

# Scientific Program



Joint Event

8<sup>th</sup> International Conference on  
**Environmental Chemistry  
and Engineering**  
&

7<sup>th</sup> Edition of International Conference on  
**Green Energy, Green  
Engineering and Technology**

September 20-22, 2018 | Berlin, Germany



# DAY-1

September 20, 2018

Meeting Hall: Sylt 3

08:30-09:00 Registrations

*Opening Ceremony* . . . . . 09:00-09:20

## KEYNOTE FORUM

09:20-09:30 Introduction

09:30-10:00 **Title: Emerging business sustainability in Europe: Its education, practice and research implications**  
Zabihollah Rezaee, University of Memphis, USA

10:00-10:30 **Title: An overview of the behavior of some Polycyclic Nitroaromatic Hydrocarbons (NPAHs) upon irradiation in solution and when adsorbed on solid surfaces**  
Ian S Butler, McGill University, Canada

10:30-11:00 **Title: Advances in finite volume and lattice Boltzmann method simulation of melting in latent heat thermal energy storage systems**  
Yuwen Zhang, University of Missouri, USA

## GROUP PHOTO 11:00-11:05

Networking & Refreshments 11:05-11:20 @ Sylt Foyer

11:20-11:50 **Title: CO<sub>2</sub> and carbon capturing, utilization and valuation**  
Paul O'Connor, ANTECY, Netherlands

**Sessions:** Environmental Chemistry and Engineering | Environmental Education | Earth and Geochemistry | Chemical and Polymer Engineering | Environmental Climatic Factors | Environmental Health | Environmental Ecosystems | Environmental Technologies and Sustainability Metrics | Green Chemistry | Energy Storage & Conversion | Environmental Chemistry & Pollution Control | Energy & Environment

**Chair:** Ryan M. Richards, Colorado School of Mines, USA

**Co-Chair:** Raquel Jiménez-Melero, Universidad de Jaén, Spain

## INTRODUCTION

11:50-12:10 **Title: New opportunities in a personalized approach to the preleukemic phase of myelodysplastic syndrome and acute myelogenous leukemia**  
Emmanuel C Besa, Thomas Jefferson University, USA

12:10-12:30 **Title: Influence of sonication on the catalytic activity of Cu<sub>x</sub>Co<sub>3-x</sub>O<sub>4</sub> nanocatalysts for conversion of CO into CO<sub>2</sub> efficiently**  
Abd El-Aziz Ahmed Said, Assiut University, Egypt

**12:30-12:50** **Title: Electro-coagulation/flotation for the simultaneous removal of oil and grease and heavy metals from artificial bilge water**  
Guillermo J Rincon, University of New Orleans College of Engineering, USA

**12:50-13:10** **Title: Mediterranean small ponds: One of the most threatened ecosystems in the world**  
Raquel Jiménez-Melero, Universidad de Jaén, Spain

**Lunch Break 13:10-13:55 @ Restaurant Rienäcker**

**13:55-14:15** **Title: A green PVC dream is coming true in China: Heterogeneous non-mercury catalysts and related process for acetylene hydrochlorination**  
Guohua Luo, Tsinghua University, China

**14:15-14:35** **Title: Green production of PVC from lab to industrialization: Heterogeneous non-mercury catalysts for acetylene hydrochlorination**  
Hao Xu, Tsinghua University, China

**14:35-14:55** **Title: Competitive sorption of anionic dyes on CoFe-layered double hydroxide in single and binary solutions**  
Ime Akanyeti, Cyprus International University, Turkey

**14:55-15:15** **Title: Real time monitoring and control system for drinking water quality insurance**  
Jasim M. Salman, Al-Nisour University College, Iraq

**15:15-15:35** **Title: Low-impact seismic retrofit technologies for school buildings**  
Terenzi Gloria, University of Florence, Italy

**15:35-15:55** **Title: Long-term energy saving potential: The case of Korea**  
Kyung-Jin Boo, Seoul National University, South Korea

