



NEWSLETTER - MILWAUKEE SECTION OF THE SOCIETY OF PLASTICS ENGINEERS

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FOUR MONTH CALENDAR

May 17th, 2007
 Guest Night: Eisner Museum of Advertising and Design

June 8th, 2007
 Chicago SPE Golf Outing

July 9th, 2007
 MKE SPE Summer Classic 2007

Next Milwaukee SPE Event

Guest Night: Eisner Museum of Advertising and Design

When: May 17th, 2007 (THURSDAY)

Where: 208 N. Water Street, Milwaukee, WI 53005

Cost: Cost: \$15 per couple (One Hour Museum Tour)

Time: 6:16pm // **Parking:** Street Parking / Parking Structure off of Chicago Street. **Food and Drink:** Afterward, join us for more fun across the street at the Ale House (Food and drink are not provided).

Register Online: www.milwaukeeespe.org

More Information on Page 6...

TECHNICAL MEETING PRICES

Reservations

SPE Member: \$30
 Non-member: \$32
 Student: \$20

W/O Reservations

SPE Member: \$35
 Non-member: \$37
 Student: \$20

Reservations must be made 5 days prior to the event. Cancellation of a reservation must also

be done 5 days prior to the event (this helps with food planning). Failure to cancel will result in an invoice being sent.

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President's Column



By: Pete Kambouris / Wisconsin Engraving

May 2007

Welcome to another month and another Presidents column.

The year is winding down and summer is upon us. We have a few events left on the SPE calendar, our May guest night, the Summer Classic and the Christmas party. We appreciate everyone's continued support of the section.

SPE aside, it's been an ok year so far for most of the people I talk to. I travel a lot and speak with many customers all over the country and I am hearing the same basic thing, business has slowed down lately. For some it's been rougher than for others, but essentially it's been the same roller coaster ride for all involved. Last month I brought up personal issues and Lou Dobbs. I am pleased to note that I did receive letters thanking me for bringing my personal life and an issue that troubles all of us in the public eye. But what can we really do to change the route our industry is taking? Bore dinner guests to death about how the industry has been ravaged by corporate greed and lack of government acknowledgement? That makes for a fun night.

Well, we can educate those around us all we want, but where will that get us? We can tell our friends and family to buy MADE IN USA, but isn't there a town in Guam named USA?

So, what can we do? How do we make our industry stronger and protect what we have? Who has the answer and why haven't they stepped up to tell us? Of course, everyone has an answer. Which one is right? No one knows. Some say getting better training for our employees is the key to salvation. Some say getting rid of the employees and adding more equipment is the key to help drive down costs and make it more lucrative to keep production in the US. But then again unemployed people don't usually splurge on unnecessary products at Wal-Mart. I don't have an answer. My company is so unique that there are no skill certification classes at a technical school. Some of our services only require human involvement, no equipment at all.

Has anyone asked our government if they have an answer? They have an answer for almost every useless issue under the sun, but the important issue is never brought up. Last time I checked unemployed people don't pay tax on an income they don't have. Do unemployed people go out to eat? Do they go to the drycleaners? Movies? Hardware store? Doctor? Lawyers? Gas station? Grocery store? The answer is no, or at rarely least. They won't even go to the Big Box



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President

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stores, no matter how cheap their crap is. Maybe we should all get together and have a round table discussion. Molders, processors, toolmakers and everyone else affected by the government's decision to ignore us and come up with a way to get their attention. Every month I ask for feedback from our membership. Last month was the first time I received any and that was only to congratulate me. What do you guys say; maybe this month we can get some feedback on how you as individuals and the companies you work for are getting your messages across?

Again, please check back to the website for the sign up sheet and all the information.

Also, if there any questions or comments, please feel free to email me at pkambouris@wi-engraving.com

I hope to see everyone at our upcoming events!
Sincerely,

Pete Kambouris / President
pkambouris@wi-engraving.com

Welcome New Members!!!

Milwaukee SPE

We will do everything to make your membership rewarding. Education is our key goal for all members and students. We also have fun in our activities. Our web site is one has been recognized as one of the best in the US. Please visit and tell us what you think!!!! <http://www.milwaukeeespe.org>

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2006/2007 Meeting Schedule

Milwaukee SPE

DATE	LOCATION	TOPIC/SPEAKER
Sep 19th, 2006	MPC Plant (Walworth, WI)	Miniature Precision Components Plant Tour
Oct 17th, 2006	Brookfield Suites Hotel & Convention Center	GE Plastics - Medical Industry Presentation
Nov 14th, 2006	Brookfield Suites Hotel & Convention Center	Bob Dealey
Dec 1st, 2006	The Four Points Sheraton (By Milwaukee Airport)	Christmas Party
Jan 16th, 2007	Brookfield Suites Hotel & Convention Center	International Mold Steel, Porcerax Presentation
Feb 20th, 2007	Brookfield Suites Hotel & Convention Center	Gain Technologies
Mar 20th, 2007	Brookfield Suites Hotel & Convention Center	Info Tech: LSR Multi-Component Molding
Apr 17th, 2007	Brookfield Suites Hotel & Convention Center	Stork-Failure Analysis
May 17th, 2007	208 N. Water Street	Eisner Museum of Advertising and Design Tour
July 9th, 2007	Mequon Country Club	MKE SPE Summer Classic 2007

To Register...

