



SPE FLEXIBLE PACKAGING DIVISION

The Flexible Packaging Division (D44) strives to provide, with clear focus and good repute, an industry-recognized forum that facilitates the timely exchange of technical knowledge and business

FlexPackCon 2016

FlexPackCon 2016 convened at the Peabody Hotel in Memphis, Tennessee on Sunday, October 9 and provided informative research on industry topics through Wednesday, the 12th. Under the leadership of Cary Yang (WestRock), as Technical Program Chair, the division presented information addressing: Materials and Processing, Coating and Barrier, Business & Regulatory issues, Bio and Advanced Converting, and Traceability & Packaging.

In concurrent sessions, The Web Coating & Handling Conference of AIMCAL (The Association of Industrial Metallizers, Coaters and Laminators) presented technical tracts on Web Coating, Vacuum Web Coating, Web handling and Emerging Technologies.

Page 2 provides a list of the Flexible Packaging Division's presenters and their topics.

Thanks! from FlexPackCon 2016 TPC

(by Carey Yang, WestRock)

My personal thanks to all who contributed to SPE FlexPackCon 2016. Special thanks to our speakers for sharing their discoveries and knowledge with our attendees...your examples of professional commitment and personal excellence make the Conference possible!

Overall we believe it was a very successful conference. Randy Jester (BASF) and Dan Falla (Nova Chemicals) stepped up and filled in for two of the three last-minute speaker cancellations. I would like to thank Rick Wagner of Chevron Phillips for sharing the ACC Trucost study and for being the anchor speaker for the conference.

This year, the Division Board added a new award to the best paper award for best application-/marketing-oriented presentation. Winners, selected by our program committee, are:

Best Technical Paper

First place: Guojun Zhang, (A. Schulman) – Innovative techniques to use EVOH

Second place (tie): Dan Falla, (Nova Chemicals) – Grease resistant film and Jennifer Rigney, (BASF) – Heat sealable lacquer coating

Best Marketing Paper:

First place: Koen Bastiaens (Nature Works) – Bio-based materials: film/heat seal/laminations

Second place (tie): Terry Tucker (ExxonMobil) – Developments for extreme film performance; Paul Waller (Plastics Touchpoint) – Causes/remedies 7 blown film instabilities; and Vince Zabrocki (Michelman) – High O₂ barrier coatings for food packaging

Both winners receive award certificates and free entry to next year's conference in Naples, FL.

Additionally, we welcomed presentations from two engineers representing the new generation in our industry - - Mike Doyle of BASF and Kent O'Neil of A. Schulman. We hope to see more of your work and presentations in the future!

The keynote speaker for the conference, Dr. S.V. Sreenivasan (UT Austin) described research and coming commercial applications using roll-to-roll nanofabrication processes to manufacture printed electronics and biomedical applications. Basic polymer-based processes used in the AIMCAL and flexible packaging industries (e.g. UV printing, photo-resist printing plates, drop-on-demand ink jet printing, etc.) are ready to produce nanoelectronic and electromechanical devices at costs like present levels, but with features ten times smaller.



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PROGRAM SUMMARY FlexPackCON 2016		
TITLE	AUTHOR	COMPANY
Materials & Processing moderator: Dan Falla		
Highly Efficient LDPE Resins for Extrusion Coating Applications	Michael Biscoglio	Dow Chemical
New Material Developments for Extreme Film Performance	Terry Tucker	ExxonMobil Chemical Company
New EVA Material Developments for Thermal Lamination and Flexible Packaging Applications	Robert Scott Weber	Celanese
Multilayer Polyethylene Films Having Grease Resistance Properties	Dan Falla,	Nova Chemicals
Selecting the Proper Polyamide for Multilayer Food Packaging Films: Process and Performance Considerations	Eric Noon	BASF
Causes and Remedies to 7 Bubble Instability Patterns in Blown Film Extrusion	Paul Waller,	Plastics Touchpoint Group
Coating & Barrier moderator: Tom Dunn		
The Changing Market - From Monolayer to Multilayer Coextrusion	Dan Falla	Nova Chemical
Heat Sealable Lacquer Coating	Jennifer Rigney	BASF
Unique High Oxygen Barrier Coatings for Food Packaging	Vince Zabrocki	Michelman
Innovative Techniques to Use EVOH Smartly and Effectively in Gas Barrier Packaging Applications	Goujun Zhang	A. Schulman
Predicting the Release and Diffusion of Nisin from a Polyvinyl Alcohol Matrix Coated Film	Duncan Darby	Clemson University
Business & Regulatory Issues moderator: Chris Kerscher		
Benchmarks for Value	Jeff Mengel	Plante Moran
M&A Activity in the Plastics, Paper and Packaging Industries	Rick Weil	Mesirow Financial
Ramifications of Supply Chain Changes	Jeff Cafmeyer	Battelle Memorial Institute
ANTEC Best Paper Predicting the Impact Puncture Response of Multilayer Flexible Food Packages Using Explicit Finite Element Models	Barry Morris	DuPont
Managing Global Food Packaging Compliance,	Mitchell Cheeseman & Richard Lenoir	Steptoe & Johnson & Discernis
Bio & Advanced Converting moderator Ken Forziati, (Parkinson Technology)		
Overview of World Bioplastics Technology and Markets: Future Drivers, Developments and Trends for Flexible Packaging	Terence Cooper	ARGO Group International
Bio-based Materials for Film, Heat Sealing, and Lamination	Koen Bastiaens	NatureWorks
Biopolymers for Paperboard Extrusion Coating and Converting	Chitai Carey Yang,	WestRock
How Automatic Optical Inline Systems Help You Save Money and Time - New Methods for Quality and Process Control in Plastic Film Production	Jochen Koenig	Schenk Vision
Euw What is that on my Phone?	Daniel Sullivan	EAG
Compostable Solutions for Packaging	Randy Jester	BASF
Traceability & Packaging moderator: Paul Zerfas (Mondelēz)		
Advanced Techniques for Integrating Brand-Authenticating DNA into Point-of-Sale Packaging Materials	Rory Wolf	ITW Pillar Technologies
Advances in Flexographic Printing Inks Technologies, a Re-solubility Study on BOPP Film	Michael Doyle	BASF
100% Ultrasonic Pouch Making & Spouting Bring a New Level of Innovation to Flexible Packaging Industry Versus Standard Thermal Technologies	Raul Matos	Karville
Easy Pour and Improved Evacuation: Enhancing Performance of Liquid Packaging	Kent O'Neil, A.	Schulman
Packaging Reducing Food Waste	Sydney Hansen,	Dow Chemical
Plastics and Sustainability: A Valuation of Environmental Benefits, Costs and Opportunities for Continuous Improvement	Rick Wagner	Chevron Phillips Chemical



