



PPS Newsletter

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November 2012 *Information to Polymer Processing Society Members*

PPS-2012 in Niagara Falls, Canada, a Great Meeting at a Great Location

The PPS-2012 regional meeting for the Americas of the Polymer Processing Society (<http://www.pps-2012.com>) took place in Niagara Falls, Canada, in May 21-24, 2012. The venue was the excellent Marriot Hotel overlooking the Falls. The Organizer, Prof. Park, and his superb team from the University of Toronto made sure that the Meeting was a great event, both in scientific and organizational terms. The Technical Program Chair was Hani E. Naguib, who set up an excellent program. Although a regional meeting for the Americas, around 250 registered participants from 33 countries made this a truly international event. Over three days, there were 6 plenary, 45 keynote and 135 oral presentations from leading scientists and engineers, while 22 posters were also presented, and the three best student posters were recognized for their quality and innovation. Midway through the conference, a banquet was held at a prominent local winery to sample Niagara Falls amazing wines, have a culinary adventure, and experience Canadian culture and goodwill. Needless to say, the spectacular setting of the Falls made this an unforgettable trip for the PPS participants.



Prof. Chul Park, organizer of PPS-2012 kicks off the banquet at a winery near Niagara Falls.



PPS President, Prof. Ica Manas-Zloczower, thanks Prof. Park during the banquet for a well organized PPS-2012 meeting.



Profs. Park (middle) and Agassant ((right) listen to Prof. Carreau (left), who was honored for his many achievements during PPS-2012.



Prof. Charles Tucker III gives his plenary lecture.



An overall view of the Hall for Plenary Lectures during PPS-2012. Prof. Kikutani presenting.



An overall view of the poster session during PPS-2012.

Upcoming PPS-28 International Conference, in Pattaya, Thailand, set to bring together people from all over the world

Our International Conference, PPS-28, will take place in Pattaya, Thailand, in December 11-15, 2012. The venue of the meeting will be the superb Royal Cliff Beach Hotel. The meeting is organized by the National Metal and Materials Technology Center (MTEC) of Thailand, under the able direction of Prof. Krisda Suchiva. More information can be found at <http://www.pps-28.com>. This 5-day International Conference, the premier event of PPS, is a must for all people involved in the polymer processing field. With keynote, plenary, oral and poster presentations as well as industry displays, you will want to ensure you attend and hear the latest developments from all over the world. The International Conferences of PPS are regularly attended by over 500 people, and PPS-28 promises to be no exception. Attendance of PPS-28 guarantees meeting many new faces and some familiar ones and perhaps develop a new collaboration. The full final program for the PPS-28, including all the posters, is available on the conference site. This meeting features a special symposium to honor Prof. Emeritus Musa Kamal (Canada). Prof. Suchiva and his team have worked very hard in putting together an excellent and stimulating scientific program. All important sessions on polymer processing will be covered in the meeting, while several Asian plastics companies will be represented for fruitful collaboration with the Conference attendees.

Pattaya is a popular beach resort on the Gulf of Thailand just 150 km southeast of Bangkok: a mere two hour drive. From Bangkok International Airport, the organizers have arranged for transportation to Pattaya, and it can be found in <http://www.mtec.or.th/pps-28/how-to-get-there>. Pattaya draws visitors from around the world. With activities that include: a wide array of water sports, golf, shopping, cabaret shows, an elephant village, and a Ripley's Believe it or Not museum (to name only a very few) it is possible to enjoy Pattaya in parallel with a truly outstanding technical program.



Map of South East Asia, showing Thailand and Pattaya, the site of PPS-28, which is located 150 km (90 miles) south-east of Bangkok.



The Royal Cliff Beach Resort, venue for the PPS-28 International Conference, is a world-class hotel and conference facility located right at sea in the Gulf of Thailand.

The PPS-29 International Conference will take place in July 15-19, 2013 in Nuremberg, Germany

The PPS-29 International Conference of the Polymer Processing Society (<http://www.pps-29.com/>) will take place in Nuremberg, Germany. The meeting dates are July 15-19, 2013. The venue will be the newly opened Nuremberg Conference Center. Apart from the usual conference activities consisting of plenary lectures, 14 general symposia and poster presentation, there will be a series of Special Symposia focusing on up-to-date topics of

polymer engineering, like plastic solutions - for renewable energy technologies, for e-mobility, - for construction and housing, and advanced applied rheology, additive manufacturing and solutions for hybrid polymer structures.