**Networking & Refreshments 15:55-16:10 @ Sylt Foyer**

**16:10-16:30** **Title: Activated carbons preparation from olive stones for bisphenol A and Diuron adsorption**  
Nadia El Ouahedy, University of Poitiers, France

**16:30-16:50** **Title: The effects of biodegradable coating on properties of printing paper**  
Rouzbeh Asadi Khansari, Technical and Vocational University, Iran

**16:50-17:10** **Title: Medical geology applications of an African geochemical database**  
Theophilus Clavell Davies, University of Nigeria, Nigeria

**17:10-17:30** **Title: Selective catalytic reduction of NO<sub>x</sub> by CO under oxygen condition over Cu:Ce catalysts supported by carbon nanotubes**  
Zahra Gholami, Tsinghua University, China

**17:30-17:50** **Title: Survey on chemical use situation among household community products on cosmetics and hazardous substances in Nonthaburi Province, Thailand**  
Sarisak Soontornchai, Sukhothai Thammathirat Open University, Thailand

**17:50-18:10** **Title: CFD modeling of cattle manure anaerobic digestion for evaluating agitation via mixer**  
Alireza Noorpoor, University of Tehran, Iran

## Panel Discussion

# DAY-2

September 21, 2018  
Meeting Hall: Sylt 3

## KEYNOTE FORUM

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09:20-09:30 Introduction

09:30-10:00 **Title: Nanostructured materials with unique catalytic properties for renewable energy technologies**  
Ryan M. Richards, Colorado School of Mines, USA

10:00-10:30 **Title: Robust, high resolution affinity capture of environmental pollutants**  
Bo Mattiasson, Lund University, Sweden

**Sessions:** Green Technology & Energy Science | Green Engineering | Biomass & Biofuels | Sustainable Development | Applications of Environmental Chemistry | Environmental Geology | Renewable Energy Sources and Storages | Pollution Control Chemistry and Green Chemistry | Environmental Hazards | Environmental Biotechnology

**Chair:** Yuwen Zhang, University of Missouri, USA

**Co-Chair:** Jasim M. Salman, Al-Nisour University College, Iraq

## INTRODUCTION

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10:30-10:50 **Title: Geochemical tools help overcoming obstacles to discover 50 TCF gas in Peru – now we have big petrochemical industries**  
José Vilca, Private University of Tacna, Peru

10:50-11:10 **Title: Transport of Styrene Oligomers (SOs) derived from polystyrene plastic into ocean by precipitation in Tokyo Bay**  
Bum Gun Kwon, Chosun College of Science and Technology, South Korea

**Networking & Refreshments 11:10-11:25 @ Sylt Foyer**

11:25-11:45 **Title: Solar Wi-Fi eco bin**  
Dheepika Tamilselvam, Solar Outdoor Media, Germany

11:45-12:05 **Title: Temperature tolerance test exposition with temperate sea anemone *Actinia equina*, a climatic and environmental changes simulation**  
Juliana Rodrigues Gadelha, Universidade do Porto, Portugal

12:05-12:25 **Title: Banned and restricted organic pesticides still used in farms in Northern Mindanao, Philippines**  
Maria Luisa Baiño-Salingay, IHE-Delft Institute for Water Education, Netherlands

12:25-12:45 **Title: Uses of cyclohexanediones for the synthesis of nitrogen and/or sulfur heterocyclic compounds together with their cytotoxic evaluations**  
Rafat M. Mohareb, Cairo University, Egypt

12:45-13:05 **Title: Role of thermodynamic properties of ionic liquids in industries to reduce pollution**  
Vinod Kumar, Maharshi Dayanand University, India

**Lunch Break 13:05-13:50 @ Restaurant Rienäcker**

## POSTER PRESENTATIONS 13:50–14:10

**Poster Judge:** Bo Mattiasson, Lund University, Sweden

GT-01

**Title:** Control of polymorphism of calcium carbonate compounds in the cementitious materials by pH control  
Heesup Choi, Kitami Institute of Technology, Japan

