells and Geotechnical Risk Assessment

Conference Room

Google Meet link:
https://teams.microsoft.com/meet/390261242809516?p=yqVzRvuunFhtRziXYh

Pr. Ali Lamkaddem, Pr. Mustapha Hamdi, Pr. Youssef AIT EL KADI, Pr. Yassine LAKHAL

ONSITE

PY46173	Ben abdelmalek Khalil / **Al hoceima** Interfacial Engineering of Eco-Friendly and Lead-Free Perovskite Solar Cells for High-Performance Green Photovoltaics	PY46174	Ben abdelmalek Khalil/ **Al hoceima** High-Efficiency and Eco-Friendly CZTSe/SnS Heterostructures: Simulation-Based Pathways to Next-Generation Solar Cells
PY46178	Lajdel Fatima Zohra/ **Kénitra** Study of ground instability in the El Jabha-Takamout region (Rif)		

❖ Theme 10: Emerging Trends in Advanced Materials, Photocatalysis, Spin Physics, and Machine Learning-Based Engineering Systems

Room 5

Google Meet link:
https://teams.microsoft.com/meet/359143774092335?p=qQD2dKCn4PfuzLj49V

Pr. Fatima Zahra BAGHLI , Pr. Ouafae Hamdoun

ONSITE **VIRTUAL**

PN461115	AHMED EL KOUKA/ **Alhoceima** Ultrasensitive Glucose Detection Using an Acoustic Biosensor with BIC-Induced Fano Resonance Coupling	VY461136	Fatima Ezzahra Belkhanchi/ **Porto, Portugal/ (UTC+1)** Robust QSAR Modeling for Predicting Inhibitory Activity of Bioactive Compounds
PN461129	Mustapha Nabaoui/ **Béni Mellal** Electromagnetic energy harvesting from self-excited oscillations	VY46104	EZ-ZINE Mohsine /**Mohamedia** Process Optimization and Microstructural Evaluation of Recycled CuZn40Pb2 Brass in Sanitary Fittings Manufacturing

DAY 2

Room 6

Google Meet link:
https://teams.microsoft.com/meet/329865484223096?p=tWsHgs4p11tDk31bJk

Pr. Hamid HAMDANI, Pr. Aziz Srai, Pr. Ahmed Toukmati, Pr. Anass Lamaizi, Pr. Fouad Mourabit

VIRTUAL

V46106	Azmi Hamza/ **Fes** Electron–Magnetic Impurity Spin Coupling in Low-Dimensional Semimagnetic Quantum Well
VN46113	Sana BOUTAGOUNT/ **Agadir** Effect of Deposition Parameters on the Structural, Morphological, Optical, and Electrical Properties of Spray-Pyrolyzed Co_3O_4 Thin Films
VN46117	ZAINA ABOU-ELFATH/ **Agadir** Energy Performance Enhancement of Heat Exchangers in Marine Heat Pump Systems through Geometric Optimization

Virtual Room

Google Meet link:
https://teams.microsoft.com/meet/317423305707506?p=B3EgbNPE0FYgRHY9EL

Pr. Younes Ziat ; Dr. Hamza BELKHANCHI

VIRTUAL

WY46184	Hajar Motahhir/ **Béni Mellal** Comparative Study of Zr/Te Co-Doped MgTiO3: Structural, Electronic, and Optical Properties with Potential Applications	**VN46198**	Abdelkarim Ou-khouya/ **Tinghir** Strain Effects on the Structural, Electronic, Optical, and Thermoelectric Properties of $SrTiO_3$.
VN46192	Adil Houba/ **Khouribga** Molecular Dynamics Study of Disorder in Liquid and Monoatomic Metallic Glasses	**VY46199**	Jamila CHENNANE/ **Casablanca**
PN46197	Wissal Sadiki/ **Béni Mellal** Boosting the photocatalytic hydrogen production via theS/Zr co-doping in a CaTiO3 perovskite: first-principles	**WY46182**	Naoual Afif/ **Béni Mellal** Development of an ANN-Based Predictive Model for an Airfoil with a Trailing-Edge Flap

