

ANTEC 2014 Las Vegas is for Young Professionals!



We've listened to the feedback our younger SPE members have provided from previous ANTEC conferences. So we just wanted you to know we're offering some new, fun and engaging activities at ANTEC 2014 (April 28-30), specifically for young plastics professionals:

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- **Panel Discussion** - Participate in a lively discussion, ask your industry questions, and gain the knowledge you've been looking for including career tips and tricks relevant to you, not that generic advice you find online.
- **Celebration Dinner** - Network over an enjoyable dinner with your fellow peers, future associates and industry veterans. Prizes, awards and more!
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Volume 58 ▲ Number 4

DETROIT SECTION - SOCIETY OF PLASTICS ENGINEERS - "THE CHARTER CHAPTER"

January 2014



TRENDS & TOPICS



President's Message

Pete Grelle, President

In 1966, the late Frank Sinatra recorded a song that rose to the top of the charts- "It Was a Very Good Year." This song title best describes what the year 2013 was for the SPE Detroit Section. As we look back on what was accomplished in 2013, there is a lot to celebrate.

Back on February 8th, the SPE Detroit Section had a successful Material Auction at the MGM Grand Hotel in Detroit which raised funds to support scholarships for students pursuing a career in plastics. It was a great pleasure for me to work with Dawn Cooper of Uniplas, Inc. and a great committee of volunteers in making this event a success.

Our Technical Programs for the 2012-2013 year continued with plant tours of Element Materials Technology on February 25th and the SRG Global Advanced Development Center in Taylor, MI on March 18th.

Under the leadership of Past-President Vineet Kapila of SABIC, the process began of merging the Detroit Section with the Mid-Michigan Section. On April 21st, the merger of both sections was approved by the SPE Council during ANTEC in Cincinnati, OH. Since that day, we have been very fortunate and honored to have the former Mid-Michigan Section as part of the Detroit Section membership and part of our team on the SPE Board of Directors.

During ANTEC 2013, the Detroit Section received several recognitions including the 2013 SPE Pinnacle Gold Award and the 2013 SPE Communications Excellence Award. Also, Sandra McClelland, SPE Detroit Section Councilor, was presented with the 2013 SPE Honored Service Award.

On April 30th, the 8th Annual SPE AutoEPCON was held at the MSU Management Education Center in Troy, MI. Nearly three hundred (300) people, a record number, attended this one day conference. I would like to thank co-chairpersons Gary Kogowski of ENTEC Resins Inc., and Terry

Cressy (DuPont retired) and their excellent committee for organizing this great event and making this the most successful in its 8 year history.

The final technical program of the 2012-2013 year was held at the MSU School of Packaging in Lansing, MI. on May 13th. This concluded a great year of technical meetings organized by Sassan Tarahomi.

In May, the first Plastics Materials and Applications Course was offered this summer at Schoolcraft College in Livonia, MI, and headed by Sassan Tarahomi and Armando Sardanopoli of SEC-LLC. In August, seven students graduated from this inaugural program.

From June 17th through 19th, the Turner Alfrey Visiting Professor Series took place at the Michigan Molecular Institute in Midland, MI. The attendance at this event was excellent. My deepest thanks to both Adrian Merrington and Steve Keinath for all their efforts in organizing this great new event to the Detroit Section schedule.

On June 17th, the SPE Detroit Section Board met to set plans for the 2013-2014 year. The program developed for this year is very exciting as discussed in my past President Messages.

This past summer, three (3) student chapters joined the SPE Detroit Section. These included Michigan State University, Kettering University, and Ferris State University. I would like to thank both Education Committee Co-Chairs Jim Keeler and Sandra McClelland and their student chapter representatives for all their efforts in growing our presence with schools in the Detroit Section area.

On September 16th, Sassan Tarahomi of IAC coordinated and organized a great Kickoff Technical Meeting at Schoolcraft College in Livonia, MI. During that meeting, both Jim Keeler of Albis Plastics and Todd Hogan of the Dow Chemical Company were recognized with the prestigious Outstanding Member Award.

From October 6th through 9th, the 2013 SPE TPO Automotive Engineered Polyolefins Global Conference was held at the Marriot in Troy, MI. Six hundred forty (640), also a record number, attended this event. I would like to give a thanks to conference co-chairs Bill Windscheif of Advanced Innovative Solutions, Ltd. and Jeff Valentage of Exxon Mobil as well as their committee of thirty-five (35) volunteers in making this the most successful TPO conference to date.

