



The Catalyst

PITTSBURGH CHAPTER
AMERICAN INSTITUTE OF CHEMICAL ENGINEERS



Volume 20 Issue 3



November, 2005

www.aichepgh.org

NOVEMBER MEETING NOTICE

Where: Duraloy Technologies, Inc.

120 Bridge Street
Scottsdale, PA 15683
724-887-5100

When: Wednesday, November 9, 2005

Time: 11:30 AM – 12:30 PM Plant Tour
1:00 PM Lunch at La Tavola, New Stanton

Menu: *Please select one of the entrees below and indicate if optional ice cream dessert is desired at additional cost.*

- **Ravioli** – *Choose meat or cheese-filled, served with choice of soup or salad.*
- **Veal Piccata** – *sautéed with capers in lemon sauce, served with a side of pasta or vegetable.*
- **Scallop Scampi** – *sautéed with mushroom in lemon-garlic sauce, served with a side of pasta or vegetable.*

Cost: \$22.00 Members
\$18.00 Students / Unemployed Members
\$24.00 Non-members
Ice cream dessert, \$2.00 extra.

Closed-toe shoes are required. Ladies should wear slacks and everyone should wear long sleeves. Hard hats and safety glasses will be provided.

**RSVP NO LATER THAN
FRIDAY NOVEMBER 4, 2005**

TO: Mr. Gary Hall, Vice-Chair
Phone: 412-963-0303, ext. 236
E-mail: gary.hall@sauereisen.com

Your RSVP must include: **Name, Company Name,
Menu Choice, Email Address, and Phone Number.**

PLEASE PAY AT DOOR

CANCELLATIONS: If you must cancel your meeting reservation, please do so no later than 48 hours prior to the meeting. Otherwise, you will be invoiced for the cost of your meal.

~ About Duraloy Technologies, Inc. ~

Duraloy has been a technology leader in engineering, design research and the development and production of high-alloy heat-resistant castings since Thomas R. Heyward, Jr., founded the firm in the 1920's. Duraloy was the first foundry in the United States to centrifugally cast high alloys for the metal-producing, heat-treating and petrochemical industries. Duraloy, as the industry leader in alloy development, was also the first foundry to add niobium to the traditional HP alloy to produce what is now an industry standard – the MO-RE 10@ alloy.

Exceptional patented and trademarked alloys developed by Duraloy, such as the MO-RE@ family of heat resistant alloys, 22H@ and Super 22H@, are still worldwide industry standards for heat resistant alloys and the alloys of choice for many heat resistant applications.

Following its acquisition in 1994 by the Park Corporation of Cleveland, Duraloy began moving ahead into the next century with new management, a dedicated work force and extensive financial resources. Their growth and expansion continued when, in 1999, the Park Corporation closed the Electroalloys Corporation facility in Elyria, OH, and merged all of the manufacturing, engineering, and technology from Electroalloys into the Scottsdale, PA production and engineering facility. The new Duraloy blends the best of both facilities, with over 120 years of engineering, manufacturing, equipment and know-how, to form a world-class design, engineering and manufacturing organization. Duraloy today is a strong, viable, international supplier of a wide variety of specialty cast alloys, products and assemblies. Duraloy's dry tunnel furnace rolls are widely recognized as the best in the world. Their petrochemical components and assemblies are installed in furnaces throughout the world. They are known for being innovative and for serving the steel, furnace builders, petrochemical and commercial heat-treating industry with cost-effective quality products, leading-edge alloys and innovative engineered solutions. *For more information on Duraloy, see www.duraloy.com*

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LETTER FROM THE CHAIR

Dear Members,

I would like to thank Dr. Ted Spickler and Dr. Paul Bowman of Bayer for presenting "Using Root Cause Analysis to Avoid the Blame Game" at the October meeting. Their presentation included four well-known case studies and was very informative about Root Cause Analysis.

Thank you to all of the volunteers who helped at the Carnegie Science Center on October 29th. Hopefully, you are still not covered in Superball resin!

