



GLOBAL RESEARCH CONFERENCE ON

RENEWABLE ENERGY & SUSTAINABLE DEVELOPMENT



September 23-25, 2024



Munich, Germany

Theme: "Explore Research Advances in Renewable Energy and Sustainable Development"

TENTATIVE PROGRAM



FOSTER RESEARCH
Innovate. Explore. Collaborate



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Day 1: September 23, 2024

9:00–09:15	REGISTRATIONS
09:15–09:45	Opening Lecture: Conference Chair: Ralph Kennel, Technical University of Munich, Germany Conference Co-Chair: Friedrich Grimm, RES-Institute, Germany
PLENARY TALKS	
09:45–10:25	Title: “How Can Predictive Control Support the Use of Renewable Energy Sources” Ralph Kennel , Technical University of Munich, Germany
10:25–11:05	Title: “Quantum Mechanically Effective Device for Permanent Magnetic Plasma Confinement in a Fusion Reactor” Friedrich Grimm , RES-Institute, Germany
11:05–11:20	COFFEE BREAK
11:20–12:00	Title: “Bicarbonate-Based Microalgal Cultivation for Efficient Carbon Fixation and Biorefineries” Lee Duu-Jong , City University of Hong Kong, Hong Kong
12:00–12:40	Title: “Greenhouse Gases as Sustainable Feedstocks” Chao-Jun Li , McGill University, Canada
12:40–13:20	Title: “Reversed Fractionation of Carbonate and Bicarbonate at the Air-Water Interface” Rich Saykally , University of California–Berkeley, USA
13:20–14:00	LUNCH BREAK
14:00–14:40	Title: “Key Technologies for the Innovative Solar Driven Heating and Cooling Systems” Xudong Zhao , University of Hull, UK
14:40–15:20	Title: TBU Luo Lingai , National Centre for Scientific Research, France
END OF DAY 1	

Day 2: September 24, 2024

KEYNOTE TALKS	
09:00–09:30	Title: “Renewable Energy Park for District Heating” Jes Donneborg , Aalborg CSP, Denmark
09:30–10:00	Title: “Multiple Layer Modeling for High–Precision Safety State Estimation of Energy Storage Systems” Shunli Wang , Smart Energy Storage Institute, China
10:00–10:30	Title: “Affordability is the Focus of the Near Zero Energy Houses” Mark Bomberg , Clarkson University, USA
10:30–11:00	Title: “Advanced Materials for Hydrogen Storage and Compression” Martin Dornheim , University of Nottingham, UK
11:00–11:15	COFFEE BREAK
INVITED TALKS	
Session 01	<ul style="list-style-type: none">• Renewable and Recyclable Energy• Energy Conversion and Storage
11:15–11:40	Title: “Proton Fast Ignition as a Path to Commercial Fusion Energy” Markus Roth , Darmstadt University of Technology, Germany
11:40–12:05	Title: “Triboelectric Nanogenerator for Sustainable and Renewable Energy: Tribo-Material, Surface Structure and Applications” Chung Chen Kuei , National Cheng Kung University, Taiwan
12:05–12:30	Title: “Overcoming Barriers to the Application of Sustainable Aviation Fuels: A Production and Certification Perspective” Shuiting Ding , Beihang University, China
12:30–13:15	LUNCH BREAK
13:15–13:40	SLOTS ARE AVAILABLE
13:40–14:05	
Session 02	<ul style="list-style-type: none">• Biofuels & Bioenergy• Clean Energy
14:05–14:30	Title: “Life Cycle Environmental and Economic Benefit Analysis of Sustainable Aviation Fuel Based on Cellulosic Biomass” XiaoJun Yang , Civil Aviation University of China, China

14:30-14:55	Title: "Prediction Model of Photocatalytic Hydrogen Production Based on Machine Learning and the Interactive Interface Design" Yan Yang , University of Shanghai for Science and Technology, China
14:55-15:20	Title: TBU Shi Donghui, Chinese Academy of Sciences, China
15:20-15:45	SLOTS ARE AVAILABLE
15:45-16:10	
16:10-16:25	COFFEE BREAK
Session 03	Sustainable Finance
16:25-16:50	Title: "Can Chinese Investors Benefit from the Early Retirement of their Overseas Coal Plants: Plant-Level Analysis in Vietnam and Pakistan" Christoph Nedopil Wang , Griffith Asia Institute, Australia
16:50-17:15	SLOTS ARE AVAILABLE
17:15-17:40	
17:40-18:05	
END OF DAY 2	

Day 3: September 25, 2024

KEYNOTE TALKS	
09:00-09:30	KEYNOTE SLOTS ARE AVAILABLE
09:30-10:00	
10:00-10:30	
10:30-11:00	
11:00-11:15	COFFEE BREAK
INVITED TALKS	
Session 04	<ul style="list-style-type: none"> • Hydro Energy • Wind Energy • Solar Energy
11:15-11:40	Title: "Hydrogen Production Characteristic and Heavy Metal Migration Mechanism of Super-Accumulated Plants Gasification in Supercritical Water" Liu Shanke , Shanghai Jiao Tong University, China

11:40-12:05	Title: “Advances in Control of Wind Turbines: Wind Speed Estimation, Setpoint Generation and Robust Control” Jeff Pieper , University of Calgary, Canada
12:05-12:30	Title: “A Solar to Chemical Strategy Roadmap: Green Hydrogen as a Means” Pablo Jimenez Calvo , University of Erlangen-Nuremberg, Germany
12:30-13:15	LUNCH BREAK
13:15-13:40	SLOTS ARE AVAILABLE
13:40-14:05	
Session 05	Environmental Impact and Sustainability
14:05-14:30	Title: “From Waste to Wonder: How Biochar can Change our Environment, Human Health, and Animal Welfare” Juliana Schultz , Federal University of Parana, Brazil
14:30-14:55	Title: “Energy Scenarios for Austrian Industry towards Climate Neutrality” Andreas Windsperger , Vienna University of Technology, Austria
14:55-15:20	Title: TBU So Stuart , University of Exeter, UK
15:20-15:45	Title: TBU Zhang Bo , Dalian University of Technology, China
15:45-16:10	Title: TBU Sara Taherinezhadtayebi , University of Rome, Italy
16:10-16:25	COFFEE BREAK
16:25-16:50	SLOTS ARE AVAILABLE
16:50-17:15	
17:15-17:40	
17:40-18:05	
END OF CONFERENCE	

***Note: This is a Tentative Program and is subject to change until the final version.**