The Technical Programs for the 2013-2014 year commenced on October 21st at Reliance Testing in Madison Heights, MI.

In late October, the SPE Detroit Section Scholarship Committee met in Troy, MI. and awarded fifteen (15) scholarships totaling \$27,400.

Finally, the SPE Detroit Section was again instrumental in the coordination of donating toys for the 2013 Holiday Season. This program has received recognition and acclaim in the local Detroit area and the SPE International media. Dawn Cooper of Uniplas and Patricia Ewald of DME led this program for the Detroit Section. More

than four hundred twenty thousand (420,000) toys have been donated since this program began over 14 years ago. These toys will be distributed by the Michigan Association of United Ways and the Lion's Club. I would give a huge thanks to Chevron Phillips Chemical Company for donating approximately 13,000 pounds of high density polyethylene for this special event. I would also like to thank American Plastic Toys, Inc., of Walled Lake, MI., who donated approximately a week's worth of production time to mold and assemble the toys and apply the logos. We also would like to thank Maple Press LLC of Troy, MI. who provided the logos, and E.L. Hollingsworth & Co. of Plymouth, MI. for providing transportation for this important project. This program would not be possible without their support.

At this time, I would like to wish a Happy Holiday season to our section members, sponsors, board members, and volunteers and also wish you all the best for a very Happy and Prosperous 2014. I am looking forward to meeting and seeing you all at our events in 2014.

Our 2013 Detroit Section Scholarship Recipients

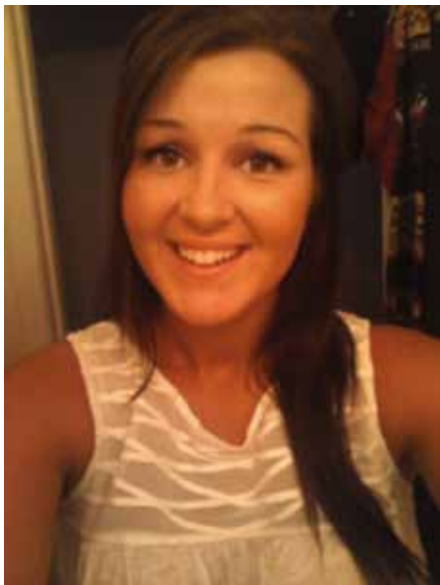
Dr. Gary J. Kogowski,
Trends and Topics Newsletter Editor



This year the SPE Detroit Section awarded academic scholarships to 15 college students for a total of \$27,400. The SPE Detroit Section would like to recognize the achievement of the students and offer to our readers each of the student's short autobiography.

The SPE board would like to thank the Scholarship Committee member for their hard work and award decisions. Scholarship decisions are based upon academic major,

grade point average, academic year, and SPE student membership status. This year's committee members were Tom Miller (BASF, Committee Chair), Sandra McClelland (Chevron Phillips), Adrian Merrington (Michigan Molecular Institute), Jim Keeler (Albis Plastics Corporation), Dr. Gary Kogowski (Entec Polymers, LLC), Dr. Sassan Tarahomi (IAC), Nippani Rao (Rao and Associates), and Bob Petrach (STI-USA)



My name is Claire Davey, and I am a senior in Ferris State University's Plastics Engineering Program. At Ferris, we have studied different types of molding and processing, chemical structures of materials and their additives, and much more. The side of the curriculum I am especially interested in is the polymer science and material fabrication aspect of plastics. When I graduate, this next December, I hope to work in a research and development laboratory, testing and experimenting with different polymers to find new and innovative uses for them.

Scholarship Award: \$2400



My name is Benjamin G. Naber II and I am a chemical engineer at Michigan State University. I aim to graduate in May of 2016. My passion for plastics comes from my internship at Chrysler's Materials Characterization Lab. My supervisor, Gerald Shulke, and my organic materials mentor, Hala Stevens, cultivated my interests in polymers. My senior year, I will be enrolled in Composite Materials Processing and Polymers and Materials. My professor, Dr. Briedis, enriched my desire to become a process engineer through Fluid Flow and Heat Transfer. Once I graduate, my goal is go directly into the plastics industry where I can apply my chemical engineering background professionally. Until then, I will grow my appreciation for my core values of safety, respect, and quality. I am humbled and honored to be mentioned among these great SPE candidates.

