



SPEC *Sheet*

SOCIETY OF PLASTICS ENGINEERS – CLEVELAND SECTION

February 2011 Vol. 54 No. 6

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Editor: Bruce Bille

“Bank Branch of the Future” And tour of Diebold with Akron Chapter Monday, February 21, 2011

5995 Mayfair Road
North Canton, Ohio 44720

Agenda:

4:00 Board Meeting
5:15 Arrive at Diebold
5:45 Intro to Diebold
6:00 Tours Begin
7:30 Dinner at 356th Fighter Group

Price:

Member \$25.00
Guest and Member \$50.00
Retiree \$20.00
Student \$15.00

A cash bar will precede dinner, which will be held at 356th Fighter Group, 4919 Mt. Pleasant Rd. (adjacent to Akron-Canton Airport).

Reservations should be made by February 18th with Mark Holtman at 330-972-6008 or holtman@uakron.edu.

Agenda

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Location

5995 Mayfair Road
North Canton, Ohio

Cost

Members/Guests \$25.00
Retiree \$20.00
Student \$15.00

Reservations

Reservations must be in by noon on Friday, February 18th and can be made with Mark Holtman at 330-972-6008 or holtman@uakron.edu.

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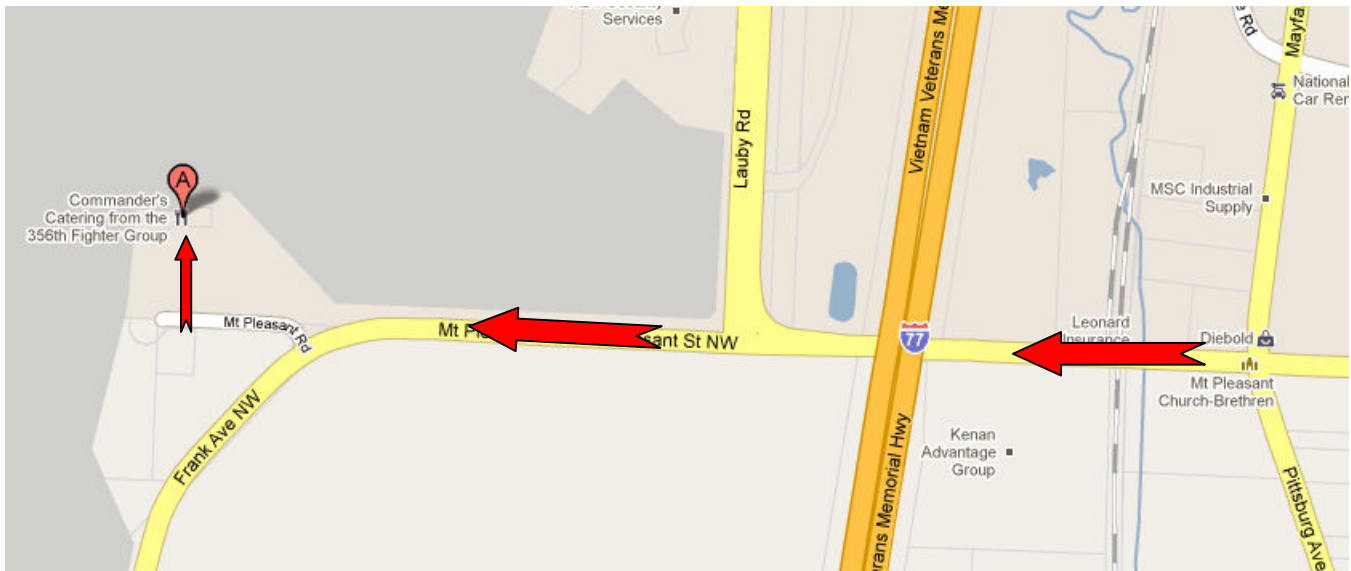
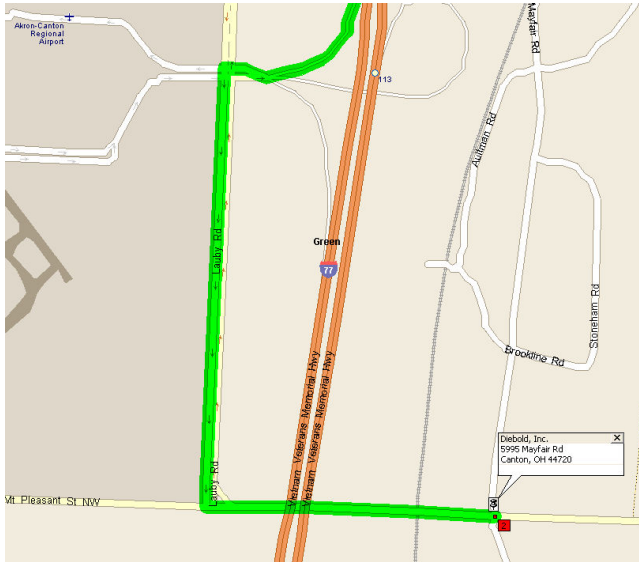
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Directions to Feb 21st meeting:

