

Automotive Plastics News

Today, Tomorrow - Together

April 2004 Volume 33, Issue 3



ANTEC 2004

Over 800 papers have been received, peer-reviewed and will be presented at ANTEC 2004! ANTEC (Annual Technical Conference), sponsored by Society of Plastics Engineers, is the leading technical forum for providing the most cutting-edge information available to the plastics industry!

The Automotive Division Sessions are scheduled for Tuesday May 18, 2004 morning for Materials (6 papers) and afternoon for Process Developments (8 papers) materials, a total of 14 technical papers will be presented on process developments, and automotive applications. The Automotive Division will give the Best Paper Award to one of the presenters of the Automotive Division session papers.

Norm Kakarala is chairing the Automotive Sessions with support from Thomas Pickett, Jay Rasoni, Suresh Shah, Paul Tres and Mike Shoemaker to review and select papers. The two Automotive Sessions will be scheduled for Tuesday May 18 in the morning and in the afternoon. See pages 6 & 7 for more on ANTEC technical sessions.

We are proud to note that the Automotive Division member Dr. Norm Kakarala will be inducted as SPE Fellow and members Kevin Pageau, Tom Powers and Dr. Suresh Shah will receive Honored

ANTEC



Plastics Innovation in the Windy City

Service Member award. The Division will receive Pride award.

The Automotive Division Business Meeting is scheduled on May 18, 2004 at 5:30 p.m. after the technical sessions.

For more information on ANTEC,
visit www.antec.ws

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Automotive Division Web Site Gets New Look

We're Growing with You To meet the needs of our growing membership, the SPE Automotive Division has teamed with Media Genesis to create a fresh look and add new features to our web site. Misplaced a newsletter? Check out the web site for a *.pdf version that you can share with friends and colleagues.

Events Calendar We've maintained the popular hot list of upcoming events and added a revolving calendar that highlights SPE AD events as they are scheduled. As well, Detroit Section and ANTEC information and links are provided to prevent schedule conflicts.

Start Planning Now for the 2004 Automotive Composites Conference and the Innovation Awards Program. Abstracts from last year's conference have been posted to the Resource Center link as well as guidelines for submitting abstracts and Innovation Award nominations for this year's events. Looking for ideas? See the list of previous winners.

Visit www.speautomotive.com

Automotive Division Meeting Schedule and Special Events Calendar

| | |
|---|--------------------------------------|
| May 16-20, 2004 Sheraton Hotel and Towers, Chicago | ANTEC - Annual Technical Conference |
| June 7, 2004 | Detroit Section Golf Outing |
| June 14, 2004 (Tentative) Location TBD | Automotive Division Planning Meeting |
| July 26th, 2004 Dunham Hills | Automotive Division Golf Outing |

Automotive Division Board of Directors meetings are open to all SPE members.
Call Michael Connolly at 248-322-7416 for more information.

Treasurer's Report

Stuart C. Cohen

The current assets of the Division are \$89,047. The net income for the November 2003 Awards Banquet is currently \$7,960. All expenses have been paid and a few payments for replica orders are still outstanding so our overall net revenue for this event should be close to \$9,000.

We have already received \$9,000 in sponsorships for the 2004 Composites Conference (ACCE) and our expenses to date (advertising, PR and MSU deposit) for this event are \$18,906.



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Chairman's Message

Michael Connolly



"No matter what accomplishments you achieve, somebody helped you"

Althea Gibson

"The man who makes no mistakes does not usually make anything"

Edward John Phelps

My tenure as SPE Automotive Division Chair concludes in May at ANTEC when I hand the reigns of the Division to Monica Prokopyshen from DaimlerChrysler. Hard to believe that it has been a year already. As is the norm during such transitions, I have sought review of my performance as Chair over the last year and the health of the Division. Leading the Division has been gratifying and been an immense learning experience, but it has also brought its disappointments. There are many talented, dedicated people involved in Automotive Division activities and all have ideas they would like to see implemented. Balancing those viewpoints and building consensus has sometimes been a challenge. Hopefully, I have been able to strike that balance for the best benefit for the Division.

Looking at my 'vision' for 2003-4, I suppose I would give myself a 'B' grade on fulfilling those goals. I had wanted to: broaden membership, improve intersociety cooperation, update the Division Website and bring in 'new blood' to Division leadership. On the last point, the Board of Directors welcomed new members Maria Ciliberti, Mark Lapain, Peggy Malnati and Brian Grosser in 2003 - none of whom have previously served with the AD. There are so many activities in the automotive materials community - Mark Lapain is now ably beginning to coordinate efforts with other professional organizations. Maintaining membership has been a challenge for all of SPE International. Bonnie Bennyhoff and Mike Shoemaker of the Detroit Section have begun a new program to garner support for SPE membership from OEM and Tier 1/2 supplier management.

