Scientfic Program



World Congress On

Biopolymers and Bioplastics

&

World Congress and Expo on

Recycling

August 29 -30, 2018

Berlin, Germany

August 29, 2018	Biopolymer-Recycling Expo Agenda	Day 1

Conference Hall: Sylt 3

09:00-09:15	**Registration**
09:15-09:30	**Introduction**
09:30-10:00	**Keynote Forum** **Title: Circular economy – A path forward in commercialization success of bioplastics and biobased materials** **Amar Mohanty,** University of Guelph, Canada
10:00-10:30	**Title: Research and Development in the field of foamed bioplastics** **Stephan Kabasci,** Fraunhofer UMSICHT, Germany

Networking & Refreshment Break 10:30-10:50 @ Sylt Foyer

10:50-11:20	**Keynote Forum** **Title: Shifting to biorefinery; Monomers, biopolymers and biomaterials from renewable lipid resources** **Aman Ullah,** University of alberta, Canada
11:20-11:50	**Title: The role of science in developing enhanced oil & gas resources, being environmentally sound & protecting water use** **Davis L Ford,** The University of Texas, Austin
11:50-12:20	**Title: Resource efficient use of polymers after end of life** **Christer Forsgren,** Stena Recycling International AB, Sweden
12:20-12:50	**Title: Valuing waste as resource: Mechanisms of change in developed and developing countries** **Remi Jaligot,** Swiss Federal Institute of Technology, Switzerland
12:50-13:00	**Group Photo**

Lunch Break 13:00-13:30 @ Restaurant Rienacker

Oral Session I:
Natural polymer | Biopolymers as materials | Bioplastics | Nano polymers | Synthetic Polymers

Session Chair: **Aman Ullah,** University of alberta, Canada
Session Co-chair: **Amar Mohanty,** University of Guelph, Canada

13:30-13:50	**Title: Diamond surface modification for biomolecule interactions in the design of medical implants** **Karin Larsson**, Uppsala University, Sweden
13:50-14:10	**Title: Layer-by-layer free-standing membranes made of natural polymers for drug delivery** **Claire Monge**, National Center of Scientific Research, France
14:10-14:30	**Title: Efficient large-scale preparation of defect-free few-layer graphene using a conjugated ionic liquid as green media** **Ye Chen**, Donghua University, China
14:30-14:50	**Title: Bioplastic packaging from banana pseudo-stem (*Musa spp.*)** **Siriporn Tengrang**, Department of Agricultural, Thailand
14:50-15:10	**Title: Quantitative analysis of molecular interactions in DNA-carbon nanotube hybrids** **Fuyou Ke**, Donghua University, China
15:10-15:30	**Title: Development of a new Hydraulic Fluid** **Nicolai Otto**, RWTH Aachen University, Germany
15:30-15:50	**Title: BIOpolymer - Compounds with high-strength properties** **Johanna Eichelter**, University of Vienna, Austria
15:50-16:10	**Title: *In vitro* hypotensive effect of chitosan extracted from exoskeleton of freshwater crab *Sartoriana spinigera*** **Upasana Marandi**, Xavier Institute of Polytechnic and Technology, India

Networking & Refreshment Break 16:10-16:30 @ Sylt Foyer

Oral Session II:
Construction Waste Management | Biological Waste Management | Industrial Waste Recycling

Session Chair: **Davis L Ford**, The University of Texas, USA
Session Co-chair: **Christer Forsgren**, Stena Recycling International AB, Sweden

16:30-16:50	**Title: Recovery of valuable elements from spent hydrotreating catalyst using a carbothermic reduction method** **Wang Wenqiang**, Tsinghua University, China
16:50-17:10	**Title: Recovery of valuable elements from spent hydrotreating catalyst using a carbothermic reduction method** **Xu Shengming**, Tsinghua University, China
17:10-17:30	**Title: Multi-agent based simulation and policy regulation for urban household solid waste recycling behavior** **Xiaoyan Meng**, Chinese Academy of Sciences, China
17:30-17:50	**Title: Biocomposite based on tara gum for arsenic remotion in water from mining industry** **Silvia Ponce**, University of Lima, Peru

August 30, 2018 | **Day 2**

Conference Hall: Sylt 3

09:15-09:30 **Introduction**

Keynote Presentation

09:30-10:00
Title: Biocarbon innovation in sustainable manufacturing
Manjusri Misra, University of Guelph, Canada

10:00-10:30
Title: Biopolymers and the circular economy
Geoffrey Mitchell, Institute Polytechnic of Leiria, Portugal

