

**European Polysaccharide
Network of Excellence**



**Institute of Biopolymers
and Chemical Fibres**



**American Chemical
Society**



EPNOE 2015
4th EPNOE International Polysaccharide Conference
POLYSACCHARIDES AND POLYSACCHARIDE
-BASED ADVANCED MATERIALS:
FROM SCIENCE TO INDUSTRY

National Stadium in Warsaw, Poland
19 - 22 October 2015

organized by
the Institute of Biopolymers and Chemical Fibres (IBWCh), Łódź, Poland

EPNOE International Polysaccharide Conferences are now key features of the calendar of European scientific events. The conference has been organized biannually since 2009.

The conference aim is to bring together students, scientists and specialists working in industry, universities and research institutes to exchange experiences, present research results, develop a platform for mutual scientific contacts and intensify academic/industry cooperation.

Since 2013, the EPNOE International Polysaccharide Conference has been promoted and organised jointly by the European Polysaccharide Network of Excellence (**EPNOE**) and the Cellulose and Renewable Materials division of the American Chemical Society (**ACS**).

On behalf of EPNOE and ACS, we have the pleasure to invite you to participate in the 4th Conference EPNOE 2015 "Polysaccharides and Polysaccharide - based advanced materials: From Science to Industry"

Scope of the conference:

- Polysaccharide biosynthesis: structural and chemical aspects
- Polysaccharide dis-assembling, isolation and extraction
- Physical, structural, surface and chemical characterisation of polysaccharides
- Chemical and enzymatic degradation, functionalisation and modification of polysaccharides
- Nanopolysaccharide production, characterisation and uses, including nanocellulose and MFC
- Polysaccharides in food and feed
- Polysaccharides in health care, personal care, and cosmetics
- Materials for green engineering and building construction
- Biorefinery (pulp & paper, use of co-products and wastes)
- Bioplastics and fiber-reinforced composites
- Bio-resource and bio-product engineering
- Bio-based economy
- Bio-based textiles: eco-friendly design and technology

Contact:

***<http://epnoe2015.ibwch.lodz.pl>, e-mail: epnoe2015@ibwch.lodz.pl,
phone: +48 42 638 03 02***

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PLENARY, INVITED AND KEY-NOTE LECTURES

Plenary Lecturer		Title of presentation
P1	Stanisław Bielecki (Poland)	From bio-nanocellulose to bioeconomy
P2	Kevin Edgar (USA)	Ultramild, Selective, and Versatile – New Pathways to Polysaccharide Derivatives through Cross-Metathesis
P3	Orlando Rojas (Finland)	(Nano)cellulose as support for bio-interfaces and bioactive materials
P4	Artur Cavaco-Paulo (Portugal)	Enzymatic modification of carbohydrate fibres
P5	Vincent Bulone (France)	Structure and biosynthesis of essential Eukaryotic cell wall polysaccharides
Invited Lecturer		Title of presentation
IL1	Janusz Kapuśniak (Poland)	Esterification of starch with fatty acids. New opportunities and challenges
IL2	Johannes Ganster (Germany)	Utilization of Lignocellulose in the Plastics Industry - Vision and Reality
IL3	Carmen Boeriu (the Netherlands)	Functional carbohydrates: Using enzymes for selectivity
Invited Lectures for Panel - 21 October		Title of presentation
IL1	Paweł Bielski - <i>Grupa Azoty S.A.</i> (Poland)	Grupa Azoty - The power creation for innovative, sustainable products
IL2	Silke Stüsgen - <i>Toho/Tenax</i> (Japan)	Development trends for carbon fibres
IL3	Gerd Unkelbach - <i>Fraunhofer Center for Chemical-Biotechnological Processes CBP</i> (Germany)	Shaping the future with bioeconomy - biogenic residues as raw materials for the chemical industry

Invited Lectures for Panel - 22 October		Title of presentation
IL1	Patrick Navard - <i>EPNOE Association</i> (France)	The role of research institute-industry relationships
IL2	Andreas Kuenkel - <i>BASF</i> (Germany)	Biodegradable and renewable polymers: How to contribute to a sustainable future?
IL3	Tomasz Zieliński - <i>PIPC</i> (Poland)	Chemical sector - or has a chance to become a leader of innovation in Poland
IL4	Krzysztof Jak Kurzydłowski - <i>NCBiR</i> (Poland)	Support for innovation and research - development, new changes for business development for the period 2020
Key-note Lecturer		Title of presentation
KL1	Małgorzata Jaworska (Poland)	Ionic liquids, a new tool for modification of chitin and chitosan
KL2	Laurent Arnaud (France)	The use of bio based building materials: sustainability and technical performances
KL3	Tatiana Budtova (Russia)	Bio-aerogels
KL4	Birgit Classen (Germany)	Stimulation of somatic embryogenesis and plant regeneration by natural proteoglycans
KL5	Peter Williams (United Kingdom)	Modification of polysaccharides to form new functional materials
KL6	Sevda Senel (Turkey)	Chitosan for human and veterinary medicine: possibilities and limitations
KL7	Elizabete Frolini (Brazil)	Bio-based materials from electrospinning
KL8	Stefan Spirk (Austria)	Materials from Polysaccharides – New Tricks from Old Dogs
KL9	Bernard Cathala (France)	Nanocelluloses as versatile platform nanoparticles for advanced materials
KL10	<i>will be announced</i>	
KL11	Jay-Lin Jane (USA)	Resistant starch, health benefits and analysis
KL12	Izabella Krucińska (Poland)	Bio-based textiles as an element of bioindustry
KL13	Xiaoxi Li (China)	Design of starch-based controlled-release delivery carriers
KL14	Karin Stana-Kleinschek (Slovenia)	Polysaccharide surface structures for tailored biomolecule interactions
KL15	Danuta Ciechańska (Poland)	Biomass as a source of valuable polymer materials
KL16	<i>will be announced</i>	