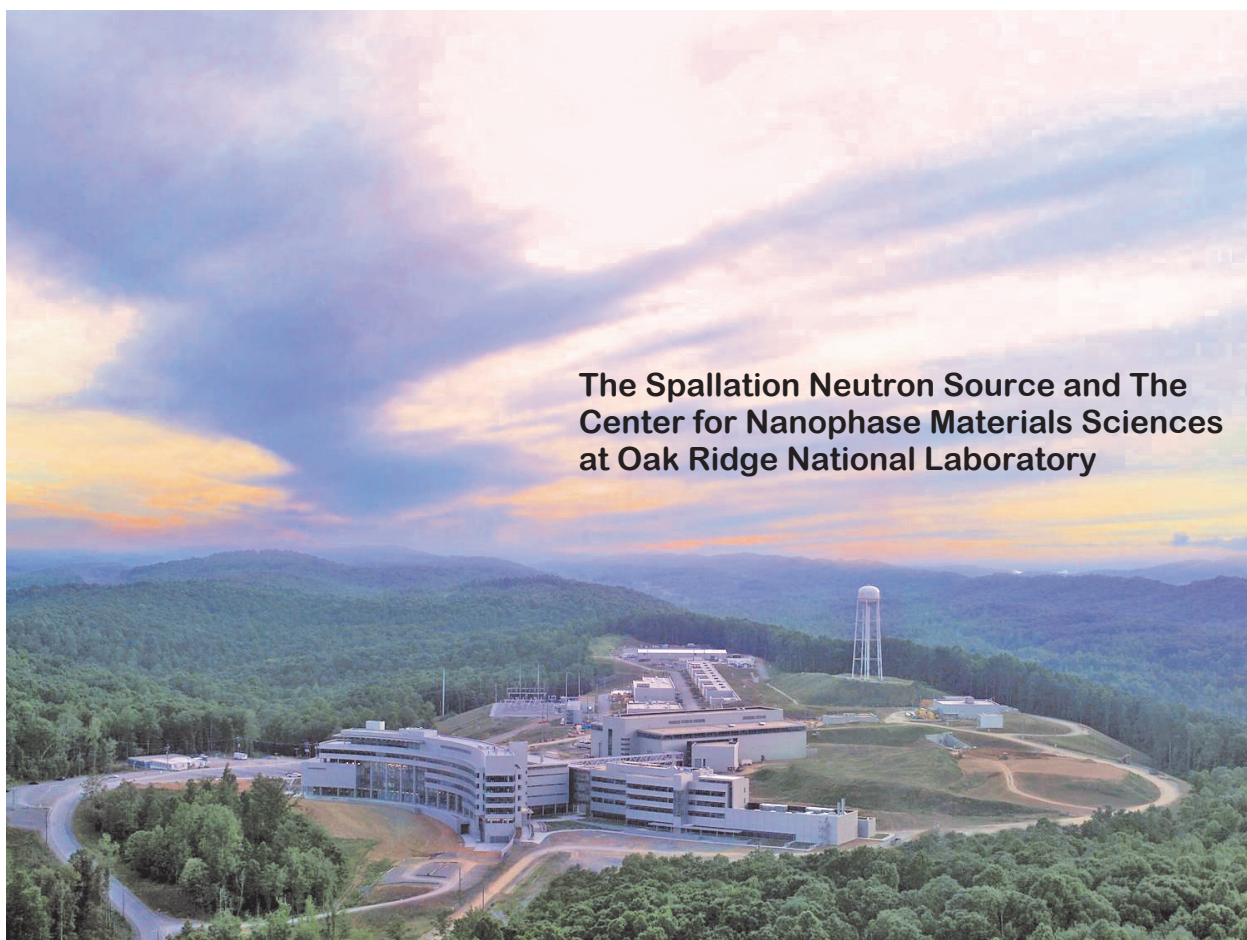


ISPAC-2006

# 19th International Symposium on Polymer Analysis and Characterization



The Spallation Neutron Source and The  
Center for Nanophase Materials Sciences  
at Oak Ridge National Laboratory

**June 12-14**  
**DoubleTree Hotel**  
**Oak Ridge, Tennessee**

Short Course:  
Techniques for Polymer Analysis and Characterization  
Sunday, June 11, 2006