Finally, what about www.speautomotive.com? For several years, the site has needed an update for better navigation and improved features. After a slow start under guidance from Peggy Malnati and myself, Monica Prokopyshen has worked closely with our supplier, Media Genesis, and will be ready to launch a new, completely redesigned site in the very near future. I am sure you will like how the site represents the Division. So, some of my initiatives have been implemented and others are now getting started - not a bad year.

The Automotive Division is strong and has a secure future as Monica begins her tenure as Chair for 2004-5, followed by Norm Kakarala in 2005-6. One substantive change for Division leadership is Councilor. Dave Arndt is stepping down after six years as Councilor. On behalf of the Division, I would like to thank Dave for playing a significant role in representing the Division to SPE International for such a long time. Long serving Board Member Nippani Rao will ably replace Dave as Councilor for 2004-7.

As I noted, the Division is strong. We have a palate of excellent technical, educational and networking programs - the Automotive Composites Conference, the Innovation Awards Program, Plastivan and the Golf Outing. These programs are financially successful and ensure the freedom to promote new activities for Membership, student scholarships or to expand conference programs. I am sure Fred Deans leading the Automotive Composites Conference, Suzanne Cole organizing the Innovation Awards Program and Jim Staargaard planning the Golf Outing will continue to keep SPE Automotive Division programs successful.

Again, I must express my gratitude to all the dedicated volunteers of the Division for their hard work and energy that make the Automotive Division so successful. Those accomplishments that occurred during my tenure would not have happened without them. It has been an honor to serve as Chair and I am grateful to have had the opportunity to lead the Division. I urge all members to get involved and stay involved. It's challenging to find the time and energy for such volunteerism, but only members know what is best for the Society, in general, and for the development of the Automotive Division.

"All know the way; few actually walk it"

Bodhidarma

CALL FOR PAPERS

4th-Annual
**SPE AUTOMOTIVE COMPOSITES
CONFERENCE**



SOCIETY OF PLASTICS ENGINEERS Automotive & Composites Division

**COMPOSITES:
ADVANCING VEHICLES WORLDWIDE**

Attendance

The Automotive and Composites Divisions of the Society of Plastics Engineers (SPE) International invite you to attend the 4th Annual SPE Automotive Composites Conference and Exposition, September 14-16, 2004. The conference will feature technical paper sessions, VIP panel discussions, keynote speakers, & exhibits highlighting advances in materials, processes, and applications for both thermoset and thermoplastic composites. Sessions currently planned include:

- New Composite Materials, Processes, & Applications
- Inter-Industry Technology Transfer
- Enabling Technologies for Composites
- Advancements in Reinforcement Technologies
- Finishing & Decorating Composites
- Bonding & Joining Composites
- Global Sourcing

Paper Submissions

Individuals or organizations interested in presenting at the conference should submit abstracts no later than April 30, papers for peer review by June 15, and final manuscripts by July 23 to allow time for CD production. Email abstracts to Michael Connolly, Huntsman Polyurethanes, michael_connolly@huntsman.com. Approved papers will be distributed on a CD to conference attendees.

Exhibition / Sponsorship

A variety of sponsorship packages, including advertising and publicity, tickets, and other promotional opportunities are available. Companies interested in exhibiting or sponsoring the event should contact Tim Simko of Polywheels at tsimko@polywheels.com.

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REGISTRATION FORM (Please Fax to 248-244-8925)

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| Company: _____ | <input type="checkbox"/> SPE Renewing Member - \$449 | <input type="checkbox"/> Student - \$100 | |
| Address: _____ | <input type="checkbox"/> Speaker | <input type="checkbox"/> Conference Organizer | |
| Phone: _____ Fax: _____ | Sponsorship Level: | | |
| E-mail: _____ | <input type="checkbox"/> Premier | <input type="checkbox"/> Coffee-Break | <input type="checkbox"/> Associate |
| Other Info: _____ | <input type="checkbox"/> Exhibit-Only | <input type="checkbox"/> Media | |

Exhibit Opportunities & Sponsorships Available

4th Annual
SPE AUTOMOTIVE COMPOSITES CONFERENCE
Corporate Sponsorship Opportunities

Why Sponsor?

- Sponsorship helps offset the cost of organizing the conference, allowing SPE to keep registration costs low and quality high.
- The sponsoring organization receives numerous benefits that help the company gain greater visibility for its products and services.
- A press kit, including sponsor-provided press releases and product announcements, will be distributed to media invited from leading plastics, composites, and automotive industry trade publications.

Who Should Sponsor?

Molders/component suppliers, resin companies, machinery and secondary equipment manufacturers, and filler/additive suppliers involved in the automotive composites market.

Sponsorship Options

Premier Sponsor: \$4,000

- Four complimentary passes for the conference (\$1,600 value) for employees or key customers.
- One-half-page advertisement in the Conference Proceedings book.
- Inclusion of company name (and, where appropriate, logo) in promotions, press releases, banners, and other communications leading up to and at the conference.
- Preferred location for tabletop display, if purchased separately (see below).