Send an E-Mail to
MilwaukeeSPE@gmail.com

Please Include:

1. Event you are signing up for
2. Number of attendees
3. Your name
4. Company
5. Address
6. City, State, Zip
7. Telephone #
8. Membership Information
(Member or Non-Member)

MEETING LOCATION

Brookfield Suites Hotel & Convention Center
1200 S. Moorland Road
Brookfield, WI 53005
(262) 782-2900

Daniel Konrath

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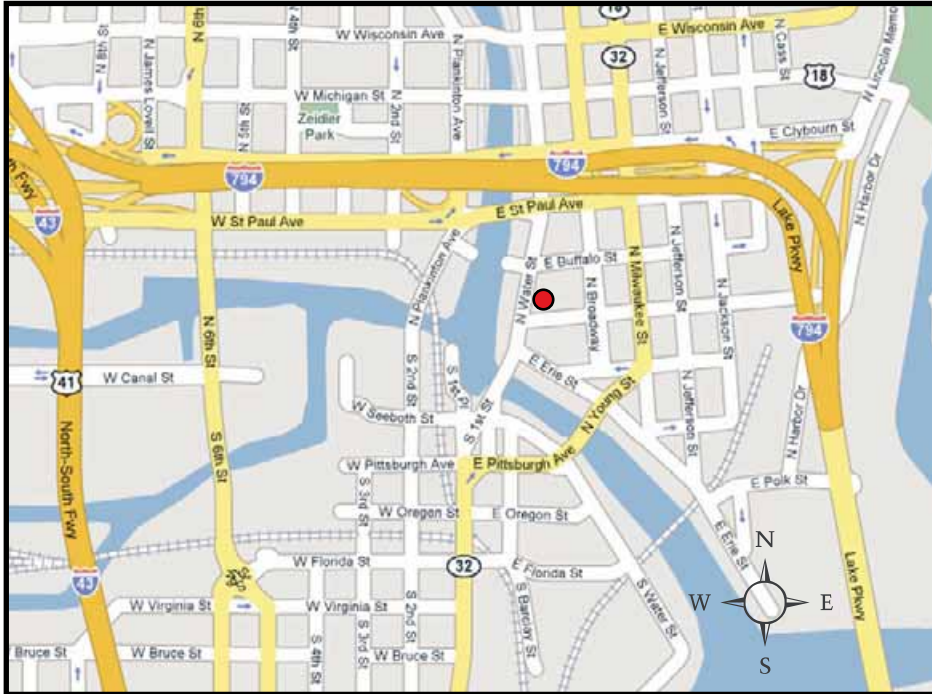


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E-mail: dan@moldsupplies.biz Phone: (262) 255-4140
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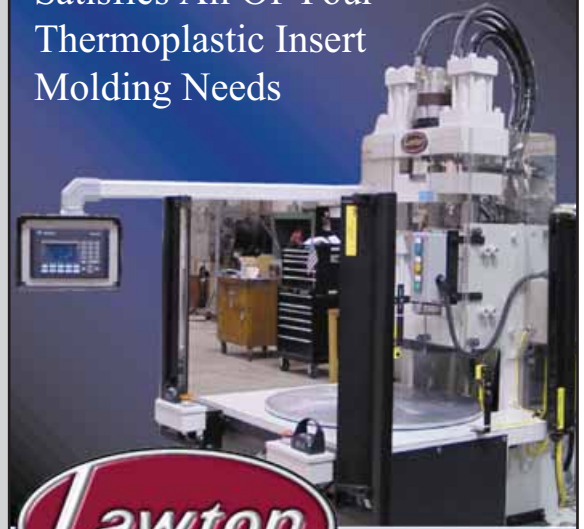
Event Directions

Eisner Museum of Advertising and Design - May 17, 2007



Eisner Museum of Advertising and Design
 208 N. Water Street
 Milwaukee, WI 53005
 (414) 847-3290

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Guest Night - Eisner Museum

May 17th, Eisner Museum of Advertising and Design



The William F. Eisner Museum of Advertising & Design, or The Eisner, is a one of a kind advertising museum located in Historic Third Ward in Milwaukee, Wisconsin.

The museum is housed in an historic renaissance revival style building that was designed by architects Crane & Barkhausen and built in 1895. It opened in 2000 and is dedicated to William F. Eisner, a prolific 20th century designer and advertising entrepreneur. William's wife Elaine approached the Milwaukee Institute of Art & Design (MIAD) with the concept after his death in 1990.

