

Flexible Packaging Division Newsletter

Volume 17, Issue 1

April 1, 2017

Society of Plastics Engineers D-44

Flexible Packaging Division of SPE

The Flexible Packaging Division strives to provide, with clear focus and good repute, an industry-recognized forum that facilitates the timely exchange of technical knowledge and business information in the market-driven, fast-evolving, multi-disciplinary field that encompasses the arts and the sciences of production and processing of plastic materials, fabrication and conversion of films and sheets, and enclosure and protection of goods in end-uses.

THIS ISSUE

ANTEC Sessions	1
At Polyolefins	2
Division Scholar	2-3
Division Webpage	3
2017 FlexPackCon	4
New Members	5

Flexible Packaging at ANTEC 2017

The Flexible Packaging Division under the leadership of technical program chairman, Paul Zerfas (Mondelez), will present two full sessions at the Anaheim, CA site of the 2017 "Annual Technical Conference" (ANTEC) of the Society of Plastics Engineers. The Monday morning, May 8 session will present papers on barrier and sealing (moderated by Lora Liang -Mondelez). Papers on

Wednesday morning May 10 deal with defect detection, sustainability and emerging technologies ((moderated by Ken Forziati,-Parkinson Technologies).

Conference venue near the Anaheim, CA Convention Center, about 35 miles south east of Los

Wayne Airport (SNA), Registration for the conference is available at <https://www.eiseverywhere.com/ehome/184555/497609/> and reservations for the Anaheim Hilton are available at <https://www.eiseverywhere.com/ehome/184555/486163/>. The cutoff date for reservation for the conference

room rate is Monday, April 12. Your registration fee includes access to 75th Anniversary Gala on Sunday evening, May 7.



Angeles International Airport (LAX) and about 14 miles north of John

ANTEC 2017 Sessions - Flexible Packaging Division			
TIME	PRESENTATION	AUTHOR	AFFILIATION
Mon 5/8 Morning			
	<i>Session: Barrier and Sealing _ Moderator: Lora Liang, Mondelez International</i>		
8:00	KEYNOTE: Next Generation LDPE Resins for Extrusion Coating Applications	Michael Biscoglio	Dow
8:30	Effect of polymer design and formulation on the performance of water-based acrylic dispersions for heat seal lacquers	Jennifer Rigney	BASF
9:00	Heat Sealing in Semicrystalline Polymer Films	Ranadip Ganguly	Braskem
9:30	Multilayer Polyethylene Films Having Grease Resistant Properties	Bronwyn Gillon	Nova
10:00	High Gas Barrier Materials with Multilayer Morphology for Packaging Applications	Guojun Zhang	A. Schulman
10:30	Morphology of High Gas-barrier Layer-by-Layer Assemblies of Clay & Alternative Polyelectrolytes	Iman Soltani	U. of Minnesota
11:00	Oxygen Transport Through Thin PE-CVD Coatings on Polypropylene: Stacking & Temperature Dependency	Mr. Nafi Yesildag	Aachen U., (DE)
Wed 5/10 Morning			
	<i>Session: Defect Detection, Sustainability & Emerging technologies Moderator: Ken Forziati, Parkinson Technologies</i>		
8:00	KEYNOTE: Innovation in Emerging Areas in Packaging	Narayan Ramesh	Dow
8:30	KEYNOTE: ASTM D7310 Standard Guide for Defect Detection and Rating of Plastic Films Using Optical Sensors Revisions with 1st Interlab Study	Brenda Colegrove	Dow
9:00	A Journey Toward Packaging Sustainability	Donna Visioli	DuPont
9:30	Modeling the Monoaxial Stretching of Polypropylene Films by a Nonlinear Spring Dashpot Model	Frauke Reinders	Paderborn U., (DE)
10:00	Effect of Compounding Approaches: Fiber Dispersion & Performance of Poly(lactic acid)/Cellulose Nanocrystal Composite Blown Films	Laurent Mantuana	Michigan State U.
10:30	Computer Aided Output Improvement of a High-Capacity Blown Film Line	Benedikt Neubert	U. of Duisburg-Essen, (DE)
11:00	Compression molded protein-PVA nanocomposite films	Barbara L. DeButts	Virginia Tech