Welcome, Kalos Orisate, Accueil, Empfang,  
Het welkom, Boas-vindas, Bienvenidos,  
[www.chem.cmu.edu/ispac/](http://www.chem.cmu.edu/ispac/)

# Scientific Program

ISPAC-2006

## Optional Short Course:

Sunday, June 11

### Techniques for Polymer Analysis and Characterization

**Guy Berry**, Carnegie Mellon University, USA  
Scattering from Polymer Solutions

**Mark Dadmun**, University of Tennessee, USA  
Neutron Scattering and Neutron Reflectivity

**Steve Balke**, University of Toronto, Canada  
Quantitative Multi-Detector SEC

**Josef Janca**, University of La Rochelle, France  
Field Flow Fractionation in Polymer and Particle Analysis and Characterization

## Session 1:

Monday, June 12

### Polymer Separations

**Wolf Hiller**, DKI – Darmstadt, Germany  
New Developments in LC-NMR of Polymers

**Harald Pasch**, DKI – Darmstadt, Germany  
Novel Chromatographic Techniques for Analysis of Complex Polyolefins

**Herve Cottet**, University of Montpellier, France  
Characterization of Synthetic Polymers and Polypeptides by Capillary Electrophoresis

## Session 2:

Monday, June 12

### Polymer Thin Films and Interfaces

**S. Michael Kilbey II**, Clemson University, USA  
Probing Molecular-Level Structure and Properties of Polymer-Modified Interfaces

**Rigoberto Advincula**, University of Houston, USA  
Investigating Polymer Thin Films using Surface Sensitive Analytical Methods

**Grant Smith**, University of Utah, USA  
Structure and Tribology of Polymer Brushes: Insight from Molecular Dynamics Simulations

# Scientific Program

ISPAC-2006

## Session 3:

Tuesday, June 13

### Neutron Scattering and Reflectometry

**David Lohse**, Exxon-Mobil, USA

Characterization of Polyolefin Miscibility and Its Relation to Chemical Architecture

**George Wignall**, Oak Ridge National Laboratory, USA

SANS Studies of Nanostructured Materials for the Self-Assembly of Block Copolymers and Surfactants in the Condensed State and Fluid Media

**David Bucknall**, Georgia Institute of Technology, USA

Polymer Surface and Interface Analysis using Real-Time Neutron Reflectivity

## Session 4:

Tuesday, June 13

### Bio- and Responsive Materials

**Darrin Pochan**, University of Delaware, USA

Nanostructure Self-Assembly with Charged Block Copolymers

**Ryan Toomey**, University of South Florida, USA

Smart Polymer Films with Built-in Logic for Reversible Binding

**Nikos Hadjichristidis**, University of Athens, Greece

Vesicle-Forming Block Copolypeptides

## Session 5:

Wednesday, June 14

### Multicomponent Polymer Systems

**Thomas Russell**, University of Massachusetts, USA

In Situ Real-Time Scattering on Block Copolymers: Self-Orienting, Self-Assembly

**Mark Dadmun**, University of Tennessee, USA

Improving and Controlling Interfaces in Multi-Component Polymer Systems

**Samuel Gido**, University of Massachusetts, USA

Morphological Characterization of Silicone Hydrogels for Contact Lens Applications

### ISPAC 2006 Organizing Committee

**Jimmy Mays**, University of Tennessee, USA (Chairman)

**Guy Berry**, Carnegie Mellon University, USA

# Registration Form

# ISPAC-2006

To register for ISPAC-2006, please complete this form and send it, together with your remittance, to Sheree Gold, at the address shown below. Indicate your requirements by ticking the appropriate boxes.

**The registration fee includes the final program and abstracts; breakfast, lunches, and coffee breaks; and the Sunday evening reception.**

Note that registration after May 11th, or on site will incur an additional charge of \$50. Cancellations will be accepted up to one week before the conference and refunds given, subject to an administrative charge of \$50. Substitutions may be made without financial penalty at any time.