Associate Sponsor: \$2,000

- Two complimentary passes for the conference (\$800 value).
- One quarter-page advertisement in the Conference Proceedings book.
- Inclusion of company name (and, where appropriate, logo) in promotions, press releases, banners, and other communications leading up to and at the conference.

Tabletop Exhibitor: \$500 for Sponsors; \$1,500 for Non-Sponsors

- Exhibit space at MSU is limited, so tabletop exhibits will initially be reserved for Premier and Associate Sponsors at an additional cost of \$500.
- After July 15th, tabletop space, if available, will be open to non-sponsors at a cost of \$1,500.
- Includes one complimentary pass for the conference (\$400 value) for employees or key customers.

Proceedings Book Advertising Sponsor:

- Advertising space in the Conference Proceedings book is available at the following rates: full page = \$1,500; half-page = \$1,000; and quarter page = \$500.
- All ads are four color.

Event Sponsor (for special impact & unique company recognition):

- Lunch Sponsor (one / day) = \$4,000 (includes same benefits as Premier Sponsor)
- Cocktail Reception Sponsor (first night only) = \$4,000 (includes same benefits as Premier Sponsor)
- Refreshments/Coffee Breaks (one / day) = \$2,000 (includes same benefits as Associate Sponsor)

For conference sponsorship participation, please contact:

Tim Simko of Polywheels
at tsimko@polywheels.com

For additional information on the Automotive Composites Conference, visit the Automotive Division's website at www.speautomotive.com;

or contact Pat Levine at
+1.248.244.8993;

or send an e-mail to
spe@plastics.org;

or write SPE Automotive Division, 1800 Crooks Road, Suite A, Troy MI 48084, USA.

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New Technology Forums at ANTEC 2004

Monday, May 17

Session M17

8 a.m. - Held at Navy Pier

Radiation Processing of Polymers

Electron beam processing is increasingly being used to beneficially modify polymers in a number of fields, including modification of polymer resins to improve mechanical or processing properties; cross-linking of formed polymer components to upgrade properties; and radiation grafting to modify surface and bulk polymer properties.

Although UV curing chemistry is similar to EB curing, the applications are very different, and it applies only to thin coatings and materials.

Many new applications have emerged in recent years, including: cross-linking of hot water pipe, curing of advanced composites, cross-linking of hydrogels, Positive Thermal Coefficient (PTC) materials, reducing VOC permeation in automotive fuel system components, hardening of UHMWPE hip and knee joint surfaces, biomedical polymers, and many more.

Including this topic in the New Technology Forum will enable numerous experts in several of these fields to cross-fertilize the experience and benefits they have gained in their products with those of participants.

#1145

Radiation Processing of Polymers: The Current Status and Prospects for the Future

The current status and new advances in radiation processing of polymers.

Kerluke, David - IBA Advanced Materials

#1149

Novel Resins Through the Pre-Irradiation Modification of Polyethylenes

Pre-irradiation modification of Polyethylenes DuPlessis, Andre - Gammatron

#1330

Polymer Treatment Techniques with Energetic Electrons

Fluidized bed handling of polymer powders and granules Nablo, Sam - Electron Processing Systems, Inc

#1338

*Radiation Grafting for Surface Modification of Nano-Fibers
Polymer Grafting via radiation*

Palmese, Giuseppe - Drexel University Chemical Engineering

#1354

Electron-beam Cross-linking and Melting of UHMWPE for Hip and Knee Replacements

Crosslinking improves wear resistance of polyethylene. Muratoglu, Orhun - Massachusetts General Hospital, Orthopaedic Biomechanics and Biomaterials Laboratory

#1359

The E-Beam Curing of Epoxy Resins

Electron beam curing of epoxies in composites and adhesives.

Vorobyev, Leonid - Applied Poleramic Inc

Monday, May 17

Session M35

1 p.m. - Held at Navy Pier

Active Functional Plastic Materials

Materials that can "sense" or "react" to its environment have received much attention from the investment community, as well as the government through Homeland Security. This topic is to introduce polymeric materials that display useful responses to electrical, optical, magnetic, mechanical, chemical and biological stimuli. The topic will include, but not limited to, highly commercial applications (such as rechargeable batteries) and more specialty applications (such as biological/chemical sensors).