Although an intensive science and technology experience is the driving force of the PPS-29, the social and cultural part of a visit to Germany should not be missed. The Organizing Committee, under the able leadership of Prof. Volker Altstadt, is putting in its best efforts to organize this event and make it a memorable one.

The meeting takes place in one of the most attractive regions of Germany in the north of Bavaria. Nuremberg is located about 170 km north of Munich and has a splendid history with a cultural heyday in the period between 1470 and 1530, when artists like Albrecht Dürer created their world-renowned works of art. In those days Nuremberg was the commercial trade center north of the Alps. This exciting atmosphere can still be felt today. An evening in a historical Bavarian beer hall will immerse you in typical Bavarian traditions.

The 2nd announcement for the meeting is already posted on the website, with the names of sessions, invited plenary and keynote speakers, and special symposia. The deadline for abstracts is December 20, 2012.



Map of Germany, showing Nuremberg, the site of PPS-29, which is located in northern Bavaria.



The old city of Nuremberg offers exciting medieval sites and many museums to visit.



The newly opened Nuremberg Conference Center is a world-class conference facility and is the venue for PPS-29.

Future Meetings

In its continuing effort to be a truly international society, PPS strives to have meetings every year in different parts of the world. The following list of upcoming meetings is a good indication of these efforts.

2013 Regional Meeting

Asia/Australasia Conference PPS-2013, Bangalore/Kerala, India, December
Conference Chairs: Profs. Ghosh, Misra

2014 Meetings

International Conference (PPS-30), Cleveland, OH, USA, June
Conference Chairs: Profs. Jana, Maia

Europe/Africa Conference PPS-2014, Tel Aviv, Israel, mid-October
Conference Chair: Prof. Kenig

2015 Meetings

International Conference (PPS-31), Jeju Island, KOREA, May
Conference Chairs: Prof. J.K. Kim

Europe/Africa Conference PPS-2015, Graz, Austria, October
Conference Chair: Prof. Holzer

Other Meetings of Interest to PPS Members

2013

84th Annual Meeting of The Society of Rheology

February 10-14, Pasadena, California, USA

For information visit: <http://www.rheology.org>

8th Annual European Rheology Conference

April 2-5, Leuven, BELGIUM

For information visit: <http://www.rheology-esr.net>

85th Annual Meeting of The Society of Rheology

October 13-17, Montreal, CANADA

For information visit: <http://www.rheology.org>

SPE-ANTEC® 2013

April 21-25, Cincinnati, Ohio, USA

2013 K-Show, International Trade Fair for Plastics and Rubber

October 16-23, Düsseldorf, GERMANY

For information visit: <http://www.k-online.de>

2014

86th Annual Meeting of The Society of Rheology

October 5-9, Philadelphia, PA, USA

For information visit: <http://www.rheology.org>

SPE-ANTEC® 2014

April 27-May 1, Las Vegas, Nevada, USA

For information visit: <http://www.4spe.org>

Lambla Award winner for 2012 is Prof. Peter van Puyvelde of the University of Leuven, Belgium



Peter van Puyvelde is the Lambla Award Winner of PPS for 2012. Peter is a Professor of Chemical Engineering at the University of Leuven, Belgium. In 1999, he obtained his PhD in Chemical Engineering from the same university under the supervision of Prof. Paula Moldenaers. His PhD work dealt with the development of rheo-optical methodologies for the study of structure formation in immiscible polymeric systems. After spending 6 months at the Technical University Eindhoven, working with Han Meijer and Patrick Anderson, he joined the faculty at Leuven. His current research focuses on flow-induced crystallization and structure formation in bio-based materials. The key aspect in his work is his systematical scientific approach towards processing related problems, using a broad range of experimental methodologies such as rheology and rheo-optics. Of particular importance are his contributions to instrument development of

which the rheoDSC is his last achievement. The latter is capable of measuring rheological and thermal properties simultaneously, which is beneficial in the study of, for instance, crystallization and curing reactions.

