



PPS Newsletter

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June 2018

Information to Polymer Processing Society Members

The PPS-34 International Conference, May 21-25, 2018, held in Taipei, Taiwan, was a great success

The PPS-34 International Conference was held in May 21-25, 2018, in Taipei, Taiwan, with great success. The website of the conference is <http://www.pps-34.com>. The Taipei International Convention Center (TICC), was the venue, which is a superb world-class place for such a conference. The PPS-34 Organizer, Prof. Shih-Jung Liu and several volunteers from the Chang Gung University made every effort to organize an excellent conference with scientific quality and a magnificent social and cultural program.

PPS-34 maintained a good balance of programs to serve the attendees from academia and industry. It accepted 498 abstracts from 38 countries. There were 67 keynote lectures, 262 oral and 161 poster presentations. There were 23 symposia covering a wide variety of polymer processing topics (16 general and 7 special), 5 plenary lectures plus the Morand Lambla, James L. White, and Early Career award lectures. From the list of participants, Taiwan (139) had the most attendees, followed by Japan, Germany, China, etc.

A technical exhibition and a splendid social program accompanied the conference. The banquet took place at the Taipei Grand Hotel, a world-renowned place. An excursion took place to PingXi village where sky lanterns were flown in the night sky.



The reception at TICC in Taipei, Taiwan, site of the PPS-34 International Conference.



The Executive Committee at the Executive Meeting at TICC in Taipei, site of PPS-34.



The Sky Lanterns are taking off at PingXi Village by the participants of PPS-34 Intern. Conference.



Evan Mitsoulis (PPS Secretary), Costas Tzoganakis (JLWhite Innovation Awardee) and John Vlachopoulos (their PhD supervisor) at the reception at TICC in Taipei.



Agassant (President-Elect, far left), Altan (President of PPS), and Liu (Organizer of PPS-34) at TICC in Taipei, site of PPS-34.



The biggest Sky Lantern is in preparation at PingXi Village with the help of participants of PPS-34 International Conference.



Ica Manas-Zloczower (far left), the Early Career Awardee Prof. Hua Deng, and PPS President Cengiz Altan during the Banquet of PPS-34 in Taipei.



Ica Manas-Zloczower (far left), the Morand Lambla Awardee Prof. Patrick Lee, and PPS President Cengiz Altan during the Banquet of PPS-34 in Taipei.



Ica Manas-Zloczower (far left), the James L. White Innovation Awardee Prof. Costas Tzoganakis, and PPS President Cengiz Altan during the Banquet of PPS-34 in Taipei.

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

An outstanding PPS-33 International Conference was held in December 10-14, 2017, in Cancun, Mexico. The Conference Center of the Grand Fiesta Americana, Coral Beach, Cancun, was the venue, which is a superb world-class place for such a conference. The PPS-33 Organizer, Prof. Octavio Manero (UNAM) and co-organizers (Sanchez-Zolis, Sanchez-Olivares, and Calderas), made every effort to organize an outstanding conference with scientific quality and a lively social and cultural program.

PPS-33 maintained a good balance of programs to serve the attendees from academia and industry. It accepted 452 abstracts from 39 countries. There were 20 symposia (16 general and 4 special), 6 plenary lectures plus the Morand Lambla, James L. White, and Early Career award lectures. From the list of participants, Germany (53) had the biggest list, followed by Brazil, USA, Japan, China, Canada, Mexico, etc.

The plenary speakers were: 1. M. Okamoto, Toyota, Japan; 2. L. Zhang, Beijing University of Chemical Technology, China; 3. E. Brito de la Fuente, Fresenius-Kabi, Germany; 4. Chul B. Park, University of Toronto, Canada, 5. M. Farah, Braskem, Brasil; 6. J. M. Fernández, Teknopellets, S.A. de C.V., México.

