

B/W Chapter of SAMPE News Letter



TALK/TOUR: Wednesday, November 12, 2003

WHERE: Carleton Technologies - Pressure Tech Division, 711 Corporate Center Court, Westminster, MD 21157

HOST: Carleton Technologies Inc, Pressure Technology Division (Carleton PTD), designs and manufactures a full line of lightweight composite pressure vessels that are used in space, marine, aircraft, life support and paintball applications.

September 2003, Carleton PTD consolidated its three facilities into a new facility located in Westminster, MD. This was an excellent opportunity to lay-out a world class manufacturing facility which was designed using lean manufacturing principles and value stream mapping.

May 2003, Carleton PTD won a prestigious contract with NASA JPL to design, manufacture, and qualify the largest Xenon Propellant Tank built to date for the Dawn Discovery Mission. A discussion of the design and manufacturing processes will be presented, followed by a tour of our new facility.

DIRECTIONS: For those coming from DC area, you have 2 choices - as the crow flies or the round about faster way. The crow fly is to get on I-495 to exit 31 Georgia Ave MD97 north. Follow MD 97 right to the plant which is just north of Westminster. You'll be on a stretch of combined MD 140 and MD97 for about 2 1/2 miles. MD97 makes a right hand turn on Pennsylvania Ave/Littlestown Pike. Corporate Center Court is the first road to the right. It's about 40 miles from Exit 31 over mostly single lane but good roads. The probably faster way but 10 miles longer is I-95 to I-695 to I-795 to MD140 outside of Reisterstown MD. MD140 to MD 97 just east of Westminster. From Baltimore there is no as -the-crow-flies. Pick up I-695 follow to exit 19 to Reisterstown I-795. Follow I-795 to MD 140 to Westminster. Follow MD140 to where MD97 comes in and follow the above directions on Pennsylvania Ave/Littlestown Pike.

AGENDA:

5:30 - 6:00 Gathering, sign in, receive safety equipment.
6:00 - 6:45 Welcome and Talk
6:45 - 7:30 Tour of the Facilities and Projects
8:00 - Finir: Dinner

DINNER: After the tour, a social dinner for those wishing, will held. In your **RSVP**, please indicate which you will be attending - Tour and/or Dinner.

PLACE: Johansson's Dinning House; 4 West Main St; Westminster MD 21157

DIRECTIONS FROM CARLETON: 1) Go back out to MD 97. 2) turn Left and follow Littlestown Pike/Pennsylvania Ave all the way to MD32 which is West Main St. 3) Bear left on W Main St. Note this is a 45° turn not 90. 4) Johansson's is about 3 blocks down on the left.

MENU:

- All dinners served with:
house salad; baked potato; coffee, tea or soda
1. Chicken Marsala; Chicken Medallions sautéed with mushrooms, marsala wine and brown sauce.
 2. Veal Oscar; Tender veal medallions sautéed, topped with lumped crab meat, hollandaise sauce and garnished with asparagus.
 3. New York Strip; A full pound of USDA prime beef lightly seasoned and char-broiled to order.
 4. Salmon; Broiled and served with béarnaise sauce.

COST: Members/Spouses/Friend - \$18; Students - \$7; Non-members - \$23 for the dinner. **CASH BAR!**

RSVP: by COB Friday 11/07/03 to Matt Fox at: Ph, 304-842-1970; e-mail, mfox@fmwcomposite.com. Three items required from each: Attending Tour? Attending Dinner? Entrée Choice?

NO SHOWS: If you sign up for the dinner and can not attend, please let Matt Fox know by Wed Noon 11/12/03. We have to pay for the dinner whether you're there or not. We will bill those who do not show.

LAST MONTH: 10 members attended a fine tour of the injection molding house Innovative Plastics Solutions. We saw quite complicated parts being molded out of a variety of thermoplastic materials. IPS has tool design and manufacturing capabilities including spark plunge and wire sawing systems - all numerically controlled which allows them to make quite complicated dies. One product was a squirrel cage air fan with airfoil cross sectioned blades that was one shot molded in a die made by spark wire sawing. Highly efficient, light weight and very quiet fan. Unique, to say the least!

UP COMING EVENTS:

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| Dec 10 th Annual Xmas Dinner at Rams Head Tavern Savage MD | April 14 th Annual Vendor Nite |
| Jan. 14 th Rich Caruso - Specialty Material Incorporated | |
| Feb 11 th Annual Student Nite | May 12 th TBD |
| March 10 th Tour of Northrup Grumman | June 9 th TBD |

03 / 04 OFFICERS

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|---|--|
| CHAIR: Mike Bidinger 703-404-7659 Orbital bidinger.michael@orbital.com | SECRETARY: Matthew Fox 304-842-1970 FMWComposites mfox@fmwcomposite.com |
| VICE CHAIR: Peter J Joyce 410-293-6533 USNA pjoyce@usna.edu | |
| TREASURER: Jim Harris 410-871-9966 PressureTech harris@cartech.com | PAST CHAIR: Tony Vizzini 662-325-1148 Miss State vizzini@ae.msstate.edu |
| DIRECTOR: Paul Wienhold 443-778-3165 JHU APL paul.wienhold@jhuapl.edu | CHAIR/VENDOR NITE Mel Morganstein 301-384-5812 melm@comcast.net |
| NEWS LETTER EDITOR: Jim Bell 410-256-3945 jimbelle864@aol.com | DIRECTOR Allan Goldberg 301-394-3118 agoldberg@arl.army.mil |

