

P.A.D. REVIEW

Polymer Analysis Division Society of Plastics Engineers

Vol. 42 No. 2
January 2015

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Chairman's Message

Dear PAD Friends

Happy New Year. I hope you and your families enjoyed the holiday season and are looking forward to 2015.

No sooner do we start 2015 than we have to start getting ready, in short order, for ANTEC. Since this is one of those years when ANTEC is co-located with NPE in Orlando, the dates for ANTEC are moved up to March 23-25. By my count, we have 22 papers/presentations being delivered in 3 sessions: Monday p.m., Tuesday a.m., and Tuesday p.m. We have 3 great keynote speakers as well. We thank those scientists who have taken the time to prepare a paper and presentation. It takes a lot of effort to do that.

In addition to the presentations, there will be several other events at NPE/ANTEC. Please go to the SPE website, www.4spe.org, for more information.

Following the Tuesday p.m. session, we will have our annual PAD – ANTEC meeting. This will start at 5:30 p.m. in the room where we have our Tuesday afternoon talks. Feel free to come and share your ideas with other PAD members.

I hope to see you at ANTEC 2015 in Orlando and wish you the best in 2015. In the meantime, always feel free to communicate your thoughts and suggestions to me. We are open to great ideas.

Greg Kamykowski
Polymer Analysis Division Chair
2014-2015

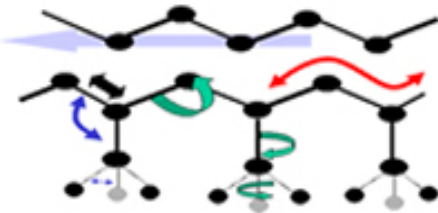
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The PAD webpage is: <http://www.4spe.org/technical-groups/divisions/polymer-analysis>

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From the Editor

*¼ cup peeled ginger, sliced thin
½ cup honey
1 tbsp unsalted butter
½ cinnamon stick
½ cup lemon juice
2 oz. rum*

*Heat 1 quart of water in a small saucepan, add gin-
ger, and simmer for 10 minutes. Then add honey and
whisk until dissolved; add cinnamon stick and lemon
juice and continue simmering for 10 minutes more.
Strain liquid and add butter. Pour 4 ounces into
rum .*

Note our webpage address has changed: please note
it is now at:

[http://www.4spe.org/technical-groups/divisions/
polymer-analysis](http://www.4spe.org/technical-groups/divisions/polymer-analysis)

We also have a group on Linked In called the Poly-
mer Analysis Division, SPE

KPM

ANTEC 2015 PAD Schedule
Orlando Florida
March 23-25, 2015

Session:	M	Monday PM
PAD Session Title:	Innovative Methods, Morphology and Optical analy-	

Session	Time	Time	Control ID	Title
M	Monday	1:30 PM	Keynote	Characterization of polymers penetrated in wood
M	Monday	2:00 PM	Keynote	Client Focused Polymer Analysis
M	Monday	2:30 PM	2096145	DEVELOPMENT OF SEALANTS FOR FLEXIBLE PACKAGING USING LIGHT MICROSCOPY
M	Monday	3:00 PM	2097361	THE TESTING PROGRAM AT NIST ON FIBERS USED IN SOFT BODY ARMOR APPLICATIONS
M	Monday	3:30 PM	2132561	Effect of Brightness, Color and Transparency on Scratch and Mar Visibility in Polymers
M	Monday	4:00 PM	2139275	SURFACE QUALITY OF PARTS MANUFACTURED USING SELECTIVE LASER SINTERING
M	Monday	4:30 PM	2091010	A NEW METHOD FOR THE CALCULATION OF THE SPHERULITE GROWTH IN SOLIDIFYING SEMI-CRYSTALLINE POLYMER MELTS
M	Monday	5:00 PM	2096989	SYNTHESIS AND CRYSTAL TRANSITION OF HBA/HNA COPOLYMER