Networking & Refreshment Break 10:30-10:50 @ Sylt Foyer

Keynote Presentation

10:50-11:20
Title: Precision biomolecular assembly at the bio-nano interfaces towards functional hybrid materials
Candan Tamerler, University of Kansas, USA

11:20-11:50
Title: Waste factory – Microbubble mediated ammonia recovery processes (MMARP)
Pratik Desai, Perlemax Ltd., United Kingdom

11:50-12:20
Title: Convert waste to wealth through 5R principles of waste management
Shalin Shah, Adani Ports & SEZ Ltd. (APSEZ), India

12:20-12:50
Title: Benefits and impacts of re-use of agricultural drainage water in egypt to land degradation and food security
Nader Noureldeen Mohamed, Cairo University, Egypt

Lunch Break 12:50-13:30 @ Restaurant Rienacker

Oral Session III:
Biopolymers in Biofibres & Microbial Cellulose | Principles of Polymer Chemistry | Recycling & Waste Management of Biopolymers |Production and Commercialization | Routes to drop-in monomers and bioplastics |Future and Scope for Biopolymers and Bioplastics

Session Chair: **Geoffrey Mitchell**, Institute Polytechnic of Leiria, Portugal
Session Co-chair: **Manjusri Misra**, University of Guelph, Canada

13:30-13:50
Title: A classic diatomic chain
Ming BY, USA

13.50-14:10
Title: Cellulose/PSA alloy fibers with advanced properties
Yumei Zhang, Donghua University, China

14:10-14:30
Title: Functionalization of biodegradable aliphatic polyesters by direct methylenation and thiol-ene reaction
Takao Aoyagi, Nihon University, Japan

14:30-14:50

Title: Toughening of poly(lactic acid) by various polycaprolactone-copolymers with modulated crystallinity
Philip Morbitz, Fraunhofer UMSICHT, Germany

14:50-15:10

Title: A study of biopackaging from agricultural products for food
Charuwan Rattanasakultham, Department of Agricultural, Thailand

15:10-15:30

Title: The influence of polyethylene glycol molecular weight on the crystallization and hydrophilic behavior of poly (ethylene terephthalate)/ Polyethylene glycol co-polymers
Peng Ji, Donghua University, China

Oral Session IV:
Recycling | Solid waste Recycling | Entrepreneurs Investment Meet: Recycling Expo-2018

Session Chair: **Davis L Ford**, The University of Texas, USA
Session Co-chair: **Christer Forsgren**, Stena Recycling International AB, Sweden

15:30-15:50

Title: Ecologic design for recycling olive cake
Abdellatif Lajdel, Universite Hassan II Casablanca, Morocco

15:50-16:10

Title: Treatment of tannery effluent by electrocoagulation
Md. Abdul Jalil, Bangladesh University of Engineering and Technology (BUET), Bangladesh

Networking & Refreshment Break 16:10-16:30 @ Sylt Foyer

16:30-16:50

Title: Onsite generation of electricity from discharged urine from male toilets in non-residential buildings
Ann T W YU, The Hong Kong Polytechnic University, Hong Kong

16:50-17:10

Title: Recycling of keratin resources to produce water stable, soluble and the smallest worldwide nano-keratin
Ramadan A Mohamed, Assiut University, Egypt

17:10-17:30

Title: Fermentation strategy for enhancing phytase production under D-mannitol co-induction in pichia pastoris
Ndayambaje Jean Bernard, University of Rwanda, Rwanda

Poster Presentation 16:00-17:00

Poster Judge: **Geoffrey Mitchell**, Institute Polytechnic of Leiria, Portugal

Bio-01

Title: Discussion of green manufacturing and manufacturing green key technology in chemical fiber industry
Xiiangling Chen, Donghua Unniversity, China

Bio-02

Title: Utilization of banana plant agricultural waste for the manufacture of bio-composites

Vimla Paul, Durban University of Technology, South Africa

Bio-03

Title: Synthesis of bio-based adipic acid-polyoxypropylene diamine copolymer and its synchronous enhancement of strength and fracture toughness on epoxy resin composites

Chunwang Yi, Hunan Normal University, China

Bio-04

Title: Poly(*glyco-peptides*)derived from D-gluconolactone

Ester Abtew, The Hebrew University of Jerusalem, Israel

Bio-05

Title: Improvement of monomer composition in poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) biosynthesized from CO_2 by genetically engineered hydrogen-oxidizing bacterium

Tanaka K, Kyushu University, Japan

Bio-06

Title: Magnetorheological effect for polysaccharide magnetic hydrogels

Tetsu Mitsumata, Niigata University, Japan

Bio-07

Title: Electric and dielectric properties for bioplastic films

Mika Kawai, Niigata University, Japan

Conference Adjournment