EC-02

**Title:** Intensification of mass transfer process using deep eutectic solvents and nanosuspensions  
Anamarija Mitar, University of Zagreb, Croatia

EC-03

**Title:** Persistent and emerging pollutants detection on aquacultures oysters (*Crassostrea gigas*) from Northwestern Portugal coast (Ria de Aveiro, Aveiro district)  
Juliana Rodrigues Gadelha, Universidade do Porto, Portugal

EC-04

**Title:** Spatial temporal characterization of the water quality of the Vixán lagoon (Northwestern Iberian Peninsula)  
Juliana Rodrigues Gadelha, Universidade do Porto, Portugal

EC-05

**Title:** Heterocyclization of chalcone acetophenone derivatives and antitumor evaluation of the newly synthesized products  
Eman M Samir, National Organization for Drug Control & Research, Egypt

## VIDEO PRESENTATIONS

14:10-14:30

**Title:** Development of green technologies and complex analysis of the green and blue roof systems  
Natalia Shushunova, National Research Moscow State University of Civil Engineering, Russia

## YOUNG RESEARCH FORUM

**YRF Judge:** Yuwen Zhang, University of Missouri, USA

14:30-14:50

**Title:** Simultaneous oil extraction and trans-esterification of high acidity rapeseed oil  
Miglė Šantaraitė, Aleksandras Stulginskis University, Lithuania

14:50-15:10

**Title:** Green extraction of soluble matter from Cabuya by pulsed electric fields  
Alejandra Rivera, Escuela Politécnica Nacional, Ecuador

15:10-15:30

**Title:** Reduction of ammonia emissions from livestock manure in intensive bovine holdings using bio preparations  
Reda Mažeikienė, Aleksandras Stulginskis University, Lithuania

**Sessions:** Biomass & Biofuels | Applications of Environmental Chemistry | Environmental Geology | Renewable Energy Sources and Storages | Pollution Control Chemistry and Green Chemistry | Environmental Hazards | Environmental Biotechnology

**Chair:** Yuwen Zhang, University of Missouri, USA

**Co-Chair:** Jasim M. Salman, Al-Nisour University College, Iraq

15:30-15:50

**Title:** Microwave assisted synthesis of novel dihydropyrazolo[1,5-a]pyrimidine, [1,2,4] triazolo[1,5-a]pyrimidine and 3,4-dihydrobenzo[4,5]imidazo[1,2-a]pyrimidine derivatives incorporating Schiff base moiety as potential anticancer agents  
Ahmed Younis, National Research Centre, Egypt

**Networking & Refreshments 15:50-16:05@Sylt Foyer**



16:05-16:25

**Title:** Comparative study of biodiesel production from indigenous resources of Pakistan

**Samo Saleem Raza**, Quaid-e-Awam University of Engineering, Sciences and Technology, Pakistan



16:25-16:45

**Title:** An advanced oxidation process based on Fenton reactions for reduction of environmental impact of leather tanning effluents as an efficient method for wastewater treatment

**El-Shahat H A Nashy**, National Research Centre, Egypt

16:45-17:05

**Title:** Urban geochemistry of African megacities

**Theophilus Clavell Davies**, University of Nigeria, Nigeria

17:05-17:25

**Title:** Development of an experimental model for assessing CO<sub>2</sub> working capacity of the combined cycle power plant on mesoporous graphene oxide-TiO<sub>2</sub> nanocomposite

**Alireza Noorpoor**, University of Tehran, Iran

17:25-17:45

**Title:** The emergence of environmental chemistry in modern era and its effect

**Yakubu Muntaka Musah**, University of Professional Studies, Ghana

## Panel Discussion Awards & Closing Ceremony

# DAY-3

September 22, 2018

Extended Networking & Lunch 12:30-13:30 @Restaurant Rienäcker