Exhibits examine the impact modern advertising and design has on the social, historical and aesthetic aspects of American culture. Past exhibits include the legendary Burma-Shave roadway billboards, industrial design pioneer Brooks Stevens, and 100 years of Harley-Davidson advertising.

A number of exhibits are also available via the World Wide Web. These explore some of the more memorable forms of advertising and design, such as the illustration work of Boris Artzybasheff and The Art of the Album Cover.



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UW - Madison Student SPE Chapter Meetings

Held every Friday at 310 Mechanical Engineering Bldg. at 11 AM. // 1513 University Ave. // Madison, WI. 53706 // Talk to Tim Osswald at 608-265-9538 or Tom Turg at 608-262-0586 // email at turg@engr.wisc.edu // Guests are always welcome. The talks involve a student presenting to 10 to 20 other plastic students. Best to call first.

Date	Topics
5/25/2007	High Volume Fabrication of Biodegradable Tissue Engineering Scaffolds // Semi-Solid Casting of Metal Matrix Nanocomposites
6/1/2007	Cost Reduction for PVC Pedestal Extrusion Carbon Nanotube Alignment in Injection Molding
6/8/2007	Mechanical and Thermal Properties of Soy Protein Based Plastics Raman Spectroscopy
6/15/2007	The ZETOS Bone Loading System: Calibration and Validation // Simulation of Blood Flow and Deformations of Mechanical Heart Valves Using Boundary Integral Techniques
6/22/2007	Fiber Simulation // Radial Basis Function Collocation Method (RBFCM)
6/29/2007	Non-Pneumatic Tire
7/6/2007	Mechanical Properties of Solid and Foamed Polypropylene Using Nucleating Agents // Foaming Characteristics of Polypropylene Including Clarifying Agents with the MuCell Process
7/13/2007	Thermoforming Solutions and Simulation Friction and the Timoshenko/Von Karman Device

Become a Sponsor

Milwaukee SPE Newsletter and Website

Newsletter Ad Sizes:

Standard 3.75" X 2" = \$350 (Includes a link to your company's website on milwaukeeespe.org)

Other Sizes

Composed as even multiples of standard ad sizes priced as such
- Example: A double business card ad costs 2x\$350 or \$700.

Ad Format:

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We accept the following file types.

.eps .pdf (Acrobat) .ai (Illustrator) .doc (Microsoft Word)
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Publishing Year:

September through June (10 issues)

- Ads for partial publishing year are on a prorated basis.

Advertising Contact

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Deadline for submission of new ads or changes to existing ads is the first Thursday of each month.

All changes will be subject to a \$15 change / set-up fee.

Newsletter Chairman

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Doug Spencer
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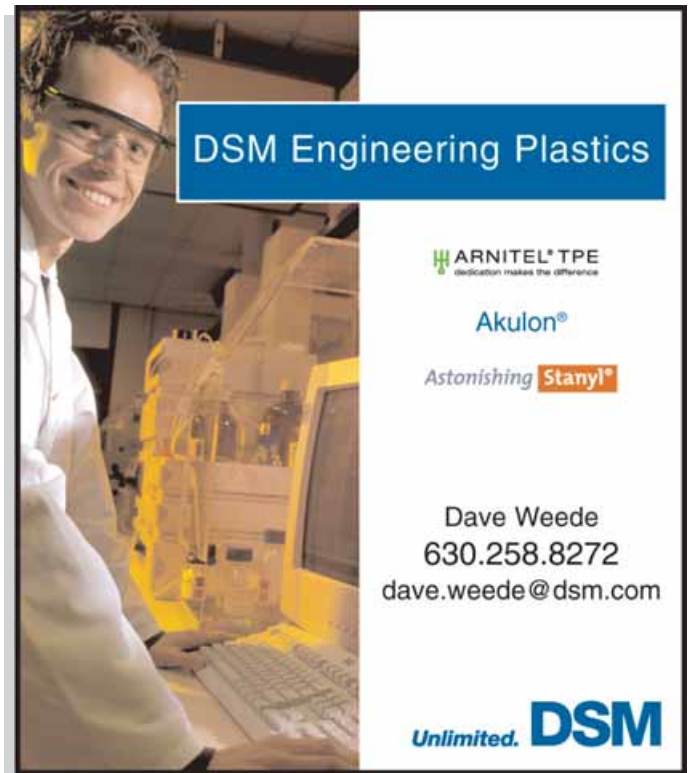
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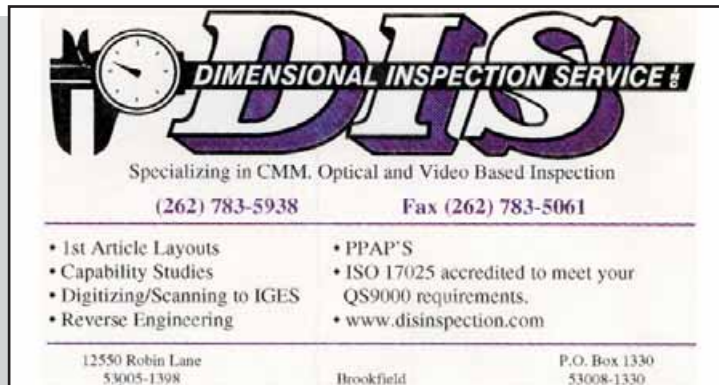
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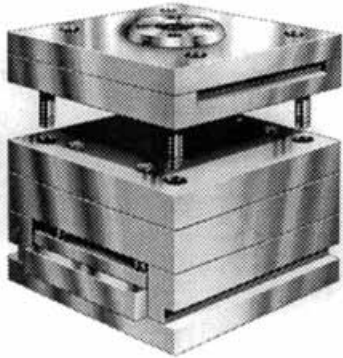
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Milwaukee SPE Summer Classic 2007

