The PPS-2017 Europe-Africa Conference, June 26-29, 2017 will be held in Dresden, Germany

The 2017 Europe-Africa Conference of PPS will take place in Dresden, Germany, on June 26-29 (website http://www.pps2017dresden.de/). The Conference Center of the Deutsches Hygiene Museum will be the venue, which is a superb world-class place for such a conference. The PPS-2017 Organizer, Prof. Udo Wagenknecht (IPF), is putting in his best efforts to organize a memorable conference with scientific quality and a splendid social and cultural program.

PPS-2017 will maintain a good balance of programs to serve the attendees from academia and industry. It will provide cutting-edge research results and the latest developments in the field of polymer engineering and science. The thematic range will comprise conventional processing technologies as well as materials-based macromolecular research. General Symposia and a series of Special Symposia will offer a forum for many oral and poster presentations. Further highlights will be the Plenary Lectures given by speakers from academia and companies focusing on topics from the academic science and global challenges for industrial polymer engineering. A splendid social program will accompany the conference.

Dresden, capital of the eastern German state of Saxony, is distinguished by the celebrated art museums and classic architecture of its reconstructed old town. Completed in 1743 and rebuilt after WWII, the baroque church Frauenkirche is famed for its grand dome. The Versailles-inspired Zwinger palace houses museums including Gemäldegalerie Alte Meister, exhibiting masterpieces of art like Raphael’s “Sistine Madonna.” The river Elbe runs through the city offering beautiful scenery on a boat trip.

The PPS-33 International Conference, December 10-14, 2017 will be held in Cancun, Mexico

The PPS INTERNATIONAL CONFERENCE is usually organized in late spring or early summer and the regional in the fall. For 2017 the Executive Committee of the PPS decided to organize the PPS-33 International Conference in December 10-14, in Cancun, Mexico, due to the very pleasant weather at this time of the year (start of the high tourist season).
The website of the conference is http://www.pps-33.com. The Conference Center of the Grand Fiesta Americana, Coral Beach, Cancun, will be the venue, which is a superb world-class place for such a conference. The PPS-33 Organizer, Prof. Octavio Manero (UNAM), is making every effort to organize a superb conference with scientific quality and a splendid social and cultural program.

The general symposia are: Extrusion processes, Injection molding, Process modeling and simulations, Blow molding, thermoforming and rotomolding, Recycling and environment friendly processes, Fiber, membranes and barrier polymers, Mixing and compounding, Polymer blends and alloys, Polymer nanocomposites and nanotechnology, Polymer composites, Biopolymers and natural fibers, Polymer foams and films, Rubber and elastomers, Rheology and Rheometry, Morphology and structure development, Reactive processing.

The special symposia are: Advanced processing technologies, Automotive and medical applications, Additive technology, Soft matter applications to polymer processing.


Cancun is not only an internationally well-known place for beach and sun activities, but also it is a city of culture and conventions, industrial and scientific, surrounded by ancient Mayan sites, impressive landscape and natural beauties. It is a site where people from all over the world come and meet.

Other Meetings of Interest to PPS Members

2017

29 Oct - 3 Nov
AIChE Annual Meeting
Minneapolis Convention Center, Minneapolis, MN, USA
https://www.aiche.org/conferences/aiche-annual-meeting/2017

8 Oct - 12 Oct
89th Society of Rheology Meeting
Denver, United States - A. Grillet - lbertco@umche.maine.edu - www.rheology.org/sor/annual_meeting/2017Oct

8 Oct - 10 Oct
Lambla Award winner for 2017 is Bryan Vogt of the University of Akron, Ohio, USA

The Lambla Award will be given at PPS-33 in Cancun, Mexico, to Prof. Bryan Vogt.

Dr. Bryan Vogt grew up near Madison, Wisconsin, USA, and was inspired at a young age to explore the wonders of chemistry by Once Upon a Christmas Cheery, In the Lab of Shakhashiri (presented by Prof. Bassam Shakhashiri, Dept. of Chemistry @ UW-Madison). He received his B.S. in Chemical Engineering from Michigan Technological University in 1998.

During his undergraduate studies, he was fortunate to have the opportunity to help Prof. Julia A. King set up her laboratory for examination of carbon-filled composites. This early exposure to polymer compounding and testing laid the foundations for his independent work in polymer processing. As an NSF graduate research fellow, he then worked with Prof. Jim Watkins at UMass-Amherst for his PhD studies in examination of the phase behavior of polymers swollen by supercritical fluids. He received his PhD in Chemical Engineering for UMass in 2003 after receiving a National Research Council Postdoctoral Assistantship to work with Dr. Wen-li Wu in the Polymers Division at NIST in Gaithersburg, MD.

At NIST, he worked with a variety of companies to address measurement needs associated with thin films and interfaces, most notably understanding the fundamental limits of chemically amplified photoresists for the microelectronics industry.

