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9th World Congress on

Biopolymers & Bioplastics

August 26-27, 2019
London, UK



SCIENTIFIC PROGRAM

DAY 1
Monday, 26th August

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01 **KEYNOTE LECTURES**

11:50-13:10

MEETING HALL 01	MEETING HALL 02
Talks On: Advanced Biopolymers	**Talks On: Bioplastics**
Chemistry of biopolymers	Food and Beverage Packaging Technology
Plastic component fabrication using Biopolymers	Biodegradable Plastics
Polylactic acid in Biopolymers	Nanomaterials
Nucleic acids in Biopolymers	Synthetic Biology
Polysaccharides in Biopolymers	Bioplastics Engineering
Polynucleotide in Biopolymers	Bio-Based Plastics
Micro fabrication techniques	Innovations in Food Packaging

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01	MEETING HALL 02
Talks On: Natural Polymers	**Talks On: Ocean Plastics**
Polymer Gels usage in Biopolymers	Biopolymers in Marine Sources
Rheology of Natural and Biopolymers	Plastic-free Ocean
Chitin & Chitosan Polymers in Biopolymers	
Degradation & Stability approach through Biopolymers	
Copolymers & Fibers	

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers in Biopolymers & Bioplastics	Workshop

DAY 2
Tuesday, 27th August

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50	MEETING HALL 01	MEETING HALL 02
	Talks On: Green Composites in Biopolymers	**Talks On: Biopolymer Applications**
	Bio composites in Biopolymers	Polymers for Electronics, Energy, Sensors and Environmental Applications
	Biopolymers usage in Bio Ceramics	Biomedical & Environmental Applications
	Biopolymers in Nanotechnology	Applications in Packing
	Bionano Composites for Food packing applications of Biopolymers	
	Wood & Wood polymer Composites in Biopolymers	
	Micro & Nano Blends based on Natural polymers	

12:50-13:35 LUNCH BREAK

13:35-15:55	MEETING HALL 01	MEETING HALL 02
	Talks On: Biopolymers as Materials	**Talks On: Biopolymers for Tissue Engineering and Regenerative Medicine**
	3D printing of materials in Biopolymers	Tissue engineering and Regenerative medicine
	Polymer hybrid assemblies	Whole organ engineering and approaches
	Biological materials in the areas of automotive manufacturing	Bone and cartilage tissue engineering
	Industry and Market of Biopolymers	Scaffolds
	Surface and Interfaces of Biopolymers	Novel approaches in guided tissue regeneration
		Biopolymer methods in Cancer therapy

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Poster Presentations	**Workshop**

Organizing Committee Members



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Vice Director

Centre for Rapid and Sustainable Product Development

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Glimpses of Biopolymers Conferences

















London Attractions



















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AUGUST 26-27, 2019, LONDON, UK

AGENDA

Title: Plant biopolymers, its synthetic analogues – prospective therapeutic agents

Dr Vakhtang Barbakadze
Tbilisi State Medical University, Georgia

Vakhtang Barbakadze has his expertise in isolation and structure elucidation of a new series of plant polyethers, which are endowed with pharmacological properties as anti-cancer agents. Besides, he interested in enantioselective synthesis and biological activities of basic monomeric moiety of these biopolyethers, synthesis of enantiomerically pure epoxides as chiral building blocks for the production of synthetic analogues of natural polyethers. He is the head of Department of plant biopolymers and chemical modification of natural compounds at the Tbilisi State Medical University Institute of Pharmacochemistry. 1996 and 2002 he has been a visiting scientist at Utrecht University, The Netherlands, by University Scholarship and The Netherlands organization for scientific research (NWO) Scholarship Scientific Program, respectively. He has published more than 98 papers in reputed journals.

Title: Covalent incorporation of lignin into polymeric binders: Challenges, property design and applications

Lydia Heinrich
Fraunhofer WKI Institute for Wood Research, Germany

Lydia Heinrich graduated from Edinburgh University in 2013 and has since completed a PhD on the synthesis and degradation behavior of bio-based coil coatings under the supervision of Prof. Bruno Andrioletti at the University of Lyon. Since 2016, she has been working at the Fraunhofer WKI Institute for Wood Research in Braunschweig, Germany, which specialises in process technology, natural-fibre composites, wood protection and emission control, quality assurance of wood products, recycling procedures and the use of organic building materials and wood in construction. Lydia Heinrich works as a project manager, leading and participating in research projects involving both industrial and academic partners and focusing on bio-based adhesives as well as on applications of the biopolymer lignin in various contexts, such as adhesives, coatings, printing inks and fire retardants