In the Conference the 3 awards for 2017 from PPS were also presented. These were: the Morand Lambla Award for Prof. Bryan Vogt of University of Akron, Akron, OH, USA; the James L. White Innovation Award to Prof. Phil Coates of University of Bradford, UK; and the Early Career Award for Prof. Jiahua Zhu of University of Akron, Akron, OH, USA.



Ica Manas-Zloczower (far left), Sati Bhattacharya (PPS President), and James L. White Innovation Awardee, Prof. Phil Coates at the Awards Ceremony.



Morand Lambla Awardee Prof. Bryan Vogt (far left), Ica Manas-Zloczower, and Sati Bhattacharya, PPS President at the Awards Ceremony.



Ica Manas-Zloczower (far left), Early Career Awardee Prof. Jiahua Zhu, and Sati Bhattacharya (PPS President) at the Awards Ceremony.



Prof. Octavio Manero, the Organizer of PPS-33 at the Opening Ceremony in Cancun, Mexico.



The beautiful beach before the Grand Fiesta Americana, venue of the PPS-33 International Conference.



Chichen Itza Pyramid, in the Yucatan peninsula, was a place to be visited by those attending the PPS-33 International Conference in Cancun, Mexico.

The PPS-2018 Americas Conference, November 5-9, 2018, to be held in Boston, MA, USA

The 2018 Americas Conference of PPS will take place in Boston, Massachusetts, USA, on November 5-9 (website <http://www.pps2018boston.com/>). The Westin Copley Plaza Hotel will be the venue, which is at the heart of trendy Back Bay in Boston. The Westin Copley Place is linked to the Hynes Convention Center via skybridge and is only a stroll away from shopping at the Copley Mall, Prudential Building, and Newbury Street. The PPS-2018 Organizers, Prof. Joey Mead and Prof. Meg Sobkowicz, have put in their best efforts to organize a memorable conference with scientific quality and a superb social and cultural program.

PPS-2018 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 comprise conventional processing technologies as well as materials-based macromolecular research.

The scientific symposia are: Polymeric Nanocomposites and Nanomanufacturing, Rheology of Polymers, Processing (Injection Molding, Extrusion, Blow Molding, Thermoforming), Polymers and Sustainability, Blends, Compounding and Mixing, Bio-medical Polymers, Smart and Multi-functional Polymers and Surfaces, Colloidal Materials and Advanced Coatings, Elastomers and Foams, Simulation and Design, 3D Printing, Polymers and Substrates for Flexible Electronics, Fibers and Textiles.

Boston, capital of the Commonwealth of Massachusetts in the USA, is distinguished by the celebrated art museums and classic architecture of its old town. The river Charles runs through the city offering beautiful scenery on a boat trip. The Boston area's many colleges and universities make it an international center of higher education, including law, medicine, engineering, and business, and the city is considered to be a world leader in innovation and entrepreneurship, with nearly 2,000 start-ups. Boston's economic base also includes finance, professional and business services, biotechnology, information technology, and government activities.



Boston, Massachusetts, is located on the Atlantic Shoreline of the USA. The PPS-2018 Americas Regional Conference will take place there.



Boston has a beautiful harbor and a downtown area with high skyscrapers.



Another view of the Boston Harbor, where the PPS-2018 Americas Regional Conference will take place.

The PPS-35 International Conference, May 26-30, 2019, to be held in Çeşme, Turkey

The PPS-35 International Conference of PPS will take place in Çeşme (near Izmir), Turkey, on May 26-30 2019 (website <http://www.pps-35.org/>). The Radisson Blu Resort and Spa Hotel will be the venue, which is an excellent world-class place for such a conference. The PPS-35 Organizer, Prof. Yusuf Menceloglu of Sabanci University, is promising an outstanding conference combining the best of the East with the best of the West.

Çeşme is a Turkish resort town west of Izmir, on the Aegean Sea. Overlooking the harbor is Çeşme Castle, a restored military fortress. It now houses the Çeşme Archaeology Museum, with displays of marble busts, metal coins and artifacts from nearby excavations. On the east side of the Çeşme peninsula is sandy Ilica Beach, with warm thermal sulfur springs. Around Çeşme are clear waters and accessible dive sites. The name "Çeşme" means "fountain" and possibly draws reference from the many fountains that are scattered across the city.