In 2006, he joined the faculty of chemical engineering at Arizona State University as an Assistant Professor and received the NSF CAREER award during his tenure at ASU.

In 2011, he moved to the Department of Polymer Engineering at the University of Akron. His research interests focus on self-assembly and interfacial phenomena with a focus on how these structures can be used for fundamental understanding of critical phenomena in emergent technologies. Specific applications of interest are biobutanol recovery, ice prevention, next generation battery technologies, robust adhesives, and preventing traumatic brain injuries with
mechanically responsive soft materials. He has over 120 peer reviewed publications with an h-index of 29.

**JLWhite Innovation Award for 2017 Goes to Prof. Phil Coates, FREng, Director of the Polymer Interdisciplinary Research Centre, University of Bradford, UK**

The James L White Award will be given at PPS-33 to Phil Coates for the development of solid phase orientation processing routes which are exploited in the manufacture of products with greatly enhanced properties.

Prof. Coates has exploited solid phase processing of polymers (at temperatures above $T_g$ but below $T_m$), to attain stable, molecularly oriented structures with significant, controlled improvement in modulus, tensile strength, thermal conductivity, creep resistance, impact resistance, diffusion behaviour and drug elution. His work from the 1970s, when he invented the polymer die-drawing process, to the present has established the excellent team in the Polymer IRC at Bradford as the leaders in solid-phase polymer orientation with extensive journal publications, the research book in this area (PPS series), a range of patents with collaborators, and a large industrial (including BP Chemicals, Bridon International, Dow, Sinopec, Sabic, Smith & Nephew, Arterius) and government research contract portfolio. The Polymer IRC research led by Phil has been commercialised in macro to micro products, including highly stable building materials exploiting controlled cavitation with orientation (via a Dow spin out company in the USA, Eovations LLC); suitcases (CURVTM e.g. Samsonite); and high precision arterial stents (Arterius Ltd); with other products such as shape memory tissue fixations and drug-eluting implants in development.

His research has developed fundamental understanding of the mechanics of solid-phase deformation behaviour of polymers, with new constitutive relationships and physical modelling used to achieve molecular-related understanding of deformation and feed computer modelling and control of structure. This has underpinned inventive steps in the design and implementation
of batch and continuous processes, and these die-drawing process technologies have been
transferred to industry at both large and small scales, and also to academy, the latter via Royal
Society Newton support for in-situ x-ray beam line studies of die drawing structure
development in a joint international research laboratory in Changchun, China. This forms part
of the highly successful Science Bridges China (2009 on) advanced materials platform formed
and led by Prof. Coates, with over 200 leading Chinese and UK academics.

Phil is a Fellow of the Royal Academy of Engineering and Fellow of the IMechE and IoMMM,
winner of the Netlon Award, the Swinburne Award, the Tianfu Friendship Award and Sichuan
International Science Cooperation Award. He is Chief Editor of the IoMMM international
journal, Plastics Rubber & Composites: Macromolecular Engineering.

**Early Career Award for 2017 goes to Prof. Jiahua Zhu of University of Akron, OH, USA**

The Early Career Award will be given at PPS-33 in Cancun, Mexico, to Prof. Jiahua Zhu.

Dr. Jiahua Zhu joined the Department of Chemical & Biomolecular Engineering at the University of Akron in 2013 as an Assistant Professor. Dr. Zhu received his Ph.D. degree of Chemical Engineering from Lamar University in 2013 and received a Master's degree in Chemical Engineering from Nanjing University of Technology (2009) and a Bachelor's degree in Applied Chemistry from Yangzhou University (2006).

Dr. Zhu has coauthored more than 100 peer-reviewed journal articles, three book chapters and three patents. His work has been cited more than 4000 times with an h-index of 37. Dr. Zhu has actively served on the Materials Science & Technology Society, Minerals, Metals & Materials Society (TMS) and the American Institute of Chemical Engineers as symposium organizer and session chair since 2011, and served as reviewer for more than 40 scientific journals.

Dr. Zhu was awarded the Chinese Government Award for Outstanding Self-Financed Students Abroad, Young Leader Development Award from Functional Material Division of TMS Society. Dr. Zhu’s current research interests cover the fundamental study of multifunctional polymer- and carbon-based nanocomposites and explore their applications in emerging fields such as thermal management, catalysis, lubrication, etc. His research efforts have been recognized through the NSF-CBET, ACS-PRF and Center for Tire Research.

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(by Mark Smith, Senior Editor, Plastics Technology, Hanser)

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Next Newsletter – November 2017

If you have comments on how to improve this newsletter or want to share some information in the next one, please contact the Newsletter Editor Prof. Evan Mitsoulis at mitsoulis@metal.ntua.gr. The next issue of the Newsletter is due in November 2017.