Flexible Packaging Division at 2017 Polyolefins Conference

Flexible Packaging Division members Donna Davis (Exxon-Mobil) and Judy Webb (Sasol) arranged for several FlexPack industry presentations at the 2017

SPE International Polyolefins Conference, "Convergence of Technology and Markets". The annual event is organized and sponsored by the SPE South Texas Section

(This year Houston from February 26-March 1)



These presentations eventually move to the "SPE Technical Library" where they are available at no cost to all full society members

FlexPack Presentations

1. Trends and Strategies for Consumer Flexible Packaging (Thilo Henkes, Managing Director, L.E.K. Consulting)
2. 7/9/11 layer blown film lines - Which are the most suitable applications? (Thomas Bezigian, PLC Technologies Consulting Co.)
3. AGILITY™ Performance LDPE in Blends Elevates Film Mechanicals/Extrusion Output to Next Level (Lori Kardos, Senior Research Scientist, Dow Chemical)
4. INNATE™ Precision Packaging Resins (Cristina Serrat, Fellow, Dow Chemical)
5. IPL Skinnypack Technology (Rodrick Levesque, Barrier Technologies Specialist, IPL Inc)
6. Overview and Advances in the Annular Nanolayer Blown Film Process (Patrick Thomas, PR Thomas Technologies, LLC)
7. Tutorial: Food Contact Regulation at the Speed of Innovation (Mitchell Cheeseman, Managing Director, Steptoe & Johnson)

Division Funds Scholarship for Future Industry Professionals

The new Division scholarship program recognizes qualified college students working towards a degree in a flexible packaging-related curriculum with a one-year \$2,500 award, presented annually. (The committee reserves the right to change the amount and frequency of scholarship awards entirely at its' own discretion.)

Review preferences include a 3rd or 4th year student with a cumulative grade point average

of 3.0 or higher (4-point scale) attending a 4-year undergraduate program of technology, engineering or science related to flexible packaging. (as examples, chemical engineering, mechanical engineering, plastics engineering, material science, food science, packaging science, plastics technology, and printing science.)

The division newsletter and other media will publicize winner(s). At the end of the year,

winners will provide a testimonial for the division newsletter or social media describing how the scholarship has benefited them.

The next page summarizes requirements for applicants and the Division's selection process

Flexible Packaging Division Scholarship

Requirements

- Documentation of flexible packaging experience, such as courses taken, jobs, internships or co-ops held, research projects or technical papers written.
- Letters of recommendation (Standard SPE Foundation guidelines: 2 from professors and 1 other from a non-family member).
- Application submitted in English.
- Student member of SPE (free upon registration)

Application Process

- The SPE Foundation announces the scholarship and solicits applications.
- The Flexible Packaging Scholarship Committee receives and reviews applications meeting the criteria and selects the winner.
- If the committee deems there are no qualified candidates from the applicant pool, no scholarship will be given that year. If more than one applicant is highly qualified, the committee may petition the Division Chair to grant multiple scholarships that year.



Fostering flexible packaging's future

The Division on the Web (Not rollstock, The World Wide Web)

At its March meeting, the division board agreed to begin work on its own website. The plan involves using the services provided by the SPE to help format and integrate the division's information within the larger 4SPE.org website.

The SPE system allows "single sign-on" credentials so that members logged into the division website are able to immediately access other member benefits on the society webpages. The standard page templates will display satisfactorily on any type of electronic device.

We expect that this approach will provide better "Search Engine Optimization" for division infor-

mation, and include an application for blogging on matters relevant to the divisions and its industry.

In short, the board intends that this this new presence on the Internet will give division members more information about and better access to resources provided by the division.

In the future the board will discuss the desirability of sponsorship on the webpages by division supporters, including perhaps coupling with sponsorship of division activities (for example, FlexPackCon conference sponsors).