#185 (1:30 PM)

Polymeric Chemical Sensors

Sotzing, Gregory - University of Connecticut

#186 (2:10 PM)

Magnetorheological Materials

Ginder, John - Ford Motor Company

#190 (2:50 PM)

Ultrathin Li-ion Polymer Batteries

Ahn, S.H. - LG Chem

#188 (3:50 PM)

Electrostrictive Polymers and Ultra-high Dielectric Constant Polymers

Zhang, Q. M. - Pennsylvania State University

#187 (4:30 PM)

Polymeric Phase Change Materials for Thermal Management

Dean, Nancy - Honeywell Electronic Materials

#189 (5:10 PM)

Printing Organic Electronics

Gamota, Daniel - Motorola

Automotive Sessions at ANTEC 2004

Tuesday, May 18 - Session T10 Materials & Applications

#414 (8:00 AM)

A Review of Diffusion in Automotive Polymers
McCourt, Mark - Queen's University Belfast

#1121 (8:30 AM)

Added Value for Long-Fiber Reinforced
Thermoplastic Components by In-line-
compounding in the LFT-D-ILC Process
Troester, STefan - R & D Institute Fraunhofer
ICT

#1161 (9:00 AM)

Composite Material Transmission Cross Member Feasibility
Myers, Adam - Kettering University

#1392 (9:30 AM)

Novel Polymer Impacts The Balance of Properties in TPO Compounds
Walther, Brian - The Dow Chemical Company

#708 (10:00 AM)

Injection Molding Short Air Ducts Using TPV's
Collins, Daniel - Advanced Elastomer Systems

#949 (10:30 AM)

The Role of CAE in the Design of a Weatherseal System
Narhi, Ward - Advanced Elastomer Systems

Tuesday, May 18 - Session T24

Process Developments

#1061 (2:00 PM)

Materials And Design Trends in Exterior Automotive Plastic Applications
Pickett, Tom - General Motors

#427 (2:30 PM)

In-Line Compounding and Molding of Long-Fiber Reinforced Thermoplastics
(D-LFT) - Insight Into a Rapid Growing Rechnology
Garnier, Mael - Ecole Supérieure de Plasturgie

#533 (3:00 PM)

A New Mass Production Process for Lightweight Structural Parts and Their
Application-Field
Rüegg, Andreas - ESORO AG

#1028 (3:30 PM)

Devulcanization of Recycled Tire Rubber Using Supercritical Carbon Dioxide
Tzoganakis, Costas - University of Waterloo

#1473 (4:00 PM)

One Piece DLFT Automotive Running Boards
Weber, Charles - Composite Products, Inc.



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Membership Report

Bonnie Bennyhoff

Spring forward into another year of SPE membership! Now that a membership year is determined by the month a member joins, not all members' terms expire on June 30th. If you were eligible for an early bird renewal special, you should have been contacted by SPE National HQ to take advantage of a renewal discount last month. If not, don't fret. You can still feel special and say YES when we call and ask for your re-commitment. Remember, dues rates will increase effective July 1, 2004. So don't delay, renew today!

Blah, blah, blah..... My company won't pick up membership fees anymore, why should I pay to belong? Don't assume your company provides you with all the resources needed to stay on top of your game. If I can "borrow" from the SPE Detroit Section TRENDS & TOPICS newsletter, Michael

Shoemaker makes an excellent suggestion to check out www.4spe.org and experience the vast amount of information, contacts, and access to services and opportunities available from SPE. It has never been more important to be a member of your professional society than now, in the current climate of change and volatility in the plastics industry. The information you access and the personal networks you create can and will directly impact your future and your career. Join or renew your membership today. An application is on the next page, or join online at www.4spe.org.

Bonnie Bennyhoff, Membership Chair
bonnie.bennyhoff@santoprene.com
(248) 377-6204

Inter-Society Outreach

Mark Lapain

For the Automotive Division's Inter-Society Outreach, we are exploring ways to cooperatively work with numerous organizations that focus on the plastics or automotive industries. We have had discussions with SAE, SME, SAMPE, ACMA and other SPE sections/divisions. Additional meetings with other societies will hopefully bring new initiatives and promising opportunities for the Automotive Division in the new year.

Below are some of the upcoming events of interest to Automotive Plastics professionals:

SPE Detroit Section

Plant Tour - Ford Heritage Tour
May 17, 2004, Dearborn, MI

Golf Outing

June 14, 2004, Twin Lakes Golf Club

2004 Global TPO Conference

October, 2004, Dearborn, MI

SPE - International

ANTEC 2004

May 16-20, 2004, Navy Pier and Sheraton Chicago Hotel & Towers, Chicago, IL

Rotational Molding Conference

June 6-8, 2004, Holiday Inn Rockside, Independence, OH

Decorating & Assembly Technologies

June 8-9, 2004, Marriott Hotel & Conference Center, Ypsilanti, MI

SAMPE

SAMPE 2004 Symposium and Exhibition
May 16-20, 2004, Long Beach, CA

36th International SAMPE Technical Conference

November 15-18, 2004, Sheraton San Diego Hotel & Marina, San Diego, CA

SAE

Automotive Dynamics Stability & Controls Conference
May 4-6, 2004, Cobo Center, Detroit, MI

Government - Industry Meeting

May 10-12, 2004, Loews L'Enfant Plaza Hotel, Washington, DC

Digital Human Modeling for Design and Engineering

June 15-17, 2004, Oakland University, Rochester, Michigan, USA

Convergence 2004

October 18-20, 2004, Cobo Center, Detroit, MI

SME

High Speed Machining 2004 Technical Conference
April 28-29, 2004, Holiday Inn Chicago Mart Plaza, Chicago, IL