STUDENT CORNER: I do know that UDel and MissSU have submitted Tech Proposal to Joe Leonardo with the idea that they have a potential of winning some money for their student chapter projects. Wish WVU and UMD would take action to do the same. Check SAMPE's web site, www.sampe.org click on Student Programs. Note the Tech Proposal Program has a Nov 1st due date. Last time I looked both WVU and UMD still have a legal sized student chapter. If you want to build another plane, do it. Put in a Tech Proposal just like you did last year. This time, check with me for an advisor signature and potential tech advisor. I'll get one of the executive officers to sign for you. Material? Bet some of the local professional members would make a go of it. So you are a tad late, I'll bet that Joe would understand!

STUDENT NITE FEB 11th:

I'm repeating the call for you folks to start action on the poster and paper for the Student Nite. Remember that the winner of the paper presentation is an automatic finalist to the University Research Symposium at SAMPE's ISS&E in Long Beach May 18, 2004. The winner of the poster presentation is automatically a semi-finalist to the same program. She/he can become a finalist if a paper on the poster is deemed to be of finalist quality. The schools that the B/W Chapter has sponsored have turned out an amazing group of finalist over the past nine years of the University Research Symposium and most of the finalists have gone the Student Nite method. By the way, B/W Chapter of SAMPE is sponsoring five student chapters; Virginia Tech, UMD, WVU, UDel, and Miss State. VA Tech is dead - no faculty advisor. UMD is dying - no Faculty advisor. We will still honor any participants in Student Nite from these 2 schools as well as from the other schools. In fact if NCA&T, which has no one, has a student that would like to participate in Student Nite, they would be welcomed. The more, the merrier!

This is our 2nd announcement of the February 11th Student Nite Program. However, it won't be the last!

Where: Because of Tony and Matt's leaving UMD, at this writing we are not sure where it will be but it will be and on the 11th

The B/W Chapter of SAMPE are very happy to welcome you to Our 9th annual Student Chapter Poster and Symposium Nite. Many of you undoubtedly remember the fun had last year. This year will be no different.

The arrangements will be similar to last year's. The students and faculty advisors from UDel, NCA&T, VPI, & WVU will be placed, if they wish, in a local motel for the night of the 11th at B/W Chapter expense. Individual presenters will have their dinner free. All Other students will be charged \$7.00 for their dinner. The four traveling schools will be given \$40.00 each towards traveling costs. If you plan to return to your school right after the evening program, please notify us in advance so that we can cancel the motel reservations. We will require the total number of students from each school so that we can arrange the food and motel schedules. We need this information by February 5th. Send this info to me: 410-256-3945 or jimbell864@aol.com. I also need the names of the poster and paper presenters and the title of each paper/poster. I would like to include them in the newsletter announcing the program. That NL goes out 01/29/03. That means the info should be in my hands by 01/23/03. Just for a change let's make my life a tad easier and do it and on schedule!

FYI I: The picture on the 1st page is the new Carleton Plant. I should never take pictures on a sunny day. You can tell by the shadows that the plant side that was being shot was in the shadows. A cloudy day would have been superior. The sign that is a white patch does say **CARLETON**. Don't believe me! Pull it out and blow it up 3 or 4 times and you'll see it come out strong. I enhanced it big time by rewriting it with a light background.

FYI II: Between Tony Vizzini and Matt Fox the Newsletter and B/W Web is being maintained very neatly. They are not letting a little distance separate them from all of us.

SPONSORS: In the 24 years existence of the B/W Chapter of SAMPE, we never have had the response for sponsorship like this year. Their participation will assure that the Student Nite on February 11th will be a financial success. Take a good look at them. They all have fine products and excellent service. Take a look at their Mini-Web Sites in B/W's Web: www.ena.umd.edu/bwsampe/. Click on B/W Chapter Supporters. It will give you further view of each company's product/services.

| COMPANY | PRODUCT/SERVICE | CONTACT | TELEPHONE | E-Mail |
|----------------------|---|--------------------|--------------|--|
| BRYTE | Structrl Prprg, Adhsvs, Syntactcs, Resins, etc | Stacy Biel | 410-376-3850 | Sbiel@brytotech.com |
| Sovereign | Hi-Performance Adhesives | Bob Wolfe | 330-256-2100 | Bob.wolfe@sovereignsc.com |
| FiberCote | Prepregs | John Tauriello | 203-755-1344 | Jtauriello@fibercote.com |
| NFGS | Prprgs/Adhsvs/Core/Autocl Bag Mt/Mld Reles | Raymond Miller, Jr | 603-926-1910 | rim@nfgsalea.com |
| PerkinElmer | Complete line of Analytical Instruments-Pyris Brand | Ron Neu | 800-762-4000 | Ronald.Neu@perkinelmer.com |
| DirdDimension | Experts in portable 3D measurement | Michael Raphael | 410-998-0880 | info@dirdim.com |
| AIRTECH | Cmpsite Tooling/Vac&Autocl Bag Mtl | Greg Brown | 615-326-0113 | Gbrown@airtechintl.com |
| AASC | Design, Mfg, Test Engineering Structures | Dawn Valero | 609-750-0335 | Dvalero@aascworld.com |