By way of example, these SPE divisions/sections have already implement-

ed such programs:

<http://extrusion.4spe.org>

<http://pittsburgh.4spe.org>

Any division member interested in volunteering to help maintain the website on an ongoing basis should contact tdunn@flexpacknology.com



AIMCAL R2R Conference USA & SPE FlexPackCon 2017

Naples, Florida - October 15th - 18th



Call for Papers- Timeline:

Abstracts: May 27 Papers: July 1 Presentations : July 29

Conference Topics

*Sustainability, Recycling, Bio-based Materials, and Biodegradability
Nanotechnology/Nano and Micro-layering
Barrier Technology, Sealing & Closures, Advances in Tie Layers
Extrusion and Extrusion Coating, New Technology and Problem Solving
Converting, New Packaging Materials, Functional Packaging,
New Packaging Processes-Flexible Packaging Innovations, Consumer Benefits, Pouch
Technology, Smart Packaging, Shift from Rigid to Flexible
Anti-counterfeit, Traceability, Regulatory & Food Safety, Brand Owner Perspectives/Case Studies*



Naples Grand Beach Resort

FlexPackCon 2017

Building on a successful 2016 conference held in Peabody Hotel, Memphis TN, (nearly 400 attendees, over 100 presentations and more than 75 exhibitors) our Division of the Society of Plastics Engineers (SPE) and the Association of Industrial Metallizers, Coaters, and Laminators (AIMCAL) will again present a combined event in 2017.

Donna Davis (ExxonMobil), Program Chair, has issued the Conference's "Call for Papers"...begin the process at the official SPE site <https://www.eiseverywhere.com/ehome/230899>.

The 2017 program of parallel tracks will address extrusion, coating, lamination, metallization, converting, and the performance requirements driving design for flexible packaging. Presentations are anticipated to include recent de-

velopments in machinery, materials, and packaging designs targeted to an assortment of applications from food to electronics to transportation. Issues facing consumer product companies from food preservation to supply chain security are program considerations.

SPE FlexPackCon and AIMCAL R2R 2017 conference will be held at Naples Grande Beach Resort, October 15-18, 2017 in Naples, Florida (site of the 2015 FlexPackCon). Touted as "The Happiest and Healthiest City in America," Naples Florida has everything offered for meetings, fine dining, spa, beach getaway, golfing, and watersports, etc. The hotel is located 35 miles south of the Southwest Florida International Airport (RSW) of Fort Meyers.

As in 2016, The complete technical program has four parallel tracks addressing

materials, processing, extrusion, coating, lamination, metallization, machinery & converting, recycling & sustainability, and web handling. Combined conferences allow attendees to choose from over 100 presentations with a single registration.

SPE will soon provide a conference based app from both the *App Store* and *Google Play Store*.

Flexible Packaging Divisions Continues to Grow

The Division welcomes its 16 new members joining since the first of the year. These include:

- ⇒ 3 new *Student* members
- ⇒ 3 new *Young Professional* members
- ⇒ New members from 4 countries outside of the states

Name	Organization	City	Country
New Professional Members			
Gord Thomson	Ingenia Polymers	Brantford ON	Canada
Patrizia Tantucci	Tech IT Packaging s.p.a. - Italpolimeri	Osimo Scalo	ITALY
Judith Watkins	Additive Plastics Group, Inc	Belton SC	USA
Maria Ciliberti	Borealis	Vienna	AUSTRIA
Ronald Miller		North Canton OH	USA
Prakash Babu	Ford Motor Company	Ivanhoe Vic	AUSTRALIA
Bronwyn Gillon	NOVA Chemicals	Calgary AB	Canada
Phoebe Sederstrom	Uponor, Inc.	Apple Valley MN	USA
SATHEESH Kumar	COVERIS LTD	Brampton ON	Canada
Celine Bellehumeur	NOVA Chemicals Corporation	Calgary AB	Canada
New Student Members			
Himat Hayer	RIT	Merrick NY	USA
Emily Nottingham	Western Michigan Univ.	Kalamazoo MI	USA
Cole Rickerson	Texas A&M Univ.	Georgetown TX	USA
New Young Professional Members			
Wenbo Xu	The Dow Chemical Company	Midland MI	USA
Violette Bourg	Ecole Polytechnique de Montreal	Montreal QC	Canada
Chuan-Yar Lai	Dow Chemical Company	Houston TX	USA