Future Cities Pittsburgh is still seeking volunteers. If you have time to serve as a middle-school mentor, competition judge or competition day volunteer, please contact me.

I look forward to seeing you at the Duraloy plant tour on November 9th. This is a lunch time meeting to allow us to view the process in action.

Because there is no December meeting, I wish everyone a Happy Holiday Season.

David Missenda
AIChE Pittsburgh – Section Chair

MONTHLY MEETING

CONTINUED FROM PAGE 1

DRIVING DIRECTIONS TO DURALOY:

**Duraloy Technologies, Inc.
120 Bridge Street
Scottsdale, PA 15683**

From Downtown Pittsburgh:

Take I-376 East to Exit 15 and get into the "Exit Only" lane for the PA Turnpike (I-76). Take the PA Turnpike and travel eastbound to Exit 75 (formerly Exit 8) - New Stanton. Take Exit 75, staying left through the toll plaza. Follow the signs for Route 119 to Connellsville, Greensburg and Indiana. You will cloverleaf around under a bridge - stay to the right. Immediately upon exiting the cloverleaf, follow the signs for Route 119 South toward Connellsville. Continue on Route 119 South then take the third exit (Scottdale and Route 819). At the top of the exit ramp, bear right onto Route 819 South. Follow Route 819 South about 4 miles into Scottdale to the first traffic light. At the light turn left, follow the road across the railroad tracks and around to the left. Duraloy is on the right and the parking lot is on the left.

From the North:

Take I-79 South to the PA-228/Exit 78-77/I-76 exit toward US Route 19/PA Turnpike. Merge onto the PA Turnpike heading east. Stay on the Turnpike to Exit 75 (formerly Exit 8) - New Stanton. Exit the turnpike at Exit 75, staying left through the toll plaza. Follow the signs for Route 119 to Connellsville, Greensburg and Indiana. You will cloverleaf around under a bridge - stay to the right. Immediately upon exiting the cloverleaf, follow the signs for Route 119 South toward Connellsville. Continue on Route 119 South then take the third exit (Scottdale and Route 819). At the top of the exit ramp, bear right onto Route 819 South. Follow Route 819 South about 4 miles into Scottdale to the first traffic light. At the light turn left, follow the road across the railroad tracks and around to the left. Duraloy is on the right and the parking lot is on the left.

From the South:

Take I-79 North to Washington, PA. Then take I-70 East toward New Stanton. Stay on I-70 to New Stanton. Just east of New Stanton, follow the signs for Route 119 South toward Connellsville. Continue on Route 119 South then take the third exit (Scottdale and Route 819). At the top of the exit ramp, bear right onto Route 819 South. Follow 819 South about 4 miles into Scottdale to the first traffic light. At the light turn left, follow the road across the railroad

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MONTHLY MEETING

CONTINUED FROM PAGE 2

tracks and around to the left. Duraloy is on the right and the parking lot is on the left.

From the East:

Take the PA Turnpike to Exit 75 (formerly Exit 8) - New Stanton. Take Exit 75, staying left through the toll plaza. Follow the signs for Route 119 to Connellsville, Greensburg and Indiana. You will cloverleaf around under a bridge - stay to the right. Immediately upon exiting the cloverleaf, follow the signs for Route 119 South toward Connellsville. Continue on Route 119 South then take the third exit (Scottdale and Route 819). At the top of the exit ramp, bear right onto Route 819 South. Follow 819 South about 4 miles into Scottdale to the first traffic light. At the light turn left, follow the road across the railroad tracks and around to the left. Duraloy is on the right and our parking lot is on the left.

From the West:

Take I-70 East to New Stanton, PA. On the east side of New Stanton, follow the signs and get on Route 119 South toward Connellsville. Continue on Route 119 South then take the third exit (Scottdale and Route 819). At the top of the exit ramp, bear right onto Route 819 South. Follow 819 South about 4 miles into Scottdale to the first traffic light. At the light turn left, follow the road across the railroad tracks and around to the left. Duraloy is on the right and the parking lot is on the left.