Rapid Prototyping & Manufacturing 2004 Conference

May 10-13, 2004, Hyatt Regency, Dearborn, MI

EASTEC 2004 Advanced Productivity Exposition

May 25-27, Eastern States Exposition Grounds, West Springfield, MA

2004 SME Annual Meeting

June 9-13, 2004, Hyatt Regency Cincinnati, Cincinnati, OH



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MEMBERSHIP APPLICATION

Applicant Information

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| Job Title: | | Job Function: (choose only one) <input type="checkbox"/> Consulting (11) <input type="checkbox"/> Design (02) <input type="checkbox"/> Education (08) <input type="checkbox"/> General Management <input type="checkbox"/> Library (10) <input type="checkbox"/> Manufacturing (04) <input type="checkbox"/> Marketing (07) <input type="checkbox"/> Purchasing (06) <input type="checkbox"/> Quality Control (05) <input type="checkbox"/> R & D (03) <input type="checkbox"/> Retired (98) <input type="checkbox"/> Student (09) <input type="checkbox"/> Tech Support (12) <input type="checkbox"/> Other (99) | |
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| Additional Divisions are available for a fee. Check below to select Additional Divisions. | | | Additional Division(s) _____ cost for each Additional Division | | | | | | | | | | | | |
| <input type="checkbox"/> Automotive (D31) Select the Automotive Division! <input type="checkbox"/> Blow Molding (D30) <input type="checkbox"/> Color & Appearance (D21) <input type="checkbox"/> Composites (D39) <input type="checkbox"/> Decorating & Assembly (D34) <input type="checkbox"/> Electrical & Electronic (D24) <input type="checkbox"/> Engineering Properties & Structure (D26) <input type="checkbox"/> Extrusion (D22) <input type="checkbox"/> Flexible Packaging (in formation) (D44) <input type="checkbox"/> Injection Molding (D23) <input type="checkbox"/> Marketing & Management (D37) <input type="checkbox"/> Medical Plastics (D36) | | | <input type="checkbox"/> Mold Making & Mold Design (D35) <input type="checkbox"/> Plastics Environmental (D40) <input type="checkbox"/> Polymer Analysis (D33) <input type="checkbox"/> Polymer Modifiers & Additives (D38) <input type="checkbox"/> Product Design & Development (D41) <input type="checkbox"/> Rotational Molding (D42) <input type="checkbox"/> Thermoforming (D25) <input type="checkbox"/> Thermoforming, European (D43) <input type="checkbox"/> Thermoplastic Materials & Foams (D29) <input type="checkbox"/> Thermoset (D28) <input type="checkbox"/> Vinyl Plastics (D27) | | | | | | | | | | | | |
| | | | <table border="1"> <tr> <td></td> <td>1 year</td> <td>2 years</td> </tr> <tr> <td>US</td> <td>\$6.00</td> <td>\$12.00</td> </tr> <tr> <td>Canada</td> <td>\$9.00</td> <td>\$18.00</td> </tr> <tr> <td>Euros</td> <td>€5.00</td> <td>€12.00</td> </tr> </table> | | 1 year | 2 years | US | \$6.00 | \$12.00 | Canada | \$9.00 | \$18.00 | Euros | €5.00 | €12.00 |
| | 1 year | 2 years | | | | | | | | | | | | | |
| US | \$6.00 | \$12.00 | | | | | | | | | | | | | |
| Canada | \$9.00 | \$18.00 | | | | | | | | | | | | | |
| Euros | €5.00 | €12.00 | | | | | | | | | | | | | |
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SPE debuted the **Plastics Technician's TOOLBOX® - Injection Molding** at ANTEC 2002. To date, this flagship resource has received rave reviews from industry and academia alike, and is now a popular teaching vehicle for several 2-year technical schools and apprenticeship programs across the U.S.

The TOOLBOX has seven drawers/books packaged in a slipcase – Drawers 1-3 address Fundamental Topics and Drawers 4-7 are Injection Molding Process Specific. This comprehensive resource is a professional growth tool that will serve the technician through an entire career – from novice to master level.

A dedicated team of SPE professionals championed the two-year development of the innovative TOOLBOX. Armed with on-the-job experience, lessons learned, technical expertise, academic degrees, and industry savvy, an array of 47 plastics professionals' authored more than 900 pages, 60 chapters, 570 graphics and 63 tables. Authors were selected based upon their discipline and reputation and represent a cross-section of material suppliers, processors, academicians, manufacturers and mold makers.

Fundamental Skills & Polymer Science (1)

Math 1 & 2, Charts & Graphs, Problem Solving Skills, Design of Experiments, Polymer Basics Plastics Testing, Quality, CIM.