Session:	T	Tuesday AM
PAD Session Title:	Rheology and Kinetic Analysis	

Session	Day	Time	Control ID	Title
T	Tuesday	9:00 AM	Keynote	The Quest for Perfect Polyolefin Molecular Structure Determination
T	Tuesday	9:30 AM	2094793	Evaluating the efficiency of nucleation agents in polypropylene by means of isothermal crystallization and kinetic modeling
T	Tuesday	10:00 AM	2078502	Analysis of the rheological behavior of EPDM rubber with blowing agent
T	Tuesday	10:30 AM	2118142	RELATIONSHIP BETWEEN MOISTURE ABSORPTION, CRYSTALLIZATION AND RHEOLOGICAL PROPERTY OF RECYCLED PET FILLED PELLETS WITH TALC AND GLASS BEAD
T	Tuesday	11:00 AM	2139186	METHODOLOGY FOR VISCOELASTIC SIMULATION OF POLYMER GEARS MADE FROM PEEK USING ANSYS®
T	Tuesday	11:30am	2139757	EPOXY SILICATE COMPOSITE DIELECTRIC CHARACTERIZATION BY TSDC TECHNIQUES

Session:	T	Tuesday PM
PAD Session Title:	Thermal and Aging analysis	

Session	Time	Time	Control ID	Title
T	Tuesday	1:30 PM	2094854	VISUALISATION OF DEGRADED PARTS BY APPLYING FT-IR IMAGING AND EDS ANALYSIS
T	Tuesday	2:00 PM	2065896	Evaluation of Shelf Life of Resin

T	Tuesday	2:30 PM	2081366	THERMAL HISTORY EFFECT OF PTFE
T	Tuesday	3:00 PM	2089786	AGING BEHAVIOR OF POLYAMIDE 12 DURING SELECTIVE LASER MELTING PROCESS – INFLUENCE ON MECHANICAL PROPERTIES
T	Tuesday	3:30 PM	2117530	Controlled Drug Delivery of a Hydrophilic Drug Model from a Fibrous Elastomeric Composite with Shape Memory Properties
T	Tuesday	4:00pm	2139507	Anisotropic Thermal Conduction in Polymeric Materials
T	Tuesday	4:30pm	2081498	A New DSC Thermopile Sensor for combined Heat Flux and Power Compensated Measurements

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Differential Scanning Calorimetry (DSC) to investigate glass transition and melting behavior



Dynamic Mechanical Analysis (DMA) to characterize stiffness and damping behavior



Dielectric Analysis (DEA) for cure monitoring of thermosets



Society of Plastics Engineers Membership Application

P.O. Box 403, Brookfield, CT 06804-0403 USA
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European Member Bureau
Eric Sasselaan 51, BE-2020 Antwerpen, BELGIUM
Tel: 32 (0)3 541 7755 Fax: 32 (0)3 541 8425 www.speurope.org

Applicant Information

Name:
first last mi

Company Name and Business Address (or College):
company/college:
job title:
address:
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Home Phone: _____

Preferred Mailing Address: Home Business

Gender: Male Female

Birth Date: (mm/dd/yyyy) _____

Demographics

Job Function (*choose only one*)

Consulting Purchasing
 Design Quality Control
 Education (Faculty) R & D
 Engineer Retired
 General Management Self-Employed
 Manufacturing Student
 Marketing/Sales Tech Support
 Other

Materials (*choose all that apply*)

Composites Polyolefins
 Film Polystyrene
 General Interest TPEs
 Nylon Thermoset
 PET Vinyls
 Foam/Thermoplastics No Interest

Process (*choose all that apply*)

Blow Molding Injection Molding
 Compression Mold Making
 Compounding Product Design
 Engineering Properties Rotational Molding
 Extrusion Thermoforming
 Fabrication General Interest
 Foam No Interest

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Additional Divisions are available for a fee. Check below to select Additional Divisions.			Primary Division FREE												
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By signing below I agree to be governed by the Constitution and Bylaws of the Society and to promote the objectives of the Society. I certify that the statements made in the application are correct and I authorize SPE and its affiliates to use my phone, fax, address and email to contact me.

signature _____ date _____

recommended by member (optional) _____ Id # _____

WWW

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F. Cao

BALANCE AS OF	7/31/2014 \$23,020.05
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SPE Rebate	\$484.69
SPE - Philadelphia Section	
TMS Conference	
Award	
Interest	\$2.23
ANTEC Keynote sponsors	
Newsletter Adds/Sponsorships	
Total Credits	\$486.92
EXPENSES	
RETEC	
TMS Conference	
Newsletter	
Teleconference Meetings	
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Total Debits	\$0.00
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