He is the author of more than 100 scientific publications, including peer-reviewed journal papers and conference proceedings. He is the co-organizer of the Annual European Rheology Conference that will be held in Leuven in 2013, and has delivered invited lectures in academic and industrial settings. He is a member of the Polymer Processing Society (PPS), Society of Rheology (SoR) and is the current president of the Belgian Group of Rheology (BGR).

JLWhite Innovation Award winner for 2012 is Prof. Avraam Isayev of the University of Akron, Ohio, USA



Avraam I. Isayev is the JLWhite Innovation Award Winner of PPS for 2012. Prof. Isayev is a Distinguished Professor of Polymer Engineering at the University of Akron, USA. He has made significant fundamental contributions to polymer processing and their modeling including the injection, co-injection, transfer and compression molding of plastics and rubbers and gas-assisted injection molding of plastics, rheo-optics, rheology and constitutive equations of plastics and elastomers, oil products and disperse systems. He discovered and investigated extensively continuous processes for ultrasonic de-crosslinking of rubbers and thermosets, self-reinforced or in-situ composites based on polymer blends involving thermotropic LCPs, continuous processes for in-situ ultrasonic copolymerization of polymer blends with the aid of high power ultrasound and continuous processes for ultrasonic dispersion of various nanofillers in polymer melts.

Prof. Isayev with his research team have published 230 papers in referred journals, 30 chapters in books, 7 articles in encyclopedias, 151 papers in conference proceedings, and presented 275 papers at the national and international conferences, including plenary, keynote, invited and contributed lectures, and 114 seminars over the world. He holds 25 patents and many international patents. He taught a number of short courses in the USA and around the world. He has co-authored 1 monograph and edited or co-edited 7 books. He has graduated 40 PhD and 36 MS students, and advised 28 post-doctoral fellows and visiting scientists. He is the Editor-in-Chief of the *Advances in Polymer Technology* and served on 11 editorial and advisory boards of various journals. His work was featured in numerous newspapers and trade journals around the world. He is a partner and Chief Technology Officer in Avraam Corp., A Rubber Recycling Company, Akron, Ohio, USA.

Prof. Isayev is the recipient of a number of honors and awards, including the OMNOVA Solutions Signature University Award from the OMNOVA Solutions Foundation, the Melvin Mooney Distinguished Technology Award and Stafford Whitby Award for Distinguished Teaching and Research from the American Chemical Society (ACS) Rubber Division, the Silver Medal from the Institute of Materials (London), the Vinogradov Prize from the G.V. Vinogradov Society of Rheology (Moscow), and the NorTech Award. He is a Fellow of the Society of Plastics Engineers (FSPE).

Prior to joining the University in 1983, Prof. Isayev conducted research at Cornell University, Technion, Topchiev Institute of Petrochemical Synthesis of the USSR Academy of Sciences, and the State Research Institute of Nitrogenic Industry, USSR.

PPS mourns the passing of its 2nd President, Dr. Leszek Utracki



Leszek Utracki
1931-2012

Lechoslaw ("Leszek") Utracki, Past President of PPS (1987-1989), Scientific Leader at the National Research Council (NRC) of Canada, died on 16 July 2012, aged 81. Utracki was an eminent scientist with great leadership in Polymer Science and Engineering. He contributed to PPS as an Executive Committee member from its inception in 1985 until 1991, while he served as its 2nd president from 1987 through 1989.

Utracki was born on Aug. 1, 1931 in Bedzin, Poland. Leszek spent his childhood there until WWII Nazi occupation and persecution forced his family to flee to the village of Gwozdz, where they remained until the end of the war in 1945. The war's effects on him were life-long and extreme and may account for his inner drive and unusual strength and athletic prowess. Following his family's return to Bedzin, Leszek began his studies in Dabrowa Gornicza, where he earned his Master's degree and began doctorate studies in Gliwice. In 1955 Leszek continued his studies at the Lodz Polytechnic. In 1955 he met his wife Czeslawa at the Polish High Mountain Club. A year later he was recognized for his excellent mountaineering and leadership skills and was invited to join the very elite French climbing organization Groupe de Haute Montagnes. His exploits took him to the French Alps and the Caucasus Mountains. "Tau Gin Padyszaha," published in 1960, was the second of three books he authored about his climbing and mountaineering experiences.