JULY 9th, 2007
MEQUON COUNTRY CLUB
MEQUON, WI

GOLF

FISHING

Our annual Milwaukee SPE Summer Classic 2007 outing is right around the corner. To continue to have the highest quality event, we need your participation in several key areas to help make things go smoothly.

Deadline: June 9th, 2007 is the deadline for reservations to golf or fish. Registration by this date gives the Committee the time it needs to make the necessary arrangements for a smooth registration on **July 9th, 2007** at the Club.

GOLF: We will have a shotgun start, and will be playing with the well received scramble format. This means that all 27 holes will be available for play. The scramble format is: all players hit the tee shot, select the best position, and all hit from the selected spot. This process is repeated until the ball is in the hole. The other stipulation is that at least one tee shot from each player must be used sometime in the round. All golfers must have plastic cleats.

8:30 AM: Check in at the registration table located behind the Pro Shop. You will be notified of your starting hole. Starting hole assignments will be under the COMPANY (and/or) your name that made the reservations. Blind Bogey sign-up will also be taken at the reservation table.

9:45 AM: Let's Golf - Shotgun Start!!

(The maximum number of golfers the course can handle is 216. Any golfer overflows could play tennis, fish on Lake Michigan or golf at Mee-Kwon Golf Course. If you wish to golf there, contact them at (262) 242-1310 for reservations. Ozaukee County residents should call 1 week in advance; nonresidents can call 3 days in advance.)

FISHING: For fishing on Lake Michigan, contact Captain Bob Held or co-Captain Pete Kambouris at (262) 786-4521, fax to (262) 786-8110, or E-mail: info@wi-engraving.com (Attn: Bob Held). **Each individual company or companies need to book their own charter.** If you need assistance in getting the names of charters to contact, contact Bob or Pete at Wisconsin Engraving.

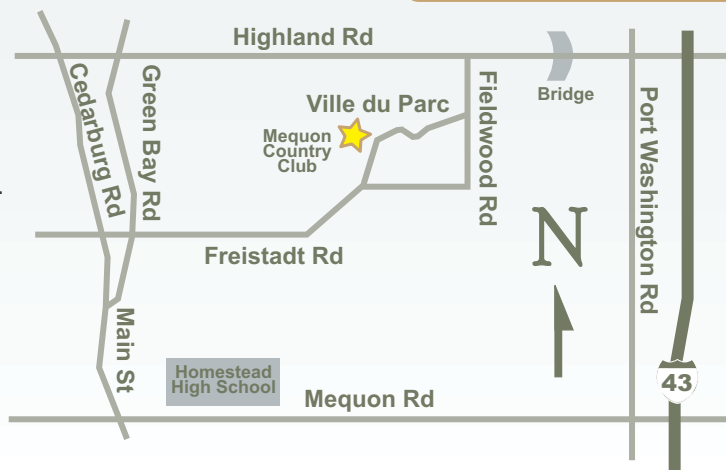
ALL OUTING ATTENDEES: **3:45 PM:** Social (who can tell the biggest lie!!) Hour
Bar tabs will be available beginning at 3:00 PM in the dining room. (VISA or Master Card)
5:00 PM: Dinner
6:15 PM: Awards and Prizes

Note: Please remember that the Mequon Country Club dress code prohibits jeans, tank tops, halter tops, cut-offs, and short shorts. Shirts must have sleeves and a collar.

Golf Outing Directions (From Milwaukee):

Take 1-43 (North, from Milwaukee) to the Mequon Road exit (turn left from the off-ramp, west). Proceed on Mequon Road 0.15 miles to Port Washington Road and turn right (first intersection). Proceed north 2.05 miles to Highland (landmark for Highland is the Highland House restaurant on your left). Turn left (west) and proceed 1.0 miles. Turn left on Fieldwood (second road) after crossing the bridge. Look for signs. Turn right after 0.3 miles, on Ville du Parc and follow road to the clubhouse.