DRIVING DIRECTIONS TO THE RESTAURANT:

La Tavola
400 S. Center Ave.
New Stanton, PA 15672
724-925-9440

Leaving Duraloy, follow the road back across the railroad tracks. At the light turn right and follow Route 819 North to the Route 119 North exit. From Route 119 North, take I-70 West (towards Washington, PA). Go ¼ mile on I-70 West and take the New Stanton exit. Stay in the left lane and at the stop sign turn left. Go three tenths of a mile and La Tavola will be on your right.

MEMBERSHIP CORNER

We are constantly updating our local membership database. Please send all change of address notifications to the Membership Chair:

Holly Gray
Michael Baker Jr., Inc.
Airside Business Park
100 Airside Drive
Moon Township, PA 15108
hgray@mbakercorp.com

If you have not already done so, please verify your updated e-mail address with us so that you will continue to receive monthly newsletters! Thank you.

Please sign me up for the local Pittsburgh Section of AIChE

Name _____

Company _____

Address _____

City _____ State _____ Zip _____

Business Phone _____

Residence Phone _____

Email _____

Annual Dues are \$16.00. Make check payable to "AIChE Pittsburgh Section" and send to the Treasurer:

Leigh Anne Wacker
AIChE Treasurer
337 Quail Run Road
Venetia, PA 15367

**NEWSLETTER DEADLINE**

**THE DEADLINE FOR THE
JANUARY NEWSLETTER IS
FRIDAY, DECEMBER 16, 2005.**

Please submit information to:

E.G. Klein

Goldschmidt Industrial Chemical Corp.
941 Robinson Highway
McDonald, PA 15057
724-796-3128
eg.klein@giccusa.com

AICHE NATIONAL NEWS

AICHE Annual Meeting - Packed with 17 topical conferences and over 600 sessions and special events, the 2005 AICHE Annual Meeting, Oct 30-Nov 4, Cincinnati, OH, will cover everything from advances in fundamentals, to the newest developments in emerging technologies including bioengineering, nanotechnology, and sustainability. Join more than 4,000 engineers and scientists from around the world. For program, registrations, and details, visit: www.aiche.org/annual.

Short Courses for Chemical Engineers - For a complete list of upcoming short courses, dates, locations, and registration information, visit: www.asme.org/education/shortco/shortcourses.htm (Note: Chemical engineering courses start with the letters "CH")

2006 – 2007 SCHOLARSHIPS

Applications are now available for up to two \$750 scholarships to be awarded by the Pittsburgh Section AICHE for the 2006 – 2007 academic school year. Sophomore and junior year chemical engineering students are eligible to apply if:

- They are enrolled in one of the following chemical engineering curriculums in the AICHE Pittsburgh Section area: Carnegie Mellon University, University of Pittsburgh, West Virginia University, or Youngstown State University
- They are enrolled at any AICHE-accredited chemical engineering curriculum in the United States provided that the student is the son or daughter of a member in good standing of both AICHE and the Pittsburgh Section AICHE.

The deadline for submission of an application is January 20, 2006. Scholarship recipients will be notified by February 17, 2006.

For more details or to print a copy of the application, visit www.aichepgh.org.



SPONSORSHIPS

Interested in placing your company's information in future AIChE Newsletters?

Full Page	\$300
Half Page	\$175
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Place multiple sponsorships and receive a discount!

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Eight consecutive ads – 30% off

Contact E.G. Klein at eg.klein@giccusa.com or 724-796-3128 for more information.

ENGINEERING VOLUNTEERS

Volunteers are needed for the Future City Pittsburgh Competition!

The Pittsburgh Region is beginning its seventh year in the National Future City Competition. The number of Middle schools that have registered in the Pittsburgh Regional Competition has grown each year. The Competition's growth is testimony to the program's unique capacity to challenge students to learn and test new concepts related to engineering and city planning, to apply the mathematics and science they have already learned, to explore their imaginations about what our cities will be like in the future, and to build an example of the result using ingenuity and their own hands. However, another important facet of the Pittsburgh Regional Future City Competition that has allowed it to expand is the associated growth of a cadre of dedicated volunteers. Without volunteers, there would be no competition.