Çeşme is a Turkish resort town west of Izmir, on the Aegean Sea. The PPS-35 International Conference will take place there.



Çeşme has a beautiful beach near the hotel where PPS-35 will take place.



Another view of the Çeşme beach, where the PPS-35 International Conference will take place.

Other Meetings of Interest to PPS Members

2018

14 Oct - 18 Oct
90th Society of Rheology Meeting
2018 SOR
Houston, TX, United States

http://www.rheology.org/sor/annual_meeting/default.htm

28 Oct - 2 Nov

2018 AIChE Annual Meeting

David L. Lawrence Convention Center, Pittsburgh, PA, USA

<https://www.aiche.org/conferences/aiche-annual-meeting/2018>

2019

18 Mar - 20 Mar

ANTEC Detroit

Renaissance Center, Detroit, MI, USA

https://www.4spe.org/i4a/calendar/index.cfm?calendar_category=2#May2019

8 Apr - 11 Apr

Annual European Rheology Conference

AERC 2019

Portoroz, Slovenia

Contact person: Prof. I. Emri, cem@fs.uni-lj.si

<https://rheology-esr.org/aerces>

24 June - 27 June

9th International Meeting of the Hellenic Society of Rheology

2019 HSR

Samos, Greece

Contact person: Prof. Costas Housiadas, housiada@aegean.gr

<http://esperia.iesl.forth.gr/~hsr/HSRwebpage.html>

10 Nov - 15 Nov

2019 AIChE Annual Meeting

Hyatt Regency, Orlando, FL, USA

<https://www.aiche.org/conferences/aiche-annual-meeting/2019>

Morand Lambla Award winner for 2018 is Patrick Lee of the University of Vermont, Vermont, USA

The Morand Lambla Award was given at PPS-34 in Taipei, Taiwan, to Prof. Patrick Lee.



Dr. Patrick C. Lee received his B.Sc. degree in Mechanical Engineering from the University of British Columbia, and then obtained his M.A.Sc. and Ph.D. in Mechanical Engineering from the University of Toronto in 2001 and 2006, respectively. Then he pursued Postdoctoral study in the Department of Chemical Engineering and Materials Science at the University of Minnesota, where Dr. Lee was a Research Associate of Prof. Chris Macosko. Dr. Lee began his professional career at The Dow Chemical Company in 2008. He was a Research Scientist and Project Leader in Dow's Research and Development organization, leading multiple cross-functional global project teams. Dr. Lee joined the Department of Mechanical Engineering at The University of Vermont as an assistant professor in 2014. Since joining UVM, he created his own research platform on the lightweight and smart composite structures. He will join the Department of Mechanical and Industrial Engineering at The University of Toronto starting July 1st, 2018.

Dr. Lee has 38 research journal papers, 71 refereed conference papers, 2 book chapters, and 13 filed or issued patent applications in the field of polymer foam processing and characterization, and processing-structure-property relationships of nano-composites. He is the PI or co-PI on domestically and internationally awarded grants from various government agencies and industries. Among his honors, Dr. Lee received the National Science Foundation Early Faculty Career Development Award (CAREER) in 2018, the Hanwha Advanced Materials Non-Tenured Faculty Award in 2017, 3 "best paper" awards from the Society of Plastics Engineers (2005, 2 in 2011), 1 "best poster" award from the International Polymer Processing Society in 2015.

James L. White Innovation Award for 2018 Goes to Prof. Costas Tzoganakis, University of Waterloo, Ontario, Canada

The James L. White Innovation Award was given at PPS-34 in Taipei, Taiwan, to Prof. Costas Tzoganakis.



Costas Tzoganakis is a Professor in the Department of Chemical Engineering at the University of Waterloo in Canada. He obtained his Diploma of Chemical Engineering from the Aristotle University in Thessaloniki, Greece and received his PhD in Chemical Engineering from McMaster University in Canada. Prior to joining the University of Waterloo, he worked at the DuPont Canada Research Center in Canada.