Scholarship Award: \$2000



My name is Andrea Mitlink, and I am currently a junior at Ferris State University pursuing a degree in plastics engineering. I am the president of my college's Society of Plastics Engineers chapter. I coordinate company visits, meetings, community service opportunities, and make sure the fellow board members are getting their jobs done and helping them whenever needed. I plan on getting a quality-based job after my bachelors and also continuing my education. I would like to some day get a PhD.

Scholarship Award: \$2000



My name is Michael Magyar and I am currently a senior at Kettering University, pursuing a degree in chemical engineering. My thesis work is a research-based project, focusing on using atmospheric pressure plasma to alter the surfaces of polymers and polymer particles. This includes creating new functional groups on the surfaces of the materials to improve their performance in a range of applications. After graduation, I am hoping to pursue a career in the area of research and development, to further contribute to the field of plastics and advanced materials.

Scholarship Award: \$2000



My name is Dhavan Shah. I am a senior at the University of Michigan's College of Engineering. I am currently studying Chemical Engineering with a minor in Computer Science. I have been interested in engineering ever since I was a child, but I became interested in the plastics industry when I took my Engineering 100 class freshman year and found out about the many applications of plastics and plastics engineering in the medical industry. After college I hope to work for a few years before getting an MBA. After that I would like to start my own company, preferable in the medical plastics industry. Outside of school, I am part of a competitive dance team and a brother of the Omega Gamma Pi fraternity.

Scholarship Award: \$2000



My name is Ben Braskett, I am a Senior at Kettering University in Flint MI, and I am studying mechanical engineering with a plastics engineering minor. Originally, I am from Washington State, but came to Michigan because I was especially interested in getting hands on learning from Kettering University. Upon graduation, I will be heading back to the Northwest and hopefully get into the aerospace industry with Boeing or another aerospace related company. Within aerospace, I will focus on advanced materials, preferably in composite materials. I eventually hope to work on the design and analysis of these new materials as well as finding new ways to manufacture composites in a cost effective way.

Scholarship Award: \$2000



I am Sharna-Kay Dobney, I received my bachelor's degree in Chemical Engineering in June of 2013 and I am currently pursuing a Master's degree in Engineering Management at Kettering University. I served as chapter president for our Kettering University student chapter between 2011 and 2013 during my undergraduate studies. Currently, I am the graduate student advisor and liaison to the university's SPE chapter. In addition, I am a Teacher's Assistance; in this capacity I am work alongside my professors to design and implement a new state of the arts plastic testing lab on campus. I am truly honored to be a recipient, and I am thankful for SPE Detroit Section's generosity in providing me and other recipients with scholarships. It will definitely propel us a step further in pursuing our dreams. It is my dream to make a difference in the plastic industry by contributing to the development of more eco-friendly plastic components in an effort to promote sustainability.

Scholarship Award: \$2000



I would like to thank you all personally for considering me for the SPE Detroit Section Scholarship. I appreciate your willingness to consider seniors, and accept my application past the October 1, 2013 deadline. I will be using the scholarship for books, and tuition for the Fall 2013 and Spring 2014 semester.

The Society of Plastic Engineers has enriched my life in many ways. I have become more involved in my schools engineering councils and committees, as well as spread knowledge of plastics to upper and lowerclassmen of all majors. SPE at Michigan State University has become a competitive student organization. We are beginning to establish our own base for funds, and would like to be financially independent by the end of this year. Networking with different companies has increased, and we plan to host 3 new companies that have never recruited at Michigan State University. Companies like Styron, Ingersoll-Rand, and Plasti-Pak have been in contact and are sending research and development teams to discuss careers and how plastics are being used in their corporation.

My stress level has decreased significantly from this scholarship award, and I am proud to be your selected applicant. I plan to advertise the 2014-2015 scholarship opportunity starting in March.

Thank you,
Aubrey Flint

Scholarship Award: \$2500



My name is Julia Hershey and I am a 5th year senior at Kettering University in Flint, Michigan, studying Mechanical Engineering. Through the unique program that Kettering has offered me, I had the opportunity to co-op at Landmark Plastic Co. and Robert Bosch LLC. Landmark Plastic is a manufacturer of plastic plant propagation trays and growing containers designed for automation, transportation, and retail display. Robert Bosch is a global manufacturer of low pressure gasoline fuel injectors as well as other automotive components. These companies have solidified my want to pursue polymer engineering and plastics processing in my full-time career. I look forward to working in a plastics processing and manufacturing environment, hopefully focusing on the aerospace or defense industries.