DAY 2

Session for Master's students in sciences and techniques

❖ Theme 11: Specific analyses of surafces and materials

Study of a scientific publication

Room 7

Google Meet link:
https://teams.microsoft.com/meet/321413184795182?p=pkTin5z3IpYrDsKBhW

Pr. M. Abdelaziz EL Aamrani, Pr. Jalal ISAAD, Pr. Amin SALHI, Pr. Taoufik Rohand

ONSITE

CAQ6	EL BOULAHFAOUI Hayat MKIMEL Afaf Superwettable Carbon Fiber Membranes Functionalized with Cu-TiO2: High-Performance Oil–Water Separation and Sustainable Reusability	CAQ8	Abatouy anass Innovative self-assembled silver nanoparticles on reduced grapheme oxide hydrogel nanocomposite for improved electrochemical hydrogen generation and sensing
CAQ7	AKALI Salma BURJOU Mariam Bio-synthesized silver nanoparticle modified glassy carbon electrode as electrochemical biosensor for prostate specific antigen detection	CAQ9	BOUSSTANI Mohamed DERRAZI Farid Silica derived from rice husk waste as anode material for lithium-ion battery: A comprehensive study

End of the 2nd day

DAY 3

Day 3 : Thursday, 30th April, 2026

Virtual

Session 5: Interdisciplinary Approaches to Energy Systems, Advanced Materials, and Water Technologies

--Plenary Speakers—

Google Meet link :

https://teams.microsoft.com/meet/388174432592189?p=CMk9q2LLNguhvAc7bP

Session Chair : Pr. Hassan AMHAMDI_ Vice Dean in charge of Educational Affairs , Abdelmalek Essaadi University / Pr. Jalal ISAAD , ERCI2A, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco / Pr. Fouad Mourabit, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco

09h00 _ 10h00	Plenary 11: Graph-theory-based methodology for the analysis and optimization of electric power distribution as a complex system using distributed generation in smart grids ***Pr. Noureddine Lakouari*** *(Instituto Nacional de Astrofísica, Óptica y Electrónica, Coordinación de Ciencias Computacionales, Mexico)*
09h00 _ 10h00	Plenary 12: Boosting the Photocatalytic Hydrogen Production via the S/Zr Co-Doping in a $CaTiO_3$ Perovskite: First-Principles Study of the Optoelectronic, Thermodynamic, and Photocatalytic ***Pr. Younes Ziat*** *(Engineering and Applied Physics Laboratory (EAPL), Sultan Moulay Slimane University, Morocco)*
09h00 _ 10h00	Plenary 13: First-principles investigation of Zr/Te co-doped $XTiO_3$ (X = Ca, Sr) perovskites for improved solar hydrogen production and optoelectronic applications ***Dr. Hamza BELKHANCHI*** *(Engineering and Applied Physics Laboratory (EAPL), Sultan Moulay Slimane University, Morocco*** Portugal)*

DAY 3

09h00 _ 10h00	Plenary 14: Water Treatment Technologies in Dialysis: Quality Requirements and Regulatory Framework ***Dr. Ahmed Abarkan*** *(Biomechanics & Bioengineering Laboratory, CNRS, Université de Technologie de Compiègne, France)*

10:00 – 12:00 | ORAL SESSION (Parallel sessions)

❖ Theme 12 : Emerging Technologies in Energy, Environment, and Intelligent Systems

Conference Room

Google Meet link:
https://teams.microsoft.com/meet/390261242809516?p=yqVzRvuunFhtRziXYh

Pr. Ali Lamkaddem, Pr. Mustapha Hamdi, Pr. Youssef AIT EL KADI, Pr. Yassine LAKHAL Pr. Pr. Aziz Srai , Adil Soufi

