Tuesday April 15 th COFMER'05						
08:00 09:00	Tangier Welcome coffee and conference registration Opening Ceremony					
10:00	Keynote Amin Bennouna Morocco: Was Mid-2022 to End-2024 Just 'Another Window of Opportunity' or A Lasting Transition to More Renewable Electricity?					
	ENERGY CONVERSION TECHNOLOGY	Coffee Break RENEWABLE ENERGY SOURCES	MATERIALS AND MECHANICS FOR ENERGY			
11:00	Invited conference <u>Abderrazzak Douhal</u> Dual-Emissive Zero-Dimensional Mn-Based Hybrid Halide for	Invited Conference Jamal Fajoui Recoverability of mechanical properties of bio-based balsa wood core composite sandwich structures under long-term cyclic	Invited Conference <u>Héléne Brault</u> Luminescence thermometry: on overview of the potential of metal-			
11:15	Photonic Applications	hygrothermal aging conditions	organic frameworks			
11:30	44 <u>Yasmina Riffi Temsamani</u> Recent Advances in Water Desalination Processes Using Renewable Energy 46	Ngueya Essallami Seawater Desalination with Renewable Energy: Innovative Solutions for Sustainability 33	25 Abdellatif El-Habib Enhanced Electrochemical Performance of CeO ₂ Thin Films Through Zn and In Doping 15			
11:45	Chaimae Younes Enhancing Solar Power Desalination: An integrated CPV/T, MED- TVC, and Adsorption Desalination System	Zian Oubamou Wind Energy production by means of diffusion stochastic process. Parameters estimation	Ekaterine Chikoidze Ultra Wide Band Gap oxides for energy electronics application			
12:00	48 Soukayna Oubourhim Literature Review on Advancements in Solar Absorption Refrigeration for Sustainable Cooling Systems 89 Mohamed M'madi Hassane	Olivier Goncalves Study of the influence of culture conditions on the productivity of lipids exuded by a diatom for biodiesel production (Algadvance project) 68	Invited Conference Mohammed Boujtita Flexible Electroluminescent Devices: from the laboratory to a large-scale fabrication			
12:15	Hybrid Absorption-Compression Refrigeration Systems: A Technological Leap for Low-Temperature Thermal Resource Utilization and Energy Efficiency	Moad El Kamili Smart Building Electrical Energy Optimization Trough Neural Network Techniques				
12:30 – 14:00	,	Lunch				
14:00	Keynote <u>Jean Le Bideau</u> Towards safe and all-solid energy storage devices with liquid-like performances					
	RF ENERGY HARVESTING SMART ENERGY SYSTEMS MATERIALS AND MECHANICS FOR ENERGY MATERIALS AND MECHANICS FOR ENERGY					
14:45	20 Ahmed Bakkali A New Configuration Diplexer for RF Harvesting Applications	Invited Conference Elhoussin Elbouchikhi	Invited Conference Héléne Debeda			
15:00	17 <u>Ayoub Elmai</u> A New Configuration of a Microstrip RF-DC Rectifier for RF Energy Harvesting Applications	Advanced Energy Management for Islanded Microgrids: Strategies for Resilient and Sustainable Power Systems	Piezoelectric Vibration Energy Harvesters (PVEH): strategies to improve performance and lower environmental impact			
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13.13	A New Design of a Wideband Fractal Antenna for RF Energy Harvesting Applications at 5.8 GHz 27	Electrochemical Assessment of The HQ-TTF-HQ Triad Salts as Electrode Materials for Li-Organic Batteries 66	Influence of disc vane geometry on cooling rate acceleration during single-stop-braking 72			
15:30	<u>Walid En-Naghma</u> Experimental assessment of a circularly polarized printed antenna array design for enhanced power harvesting	Abdessamad Idouanaou Influence of Leaf Area Index and Plant Height on Green Roof Carbon Footprint in Moroccan Residential Buildings in Hot Climates	Jamal Fajoui Recoverability of mechanical properties of bio-based balsa wood core composite sandwich structures under long-term cyclic hygrothermal aging conditions			
15:45	22 Soufiane El Maimouni A Novel Configuration of a Reconfigurable Planar BandPass Filter For Wireless Power Transfer	82 Alexandru Vulpe Hybrid Recurrent Neural Network and Decision Tree Scheduling for Energy-Efficient Resource Allocation in Cloud Computing	Mustapha Hassa Free and forced linear vibrations of two beams carrying a point mass coupled by an elastically system			
		Coffee Break & Poster Session				
16:45	Keynote <u>Abdelilah Slaoui</u> Hydrogen as an energy carrier : ambitions and technologies					
	RF ENERGY HARVESTING	BIOMEDICAL APPLICATIONS	HYDROGEN			
17:30	41 <u>Walid En-Naghma</u> A Dual-Band Modified Monopole Antenna operating for 2.45/5.8 GHz in ISM Band Applications	Invited Conference Khadija Ouguerram	Invited Conference Pascal Briois			