Mequon Country Club
Pro Shop: (262) 242-2470
Office: (262) 242-1400



Milwaukee SPE Summer Classic 2007

July 9th, 2007
REGISTRATION FORM

Fax this form to Pete Kambouris at (262) 786-8110 or mail it to him c/o Wisconsin Engraving; 2435 S.170th St, New Berlin, WI 53151. Your reservations will be confirmed by email when payment is received. Please make your reservations by June 9th, 2007 to ensure yourself a spot and to help us plan more efficiently.

Company: _____
 Address: _____
 City/State/Zip: _____
 E-Mail Address: _____
 Contact Person: _____
 Phone and Fax Number: _____
 (with area code, please)

For additional information contact

Pete Kambouris

PH: (262) 786-4521 // FX: (262) 786-8110
 Email: pkambouris@wi-engraving.com

Wayne Vander Zanden

PH: (608) 497-0434 // FX: (608) 497-0464
 Email: waynevz@norstech.com

Save time! Save the hassle! Make table reservations for 4, 6, 8, or 10 for dinner! The cost is \$10.00 per reservation. The proceeds go to help the Milwaukee Section Education Foundation! You and the Section both win!!

Golf and dinner	\$139	x _____	=	\$ _____
Dinner Only (Fishing Dinner)	\$42	x _____	=	\$ _____
Table Reservation (per table)	\$10	<small>Number of Persons at Table</small> 2 4 6 8 10	=	\$ _____
Donation Club (Bronze \$100, Silver \$150, Gold \$200, Platinum \$300+) for door prizes.				\$ _____
Thank you for your support!!!!				
Total:				\$ _____

For the dinner, golf, table reservations, and donations, we accept checks and



Credit Card Type (circle one): MasterCard / Visa / AMEX

Card Number: _____ Exp Date: _____

Name as it appears on card: _____

Please list the full names of the attendees where appropriate:

Golf & Dinner

Fishing & Dinner

Dinner Only

Make checks payable to:
 SPE - Milwaukee Section
 Return them no later than June 9th, 2007 to:
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 c/o Wisconsin Engraving
 2435 S. 170th Street
 New Berlin, WI 53151

Stork - Failure Analysis Wrap-Up

By: Ray Ciezki / GE Plastics

It was a good turn out for the last technical meeting of the year with over 45 people in attendance. Jeff Jansen from Stork Technimet Inc. gave an enlightening presentation on plastic failure analysis. There has been a trend with large and small companies reducing or eliminating their lab and testing capabilities. That is a good reason for us in the plastics industry to understand the capabilities of companies like Stork Technimet Inc. to help us with accurate part failure analysis.

Jeff provided us with insight into the material and plastic part testing that is available and used to find the source of plastic failures. Technical analysis can help determine if the part failure is due to processing, temperature, chemical environment, material choice, stress/load or tool/part design. Jeff also showed us several case studies that took us through the step by step process in analyzing a failure.

Experience along with the technology available at Stork helps their clients get to the root cause of the failure and help in creating a solution. Technical analysis like FTIR, TGA, DSC, DMA and SEM is a key component used in getting accurate results.

I want to thank all members and guests for supporting the Milwaukee SPE Technical Meeting this year. Please feel free to communicate with a Board Member your suggestions on topics for next year's meetings.



— plenco —

PLASTICS ENGINEERING COMPANY
Sheboygan, Wisconsin

THERMOSET RESINS AND MOLDING COMPOUNDS FOR INDUSTRY

SPE Chicago 2007 Golf Outing

Date: Friday, June 8, 2007

Location: St. Andrews Golf Course
3N441 Route 59
West Chicago, IL 60185



Prices:

Golf & Dinner	\$140
Golf Only	\$100
Dinner Only	\$60

REGISTRATION

- Begins Friday, April 20th at 8:00 am
- **Limited to the first 144 golfers**
- Scramble Format with Trophies
- No funds will be accepted on the course
- Credit Card will be voided if appropriately marked check is received on/before Monday, May 28th

DINNER

New York Strip Steak cooked on the grill
Vegetarian Meals available upon request

SCHEDULE

8:30 am Registration Opens
9:30 am Drive to starting hole
4:00 pm Social Hour
5:00 pm Dinner, Awards, Prizes

EVENTS

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Longest, Straightest, & Shortest Drives
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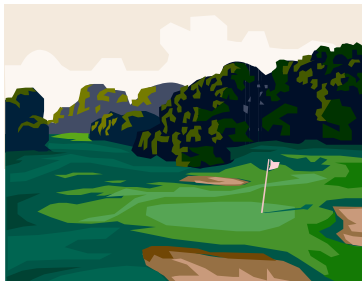
Sandee Appell – INCOE

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email: sandee.appell@incoe.com