From Cleveland, take I-77 South.

- Exit I-77 at the Akron-Canton Airport exit (exit 113).
- At traffic light, turn LEFT onto Lauby Rd.
- At the end of Lauby Rd (light), turn LEFT onto Mt. Pleasant St.
- Proceed THROUGH traffic light (corner of Mt. Pleasant and Mayfair - Diebold on the NE corner of that intersection)
- You may EITHER turn LEFT into the first entrance after the light...OR the second entrance after the light (see detailed aerial photo on next page). Visitor parking is available at either entrance.
- Each entrance has a guard station where you must sign in and receive a visitor badge. Guard will then contact appropriate Diebold associate to advise of your arrival.



President's Message

By Brian Sarvas

Wow, this year is starting out with a bang. If you missed the meeting in January you really missed out. Joe Gingo presented a great discussion on competing internationally and on A. Schulman's business and acquisition strategy. This was a joint Cleveland and Akron section meeting and was the largest section meeting I have participated in since I have been a member of SPE. We had over 80 attendees pre-registered, and most braved the horrible weather to be there. It was definitely an outstanding opportunity to network with colleagues.



Our meetings for the remainder of the year will consist of 2 plant tours, a presentation on plastic recycling by converting to oil and gas, and our awards meeting. Our next meeting will be another joint meeting with Akron. It is something near and dear to everyone's heart, many of us use them daily, "ATM's." We will be touring Diebold in Canton. Due to the interest this tour should generate, it will be another great opportunity to network. We are anxious to see you there.

We are trying to put the Program together for next year. If anyone has a topic or tour that is of special interest, please contact anyone on our board. We are always searching for something new and would like your input.

Speaker Bio

Jim Block, Director, Advanced Development and Technology

Jim Block has been with Diebold since the beginning of his engineering career in 1973. Assuming his current role in 2003, Jim Block has been responsible for investigating technologies and applying them to concepts that are ahead of Diebold's current development horizon in order to capitalize and gain insight into the key technologies that will be of importance to the company, its customers, and Diebold's chosen markets within three to 10 years.

Block began at Diebold in 1973 as an engineering co-op student in the development organization. After receiving his BSEE degree, he joined Diebold full time as a product development engineer in both security and ATM systems products. He worked in various technical design capacities until 1987, when he moved into the development management positions he's held since.

In addition to the aforementioned advanced technology responsibilities, he also actively contributes a technology perspective to strategic market planning and corporate direction. Block holds a bachelor's degree in electrical engineering from The University of Akron in Akron, Ohio.

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SPE - Cleveland Section S03
Board Meeting Minutes
January 20, 2011

Brian Sarvas opened the meeting at 4:28 PM with 5 members present.

Present: Brian Sarvas, Gary Casterline, Cheng Xiong, Jerry Blayne and Jack Dubsky.

Absent: Gary Petruska, John Sovis and Don Haeske.

Treasurer's Report: No report.

Secretary's Report: Brian Sarvas motioned to accept the minutes as printed, Gary Casterline seconded and the motion carried.

National Councilor's Report: Gary Casterline reported contact from National regarding improvements to the website. Antec attendance was also discussed.