Scholarship Award: \$2000



My name is Paul Woodson. I am a senior attending Kettering university, and I am majoring in mechanical engineer and minoring in Plastic engineering. Over the past few years my interest in plastics has been sparked by a professor of mine. He would tell me about the cool new innovations that he was working on, and the new things he was getting for Kettering to teach us his passion. I was so inspired by him that I decided to get a plastic engineering minor that he is starting up at Kettering, and I changed divisions of my company to work in the plastic industry. I enjoy the work, and I ended up developing a thesis topic using a new material that my company has been developing and applying some of its unique properties to a different application. Then someday it is my desire to teach about plastics, because I want to pass on my passion as that one professor did for me.

Scholarship Award: \$2000



My name is Troy DeLong. I was born and raised in Holt, MI and I graduated from Holt High School. I've been interested in being an engineer ever since I was a little kid. My main hobbies are being outdoors, off-roading, being with friends and traveling. I am pursuing my Mechanical Engineering degree. I work for a company call Dart Container Corporation. I hope to one day have a full time job with Dart. They are now Americas largest producer of quality single use dinnerware and cutlery ever since they bought out Solo last year. Dart is huge in designing and manufacturing their own injection molding and thermoforming machines and I hope to take part in that sometime in the future.

Scholarship Award: \$500



I am Maria Malerbi: chemical engineering student and product engineering co-op. As a student pursuing an education and career in chemical engineering, I am fascinated by everything chemistry related. I was introduced to polymers last year in my structure and synthesis of polymers class and have since become interested in nanotechnology. My ultimate career goal would be to use carbon nanotechnology as a means to increase vehicle fuel efficiency and reduce air pollution (by blending plastics with carbon nanotubes, or fibers, we can reduce vehicle weight and strengthen the crystalline structures producing a stronger product). This SPE scholarship will aid me in completing my degree and beginning my career in the plastics industry.

Scholarship Award: \$2000



My name is Kelsey Luibrand and I am currently a junior at the University of Michigan in Ann Arbor. Right now I am majoring in the field of Materials Science and Engineering and intend on specializing in polymer science. While at school, I have participated in both the Society of Women Engineers (SWE) and the Undergraduate Research Opportunity Program (UROP), where I worked as a research assistant studying both evolution and ethology. I am very passionate when it comes to fitness. I have been involved in field hockey club, IM broomball, and when I'm not studying or working, will most likely be found in the rec center. This summer I interned at Ticona (now formerly known as Celanese). While working there, I learned how to process, test, and market different thermoplastics for the automotive industry. I particularly enjoyed studying the fuel delivery system of different automobiles and traveling to Florence, Kentucky to conduct tests such as DSC and obtain experience with injection molding machines. In the future, I hope to secure a job working with car parts at either an OEM or a Tier One company.

Scholarship Award: \$1500



Jarrold 'JD' Daul (Northville, MI) will complete his senior year at Ferris State University (FSU) in Big Rapids, MI and graduate from the Plastics Engineering Technology program in December-2013. Jarrod has completed two (2) extended, manufacturing engineering internships with Toyota Motor Manufacturing, Kentucky, Inc. in TMMC plastics production and product development groups. Prior to working with Toyota, Jarrod was an intern at Proper Mold Engineering, Inc. and Omega Tool Corporation, supporting mold construction leaders and new mold tooling validation. Jarrod is involved in the Ferris State - Society of Plastics Engineers student chapter and enjoys working with new plastics students as a manufacturing lab assistant.

Scholarship Award: \$1000



My name is Rachel Blankenship. I was raised in Brighton, Michigan my entire life and graduated from Brighton High School. I am currently a junior at Western Michigan University and am studying to get my degree in Engineering Design Technology. I am an active member of the SPE chapter here at Western and am excited to be a part of it. With the great engineering program at Western, I have already become familiar with a variety of analysis systems and able to design products on different CAD systems. Overall, Engineering Design Technology saves companies time and money. It is essential to analyze the potential worth of products and to help in the assembly of products by documenting their parts. I am very honored to be rewarded this scholarship from the SPE Detroit section, and cannot wait to put the money towards my education. This will help move me along faster so that I can continue my dream to a career in the plastics industry. Thank you!

Scholarship Award: \$1500



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Councilors Report

Sandra McClelland, Councilor

November 2013 meeting

The councilor's meeting was held on November 15 and 16th. There were many highlights to the meeting. I will outline some of the big highlights in this message.