Fundamentals of Machine Operations (2)

Safety, Heat Transfer, Print Reading, Electricity, Fluid Dynamics, Hydraulic Basics, Electro-mechanical Circuits, Hydraulic Circuits

Glossary (3)

Injection Molding Machinery (4)

Clamp End, Injection Unit, Controls, Auxiliary Equipment, Tiebarless Machines, Electric Machines.

Injection Molding Molds (5)

Part Design, Std Mold Definitions, Categories & Classifications, Mold Design, Mold Construction, Runners, Hot Runner Systems, Water Cooling, Venting, Ejection, Mold Plate Sequencing, Side Actions, Unscrewing Mechanism, Collapsible Cores, Mold Related Problems

Injection Molding Processing & Troubleshooting (6)

Plastic Flow, Molding: Machine Start Up/Shut Downs, Mold Maintenance, Optimizing the Molding Cycle, Tips for Supervisors and Techs, Polymer Drying, Glass Filled Materials, Heat Sensitive Materials, Acetals, Commodity & Engineering Materials, Computer Flow Simulations, Multi-Injection Molding, The MuCell® Process, Gas Assisted IM, Troubleshooting

Troubleshooting Pocket Guide (7) – in color

"The Toolbox helps engineers and technician's from different disciplines understand molding more in-depth and we purchased several for our employees. It is a great resource." Jeff Dinger, Mfg Engineer and Training Coordinator, Visteon Automotive Systems

http://www.4spe.org/bookstore/pestraining/book_0192.htm

The Plastics Technician's Toolbox®

The 7 Drawers of the Injection Molding Toolbox



Fundamentals

- 1. Fundamental Skills and Polymer Science**
 - Essentials of math and reasoning
 - Overview of polymers, testing and DOE
 - Monitoring for quality and CIM
- 2. Fundamentals of Machine Operations**
 - Safety
 - Elements of mechanics and circuits
 - What makes equipment work
- 3. Glossary**

Injection Molding

- 4. Machinery**
 - Clamp, injection units and control functions
 - Auxiliary equipment
 - New technologies and fundamental concepts
- 5. Molds**
 - All about design, molds and components
 - Hot and cold runner systems technology
 - Grasp the relationship of mold related problems
- 6. Processing and Troubleshooting**
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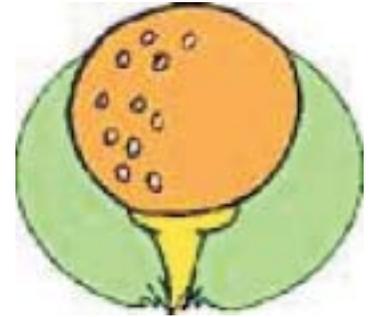
www.4spe.org Society of Plastics Engineers 

Automotive Division Golf Outing

Dunham Hills Golf Club

Hartland, MI (248) 887-9170
Monday, July 26, 2004

Registration/Lunch 11:30
Shot-gun Start 1:00
Cocktails/Prizes 6:00



Join us for a fun afternoon of lunch, golf, refreshments and networking. This outing is a great opportunity to meet people, entertain customers, or just get out. We are limited to 36 foursomes, so register early!

TO REGISTER FOR THIS EVENT:

Complete and fax this form to:

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Fax number (248) 244-8925

Mail Checks to:

SPE Automotive Division
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Troy, MI 48084

For additional information call Jim Staargaard at (248) 351-8445

Name: _____

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Company Address: _____

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Single Golfer(s) _____ @ \$95 each

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Entry fee includes lunch, greens fees, and cart. Entry is not confirmed until payment is received. Once payment is received, a confirmation fax will be sent to you verifying your order. Golfing Rain or Shine, no refunds. For further information, you may contact SPE by phone at (248) 244-8993 or by e-mail at spe@plastics.org

Councilor's Corner

R. David Arndt

The next SPE Council meeting is scheduled for May 15-16 in Chicago just before the start of Antec 2004. The Council is made of plastics industry volunteers forming a 6 officer Executive Committee including a paid Executive Director plus 9 Vice Presidents (3 elected, 6 appointed), 22 elected Division Councilors and 89 regional Section Councilors. The council meets 3 times each year and governs the 22,000 member Society. **“The mission of the Society shall be to provide and promote the knowledge and education of plastics and polymers worldwide.”**

The Automotive Division is one of the strongest Divisions of the Society with a strong Board of Directors, Committee Chairs, sound financial base, and active participation by our membership at conferences and the Annual Automotive Awards Night. We volunteered to give back the membership rebate to the Society of \$6000/yr. for the next two years so that the Society can reach a positive cash flow and do the things it wants to do to fulfill its mission.

The Flexible Packaging Special Interest Group, which formed after an Antec New Technology Forum in 1999 has petitioned and approved to become a Division in Formation. Ray Bush, International Vice President, told us there has been a 25% growth in Europe and there is a program to establish 4-5 new Divisions within the next year. Likewise, there is a 50% growth in Asia where we expect a new Section to be launched.