Program Report: Gary Casterline reviewed the remaining meetings for the year and locations for dining on tour nights.

Advertising: No report.

SPEC Sheet / Web site Report: Gary Casterline asked for submissions to be made by February 4th.

Membership: No report.

House: The Akron section is administering the meeting.

Education: Cheng Xiong reported the deadline for essay submissions was January 14th. 35 essays were submitted from 5 schools. Gary Casterline scanned the essays and distributed CD's to the board for review. Everyone's top 10 are due by 2/15. The Cleveland Science Fair is March 15th.

PIC: No report.

Awards: Potential candidates for Honored Member award were discussed.

Old Business: No old business.

New Business: No new business.

Jerry Blayne motioned to adjourn the meeting. Cheng Xiong seconded and the motion carried. The meeting ended at 5:05 PM.

Upcoming Events

Joint Calendar - Cleveland and Akron Sections (<http://www.akronspe.org/calendar.htm>)

03/21/11 Converting Recycled Polymer to Synthetic Crude Oil and Gas, Vadxx Energy LLC

Pittsburgh Section (<http://www.4spe.org/technical-groups/sections/pittsburgh>)

(Meeting information is not posted on the Section's website. For details, contact pgh.spe+rsvp@gmail.com.)

See what the **Akron Section** is doing this month! Click on: <http://www.akronspe.org/newsletter.htm>

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E-mail: jsovis@juno.com (click to link) / Phone: 330-405-6770

What's on your mind?

Of course, with the Superbowl only hours away from publishing time of this month's SPECsheet, you're probably wondering the same thing as I...

When were plastic football helmets invented?

Quick background...

In 1888 the college football rules convention voted to allow tackling below the waist.

Players and coaches soon regarded pads as essential for the game. However, helmets were the last thing to be accepted. They were not a mandatory piece of equipment in college ball until 1939 and they were not made mandatory in the National Football league until 1943. *Ironically, the jock strap and protective cup were in use at least 50 years before helmets were made mandatory, demonstrating the priorities of alpha males.*



The man largely credited with inventing the first helmets was George Barclay of Lafayette College who probably developed the "head harness" in 1896. He designed a headgear which had three thick leather straps forming a close fit around his head, made by a harness maker. It became known as a head harness. Additionally, other sources credit the invention of the football helmet to U.S. Naval Academy Midshipman Joseph M. Reeves (later to become the "Father of Carrier Aviation"), who had a protective device for his head made out of mole skin to allow him to play in the 1893 Army-Navy game after he was told by a Navy doctor that he must give up football or risk death from another kick in the head. Reeves went to a local shoemaker/blacksmith and had a crude leather helmet fabricated to protect his skull. Later helmets were made of padded leather, and resembled aviators' helmets. The helmet slowly began to take more of the appearance we recognize today when around 1915 more padding and flaps were added with ear holes for better on-field communication.



The plastic football helmet was invented and patented in 1939 by John T. Riddell and his son John T. Riddell Jr., of the John T. Riddell Company in Chicago, a sporting goods provider. The single molded shell was stronger, lighter, longer lasting, and didn't rot the way leather does when damp. Colors could also be baked into the plastic so the paint jobs would be longer lasting. In 1940 Riddell also developed the first chin strap to rest on the chin instead of the neck and the first plastic face mask. There were problems however. The plastic helmets were brittle when hit head on. And the bar hole that was drilled for the face mask tended to pop loose.

In 1955, G.E. Morgan a consultant to Riddell, and Paul Brown the coach of the Cleveland Browns, invented the BT-5 face mask which is the single bar design. The year after the BT-5 a single wave radio was installed in a player's helmet so the coach could give the play to the quarterback over a radio frequency. It only resulted in game time interference but the experiment was ahead of its time.

Rigid polycarbonate alloy plastic helmets and vinyl coated steel alloy face masks are now the norm. In 2002 Riddell released a new more spherical design for the helmet and it is currently the most widely used helmet in the National Football League. A study released by the University of Pittsburgh Medical Center shows that the Riddell Revolution, and others like it, reduce the incidences of concussion, a problem that has been at the center of controversy the entire 2010-2011 season.