Please volunteer as a Presentation Aide or Judge. During November and December, judges will review the SimCity files and essays.

On Saturday, January 21, 2006 the Pittsburgh Regional Competition will be held at the Carnegie Music Hall in Oakland. Based on past experience, we anticipate the need for more than 120 volunteers to fill the positions of Essay Judges, Registrars, Model Movers, Room Manager/Timers, Score Keepers, Special Awards Judges, Presentation Judges, Exhibit Area Controllers, Still and Video Camera Operators, and Public Relations Coordinators. Orientation meetings for Presentation Aides and Judges will be held as needed in early January, with the goal of identifying all volunteers and making assignments by January 3, 2006.

We welcome your help; just add your name to our 2005 – 2006 Volunteers List. To qualify as a Presentation Judge, you must have judged previously or have attended a Judge Orientation meeting.

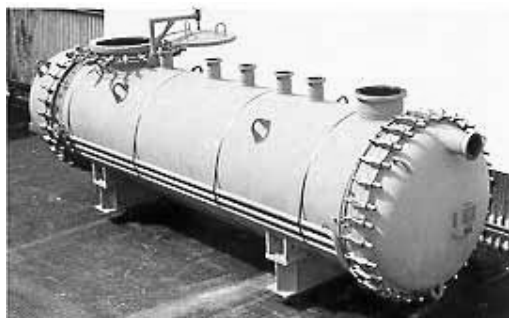
To register as a volunteer, complete the Volunteer Registration Form available by visiting:

www.futurecitypittsburgh.org/futcityvolunteer_form.htm

Additional information is available by visiting:

www.futurecitypittsburgh.org

If you have questions, call Bill Pruss at 412-273-7100



estrella

Esterella USA

51 N. Towamencin Ave.

Lansdale, PA 19446

tel: 215-368-9299

fax: 215-368-9204

email: info@EstrellaUSA.com

Glass-Lined Equipment:

Columns (1" thru 72" dia.)

Custom Tanks (to 6,500 gal)

Pilot Plant Reactors

Vacuum Receivers

Nutsche Filters (to 60" dia.)

Shell & Tube Heat Exchangers

Condensers

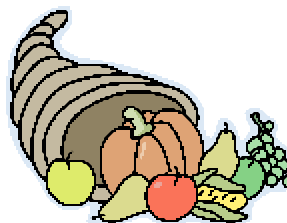
Cyclone Separators

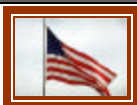
Multi-Nozzle Manifolds

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Pipe & Fittings (1/2" – 48" dia)

*YOUR PITTSBURGH SECTION AIChE
OFFICERS AND COMMITTEE CHAIRS
WOULD LIKE TO
WISH YOU A
HAPPY THANKSGIVING!*





AICHE PITTSBURGH SECTION 2005-2006 OFFICERS

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(412) 503-4620

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PE Review: Carl Schwartz

Web Master

Richard Dupree (rrd@dupreeonline.com)
Dupree & Associates
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2005-2006 Monthly Meeting Schedule

Date	Topic	Location
November 9, 2005	Duraloy Technologies Plant Tour	Scottdale, PA
January 19, 2006	Joint Meeting with AWMA	Penn Brewery - Pittsburgh
February, 2006	Annual Student Night	University of Pittsburgh - Oakland
March, 2006	Technical Presentation	TBA
April, 2006	Plant Tour	TBA
May, 2006	Last Meeting of the Year	TBA

Mark your Calendars!

For the Following Dates:

November 9, 2005	Monthly Meeting	Duraloy Technologies Plant Tour
January 19, 2006	Monthly Meeting	Joint meeting with AWMA – Penn Brewery
February 24–25, 2006	Outreach Event	National Engineer's Week – Carnegie Science Center



The Catalyst

American Institute of Chemical Engineers
337 Fourth Avenue
Pittsburgh, PA 15222-2097

Visit us on-line at www.aichepgh.org



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