## Costs

## Please Tick/Check Box as Required

Advance normal registration fee (before May 11th)	\$500	<input type="checkbox"/>	
Full-time student registration fee	\$250	<input type="checkbox"/>	
Optional Short Course (fee includes lecture notes, lunch and refreshment)	\$250	<input type="checkbox"/>	
Late registration supplement (after May 11th)	\$50	<input type="checkbox"/>	
Conference Banquet please indicate # of tickets	\$40 per	<input type="checkbox"/>	_____ Number of tickets to banquet
Optional tour of the Center for Nanophase Materials Sciences and Spallation Neutron Source at Oak Ridge National Lab. Gratis but visitor <b>must</b> provide full name, citizenship, date of birth and place of birth to Patricia Mays: trish@ion.chem.utk.edu by May 1st. Please indicate <b>ORNL Tour in Subject Line.</b>		<input type="checkbox"/>	

## Poster Abstracts

Poster abstracts should be submitted by May 11th (up to two pages) by email to J. Mays (jimmymays@utk.edu) \*Please indicate **ISPAC Abstract in Subject Line**. Posters should be prepared in landscape format not exceeding 120 cm x 80 cm.

I wish to submit a poster with the provisional title: \_\_\_\_\_

Surname \_\_\_\_\_ First name/initials \_\_\_\_\_ Title \_\_\_\_\_

Affiliation \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_ Email \_\_\_\_\_

## Payments

Checks, BACS, banker's drafts should be made payable to ISPAC. Payments or purchase orders should accompany this form and be sent to:

**Sheree Gold**

**ISPAC-2006**

**3830 Marsh Road**

**Boothwyn, PA 19061-4415**

**You will be sent an email confirmation when your payment is received.**

**Please circle the appropriate method of payment:**    Check    Credit Card    BACS and Banker's Drafts    Purchase Order

I authorize you to debit my account for the sum of \_\_\_\_\_

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[www.chem.cmu.edu/ispac/](http://www.chem.cmu.edu/ispac/)

## 19th International Symposium on Polymer Analysis and Characterization

# ISPAC-2006

### General Information:

The International Symposium on Polymer Analysis and Characterization-ISPAC-is a not-for profit scientific organization, the purpose of which is to provide an international forum for the presentation of recent advances in polymer analysis and characterization methodologies. ISPAC is a unique annual symposium that brings together analytical chemists and polymer scientists involved in the analysis and characterization of polymers. Visit the ISPAC web site at <http://www.chem.cmu.edu/ispac/>

### Accommodations:

A block of rooms has been reserved at the DoubleTree Hotel in Oak Ridge, TN for ISPAC attendees at the special rate of \$84.00 per night plus tax. When making reservations by phone, please call 1-800-222-TREE and indicate that you are attending the ISPAC meeting. If you are making your reservations on the hotel's web site, [www.doubletreeoakridge.com](http://www.doubletreeoakridge.com), the relevant "Special Rate Code" is **ISP**.

### Transportation:

Most major US Air carriers service the Knoxville McGhee Tyson Airport located 25 miles from the DoubleTree Hotel. Taxi service is available for \$45 one way.

### Location and Additional Information:

Oak Ridge is a progressive city situated in the valley between the Great Smoky Mountains and the Cumberland Mountains. Accompanying persons are welcome to accompany attendees to the opening reception, breakfast, and lunch at the conference site at no charge, however, they are expected to purchase a ticket to the conference banquet. Depending upon interest level, a trip to the Great Smoky Mountains for accompanying persons may be organized.

### Conference Sessions Posters and Short Course:

In addition to the invited lectures, there will be a poster session on Monday afternoon and an optional short course on Sunday. All attendees are invited to present a poster. The conference sessions and short course will be held in the DoubleTree Hotel.

### Conference Banquet:

The Conference Banquet will be held at The Confederate Memorial Hall-Bleak House, Tuesday, June 13, 2006 at 7:00 p.m. This memorial once served as Confederate General James Longstreet's Headquarters during the "Siege of Knoxville" in 1863. This grand Antebellum mansion is now the home of the United Daughters of the Confederacy. <http://www.knoxvillecmh.org/>



An optional tour of the Spallation Neutron Source (SNS) and Center for Nanophase Materials Sciences (CNMS) at ORNL will be provided for attendees on Tuesday, June 13th. The SNS ([www.sns.gov](http://www.sns.gov)) is a new accelerator based neutron source that provides the most intense pulsed neutron beams in the world for scientific research and industrial development. The CNMS ([www.cnms.ornl.gov](http://www.cnms.ornl.gov)) is a new collaborative nanoscience user research facility for the synthesis, characterization, theory/modeling/simulation and design of nanoscale materials. SNS and CNMS opened this year.