VIRTUAL

VY46129	M.tahiri/ **Tetouan** Impact of Drivetrain Flexibility on Control Performance in Horizontal-Axis Wind Turbines: A Comparison Between Rigid and Two-Mass Models	VY46146	Youssef Sadik/ **Béni Mellal** Forecasting Energy Consumption Using a Hybrid LSTM-XGBoost Model
VN46140	Said Dani/ **Casablanca** intelligente MPPT improved by sliding mode control	VY46148	Youssra BEN LAZRAK/ **Tetouan** Influence of Tumor Morphology on S-Value Calculations in Radiopharmaceutical Therapy: A Monte Carlo Study of ^{188}Re and ^{225}Ac
VY46145	Abdelmajid ELHAJOUI/ **Tetouan** Generative AI at university : A New Pedagogical Ally	VY46149	HAMID AIT LHOUSSAIN/ **Al Hoceima** Analyse numérique de la dispersion atmosphérique générée par des sources ponctuelles continues

DAY 3

❖ Theme 13: Functional Materials Engineering/ Synthesis, DFT Modeling and Applications in Energy and Environment

Room 5

Google Meet link:
https://teams.microsoft.com/meet/359143774092335?p=qQD2dKCn4PfuzLj49V

Pr. Jalal ISAAD, Pr. Abdellah El Youssfi , Pr. Taoufik Rohand , Pr. M'hamed Ahari

VIRTUAL

VN46164	OUALID SOKKAH/ **Béni Mellal** contribution a la synthese des nouvelles molecules a partir de la 5-nitro-benzimidazole est valorisation de leurs applications electrocimique par le calcule dft	VN461100	Soukaina Naciri/**Béni Mellal** DFT Study of Structural and Electronic Properties of Triazine- and Benzene-Based Molecules
PN46166	Ayoub Eddhimi/**Meknes** Synthesis, Structural, Microstructural and Morphological Investigation of $[Ni(II)(CS(NH_2)_2)_4].Cl_2$: Optoelectronic Properties, Solvatochromism and Antioxidant Performance	VN461102	Latifa Rakassi/ **Ouarzazate** Improving the efficiency of an eco-friendly perovskite solar cell using SCAPS-1D
PN46179	GHALIT Mohammad/ **Alhoceima** Hydrochemical characterization of groundwater in the Nekor basin (NE Morocco)	VN46144	SAFI Karima/**Fez** Synthesis, crystal structure and physicochemical characterization of a novel Halide Perovskite: $(NH_2)_2CuCl_4 \cdot 2H_2O$

DAY 3

❖ Theme 14: From First-Principles to Intelligent Systems: Modeling Functional Materials for Energy, AI, and Complex Physical Phenomena

Room 6

Google Meet link:
https://teams.microsoft.com/meet/329865484223096?p=tWsHgs4p11tDk31bJk

Fatima Zahra BAGHLI , Pr. Ouafae Hamdoun, Pr. Fouad Mourabit

VIRTUAL

VY461108	Youness SEDKI ALAOUI /**Mohammedia** Investigation on partial acidulation of rock phosphate using acetic acid and acidic calcium phosphate solutions	VN461127	Elgridani Majda /**Agadir** Theoretical Investigation of Poly(2,5-bis(3-alkylthiophen-2-yl)thieno[3,2-b]thiophene) as an Organic Semiconductor
PV461113	Abdellah Bouzaid /**Béni Mellal** Ab Initio Design of Zr/Te Co-Doped $XTiO_3$ (X= Ca, Sr) Perovskites for Enhanced Solar-Driven Hydrogen Evolution and Optoelectronic Energy Conversion	VN461128	Ismail HADIJE /**Beni Mellal** DFT study for lead-free double perovskite A2AgBiI6 (A = K, Na) as solar absorbers.
VN461114	Sara Makrouf /**Rabat** Balancing AI's Energy Footprint with Dynamic Energy Governance	VN461131	Said El warraki/**Beni mellal** Optimization techniques in PV systems tied grid : a review

Room BP

Google Meet link:
https://teams.microsoft.com/meet/367731565076104?p=liOC7bcV3gNJlEBc6i

