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ISPAC 2013 Final Call for Papers **New Orleans, Louisiana, June 10-12, 2013** **Short Course, June 9, 2013**

ISPAC 2013 is shaping up to be a dynamic, interdisciplinary, and state-of-the-art event in New Orleans.

We will accept abstracts in all fields on polymer analysis and characterization; The preliminary program and list of main ISPAC 2013 focus areas is given below. Topics will include fundamental studies and applications but all have a strong focus on polymer analysis and characterization.

Provisions will also be made at ISPAC 2013 for job seekers and potential employers to meet.

Abstracts should be submitted for contributed, oral lectures (15 minutes each) and poster presentations. We will assume that the primary author will be the presenter. **The final deadline for all abstract submissions is March 15, 2013.**

You are able to upload your abstract online [here](http://www.ispac-conferences.org/ISPAC-2013-abstract-submission.aspx) or go to <http://www.ispac-conferences.org/ISPAC-2013-abstract-submission.aspx>

Poster presentations and oral presentations in all areas of polymer analysis and characterization are invited. Oral presentations will be accepted on a competitive, refereed basis.

All abstracts will be included in the Conference Notes to be provided to participants.

Please note there is also a Short Course on Polymer Characterization and Analysis on Sunday June 9, 2013. Details are at <http://www.ispac-conferences.org/ISPAC-2013-short-course.aspx>

ONLINE REGISTRATION IS ACTIVE! Please complete the online registration form accessible at the following address:

<http://www.ispac-conferences.org/ISPAC-2013-registration.aspx>

There is also an online payment portal through PayPal for those wishing make payment online. Other payment methods are available and discussed at the registration link above.

The Early Registration Deadline is April 15th.

The conference venue will be the historic Hotel Monteleone in the French Quarter. The room block rate is \$165/night and is available 3 days pre and post the conference dates. More information on accommodations, link to the hotel block and hotel contact information can be found here: <http://www.ispac-conferences.org/ISPAC-2013-accommodation.aspx>

A list of activities for accompanying people will also be posted to the website soon.

Below is the Preliminary Program, subject to update and changes

Preliminary Program for ISPAC 2013. Subject to change and updates

Date	Time	Speaker	Affiliation	Title
Sunday June 9, 2013	ISPAC Short Course on Polymer Analysis and Characterization			
	8:00-8:30am	Registration		
	8:30-10:00am	Dr. John McConville	Polymer Standard Services	Basics of Gel Permeation Chromatography, including multi-detection
	10:00am-10:30am	Refreshment pause		
	10:30am-noon	Prof. Harald Pasch	U. Stellenbosch S. Africa	Advanced Liquid Chromatography, including 2D-LC and Hyphenated Methods (LC-NMR, LC-FTIR, LC-MS)
	noon-1:30pm	Lunch provided by ISPAC		
	1:30-2:00pm	Prof. Marguerite Rinaudo	ISPAC	Characterization of Biopolymers
	2:00-2:30pm	Refreshment pause		
	2:30-4:00pm	Prof. Paul Russo	Louisiana State University	Light and x-ray scattering for polymer analysis and characterization
	Scientific Program			
Monday June 10,2013	Morning Session Theme: Polymer Separations and Chromatography			
	8:00-8:30am	Registration		
	8:30-9:00am	Prof. Jana Falkenhagen	Federal Materials Research Institute, Berlin, Germany	Coupling techniques for copolymer characterization with focus on LC-MS
	9:00-9:30am	Prof. Taihyun Chang	Postech Uni., Pohang, Korea	TBA (Interactive GPC)
	9:30-10:00am	Dr. Patricia Cotts	DuPont Central R&D, Wilmington, Delaware	Characterization of Functionalized Nanoparticles for Nanocomposite Applications
	10:00-10:30	Discussion		
	10:30-11am	Refreshment pause		
	11:00am-12:30pm	Contributed Presentations		
	12:30-2:00pm	Lunch	<u>Poster Presentation set-up</u>	
	Afternoon Session Theme: Scattering and Spectroscopic Methods			
	2:00-2:30	Dr. Matthias Ballauff	Helmholtz Center for Materials and Energy, Berlin	Characterizing polymers by synchrotron X-ray