Council Committee of the Whole Meeting

At the meeting I presented the program that the Detroit Section has with Schoolcraft College. Sassan Tarahomi and Armando Sardanopoli are spearheading this program and have successfully started a Certificate Program for plastics and are working to start an associates program at the college. This presentation resulted in a lot of interest from various councilors who would like to see if they can start a similar program in their section. There are also some certificate programs in other sections and they are interested in learning what the Detroit Section is doing regarding this program.

Council Meeting

Jon Ratzlaff, current SPE President, opened the meeting. Wim DeVos, SPE CEO, presented the budget. Unfortunately the budget for 2013 and the forecast for 2014 are both negative. This is due to a large part to the expenditures to improve operations such as the new website, SPE Connect, and services to improve conferences.

New sections and student chapters

There was a petition for two new student chapters: University of Connecticut and University of Alabama Birmingham. Both of these were approved. A new section named the ASEAN section was approved. It has 41 members to start this new section. There was

also a merger of 3 sections. The Pioneer Valley, North East and South East New England sections have been merged. Their new name is Eastern New England Section.

TOPCONS

There are 4 more planned TOPCONS in 2014 than there were in 2013. SPE is working to support these TOPCONS with new headquarters staff and programs. Most new members sign up during TOPCONS and ANTEC events.

Membership update

At the beginning of the month they remove members from the list that have not renewed their membership. In June the membership dropped due to a cleanup of the membership records. We are seeing a trend of declining membership.

Website

The new website for SPE is planned to be launched in 1st quarter 2014. This is a very different looking website with better navigation and will contain new content. Website is being designed to work with mobile devices, mobile phones, and tablets.

Student Activities at ANTEC

There were discussions about the increased activities for students at the upcoming ANTEC in Las Vegas on April 28-30, 2014. The Next Generation Advisory Board presented information about sponsorship events. Please take a moment to review the opportunities and think about becoming a sponsor.

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2013-2014 Technical Program Report

Dr. Sassan Tarahomi, IAC Group

Dear Detroit SPE members, our September event at Schoolcraft College and October plant tour at Reliable Analysis was received well by many of you. As you know, main purpose of these events is to educate our membership. However there are many side benefits such as getting to know other members, networking, meeting your potential future boss that is if you are in the market for a job, and best of all getting recruited to serve SPE. It was in one of these events that I was approached by one of the past SPE Detroit Section presidents and asked if I was interested to serve a one year term on the board. You know the rest of the story, but I encourage all of you to attend as many events as possible and make sure to bring your business cards and pass them to other members.

Getting back to my report on the last two events. We specifically planned our September 16 event at Schoolcraft to dedicate our fall kick-off to "Plastics Education". Our October event was all about plastics testing and getting to know one of the best global Plastics Testing laboratories right in our backyard "Reliable Analysis Inc." Here are few photos of these two events. Send me an email to starahomi@iacgroup.com and let me know if you can identify the longest serving SPE member in these photos.



Some of the September 16 attendees intensely listening to the welcome speech by Sassan Tarahomi



At left: Presidential speech by Mr. Pete Grelle our 2013-2014 President



Below: Bill Windscheif introducing Jim Keeler and Dr. Adrian Merrington introducing Todd Hogan for Outstanding Member Award.





Bill Windscheif presenting the Outstanding Member Award to Jim Keeler and Pete Grelle presenting Dr. Adrian Merrington the Outstanding Member Award for Todd Hogan in his absence.



One of our newest outstanding member award recipient Jim Keeler giving a brief acceptance speech.



Nippani Rao, Sassan Tarahomi, Pete Grelle, Jim Keeler, Mrs. Regina Keeler and Bill Windscheif congratulating Jim on receiving the Outstanding Member Award.



SPE members from many companies as well as university students were hosted by SPE Detroit Section board members (Irv Poston (GM Retired) second from right).



My short speech about how much fun it was to teach the Spring 2013 Plastics Course at Schoolcraft Binder is the collection of weekly presentations which every students received a copy of.



Dr. Tarahomi presenting the first plastics student course binder to Dean Leadley of Schoolcraft College.



Our event speaker Dr. Leadley presenting latest status on the Plastics program at Schoolcraft College



Sassan presenting SPE Detroit Section appreciation plaque to Dr. Leadley.



Armando Sardanopoli, Dr. Leadley, Brian Merry, Matt Gustke, John Pratt and Sassan Tarahomi. Brian, Matt and John were among the students who successfully completed the Spring Plastics course.



Plastics educators and students attending the September 16 event.