Pr. Hamid HAMDANI, Pr. Ahmed Toukmati, Pr. Anass Lamaizi

VIRTUAL

VN46160	Fakkahi Abdelghani/**Fez** Nonlinear Optical Properties of Quantum Rings in the Presence of an Electric Field	VN46171	Faiza BAGHIDA/**Meknes** Multiscale Modeling of Thermoelectric Behavior in β-Cu_2Se via DFT+U and Molecular Dynamics
VY46163	Mohamed JANATI/**Casablanca** Nonlinear Dynamic Response of a Forced Mechanical System	VY461138	Younes Ziat / Béni Mellal Hydrostatic Pressure Effects on Structural Stability and Optoelectronic Performance of $TlGeX_3$ (X = Br, I) Perovskites
VY46170	Jamila Bouchgl/ **Agadir** Flow in a Channel with a Second-Order Fluid Under Transverse Flow Conditions	VY461139	Hamza Belkhanchi/ **Portugal/ (UTC+1)** First-Principles Engineering of Zr/Te Co-Doped $XTiO_3$ (X = Ca, Sr) Perovskites for Visible-Light-Driven Hydrogen Production

DAY 3

Session for Master's students in sciences and techniques:

Study of a scientific publication

❖ Theme 15: Specific analyses of surafces and materials

Room 7

Google Meet link:
https://teams.microsoft.com/meet/321413184795182?p=pkTin5z3IpYrDsKBhW

Pr. Hassan Amhamdi , Pr. M. Abdelaziz EL Aamrani,

ONSITE

CAQ10	EL Gaouta Yasmine and Bouayss Salma Fast cathodic reduction electrodeposition of a binder-free cobalt- doped Ni-MOF lm for directly sensing of levo oxacin	CAQ13	EL MORABET Issam and Ataria Achraf Pencil Graphite Electrodes Enhanced with Green Synthesized Nano Particles as Efficient Electrocatalysts for Application in Bio-Fuel Cells
CAQ11	Dahman FARAH and ELARARI SABAH one-step controlled electrodeposition of iron-based binary metal organic nanocomposite	CAQ14	Hammi hanan and Chamlal imane Size controlled synthesis of gold nanoparticles using the martin method
CAQ12	Amrousi mane and Olaya kedrous Efficient removal of ciprofloxacin from aqueous solution using Zn–C battery derived graphene oxide enhanced by hydrogen bonding, electrostatic and π-π interaction		

Closing speeches

Closing Ceremony

Awards

Certificates

Final remarks

Instructions For Speakers

Plenary Talks:

- Plenary speakers (**onsite**) will be allotted **40** minutes to present their results, followed by a **20** minutes discussion period.
- Plenary speakers (**virtual**) will be allotted **30** minutes to present their results, followed by a **15** minutes discussion period.
- Speakers should have their presentations saved on a USB memory stick.
- It is suggested to email a copy of the presentations to us as back up.
- Please prepare the presentation in PPT files, PDF is not recommended.
- Basic AV setup will be provided: laser pointer, cordless mike, desktop mike, sound system.
- If your presentation files contain movies, please make sure that they are well formatted and connected to the main files. You may check your slides during the breaks.
- Please re-check this program prior to the conference to confirm if any changes have been made to your session.
- Conference volunteers will move the mic during Q&A. Audience with questions may raise hand to receive the mic.