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COMING EVENTS FLEXIBLE PACKAGING DIVISION 2017		
EVENT	DATES	VENUE
International Polyolefins Conference	February 26-March 1, 2017	Hilton Houston North Hotel, Houston, TX
ANTEC® Anaheim 2017	May 8-10	Hilton Anaheim, Anaheim, California
FlexPackCon 2017	October 15 - 18	Naples Grande Beach Resort, Naples, FL

Further details and registration instructions will be available at
<http://www.4spe.org/Events/index.aspx?navItemNumber=631>

Interested in submitting a paper?

COMING EVENTS FLEXIBLE PACKAGING DIVISION 2017		
EVENT	TECHNICAL PROGRAM CHAIR	EMAIL
International Polyolefins Conference	Judy Webb	judy.webb@us.sasol.com
ANTEC® Anaheim 2017	Paul Zerfas	pzerfas@mdiz.com
FlexPackCon 2017	To Be Determined	TBD

Division Board Active

The division's Board met during FlexPackCon and continued its discussion of allocating funds. The division is in sound financial condition with net positive income. During its July meeting, the group approved an endowment contribution for a new scholarship, created by the division and administered through the SPE Foundation Educational Program. A scholarship committee (Dave Constant-BASF, Duncan Darby-Clemson, Tom Dunn-Flexpacknology, Jim Huang-Coca-Cola and Rick Wagner-Chevron Phillips Chemical) will draft program criteria and procedures

with the intent of seeking, selecting, and awarding a scholarship winner before FlexPackCon 2017.

The ongoing FlexPackCon partnership with AIMCALs Web Coating & Handling Conference will continue through 2017. Donna Davis (Exxon Mobil) will continue as chair of FlexPackCon for the upcoming year. Anyone interested in helping with the technical program should contact Donna or any board member.

This page provides a calendar of Division conferences and networking events. In addition to FlexPackCon, we are organizing a special ses-



Division Board of Directors

(from lower left clockwise around the table): Russ Broome (SPE Staff); Donna Davis (Exxon Mobil); Ken Forziati (Parkinson Technology); Tom Dunn (Flexpacknology); Paul Zerfas (Mondelez); Chris Kirscher (A. Schulman); Dave Constant (BASF); Dan Falla (Nova); Barry Morris (DuPont); John Wagner (J. Plastic Film & Sheeting). *Missing:* Lora Liang (Mondelez); Wayne Moras (Reynolds Brands); Andy Christie (SAM North America); Judy Webb (Sasol North America); Carey Yang (WestRock)



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sion at the SPE International Polyolefins Conference in February on flexible Packaging. Judy Webb (Sasol) is leading this effort. We are also

actively working to recruit outstanding papers for the 2017 ANTEC in Anaheim, CA in May, which will observe the 75th anniversary of SPE.



ANTEC® 2017

The plastics technology conference
May 8-10, Anaheim, CA



Division Technical Program Chair:

Paul Zerfas (Mondelēz International, Inc., Global Packaging)

pzerfas@mdlz.com cell [608 576-9368](tel:6085769368)

FLEXIBLE PACKAGING DIVISION NEW MEMBERS

Professional: New Members			
Honglan	Lu	Formosa Plastics Corporation, U.S.A.	Director BTD
Rahul	Sarda	CharterNEX Films	Technical Development Engineer
Ipar	Uzun	Hayat Kimya	Senior Researcher
Zhongyang	Liu	Formosa Plastic Corp USA	Sr. Research Scientist
Alex	Xue	Tredegar Film Products	
Fernando	Lopez	Vinmar Int	Commercial Engineer, Styrenic and Engineering Polymers NA
Ranganathan	Soundararajan	Sealed Air	Principal Engineer
Gary	Neff	Confluence Packaging, LLC	Packaging Consultant
Michael	Abrams	Arkema Inc.	Principal Scientist
Young Professional: New Members			
Kristen	Richardson	PolyOne	Account Manager
Charlie	Menges	Menges Roller Company	
Student: New Members			
Jimmy	Shah	Impact Plastics	Process Engineer
Anna	Hense	Michigan State University	Student
Syeda	Hafsa	Georgia Institute of Technology	MSE Grad Student
Salim	Gopi	Queens University	PhD Candidate