SPRING 15 WA: Advanced materials and technologies for renewable energies (AMREN-1)

14 May		
Session: Renewable Energies – from materials to implementations		
Time	**Speaker**	**Presentation Title**
08:25 - 08:35	**Abdelilah Slaoui,** iCUBE-CNRS, France	Introduction to AMREN workshop
08:35 - 09:00	**Peter Viebahn**, Wuppertal Institute for Climate, Environment and Energy, Germany	Assessing the need for critical minerals to shift the German energy system towards a high proportion of renewables
09:00 - 09:25	**Alexandra Troi**, Institute for Renewable Energy, EURAC research European Academy, Italy	3ENCULT - Efficient Energy for EU cultural heritage. How innovative materials are needed to increase the energy performance in historic buildings and cities
09:25 - 09:55	**Atilla Ersöz** , TUBITAK Marmara Research Center (MRC), Turkey	Turkish renewable energy vision 2023 and solar technology applications
09:55 - 10:20	**Francesco Sergi**, CNR-ITAE, Italy	Evaluating performance and developing novel architectures for energy storage applications
10:20-10:35	**Armando C. Oliveira,** FEUP, University of Porto, Portugal	Renewable Electricity Cooperation (REELCOOP) Project
10:35 - 11:00	**Break**	
Session: Materials for energy applications		
11:00 - 11:25	**Frédéric Chandezon,** INAC/UMR SPrAM, CEA Grenoble & EERA AMPEA JP, France	AMPEA – The EERA Joint Programme on Advanced Materials for Energy Applications
11:25 - 11:50	**William Tumas,** NREL, USA	Computationally designing energy materials by including metastability
11:50 - 12:15	**Gilles Dennler**, IMRA Europe, France	State of the art, opportunities and challenges for thermoelectricity as competitive renewable energy source
12:15 - 12:40	**Simon Watson**, CREST (the Centre for Renewable Energy Systems Technology), UK	Advances in Numerical Modelling for Wind Resource Assessment
12:40 - 13:05	**Gilles Flamant**, CNRS-PROMES, France	Trends in concentrating solar power and fuels
13:05 - 14:15	**Lunch**	

This project has received funding from the European Union's Seventh Programme for research, technological development and demonstration under grant agreement No 608593.

Session: Materials and technologies for photovoltaics		
14:15 - 14:40	**Jef Poortmans**, IMEC, the Netherlands	New and advanced material R&D opportunities in the domain of photovoltaics
14:40 - 15:05	**Chinho Park**, Yeungnam University, South Korea	Low-cost, earth-abundant SnS thin film solar cells
15:05 - 15:30	**Abdallah Ougazzaden,** UMI-CNRS-GT, France/USA	New generation of solar cells for CPV applications
15:30 - 15:55	**Alexander Colsmann**, Karlsruhe Institute of Technology (KIT), Germany	Eco-friendly fabrication of organic solar cells
15:55 - 16:20	**Yvan Cuminal**, IES-University of Montpellier, France	Multi-junctions PV concentrator solar cells, state of the art. Interest of antimonide compounds
16:20 - 16:45	**Break**	
Session: Materials and technologies for storage		
16:45 - 17:10	**Rémi Dedryvère**, Université de Pau et des pays de l'Adour, France	Lithium-ion batteries for electrochemical storage of renewable energy: Aging processes at electrode materials/electrolyte interfaces
17:10 - 17 :35	**Brigitte Pecquenard**, ICMCB-CNRS, France	All-solid-state thin film battery, an efficient miniaturized power source
17:35-18:00	**Rajeev Ahuja**, Uppsala University, Sweden	Hydrogen storage & production from materials science point of view
18:00 - 18:25	**Xavier Py**, CNRS-PROMES, France	Natural and recycled materials for high temperature thermal energy storage
18:25 - 19:30	**AMREN Poster session**	

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15 May		
Session: Towards Manufacturing of Photovoltaics		
Time	**Speaker**	**Presentation Title**
08:55 - 09:20	**Friedrich Kessler**, Zentrum für Sonnenenergie und Wasserstoff-Forschung (ZSW), Germany	New concepts for high efficiency and low cost in-line manufactured flexible CIGS solar cells
09:20 - 09:45	**Radovan Kopecek**, International Solar Energy Research Center Konstanz e.V. (ISC Konstanz), Germany	Future bifacial module technology for desert applications
09:45 - 10:00	**Alberto Soraci,** ETRERA_2020, Italy	ETRERA_2020: A tool to enhance research and innovation in the MPC
10:00 - 10:55	**Break**	
10:55 - 11:20	**Ana R. Lagunas,** CENER, Spain	The importance of tests for certification on durability and performance of PV technologies as basis for LCA and EPBT analysis
11:20 – 11:45	**Javier Diaz Berrade,** CENER, Spain	Testing for performance: the requirements to reduce the difficulty of rating PV devices: mature technologies and new developments
11:45 – 12:10	**Edgardo Saucedo,** IREC, Spain	SCALEANO: Towards a competitive full solution & high efficiency CIGS industrial technology
12:10 – 12:35	**Lucia Serrano-Lujan,** Cartagena Polytechnical University, Spain	Life Cycle Analysis for energy applications: a research tool to reduce the environmental impact of photovoltaic modules
12:35 – 12:45	**Abdelilah Slaoui,** iCUBE-CNRS, France	EUROSUNMED Project Closing remarks
12:45 - 14:00	Lunch	

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