Nipanni Rao was voted Automotive Councilor for 2004-2006 and will assume that position in Chicago at the next Council meeting. He has been Chair of the Automotive Division and Detroit Section and should be well prepared to assume this leadership position for all SPE members involved with the Automotive industry.



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SPE Automotive Division Board of Directors Meeting

Minutes from February 9, 2004 BOD Meeting
Meeting held at APC in Troy
Attendees: 21

Chairperson Report - Michael Connolly

- Brian Hull resigned due to personal reasons
- Introduced Brian Grosser. Brian is interested in becoming active in the Automotive Division.
- Next BOD is April 5
- Provided handout with updated activities

Pride Report - Monica Prokopyshen

- Our goals need to be aligned with SPE National
- Our mandatory contribution was not submitted, however, due to Auto Division's extensive scholarship donations, we were given credit.
- The report is completed, submitted to SPE last week.

Councilor Report - Dave Arndt

- Reviewed the Leadership for Excellence goals
- Reviewed the 2004-2005 election of officers
- Due to current economic conditions, SPE National's staff will be reduced from 45 to 31 and the 2004 staff salaries will be reduced by 5%
- Reviewed current organizational chart
- 3 rebate proposals were discussed at last meeting; 1) Delay, 2) Reduce amount, 3) Provide to those who need rebate. The board passed a resolution which eliminated the 2004 & 2005 rebates unless a division or section demonstrates financial need.
- Dave suggested that the mailings of Plastic Engineering be reduced.
- Dave also proposed that rebates be consistent for all divisions & sections.
- Flexible Packaging has requested to become a division. Currently operating as a special interest group.
- Conference attendance is down this year. However, Detroit area conferences are doing well.

2004 Composite Conference - Fred Deans

- First committee meeting had a good turnout. Fred passed out the minutes.
- Applied for September 14 through 16 at MSU Management Education Center
- Mark Lapain and Peggy approached SME about a possible joint conference. SME declined.
- Conference forms have been submitted to National.
- Reviewed 2004 budget. Using 2003 budget as a guide for this year's event.
- Call for papers and abstracts will begin mid April. Paper submissions due mid June. Final papers due July 31.

2004 Innovation Awards Program

- Bonnie Bennyhoff is unable to be Chairperson.
- Suzanne Cole showed interested in the position, requested a volunteer to help as a co-chair.
- Stuart Cohen agreed to help
- The board agreed to accept both Suzanne and Stuart.
- The committee will try to get nomination forms out early, target June.
- The committee will try to promote the call for nominations in trade magazines & our website.
- Candidates for Executive Leadership Award were discussed.

2004 Division Elections - Michael Connolly

- Due to Brian Hull's resignation, we have an immediate opening
- Fred Deans nominated Brian Grosser as replacement. Maria Ciliberti seconded motion.
Board passed unanimously.
- Discussed election process to replace the terms that are expiring in 2004.
- Chair Elect typically handles responsibilities in this area.
- We need to decide our election strategy at next BOD. Numerous candidates were discussed.
- Vice Chair needs to be in place by April.

Publicity/Communications - Peggy Malnati

- The "cool car" artwork is established for Composite Conference
- Editors are beginning to contact Peggy for industry related information.

Web Site - Monica Prokopyshen

- Reviewed format with BOD. The BOD approved of layout, emphasized the need to get the web site up and running.
- Will meet w Media Genesis to get started
- Terry proposed we consider banner advertising. Board decided to prioritize web site first, then consider improvements later.

Intersociety - Peggy Malnati & Mark Lapain

- Continue to see interest at other societies, especially at the lower levels. However, as ideas are circulated to management, progress is slowed down.
- The SME BOD declined to participate in Composite Conference due to timing concerns.
Will consider next year.

Treasurer - Stuart Cohen

- Even without National rebate, our division is project to have a surplus.
- Current assets are \$81, 813.00.
- Still waiting for sponsorship payments from 3 companies for previous Innovation Awards Banquet.
The outstanding balance due is about \$19,500.00
- Stuart is projecting income of about \$3,500 for replica award sales.
- Total net surplus from Awards Banquet is projected at \$10,000.

Membership - Michael Connolly for Bonnie Bennyhoff

- 13 new members.
- Bonnie continues to work with Mike Shoemaker from Detroit Section to generate ideas to improve membership.
- A handout was passed out to BOD. Covered Early Bird renewal program, suspended members campaign, giveaways, and SPE signature gift sale.

Newsletter - Kevin Pageau

- The January newsletter was published on time.
- The next newsletter will publish in April
- Kevin's committee continuing to search for new sponsors
- Will promote golf outing and Composite Conference in June/July newsletter.