Title: Influence of different treatments of aspen wood particles on their compatibility with polymer matrix in wood-polymer

Jevgenijs Jaunslavietis Latvia
State Institute of Wood Chemistry (LSIWC), Latvia

Jevgenijs Jaunslavietis currently is a PhD student in Riga Technical University (Latvia) Chemical Engineering studies and a Researcher in Latvia State Institute of Wood Chemistry. Has an expertise in characterization of the surface properties and wetting behaviour of wood fibers, chemical modification of wood particles, studies of WPC interfacial matrix-filler interactions, characterization of WPC with improved functional properties. Participant in National Research Program and European Regional Development Fund projects. Currently, a first author of 4 SCOPUS and/or WoS cited publications in WPC research area.

SPEAKER SLOTS AVAILABLE

Title: Stopping and Range Ions in Matter (SRIM Simulation) as Important Computational Tool for discuss the Plasma Immersion Ion Implantation on Polymer targets

Péricles Lopes Sant'Ana
State University of Sao Paulo - UNESP, Brazil

Péricles Lopes Sant'Ana is Production Engineering (Federal University of Viçosa, Minas Gerais State, Brazil – 2007), Master and Doctor in Materials Science and Technology (State University of Sao Paulo, Brazil). He has 10 years in Research and Development, working with Plasma Surface Treatment and Thin Films Deposition for Food Packaging and Optical Devices. Recently he developed PVC, PET and LDPE polymers using Plasma Immersion Techniques, reaching good surface properties combination of Wetting, Roughness, Optical Transmittance and Barrier Properties, in which are useful for Biotechnology, Food Packaging, Sensors and Devices, Medicine and others important applications.

Title: Bioplastics composed of cellulose and starch from mango waste: Biodegradation and mechanical properties

J. Rodolfo Rendón-Villalobos
CEPROBI-IPN. MEXICO

J. Rodolfo Rendón-Villalobos has his expertise in development and obtaining of Biopolymers that are used to produce composites biodegradables for its potential application in the packaging industry, with the intention of reducing the use and gradually replace conventional polymers to help and try to solve the pollution problems. Coordinates the evaluation of the biopolymers and composites in its structural characteristics as spectrophotometry FT-IR, SEM, XRD; as well as Biodegradation studies, Rheological and Thermal analysis

Title: Protein plastics

M. S. Hedenqvist
KTH Royal Institute of Technology, Sweden

Mikael S. Hedenqvist is professor and leading the division of Polymeric Materials at KTH Royal Institute of Technology, Stockholm, Sweden. He received his Ph.D. from KTH 1995 and was a postdoctoral scholar at the University of Utah, USA, in the group of Professor Richard Boyd. He is editor of Polymer Testing. His research involves both petroleum- and biobased polymers (including starch and protein materials) and the following topics; electrical and transport properties, polymer stability and degradation, packagings, composites, foams, modelling at different length scales and polymer processing.

SPEAKER SLOTS AVAILABLE

Title: Hydrophobic and Hydrophilic Polyglycocarbonates from CO2 and Various Sugars

Yves Gnanou
King Abdullah University of Science and Technology, Saudi Arabia

Professor Yves Gnanou is the Interim Vice President for Academic Affairs. Professor Gnanou joined KAUST from the École Polytechnique in Paris where he held the role of Vice President of Academic Affairs and of Research.

In 2003 Professor Gnanou received the Langevin Prize and the Berthelot Medal from the French “”Academy of Sciences and in 2009 was elected as a Member of the French Academy of Agriculture.In 2011 he was awarded the Title of “Chevalier dans l’ordre des Palmes Académiques” and in 2013 he was awarded the Title of “Chevalier de la Légion d’Honneur”.

Title: Raw protein hydrolysates from tanning industry in blends with Polybutylene succinate adipate (PBSA) for agricultural applications

Maurizia Seggiani
University of Pisa, Italy

Maurizia Seggiani is Full Professor of Principles of Chemistry for Applied Technologies at the University of Pisa, Italy. Her research activities are focused on analysis/optimization of chemical processes regarding the waste management (treatment/recovery/valorisation of industrial solid/liquid/gaseous effluents), biomass gasification, development and application of solid adsorbents for carbon capture at high temperature and also, recently, development of thermoplastic biodegradable/compostable composites for applications in agriculture/marine environments. In the last years, she has been coordinator of research projects concerning the development, processing and validation of bio-composites based on PCL, PHAs and PBSA and industrial byproducts (collagen hydrolysate) and natural waste fibers for different applications

Title: Thermal and Mechanical Properties of Biocomposites Made of Biopolymers and Potato

Norma Mallegni
University of Pisa, Italy

Norma Mallegni Post Doc in University of Pisa, Department of Civil and Industrial Engineering, Master Degree in Chemistry, is working on copolymerization, blending and processing of biobased polymers for tuning properties and sustainability of biobased materials.