- Credit Card number required at time of registration (AMEX / Visa / Mastercard)
- As we are billed based upon our commitment, **no** refunds will be issued for cancellations after 3:00pm on Friday, June 1st
- Please, no name changes after Friday, June 1st



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Bio-Plastics & It's Role in WI's Plastics Industry

By: Dr. Majid Tabrizi

The Archer Daniels Midland Company (ADM), one of the largest players in the agricultural field, named Clinton, Iowa as the location for their new PHA plant, the biodegradable plastics from corn. ADM has over 25,000 employees, more than 250 processing plants, and net sales for the fiscal year, which ended June 30, 2005 of \$35.9 billion. This plant will have an initial annual capacity of 50,000 tons per year, and will produce a new generation of high-performance natural plastics that are eco-friendly and based on sustainable, renewable resources.

This is the second largest bio-plastics plant in the Midwest. Cargill's plant for production and commercialization of PLA is reaching it's second decade. The Nature-works, a supplier of bio-plastics believe to have a waiting lists for their bio-resins.

This is just a sampling of the announcements, which are filling the pages of newspapers and the airwaves at an encouraging rate. The bio-industry based in the Midwest is gaining ground and potentially could become an influential factor in the wellbeing of regional industries, agricultural communities, plastics processors, and perhaps the economic growth of each county and the region as a whole.

Wisconsin, for example, has been benefiting from the strength of the plastics industry statewide. The plastics industry is the state's fourth largest industry, with shipments of about \$10 billion annually, and shipments per/capita of about \$1,600. Plastics firms are located throughout Wisconsin, within 80% of all the state's counties. The industry employs over 52,000 individuals in about 650 plastics and plastics related plants. The Wisconsin plastics industries are mostly fabricators mainly involved with utilizing the already produced plastics resins and converting them into useful article.

According to established statistics the state of Wisconsin, prior to 2005, did not have any manufacturers of resin nor were any resin producers located in the region. In the past the plastics raw materials have been shipped to the state and the plastics industries such as injection molders, thermoformers, blow formers, extruders and others have processed these resin bits and granulars into useful articles of high quality and have offered them in many cases worldwide.

The success of the state's plastics industry is noticeable within the nation and worldwide. A number of these corporations are ranked high in the nation and are considered among the most successful multinational corporations. Plastics Ingenuity of Cross Plains, Prent Corporation of Janesville, Placon Corp. of Madison, Bemis Corporation, of Sheboygan, and Philips Plastics of Philips Wisconsin are among the top fifty of largest plants in the nation

The success of the plastics industries generally is attributed to the ingenuity of the industry leaders and the talent of the plant managers. The strong quality of the state workforce has been an influential factor as well. For every talented industrial leader there is a need for a dedicated workforce to achieve success.

Wisconsin has superb universities and technical colleges with a noble goal of supporting local and regional industries. The University of Wisconsin System has 26 campuses distributed across the state with programs emphasizing the local and regional needs of industries. The UW-system is the eighth largest of higher education in the country. The student population within the system is more than 160,000 individuals. The system employs 24,000 faculty and staff and has an annual budget of over \$2.0 billion.

The track record of the University of Wisconsin System is legendary. In a number of programs, the university system is ranked very high and is considered at the top of their field. The graduates of the state's educational system have been among inventors, managers, scientists, educators, and Nobel Prize winners. The system has shown a great sensitivity to changes in society and the regional economy. The system's universities have been flexible enough to

adapt their educational program to the new environment.

The development and expansion of Bio-based plastics and Bio-based fuel is, perhaps, fundamentally different than any changes that have been experienced in the past. This technology with great potential is relatively in the infancy period and needs to be nurtured to maturity. The techniques are new with minimal historical and technical expertise and experience is limited. The industry requires a substantial investment and their survival is highly dependent on the cost of competitiveness with the bio-based materials as they are compared to their petroleum based commodity resins or petroleum based fuels.

The benefit of the growth in bio-based polymers has a broad implication. They can affect a number of industries both agriculturally and non-agriculturally based. Their bio-based technologies are believed to have an impact on the problem of global warming and environmental issues such as solid waste. The impact of bio-based fuel is believed to be carried into the future as this renewable resource can be timeless.

Bio-based technology also offers an important social, moral and potentially political consideration. The development of industry for agricultural products sometimes needs to be carefully investigated, regulated and monitored. An unregulated industry can lead to the potential for mass starvation in the poorest countries with limited resources in a free market, and unregulated world economy.

The state and perhaps the region are at an important cross-road. Bio-based technology has offered an opportunity to grow locally and regionally beyond any experience in the past. The impact can influence the well being of any agricultural farm or farm community in the most remote corner of the state and region. The industry also faces strong needs ranging from knowledge, technology, capital, and state support.