Other Business

- Kevin Pageau suggested a long term trust for future education programs. The BOD agreed to set up a committee to explore the legal issues. Josh Madden will obtain a preliminary opinion.
- Terry Cressy reviewed a scholarship request from UMASS Lowell. Dave Arndt motioned that we provide scholarship funding to SPE Foundation to analyze scholarships and make appropriate donations. The BOD agreed to Dave's motion.
- Michael Connolly advised that APC is looking for giveaways for a future event at Ferris State. Ed Garnham will review our inventory and talk with Karen Johnson.
- Michael also suggested that we should renew our shared service agreement with APC. The BOD agreed.
- The APC displays need updated. Stuart Cohen will lead the effort to replace with latest innovation winners.
- Fred Deans reviewed a scholarship request for Harold Giles Fund. Mark Lapain made a motion to donate \$1,000.00 from conference surplus funds towards the Giles Scholarship Fund. Tom Morse seconded motion. BOD approved 100%.
- Fred Deans advised that Fred Schwab is moving to Chicago. Asked the BOD to consider doing something special to recognize Fred & his wife for their dedication to the industry. Josh Madden will talk with Marianne to obtain suggestions.
- Josh Ulrich & Jack Cahn volunteered to chair the 2004 Golf Outing.

2004 SPE Automotive Division

34th Annual Innovation Awards Gala

"Fast and Furious"

This year's 2004 Innovation Awards Gala will build upon the past 33 years to create a brand new spectacular event. The black tie gala event will be held at Burton Manor in Livonia, Michigan in November 2004 (the exact date will be posted to the web site by May). In today's frantic auto industry, pressure is on the entire supply chain to innovate faster, design faster, launch faster and produce faster with furious attention paid to price and quality in a race to sell more vehicles worldwide.

Our theme for the 2004 Innovation Awards Gala is "Fast and Furious". The event will feature performance and customized vehicles displaying the latest technologies and materials as well as cutting edge commercial footage from automakers' latest vehicle introductions. With the overwhelming response we are receiving already, we expect this year to be a record setting event for nominations, product, sponsorship and attendance. Now is the time to think about your nominations and to begin the process - you can always submit your nominations early!

What's New?

New Judging Category

New this year is the Performance/Customization category, which is intended to enable solicitation of nominations for aftermarket components, which are extremely plastics intensive as well as cutting edge. We are receiving tremendous response to the Performance/Customization category so make sure you submit your nomination early this year. This new category is in addition to the current categories, which include: Body Interior, Body Exterior, Chassis/Hardware, Powertrain, Environmental, Process/Assembly/Enabling



The SPE Automotive Division "Most Innovative Use of Plastics" Grand Award Trophy

Technologies, Materials, and Hall of Fame. The deadline for nomination submissions is September 10, 2004. The part you are nominating must be in mass production and on a vehicle that is available for consumer purchase by November 1, 2004.

New Executive Award

New for 2004 will be the Executive Leadership Award, which will be awarded to an Executive who has exhibited outstanding leadership and is considered to be an "Automotive All-Star" within the global automotive industry. He/she will be evaluated based upon their overall leadership and performance. The judging criteria will include new products and designs (which utilize plastics), company financial strength, market share or market improvement, community involvement and the characteristics that make the executive stand out amongst his/her industry peers.

The Executive Leadership Award will be presented in addition to our Lifetime Achievement Award, which was instituted in 2001 with J.T. Battenberg, Chairman and CEO, Delphi, as our first executive award recipient. Bernard Robertson, Executive Vice President, DaimlerChrysler was our 2002 award recipient, and Robert Schad; CEO of Husky Injection Molding Systems was our 2003 award recipient.

New Web Site Look

The SPE Automotive Web site will be updated as of April 1, 2004. Members and non-members will be able to download nomination forms, submit nomination forms, check on deadlines and find out more about the 2004 Innovation Awards Gala simply by going to www.speautomotive.com.

Company Presentations

Suzanne Cole, 2004 Innovation Awards Chairman and other committee members will be making visits to GM, Ford, DaimlerChrysler, Dupont, Dow, GE and many other companies to outline the awards nomination process, solicit sponsorship and answer questions regarding the nominations and awards program. If you would like to have a presentation made to your company please contact Suzanne Cole, President, Cole and Associates, Inc at 810-750-3863.

Student Involvement

Student involvement will return this year. We are targeting the involvement of students from Ferris State, Michigan State, the University of Michigan, Eastern Michigan, Kettering, and others to become involved in the planning, staging and orchestration of the Innovation Awards Gala. If you know of a student who would like to become involved please contact Suzanne Cole at 810-750-3863.

Overall the "Fast and Furious" Innovation Awards Gala is an event you will want to bring your company executives and clients to. Our executive award recipients are icons in the auto industry...we will reveal their names in the next newsletter so stay tuned for new and exciting developments on the event!

For more information visit the SPE Automotive Division website at www.speautomotive.com.



The 2003 SPE Automotive Division Most Innovative Use of Plastics Grand Award presented to DaimlerChrysler for the innovative roof module on its 03MY smart™ Roadster. Below, accepting the Grand Award from Norm Karala are (L to R) Peter Doerries, UV, Tom Edson, J. Scheffer, and Greg Adams.



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