The next chapter of his life took place in North America. After earning a Ph.D. in physical chemistry of polymers from the Polish Academy of Science, Dr. Utracki completed his post-doctoral work at the University of Southern California in Los Angeles with Dr. Robert Simha, and then at Case Western in Cleveland.

He settled in Canada in 1968 and a year later he was joined by his wife Czeslawa and twin daughters Dorothy and Marianna. He worked successively at Shawinigan Chemicals; McGill University; and at CIL, Inc. before joining National Research Council of Canada's Industrial Materials Institute (IMI) in 1980, where he worked until his death.

The spectrum of his research ranged from thermodynamics to rheology to shaping of multiphase polymeric systems such as alloys, blends, composites, nanocomposites and foams. Dr. Utracki authored over 500 papers in journals and in proceedings of conferences, 40 book chapters, was awarded 12 patents, and has written or edited 21 books on science. He was the chief editor of the second edition of the Handbook of Polymers and Plastics at the time of his death.

NRC states: "A pioneer of National Research Council's Industrial Material Division (IMI), Dr. Utracki had actively made an outstanding contribution to establishing the international credibility of the institute at a key moment in its development."

On top of his ongoing research work, Dr. Utracki also organized and conducted extensive seminars and teaching engagements in countless countries in Europe, Asia, North and South Americas. These contacts with the international scientific community often resulted in lasting friendships. He will be sorely missed by all those who knew him.

(adapted from the Montreal "Gazette", July 17, 2012)

Dr. Susumu Kase, melt spinning pioneer

With regret we inform the PPS members that Dr. **Susumu Kase** passed away in the beginning of March 2012, aged 82. He was one of the most important pioneers in the area of simulation technologies for melt spinning and film forming.

After graduation from Mechanical Engineering, Tokyo University, he entered the Toyobo Company. In 1976 he moved to Kyoto Institute of Technology. After several years as a Professor there, he joined RIKEN Research. In 1977 he received his PhD in Engineering from

Tokyo Institute of Technology. He received many awards including “The University of Akron Polymer Processing, Hall of Fame” in 1996.

In 1965~67, he and his co-authors published papers in which the dynamics of melt spinning was analyzed by deriving a set of simultaneous partial differential equations. Steady-state and transient solutions of the equations agreed well with experimental results. He and another co-author successfully carried out extensive investigations on the periodic instability phenomenon, called “draw-resonance”, which is essentially caused from the dynamics of melt spinning. These fundamental studies were effectively applied to industrial processes for improving the uniformity of fiber and film thickness, for controlling the fiber dye-ability, for development of quilt fiberfill having three-dimensional crimp, for the extension of smaller range of single filament and film thickness, and for elevating the productivities of fiber spinning and film casting. The first paper has been also extended to the dry-spinning process, to high take-up speed spinning, to multi-hole spinning system, etc., by several other investigators, showing the effect that the original work by Dr. Kase had in the field.

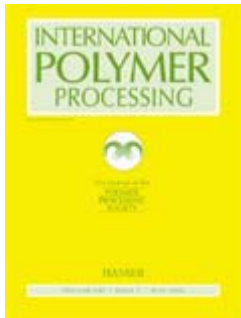
(adapted from a text sent by Dr. T. Matsuo)

PPS Secretariat Change

Effective January 1, 2012 the PPS Secretariat moved from American Institute of Physics (AIP) to ALLEN PRESS. The new service providers enable online membership fee payment. All PPS members in good standing have been informed individually about the change and the new enhanced services. Access to IPP will remain unaffected.

The Society’s website (www.tpps.org) is also maintained by ALLEN PRESS and has a professional look and easy access to all things related to PPS.

IPP Journal – All Previous Issues Now Available on Line



All issues of IPP from its inception in 1985 are now available on-line at <http://www.polymer-process.com>. To download papers from this site, use your PPS membership number. In response to PPS member requests, papers in IPP will now have a DOI number, as well as a Hanser document number, which allows quick access to a paper for the on-line journal website.

The Editor-in-Chief of IPP, Prof. Andrew N. Hrymak has graciously agreed to serve for another 4 years in his position. Thank you, Andy, for your excellent service to IPP and PPS.

Next Newsletter – April 2013

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 April 2013.