The University of Wisconsin System has an important relevancy to this important subject. They need to acquire the necessary resources and knowledge, train the desired qualified manpower and disseminate the importance of the knowledge, the benefit of bio-based engineering and technology. They must study the limitations and the possible repercussions of the effect of this technology on society.

Like any other agriculturally based product bio based materials have taken great time and effort to get to the state in which it is today. Bio-based products are seeded and nurtured by the countless number of hours of the farmers, have consumed a great deal of scientific energy, and a substantial industrial investment. The fruit of all that energy will enrich the time of harvesting.

The growth of this technology and achieving a level of profitability and maturity is highly dependant on qualified manpower. The regional educational institutions, particularly the state universities, are morally and rationally responsible to evaluate the urgent need of this industry for quality manpower and to facilitate or require the combined relevant resources from different educational and established disciplines leading to the establishment of science based knowledge, training the technical manpower, and supporting this important technology.

It is the responsibility of the state university system to review their educational programs, and revise their curriculums to develop an expertise in this field and offer educated and qualified manpower to make this industry achieve its potential successfully.

The leaders within the state and private universities in the region should look inward and ask themselves, "Are we ready to harvest?"

PLASTICS INDUSTRY ENERGY BEST PRACTICE GUIDEBOOK

This guidebook was developed with state public benefits funds for energy efficiency programs. It is available to Wisconsin plastics manufacturers for free. Out-of-state requests will be charged a fee of \$85 per guidebook to help recover costs.

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6th Annual Polymer Colloquium

University of Wisconsin–Madison

Friday, May 11th, 2007 • 8:00am – 5:00pm
1550 Engineering Drive, Engineering Centers
Building, Madison, WI

8:00am
Registration and Breakfast

9:00am – 9:15am
Opening Remarks by Tim A. Osswald

9:15am – 9:35am
“New Ideas in Gas Injection Techniques for Foam Extrusion” by Dipl.-Ing. Holger Schumacher of the Institute of Plastics Processing at RWTH Aachen University, Germany

9:35am – 9:55am
“Characterization of Highly Conductive Metal/Polymer Blends” by Dipl.-Ing. Tobias Pfefferkorn of the Institute of Plastics Processing at RWTH Aachen University, Germany

9:55am – 10:15am
“Crash-Simulation for Thermoplastics using Anisotropic Material Models” by Dipl.-Ing. Markus Brinkmann of the Institute of Plastics Processing at RWTH Aachen University, Germany

10:15am – 10:30am
Break

10:30am – 10:50am
“Shelf-life Extension for PET Bottles by Plasma-Assisted Coating” by Dipl.-Ing. D. Binkowski of the Institute of Plastics Processing at RWTH Aachen University, Germany

10:50am – 11:10am
“Testing the Environmental Stress Crack Resistance in Polycarbonate by the Use of Short Time Tests” by Dipl.-Ing. Jan Henseler of the Institute of Plastics Processing at RWTH Aachen University, Germany

11:10am – 11:30am
“Improvement of Internal Cooling of Blow Molded Parts” by Dipl.-Ing. Thomas Bruemmer of the Institute of Plastics Processing at RWTH Aachen University, Germany

11:30am – 11:50am
“Simulation of the Die Swell Behind a Simple Flow-Channel Geometry” by Dipl.-Ing. Bjoern Fink of the Institute of Plastics Processing at RWTH Aachen University, Germany

11:50pm – 1:00pm
Lunch

1:00pm – 1:20pm
“Thermoforming of Multi-Layer Sheets with In-Mold-Graining (IMG)” by Dipl.-Ing. Lennart Ederleh of the Institute of Plastics Processing at RWTH Aachen University, Germany

1:20pm – 1:40pm
“Determination of the Specific Volume of Polymers at Elevated Cooling Rates by X-ray Absorption Measurements” by Dipl.-Ing. Oliver Lingk of the Institute of Plastics Processing at RWTH Aachen University, Germany

1:40pm – 2:00pm
“The Effect of Temperature on the Modulus of Elasticity of Nonlinear Viscoelastic Materials” by Dr.-Ing. Ernst Schmachtenberg of the Friedrich–Alexander University in Erlangen–Nuremberg, Germany

2:00pm – 2:20pm
“Insert Coating as a Preprocessing Approach for Improvement of Adhesive Bonding in Plastic–Metal Hybrid Structures” by Mr. Ahmad Al-Sheyyab, M. Sc. of the Friedrich–Alexander University in Erlangen–Nuremberg, Germany

2:20pm – 2:40pm
“Radiation Cross-linking of Engineering Thermoplastics for Tribology Applications” by Mrs. Dipl.-Ing. Zaneta Brocka of the Friedrich–Alexander University in Erlangen–Nuremberg, Germany

2:40pm – 3:00pm
“Removal of Oxygen Dissolved in Thermoplastic Resin for Gentle Processing” by Mr. Dirk Schmiederer, M. Sc. of the Friedrich–Alexander University in Erlangen–Nuremberg, Germany