				radiation: Ideas, trends and opportunities
	2:30-3:00	Prof. Thomas Russell	U. Massachusetts, Amherst	Multi-length Scale Morphology for Low Band Gap Polymer Photovoltaics
	3:00-3:30	Prof. Murugappan Muthukumar	U. Massachusetts, Amherst	Characterization of polyelectrolytes in dilute solutions: Light scattering and electrophysiology
	3:30-4:00	Discussion		
	4:00-4:30	Refreshment pause		
	4:30-6:00	Contributed Presentations		
	6:00-7:00	Poster Exhibit and Refreshments		
Tuesday	Morning Session Theme: Characterization of therapeutic proteins and delivery systems			
June 11, 2013	8:30-9:00am	Prof. Chris Roberts	U. Delaware	Quantifying Protein Interactions from "Low" to "High" Concentrations Using Complementary Scattering Techniques
	9:00-9:30am	Dr. Dean Ripple	US Nat'l. Inst. Standards & Technology (NIST)	Ensuring Accurate Size and Counts of Protein Aggregates with Models and Reference Materials
	9:30-10:00am	Prof. Elizabeth Topp	Purdue University	High resolution characterization of proteins in amorphous solid powders
	10:00-10:30am	Discussion		
	10:30-11:00am	Refreshment pause		
	11:00am-12:30pm	Contributed Presentations		
	12:30-2:00pm	Lunch		
	Afternoon Session Theme: Current challenges in analysis and characterization for new polymers and natural products			
	2:00-2:30	Prof. Tim Lodge	U. Minnesota, Editor, Macromolecules	Advanced hydrogels: design and characterization
	2:30-3:00	Prof. Scott Grayson	Tulane University	Application of MALDI-TOF MS and IMS-MS for elucidating macromolecular architecture
	3:00-3:30	Prof. Thomas Davis	U. New S. Wales Sidney,	TBA

Australia

3:30-4:00 Discussion
4:00-4:30 Refreshment pause
4:30-6:00 Contributed Presentations

7:30-9:30 Conference banquet

Wednesday Session Theme: Modeling/computational approaches and comparison with experimental methods

June 12, 2013	8:30-9:00am	Sachin Shanbhag	Florida State U.	Inverting Models of Polymer Rheology for Analysis and Characterization
	9:00-9:30am	Prof. Tom McLeish	Durham U. , UK	The Structural Rheology of Long Chain Branched Polymers - Measuring and Modelling Macromolecules in Flow
	9:30-10:00am	TBA	TBA	TBA
	10:00-10:30am	Discussion		
	10:30-11:00am	Refreshment pause		
	11:00am- 12:30pm	Contributed Presentations		
	12:30-2:00pm	Lunch		
	2:00-3:30	Contributed Presentations		
	3:30-4:00	Refreshment pause		
	4:00-5:30	Contributed Presentations		

**End of ISPAC
2013**

Focus areas at ISPAC 2013

i) Latest developments in polymer separations and chromatography

Interactive chromatography
Multi-dimensional and hyphenated GPC
Field Flow Fractionation

ii) Scattering and spectroscopic methods for polymer analysis and characterization

X-ray scattering
Neutron scattering
Light scattering (including DLS, SLS and electrophoretic LS)
Electronmicroscopy and AFM
Various spectroscopies, including NMR, IR, Raman

iii) Modeling/computational approaches to polymer analysis and characterization and comparison with experimental methods

Predicting polymer macroscopic properties from molecular level characterization
Rheological and thermal analysis of polymers and associated modeling
Applications to Polyolefins
Online monitoring and process control of polymerization reactions

iv) Characterization of therapeutic proteins and delivery systems.

Characterization of therapeutic antibodies and protein higher order structure
Characterization of protein aggregates in drug product development
Characterization challenges for protein formulations from low to high concentration
Computational characterization of protein structure and interactions

v) Current challenges in analysis and characterization for new polymers and natural products

Stimuli responsive polymers
Natural products
Nanomedicine
Hybrid nanoparticles
Bioconjugates
Pharmaceutical drug delivery agents