October 21st plant tour and presentation at Reliable Analysis. Everyone learned about the latest in plastics testing.



Attendees and Reliable Analysis staff. Please note our youngest member in pink standing in front. She even has her own Detroit SPE name tag.



At left: Picture of attendees while touring the lab. I have no idea what I am doing, but I can tell it must have been funny since everyone is looking at me with a half smile.

At right; Attendees touring the lab.





Sassan presenting the SPE Detroit Section Appreciation Plaque to Alex Lang for organizing this great event at Reliable Analysis.

A memorable picture with the Reliable Analysis team (from Left to Right, Alex Lang, Teresa Lang, Sassan Tarahomi and Ken Lang).

To those of you who missed the past two exciting events, don't worry we have many more events planned for you. All you have to do is to call or send an email to Ms. Karen Rhodes-Parker and sign up for the event. Karen's phone number is 248-244-8993 ext. 3, her email is karen@spedetroit.com. We are all looking forward to see you in the upcoming events.

Below is a list of our future event so you can add them to your calendar.

Date	Technical Program Topic	Location
February 19, 2014 Wednesday	Post Industrial Scrap - ACI	ACI Plastics Headquarter 2945 Davison Road Flint, MI 48506 Ph: 810-767-3600
March 3, 2014	Kettering University	Kettering University 1700 University Ave Flint, MI 48503 Ph: 810-762-9598
May 5, 2014	Solid Concepts - Rapid Prototyping	Solid Concepts Inc. 2701 Industrial Row Dr. Troy, MI 48084 Ph: 248-280-5905
June 9-13, 2014 Monday – Friday (3 – 6 PM)	Turner Alfrey Visiting Professor Program	Michigan Molecular Institute 1910 St Andrews St Midland, MI 48640 (989) 832-5555

Yours truly,
Dr. Sassan Tarahomi
Detroit SPE Technical Program Chair

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Coming Events

March 28, 2014

Material Auction

[http://www.4spe.org/events/technical-groups/
detroit-section-material-auction](http://www.4spe.org/events/technical-groups/detroit-section-material-auction)

May 6, 2014

SPE AutoEPCON

[http://www.4spe.org/events/
technical-groups/spe-auto-epcon](http://www.4spe.org/events/technical-groups/spe-auto-epcon)



SPE Detroit Technical Program ACI Plastics Plant Tour

Date: February 19, 2014

Time: 5:30 PM



Place:

Location: 2945 Davison Road
Flint Michigan 48506
Ph #: 810-767-3800

Cost: SPE Members: Free, others \$10

Pre-registration is required. Please RSVP with Ms. Karen Rhodes-Parker at karen@spedetroit.com or 248-244-8993 ext 3.

Agenda

5:30 PM — Arrival, registration, professional networking and refreshments
6:00 PM — Sandwich/Pizza and Pop/water
6:30 PM — ACI Presentation by Scott Melton, President
7:15 PM — Tour of ACI facility
8:30 PM — Conclusion

Program Topic: **Advanced Polymer Recycling Technologies**



ACI Plastics, Inc.

ACI has developed and patented a number of specialized technologies that provide a means for their customers to recover and recycle the plastic scrap they generate. These materials are reprocessed and rejuvenated so they may be used in their originally intended application.

ACI provides reprocessed thermoplastic resins for injection mold and extrusion applications. Their recycled materials perform with the same characteristics, quality, consistency and predictability as the virgin resins they replace. All of this is combined with a significant cost savings compared to the cost of virgin materials.

ACI expertise lies in separating various contaminants from valuable reusable thermoplastic material. Their separation services include; multi-layer separation, paint removal, optical sorting, and electro-static separation.

In addition to reprocessing resins, ACI also compound custom virgin resin Pflex-i Thermoplastic Elastomer. This product can be produced in any hardness or color required.

ACI has **ISO 9001 certification** which exemplifies their commitment to quality. ACI is also equipped with a comprehensive **A2LA certified laboratory** that includes a wide range of specialized testing equipment. This laboratory routinely performs testing of mechanical and physical properties of plastic materials as well as contamination analysis.