3:00pm – 3:15pm
Break

Continued on the next page

6th Annual Polymer Colloquium

University of Wisconsin–Madison *Continued*

2:00pm – 2:15pm

“Monitoring Curing Reactions Using Raman Technology” by Javier Cruz of the University of Wisconsin-Madison, USA

2:15pm – 2:30pm

“Polymer Processing Simulations Using Radial Functions Method (RFM)” by Ivan López of the University of Wisconsin-Madison, USA

3:15pm – 3:30pm

“Soy Protein-Based Polymers” by Brian Ralston of the University of Wisconsin-Madison, USA

2:30pm – 2:45pm

“Microcellular Injection Molding of Biobased Polymers and Composites” by Adam Kramschuster of the University of Wisconsin-Madison, USA

2:45pm – 3:00pm

“Polymer Nanocomposites” by Alex Chandar of the University of Wisconsin-Madison, USA

4:00pm – 4:15pm

“Semi-Solid Casting of Metal-Based Nanocomposites” by Mike DeCicco of the University of Wisconsin-Madison, USA

4:15pm – 4:55pm

Poster Sessions

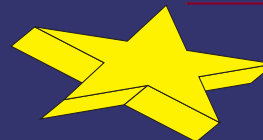
4:55pm – 5:00pm

Closing Remarks

For further information and registration, please contact:

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The Third Back Page

Milwaukee SPE

Brooks Stevens

Clifford Brooks Stevens (June 7, 1911-January 4, 1995) was an industrial designer, as well as automotive designer, graphic designer, and stylist. Though he is often cited with inventing the concept of planned obsolescence (the practice of artificially shortening product lifecycles in order to influence the buying patterns of consumers in favor of manufacturers), he did not invent it but rather coined the term and defined it. Stevens defined it as, "Instilling in the buyer the desire to own something a little newer, a little better, a little sooner than is necessary." His view was to always make the consumer want something new, rather than create poor products that would need replacing. There is some debate over his role in this controversial business practice.

Stevens was born in Milwaukee, Wisconsin, on June 7, 1911. Stricken with polio as a child, Stevens father encouraged him to practice drawing while confined to his bed, perhaps motivating his career in design. He studied architecture at Cornell University from 1929 to 1933, and established his own home furnishings design firm in 1934 in Milwaukee.

His designs in home and kitchen appliances were popular, and he is recognized as being the start of the robins-egg blue phase of 50's kitchen appliances. He also practiced architectural design and graphic design. Of note is his design of the Miller Brewing logo.

As an automobile designer, Stevens was responsible for the Studebaker products (the Avanti was an exception) from the 1962 model year until Studebaker ceased automobile production in 1966. While with Studebaker, Stevens created the Studebaker Hawk GT and Studebaker Wagonaire. Stevens also designed the Willys-Overland Jeepster and all Jeep station wagons manufactured after World War II, including the Wagoneer and Cherokee. He also was the original designer of the classic Harley-Davidson motorcycle. All Harleys since, including models in production now, are based off of Stevens body designs.

Stevens designed the Oscar-Mayer Wienermobile, an American pop-culture icon. He designed engines for Briggs and Stratton and Outboard Marine Corporation. He also designed the university logo for the Milwaukee School of Engineering (MSOE) in 1978 as a part of "The Diamond Jubilee" celebration. The logo continues to be in use today and serves as the symbol of the university.

Stevens designed the distinctive post-war Skytop Lounge observation cars for the Chicago, Milwaukee, St. Paul & Pacific Railroad's premier Hiawatha passenger trains.

Stevens founded, ran, and designed all of the automobiles for, the Excalibur Motorcar Company.

Stevens died on January 4, 1995 in Milwaukee. His son, Kipp Stevens, runs the Brooks Stevens Design Associates.

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3. No activity or communication which might be construed as an agreement to refrain from purchasing or using any materials, equipment, services or supplies of or from any supplier; Or any other activity which violates antitrust or other applicable laws aimed at preventing unfair competition.

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The Milwaukee Chapter of the Society of Plastics Engineers seeks to provide an environment favorable towards the stated goals of the Society which are to promote the scientific and engineering knowledge relating to plastics. Toward that end, the Society seeks to provide an atmosphere that is free from sexual harassment of any kind.

Sexual harassment can contain a singular, or multiple incidents of unwelcome sexual advances, requests for sexual favors, physical contact of a sexual nature, or verbal contact of a sexual nature. Sexual harassment can take place among persons of the same or opposite sex.

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·lewd, suggestive and or obscene gestures;
·leering, pinching, or touching of a sexual nature;

Any member who engages in sexual harassment is subject to discipline up to and including expulsion from the Society.

Any member who is a victim of sexual harassment in connection with Milwaukee SPE activities should report any incident to a member of the Milwaukee Society of Plastics Engineers Board of Directors.

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