SPEAKER SLOTS AVAILABLE

Title: Influence of particle size of bio-calcium carbonate used as reinforcement of pbat/pla bio-based foams compatibilized with ionizing radiation

Elizabeth C. L. Cardoso

Instituto de Pesquisas Energéticas e Nucleares – IPEN, Brasil

Graduated in Industrial Engineering by Pontificia Universidade Católica de S. Paulo (1969), graduated in Licensing in Sciences by Faculdade de Filosofoa, Ciencias e Letras de Santos (1972) – Member of Environmental Chemical Center (CQMA), in IPEN/SP (Nuclear Research Institute) since 1998, specifically in Polymers Laboratory – Master in 2009 with Development of Polymeric Foams from PP and HMSPP , Doctor in 2014 with thesis on Development of partially biodegradable foams from natural and synthetic polymers, pos-doctorate in Development of foams based in biodegradable polymers reinforced with micro-loads from renewable origin. Actually, pos-doctorate student in Development of foams based in biodegradable composites reinforced with micro and nano particles from bio-origin, compatibilized with electron beam

Title: Culture and harvest of mesenchymal stem cells on temperature-responsive glass sphere based carriers

Lei Yang

Liaoning Shihua University, China

Dr Lei Yang engages in preparation, characterization and biomedical application of smart materials. She creates a preparation strategy of smart copolymer films: polymerization-coating two-step film fabrication. This approach combines smart polymers with any substrates containing hydroxyl groups regardless of shape and size, expanding the applications of smart materials. Furthermore, she invents a bottom-spray fluidized bed reactor, and utilizes bottom-spray coating technology and preparation strategy of smart planar films to produce intelligent tridimensional carriers. She uses the two-and three-dimensional smart substrates to culture adherent stem cells. It provides new ideas for development of culture and harvest system for in vitro culture of stem cells.

Title: Effect of silane coupling agent on properties of laminar crosslinked tapioca starch composite foam with corn husk

Manisara Phiriyawirut

King Mongkut's University of Technology Thonburi, Thailand

Manisara Phiriyawirut has her expertise in prepared and characterized biopolymer and bio-related polymer products such as composite foam, composite and blend film, electrospun nanofiber mats for use in packaging or medical/cosmetic related products.

SPEAKER SLOTS AVAILABLE

Title: Chitosan Films for Removal of A Surfactant from Aqueous Solution

Nilay Kahya
Istanbul Technical University, Turkey

Nilay Kahya is a Ph.D. candidate working under the guidance of Prof. F. Bedia Erim Berker. She completed her MSc degree in Chemistry at ITU Graduate School of Science Engineering and Technology in 2016. Research fields of her are mainly related to the applications of biopolymers in drug delivery systems and adsorption fields. She has four publications in Science Citation Index journals.

Title: Study of Synthesis of Biodegradable Plastics from Alkaline Fermented Excessive Activated Sludge

Dr. Yaohui LIU
Technological and Higher Education Institute of Hong Kong, China

Dr. Yaohui LIU has completed his PhD from The Hong Kong Polytechnic University. He is serving as assistant professor in the Technological and Higher Education Institute of Hong Kong (THEi). He holds over 30 publications in international journals and has been taking cares of over 6 government and institution funded research projects in Hong Kong with the overall funding scheme reaching 5M HK$. He also severs as manager for educational sector for the Waste and Resource Centre in the institute. He is member in International Association for Hydro-Environment Engineering and Research - Hong Kong Chapter (IAHR-HK).

Title: Unexplained effect of commercial stabilizers on poly(3-hydroxybutyrate) during processing

Veronika Melcova
Brno University of Technology, Czech Republic

Veronika Melcova has worked with polyhydroxybutyrate and focused on its chemical modifications, stabilization and reactive processing during master studies at Brno University of Technology. After the master degree she has continued on doctoral studies with the aim to further study the topics of polyhydroxybutyrate thermal degradation and reactive processing with respect to the change in polymer structure and biodegradability.