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Scientific Molding • *Styron* • *Uniplas*



SPE Detroit Technical Program

The State of Plastics at Kettering University

Date: Monday, March 3, 2014

Time: 5:00 – 8:30

Location: Kettering University
1700 University Ave.
Flint, MI 48504
Campus Center, Sunset Room

Contact: Eve Vitale

Phone: office (810) 762-9525; cell (810) 814-6412

Max Attendance: 100

Agenda:

- 5:00 – 6:00 Optional Tour
- 5:30 – 6:30 Networking, appetizers & refreshment
- 6:30 – 6:40 Welcome: Dr. Robert Simpson, Provost and Senior Vice President for Academic Affairs
- 6:40 – 7:00 Kettering Student and Alumni Highlight
- 7:00 – 7:30 Mark Richardson, Lecturer, Industrial & Manufacturing Engineering, Kettering
- 7:30 – 7:45 Closing Speaker
- 7:45 – 8:30 Networking, coffee & refreshment

Program Topic: Mark Richardson, Lecturer, Manufacturing and Plastics Processing discusses the state of the plastics program at Kettering University, including curriculum development, lab renovations, engaging SPE students, manufacturing initiatives and recent research and development projects.

Please RSVP with Ms. Karen Rhodes-Parker at karen@spedetroit.com or call her at 248-244-8993 Ext. 3

Mark Richardson, MSE
Lecturer, Industrial & Manufacturing Engineering
Kettering University

BSME from Michigan Technological University
MSE from Kettering University with a Concentration in Manufacturing

Mark's experience includes time at Ford and Visteon with a focus on interior design and manufacturing. He also worked at The Dow Chemical Company servicing the needs of both internal and external Dow customers with sheet extrusion, compounding, injection molding and testing services.

He is currently focused on manufacturing processes and plastics manufacturing education and development at Kettering and is involved in a number of sponsored research projects concerning both advanced materials for plastics tooling and recycled materials for product applications.



Our **QR Code** takes you to our website www.SPEdetroit.com where you will find our Newsletters, News Briefs, Upcoming Events, Scholarships, Essay Contest, PlastiVan, Photos, and info on other Detroit Section activities.



Student Chapters

Sandra McClelland

Education Committee Co-Chair

Many of the students are starting to look for summer intern jobs. If you know of any job opportunities or companies that may have opportunities please let me know so we can link the companies up with the universities.

As we move forward we are still seeking people as mentors for the student chapter members. If you are interested in being a mentor for a student at the student chapter please contact me at mccles@cpchem.com.

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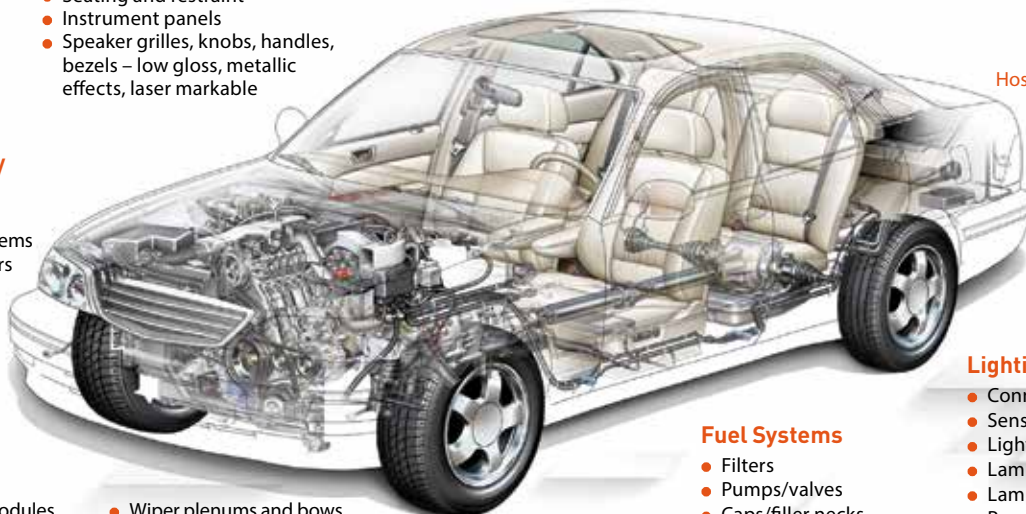
- Door/lock/window
- Seating and restraint
- Instrument panels
- Speaker grilles, knobs, handles, bezels – low gloss, metallic effects, laser markable

Under Hood/ Powertrain

- Fuel rails
- Cooling systems
- Engine covers
- Air pumps
- Connectors

Structural

- Front end modules
- Door modules
- Radiator grille frames
- Underbody skid plates
- Wiper plenums and bows
- Multi-functional roof
- Mirror housings