His research expertise encompasses areas relating to polymer reactive extrusion (REX), chemical modification of polymers, and polymer rheology. Professor Tzoganakis has made significant and novel contributions in the area of polymer reactive extrusion. His research activities have primarily focused on the enhancement of polyolefinic material properties through melt-phase chemical modification. His seminal work on the fundamentals of controlled rheology polypropylene production has been adopted widely in the industry, and he has pioneered the use of supercritical fluids in novel polymer and rubber REX operations. Prof. Tzoganakis has several patents, over two hundred publications, and he has interacted and consulted extensively with the industry. He is a long-time member of the Polymer Processing Society (PPS), a Fellow of the Society of Plastics Engineers (SPE), and a Fellow of the Chemical Institute of Canada (CIC).

In recognition of his significant research achievements, Prof. Tzoganakis has received the Heinz Hermann Award (2018) as well as the Heinz List Award (2015) from the Extrusion Division of the Society of Plastics Engineers, and the Syncrude Award from the Canadian Society for Chemical Engineering.

His innovative work on rubber devulcanization by reactive extrusion has led to the formation of Tyromer Inc., a University of Waterloo start-up company in which Prof. Tzoganakis is currently serving as the chief technology officer. Tyromer's technology is based on a unique patented reactive extrusion process which involves the extrusion of rubber crumb with supercritical carbon dioxide. This is a very simple continuous twin-screw extrusion process that does not employ any chemical reagents, resulting in high-quality devulcanized rubber. This technology provides a sustainable, financially viable, environmentally friendly, and socially responsible solution to scrap rubber. It offers a sustainable solution to End-of-Life Tires (ELT) and provides tire manufacturers a financially advantageous option to reduce their carbon footprint. This technology can be easily adjusted to work with scrap from various rubber types and sources. Tyromer currently operates two manufacturing facilities in Canada and has two licensees (Europe and China).

Early Career Award for 2018 goes to Prof. Hua Deng of Sichuan University, People's Republic of China

The Early Career Award was given at PPS-34 in Taipei, Taiwan, to Prof. Hua Deng.



Hua Deng joined the College of Polymer Science and Engineering at Sichuan University in 2009 as Lecturer, promoted to Associate Professor in 2011, and full Professor in 2015, respectively.

He obtained his Bachelor's Degree in Materials Science and Engineering in Harbin Institute of Technology. He then obtained his Master's Degree in Queen Mary, University of London, UK, where he studied the water absorption behavior of all-polypropylene composites. He received his Ph.D. in Queen Mary, University of London, UK, under the guidance of Professor Ton Peijs. His Ph.D. research focused on the application of carbon nanotubes in polymer matrix in the form of composites and oriented tapes. Before his Ph.D. graduation he started working for the R&D department of Nanocyl S.A. (Belgium), dealing with the application of CNTs in various polymer matrices.

He has over 100 publications in SCI journals, including Progress in Polymer Science, Advanced Functional Materials, Small, etc., and six innovative patents. These publications have received over 3000 citations with an h-index of 34.

His current research interests cover the area of functional polymer composites, with research focusing on polymer processing, including electrical/thermal conductive polymer composites, strain sensing, dielectric polymer composites. His research efforts have been recognized through various programs and prizes: Program for New Century Excellent Talents in University from Ministry of Education (2013), Outstanding Young Scholar of Sichuan Province (2013), The first prize for Sichuan province Science and Technology Progress Award (2014), The Reserve Candidates for Academic and Technical Leaders in Sichuan Province (2014), The Talent of Outstanding Young Science and Technology Award of Sichuan University (2016). His research has received funding from both NSFC as well as industry: ExxonMobil, Sunliky and Taly.

Next Newsletter – November 2018

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 mitsouli@metal.ntua.gr. The next issue of the Newsletter is due in November 2018.