SPEAKER SLOTS AVAILABLE

Title: 3D Optical Properties of N-(Hydroxymethyl)acrylamide Polymer Gel Dosimeters for Radiotherapy Treatment Planning System

Khalid A Raba'eh
Hashemite University, Jordan

Dr. Khalid Rabaeh was received the Ph.D. degree in applied radiation from the Putra University (UPM), Malaysia, in 2007. Following a Ph.D., he took up a position as radiation Physics researcher, at King Abedulaziz City for Science and Technology, Riyadh, Saudi Arabia. He is currently head of Medical Imaging Department, Hashemite University, Jordan. His primary research interests are in the field of radiation Chemistry dosimeters for low and high dose applications. Dr. Rabaeh was involved in projects at Biomedical Physics Department, Research Center, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia. He works on projects related to polymer gel dosimeters for radiotherapy treatment planning systems. He is the author of more than 30 scientific publications and 6 patents.

Title: Nanocomposites foams of polypropilene modified by ionizing radiation containing caco3 /ag° nanoparticles of bio-calcium carbonate – study of bactericidal effect

Duclerc F. Parra
Instituto de Pesquisas Energéticas e Nucleares – IPEN, Brasil

Graduated in Chemistry by São Paulo University (1979), Professor of Environmental Chemical Center (CQMA), in IPEN/SP (Nuclear Research Institute) since 2001, specifically in Polymers Laboratory – Master in Organic Chemistry- Natural Products in 1985, Doctor in 1995 with thesis on Stabilization and degradation of rubbers, pos-doctorate in Luminescent Polymers. Actually, researcher and advisor of PhD program, in nuclear modification of polymer for compatibilization , membranes for drug delivery , nanocomposites for health care products and bactericidal foams.

Title: Chitosan-Graft-Poly (Acrylonitrile-Co-Acrylic acid) To Treatment The Waste Water

Azza Mahmoud Mazrouaa
Egyptian Petroleum Research Institute, Egypt

Azza Mahmoud Mazrouaa has completed her PhD at the age of 34 years from College of Girls-Ain shams University and postdoctoral studies in polymer laboratory- petrochemical department in Egyptian Petroleum Research Institute. Head of polymer laboratory, four years ago and member of the permanent scientific committee of applied chemistry for promotions and rank of professor researchers and assistant research professors. I have published over 40 papers in international journals. My experience in polymer nanocomposites. I am an Editorial Board and reviewer in some journals. I supervised students to get a master's degree and a doctorate. I arbitrated many of theses and papers.

SPEAKER SLOTS AVAILABLE

Title: Leverage the environmentally friendly nanoparticles on the thermal stability and electrical conductivity of Polyp-Phenylenediamine

Manal Gamal Mohamed

Egyptian Petroleum Research Institute, Egypt

Manal Gamal Mohamed Ahmed was born in 1963 in Cairo, Egypt. I hold a Bachelor of Science in Chemistry with a very good degree with honors 1984 ,Master's degree in Organic chemistry 1987 and, as well as a Ph.D. in organic chemistry1994 department of Chemistry Faculty of Science Ain Shams University. She is a Full Professor of polymer Petrochemical department at Egyptian petroleum research institute, Egypt and their Head of the Laboratory of Polymer. She is deputy director of the Asphalt and Polymers Service Center, Egyptian Petroleum Research Institute

Title: Development and Adhesion Study of Adhesive System from Biomaterial for Wood Bonding

Poorvesh D. Rathod

Institute of Science and Technology for Advanced study and Research, India

Poorvesh Rathod was born in Gujarat, India, in 1991. He received the M.Sc. degree in Industrial Chemistry from the Sardar Patel University of Vallabh Vidyanagar, in 2013. In 2015, he joined the Department of Industrial Chemistry, Sardar Patel University, as a Ph.D. Scholar. His current research interests include Products based on renewable energy.

Title: Electrochemical Sensor for melamine detection based on molecularity imprinted polyanyline thin film

Melkamu Biyana Regasa

Jimma University, Ethiopia

Melkamu Biyana Regasa is a PhD student in Materials Science and Engineering at Jimma University in Ethiopia. Melkamu has his expertise in analytical methods development for different application from water, food to biomedical. Currently our research focuses on the development of novel conducting polymers sensor for food quality monitoring to reduce the cost of biomaterials used in biosensors. Polymers are abundant and relatively cheap and easy to process in large scale as well as for future possible commercialization.

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Biography

Title: The Composition Filled In With Almond Shell

Musazade Zulfiyya
Azerbaijan State University of Oil and Industry, Azerbaijan

Zulfiyya Musazade is PhD student at Azerbaijan State University of Oil and Industry, Department of Organic substances and technology of high molecules compounds, Faculty of Chemical Technology. She is at the position of Senior Laboratory Technichian at SOCAR Polymer. She has published more than 4 papers in reputed journals

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