17:45	83 Yassmine Esshaimi Design of RFID Tag Antenna for Logistics Applications in the Renewable Energy Sector	Spirulina Liquid Extract: Benefits for Cardiovascular Disease	Development and characterization of a solid oxide fuel cell obtained by thin film technologies			
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18:15	Amina Aghanim Optimizing Q-Learning for Automated Cavity Filter Tuning: Leveraging PCA and Neural Networks		Nouhaila Ben Abdelouahab Optimized Integration of Hydrogen Systems into Renewable Energy Parks			
	30	POSTERS				
	Dimitri Boivin					

Dimitri Boivin
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Modeling of High Power Impulse Magnetron Sputtering (HiPIMS) Process for the Deposition of Cr Thin Films
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	Wednesday April 16 th COFMER'05								
08:30	Tangier Welcome coffee and conference registration								
09:00	Welcome coffee and conference registration Keynote Jack Legrand Microalgae, An Asset for The Circular Economy								
	HYDROGEN MATERIALS AND MECHANICS FOR ENERGY PV								
09:45 10:00	Invited Conference Olivier JOUBERT Materials development for solid oxide fuel cells and electrolysers	Invited Conference sabelle BRAEMS Crystal Structure Prediction of New Intercalation Materials	Invited Conference Yaovi GAGOU Fabrication and Characterization of a Nd ₂ Ru ₂ O ₇ (NRO) Pyrochlore- Based Dye-Sensitized Solar Cell						
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11:45 12:00	Invited Conference <u>Tarik Chafik</u> Towards Hydrogen production through valorization of local clay as catalyst or solid oxide electrolyte	Invited conference <u>Karim Ouaras</u> Plasma deposition of III-V semiconductors at low-temperature: sputtering and RPVPE approach	49 Salim Khammal Performance Assessment of a Trigeneration Plant-Driven by Concentrated Photovoltaic Thermal System 88 Ahmed Sadki Understanding the Effects of Microbial Soiling on Solar Photovoltaic Performance						
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2:30 – 14:00		Lunch							
14:00	Keynote <u>Gilles FLAMANT</u> Thermal energy transport and storage in particles								
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15:00	Linda Abba A New Design of a Compact CSRR-Based Microstrip Low-Pass Filter for RF Harvesting Applications 87 Abderrahim Mohammadi OTFS modulation exploration for robust 6G communications in high mobility scenarios	Invited conference Khalid Nouneh Controlled Deposition of ZnO Thin Films on Macroporous Geopolymer	Abdessamad Idouanaou The Role of PV-Integrated Double-Skin Facades in Achieving Net-Zero Carbon Emissions in Commercial Buildings in Morocco 14 Abdelali Ali Staoui Theoretical approach to improve the performance of hole transport materials based on thiophene derivatives and TPA derivatives for efficient perovskite solar cells						
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Thursday April 17 th							
Thursday April 17 th COFMER'05							
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08:30	·						
09:00	Keynote <u>My Ali El Khakani</u> Using the Pulsed Laser Deposition Approach for the Growth of 1D, 2D and Nanohybrid Materials With Tunable Optoelectronic Properties						
	HYDROGEN	MATERIALS AND MECHANICS FOR ENERGY					
09:45 10:00	Invited Conference Raphaël Ihringer Setup for SOFC/SOEC measurements and ceramic processing for cell fabrication	Invited conference <u>Takashi Teranishi</u> Fast Charge Transfer via Dielectric Interface for Rechargeable Batteries					
10:15	29 <u>Laince Pierre Moulebe</u> Numerical analysis and presentation of the interest of implementing artificial intelligence in a green hydrogen generator set using energy efficiency techniques	26 <u>Doha Doughri</u> Structural, Dielectric, and Ionic Conductivity Properties of Li ₄ FeSbO ₆ : A Promising Cathode Material for Solid-State Batteries					
10:30	10 Redouane Elhaloumi The impact of Cloud computing adoption on academic performance in higher education institutions- Case of Hassan II University of Casablanca - Morocco	12 Ihsane Kinani Environment-friendly controlled-release customized NPK fertilizer using bio-based polyurethane derived from waste cooking oil as coating material: preparation, characterization, and agronomic study					
Coffee Break							
11:00	Keynote <u>Ahmed Lakhssassi</u> Thermal Analysis of System in Package Considering Boundary Conditions for Long-Term Reliability Studies						
11:30 11:45	HYDROGEN Roundtable: "Water Resources for Energy Production" <u>Nadia Youssfi Steiner</u> <u>Participants</u> : Amin Bennouna, Abdelilah Slaoui, Jack Legrand, Tarik Chafik, Olivier Joubert						
12:30 - 13:00	Closing Ceremony						