Fuel Systems

- Filters
- Pumps/valves
- Caps/filler necks
- Body clips
- Fuel cells

Lighting/EE

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Section Name and Title	Meeting Information	Instructor	Fee	CEUs	Status
CESB-6257 Intro to Plastic Materials and Processing	12 Weeks: 1/29/14 - 4/16/14 Wednesday, 6:00 – 9:00 PM Applied Science Bldg., Room 830	Dr. Sassan Tarahomi & Armando Sardanopoli	\$995	3.6	Open until filled

For more information, contact Tammy Thomson, 734.462.4349, tthomson@schoolcraft.edu or visit www.schoolcraft.edu/plastics

Introduction to Plastic Materials and Processing

Dr. Sassan Tarahomi currently serves as President Elect of SPE-Detroit Section of the **Society of Plastics Engineers (SPE)**, having been a member for 24 years. He currently serves as the 1st Vice President of SPE-Detroit Section. Dr. Tarahomi has held various engineering leadership positions in **Plastics and Automotive** industry for the past 26 years. Dr. Tarahomi has taught plastics material, design and processing to automotive designers and engineers for over 15 years. He is currently the **Advanced Engineering Material Manager** at **International Automotive Components** Group Headquarter in Southfield, Michigan. Dr. Tarahomi has extensive knowledge of plastics tooling and die design, plastics part design and assembly, plastic materials, processing and testing, rapid prototype materials and process, engineering simulation and analysis, geometrical dimensioning and tolerancing, program management, as well as **Six Sigma** methodology. He has been certified as a green belt Six Sigma since 2006. Dr. Tarahomi has a **B.S. in Mechanical Engineering** from Florida Institute of Technology, **M.S. in CAD/CAM** from **Eastern Michigan University** and a **Doctor of Engineering in Plastics Engineering** from University of Massachusetts at Lowell. Dr. Tarahomi has received 14 patents in the United States and other countries.

Armando Sardanopoli retired from BASF in 2006 after working for 20 years managing the technical service and product development activities, capping more than 36 years of experience in **Technical Service, Product Development, and R&D** in the plastics industry. He also managed the Technical Service and Product Development functions in the European market for **Upjohn** and **Dow Chemical**. Since 2006, Mr. Sardanopoli has consulted in the plastics industry through his company **Sardanopoli Specialty Elastomer Consultants, LLC**. He has developed and implemented process **training programs**, assisted in developing new **elastomer formulations**, coordinated technical service for international resin suppliers and assisted in troubleshooting TPU manufacturing facilities. Mr. Sardanopoli has a chemical engineering degree from The City College of New York and a Business Management Master's degree from Rensselaer Polytechnic Institute (RPI).

Upon completion of the course students will be able to:

1. Identify characteristics of different types of plastic materials that make it appropriate for the application.
2. Discriminate between the advantages and limitations of common plastic molding processes.
3. Relate application test requirements to material and process choice.
4. Demonstrate the ability to identify various features of a plastic part.
5. Understand how various material choices and processing techniques can affect the molded part.
6. Illustrate various material, design and process options affecting part mass, cost and performance.
7. Apply background concepts and knowledge of materials to tool design.
8. Apply background concepts and knowledge of processability to part design.
9. Apply plastic part design knowledge into tooling.
10. Apply engineering fundamentals to plastics part design.



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Our Social Media coordinator, Detroit SPEaker, is constantly providing links on the Detroit Section pages on LinkedIn, Twitter, and Facebook, as well as on other LinkedIn groups including SPE (Society of Plastics Engineers International) and ESD (Engineering Society of Detroit). Please join and follow the Detroit Section, configure to receive emails when new postings are made, and click through to the information being provided on the web.

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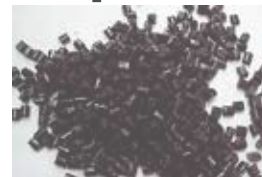
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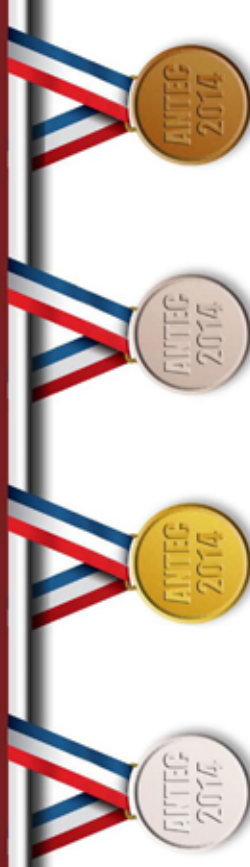
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