

WEBINAR Program

V-Renewable2021

Renewable and Sustainable Energy Virtual

September 24 | 07:00 – 12:55 GMT

September 25 | 07:00 - 13:10 GMT

September 26 | 12:30 - 18:10 GMT

September 24, 2021

GMT 07:00 - 12:55

07:00 - 07:10

Introduction



Plenary Sessions

Webinar Time Zone Speakers Time Zone

07:10 - 07:50

09:10 - 09:50

Title: New solutions for storing and using surplus electricity in Methanol

Edgar Harzfeld, Stralsund University, Germany.

 Title: Innovative desalination of seawater and waste water treatment by liquid columns and decompression boiling

Toshihiko Shakouchi, Mie University, Japan.

08:30 - 09:10

10:30 - 11:10

Title: Hydrogen-reach gas from biomass, catalytically enhanced water splitting under non-thermal plasma conditions

Marek Wisniewski, Nicolaus Copernicus University, Poland.

09:10 - 09:20

Networking and Refreshments Break



Keynote Sessions - 1

09:20 - 09:55 18:20 - 18:55

Title: Economically-feasible Green Hydrogen Production

Michihisa Koyama, Shinshu University, Japan.

09:55 - 10:30 19:55 - 20:30

Title: Printed and low embodied energy solar cells

Almantas Pivrikas, Murdoch University, Australia.

Title: High Temperature Thermochemical Energy Storage

James Klausner, Michigan State University USA & United Arab Emirates University UAE.

Title: Molecularly imprinted photocatalysts for selective degradation of emerging water contaminants

Giuliana Impellizzeri, CNR-IMM, Catania, Italy.

11:40 - 12:15 20:40 - 21:15

Title: Stereolithographic Additive Manufacturing of Ceramic Geometries for Energy Conversion and Storage

Soshu Kirihara, Osaka University, Japan.

1

Invited Sessions

12:15 - 12:35 21:15 - 21:35

Title: Renewable Hydrogen Supply Chain Utilizing LNG Cold Heat

Akira Nishimura, Mie University, Japan.

 Title: The role of HVAC and UPS in the deployment of Demand

Rodriguez Sergio, Teesside University, United Kingdom.

September 25, 2021

GMT 07:00 - 13:10

07:00 - 07:10

Introduction

Webinar Time Zone Speakers Time Zone



Plenary Sessions

07:10 - 07:50

09:10 - 09:50

Title: Step-Change in Solar Energy Conversion Schemes

Dirk Guldi, University Erlangen Nuremberg, Germany.

07:50 - 08:30

03:50 - 04:30

Title: Simulations for Energy Storage

Wei Lu, University of Michigan, USA.

08:30 - 08:40

Networking and Refreshments Break

Keynote Sessions

08:40 - 09:15

18:40 - 19:15

Title: A Hydrogen-focused Microgrid for Regional and Remote Community

GM Shafiullah, Murdoch University, Australia.

09:15 - 09:50

13:15 - 13:50

Title: Impact of Dynamic Thermal Conductivity Change of EPS Insulation on the Heat Transfer through Building Envelope

Maatouk Khoukhi, United Arab Emirates University, UAE.

09:50 - 10:25

17:50 – 18:25

Title: Energy Efficient High Speed Network for in-Building Application

Mohd Syuhaimi Ab Rahman, Universiti Kebangsaan Malaysia, Malaysia.

10:25 – 11:00	18:25 – 19:00	Title: Properties of Solution-Immersion Grown ZnO Nanorod Arrays for Solar Cell Applications Mohamad Hafiz Mamat, Universiti Teknologi MARA, Malaysia.
11:00 – 11:35	19:00 – 19:35	Title: The Extended Galerkin/Rayleigh-Ritz Method for Approximate Solutions of Nonlinear Vibration Equations Ji Wang, Ningbo University, China.

11:35 - 12:10

19:35 - 20:10

Title: Current Progress and Challenges of Wind Energy in Malaysia

Albani Aliashim, Universiti Malaysia Terengganu, Malaysia.

Invited Sessions

12:10 - 12:30	Title: Operating Temperature of Non-Fullerene Acceptor Based Bulk Heterojunction Organic Solar Cells Kiran Sreedhar Ram, Charles Darwin University, Australia.
12:30 - 12:50 20:30 - 20:50	Title: Impact of Ar Flow Rates on Micro-structural Properties of WS2 Thin Film by RF Magnetron Sputtering Sobayel K, The National University of Malaysia, Malaysia.
12:50 – 13:10 15:50 – 16:10	Title: Thermoresponsive Reactions and Energy Storage in Shape Memory Alloys Osman Adiguzel, Firat University, Turkey.

September 26, 2021

GMT 12:30 - 18:10

07:00 - 07:10

Introduction

Webinar Time Zone Speakers Time Zone



Plenary Sessions

 Title: Advances in Materials and Technologies for Renewable Fuel Production

Oomman K Varghese, University of Houston, USA.

Title: Solar Cells and Optoelectronic Devices with Solutionprocessed Perovskites and Two-dimensional Layered Materials

Anupama B Kaul, University of North Texas, USA.

 Title: Advanced Concepts for Ultra- High Conversion Efficiency of Solar Photons into Photovoltaics and Solar Fuels Based on Nanostructures and Molecular Singlet Fission

Arthur J Nozik, University of Colorado Boulder, USA.

14:40 - 14:50

Networking and Refreshments Break



Keynote Sessions

14:50 - 15:25 10:50 - 11:25

Title: Understanding the Working Mechanisms of Comb-Type Superplasticizers in Cement Hydration and Setting

Hendrik Heinz, University of Colorado Boulder, USA.

15:25 - 16:00 20:55 - 21:30

Title: Battery Storage for Sustainable Transportation: Progress, Challenges and Mitigation

Ankur Bhattacharjee, Birla Institute of Technology and Science, India.

 Title: Systemic Implications of Renewable Energy (RE)

Yohannes Haile, The Pennsylvania State University-Behrend College, USA.

 Title: SiC Based Clean Energy Applications: Status and Opportunities

Victor Veliadis, North Carolina State University, USA.

1

Invited Sessions

Title: Leveraging algal omics to accelerate cost-competitive biofuels and bioproducts

Neha Arora, University of South Florida, USA.

 Title: Photocatalytic conversion of lignin model compounds using g-C3N4 photocatalyst

Susana Rojas de la Fuente, Pontifical Catholic University of Chile, Chile.

17:50 - 18:10 23:20 - 23:40

Title: SEM Critiques of Sri Lankan Vein Graphite for Some Specific Water Pollution Control Aspects

Suresh Aluvihara, University of Peradeniya, Sri Lanka.