Instructions For Oral Talks

On-site Oral Presentation

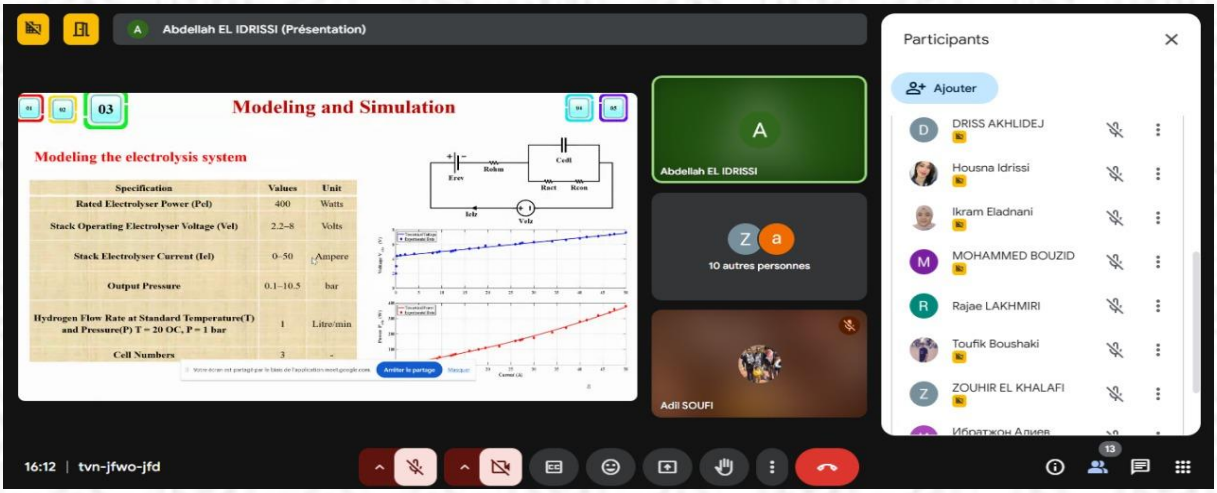
On-site Oral speakers should respect presentation time "12 minutes for presentation + 3 minutes for questions". The organizers recommend a PowerPoint presentation. Presentation certificates will be delivered at the end of each corresponding oral session.

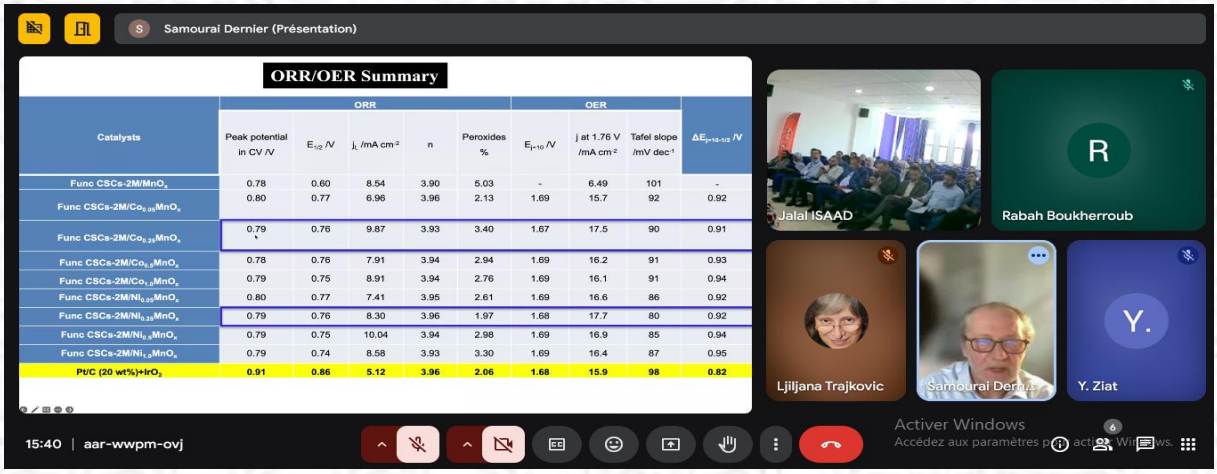
***** Participants in this mode are invited to pick up their certificates right after their presentations, which will be given by the professors managing the session (a signature proving receipt of the certificate is strongly recommended)**

Virtual Oral Presentation

The presentation must last a maximum of 12 minutes + 3 minutes for questions". Presentation certificates will be delivered at the end of each corresponding oral session

***** Participants in this mode are invited to take a screenshot of the virtual session during their presentations, making sure that all elements showing that the presentation has been made (see the screenshot below)**






ZAINAB SRHIRI (Présentation)
2
Methodology
Votre écran est partagé par le biais de l'application meet.google.com
Arrêter le partage
Masquer
Z
ZAINAB SRHIRI
Ибратжон А...
R
Rajae LAKHM...
Z
ZOUHIR EL K...
N
5 autres personnes
Adil SOUFI