

THE SHAKEOUT



Piedmont AFS Chapter

www.afspiedmont.org



August 2013

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Hello AFS Piedmont Chapter Members and Friends,

I hope everyone has had a nice summer and have enjoyed the unusually cool wet summer weather here in the Southeast. It will not be long before fall is here and we will be back in full swing of attending our meetings, learning from the technical sessions and enjoying the fellowship of being together.

However before we look at this year's meeting schedule line up I would like to take a moment and thank several people for the service to the Piedmont Chapter, AFS and the metal casting industry. Once again Don Brown did a masterful job of coordinating the May outing held at Waynesville Inn. We had a very nice turn out for our last meeting of the year and I'm sure we all thank Don for his efforts. Second I wish to thank James Sturgeon for his leadership as Chairman last year. We are able to accomplish many things but maybe the most important was the success of the Southeast Regional Conference. Thank you James for your service. Regarding the Southeast Regional we cannot forget to congratulate and thank Ted Kostilnik for his leadership and organizing of this tremendously successful event. I am sure we all enjoyed our time there. Thank You, Ted. Finally I would like to thank Mike Selz for his leadership and service to the AFS National Organization as President. Please read the letter from Mike enclosed in this Shakeout edition. Thank you again for your service to the Piedmont Chapter and AFS and our industry.

Looking at the meetings we have lined up for 2013/2014, I believe these will provide our members desired information on a variety of topics that will aid them in efforts to be efficient, profitable and provide for sustainability into the future. The September meeting is just around the corner so sign up early, please see the meeting notice for more details and registration form. This meeting is focused on energy management and conservation. Donald McLain has organized this meeting and lined up speakers with a variety of backgrounds and expertise with in the energy industry. They will share their knowledge with us on theory and practical applications. Also presenting is The Charlotte Pipe Energy Management Team, who will highlight their initiatives and lead the tour demonstrating their successes. With the growing cost of all types of energy and how it affects the bottom line, we hope you will join us and take home new ideas on how to effectively manage your energy consumption.

The November meeting is setting up to be an exciting event. It will be held in Greenville, SC and focus on melting and process control Mike Looby is organizing this event for us and we all look forward to learning more about this very important topic. In January we will be meeting in the Pineville/Mathews NC area and will be discussing a variety of topics pertaining to new technologies and the foundry industry. Dave Sherman has confirmed we will be touring Conbraco Foundry in Pageland which I am sure will be interesting for all. The March meeting will once again be held in Blacksburg, VA and the main theme will be Environmental and OSHA Regulations and their affect on the foundry industry. Finally, the May meeting will be here before you know it and we all look forward to another excellent event enjoying everyone's company. Please see meeting schedule in the Shakeout for more details and check our website often for future updates.

Just a few more things to think about as you are making plans to attend this year's meetings. Try to bring a friend of the industry or co-worker with you to each event, introduce them to our members and encourage them to join the AFS. I cannot think of a better way to grow the Piedmont Chapter and the AFS National Organization than by YOU demonstrating your enthusiasm for the good work we do. Be sure to sign up for each meeting by the deadline posted on the Meeting Notice to avoid the late fee, this also helps us plan better and be more cost effective. Finally, as you can see we have an exciting line up for this coming year and I look forward to seeing all at the meetings.

Best Regards

Greg Southerland

AFS Piedmont Chapter Chairman

**Plan to Attend
The September Meeting
Of
The AFS Piedmont Chapter
Sept 25th 2013 at Charlotte Pipe**

**The technical session will benefit Owners, Management, and
all with an interest in their foundries SUSTAINABILITY.**

September's meeting maybe the most important one you attend all year. We will have representatives from Energy providers and consultants addressing real world solutions and will demonstrate actual applications of successfully managing energy consumption.

We all know that the cost of energy will only increase in the future. Start preparing for this now by exploring concepts and new ideas that have proven successful at other foundries.

Brian Reinke is the AFS lead consultant on many of the national committees. He will share with you the results of these committees and how to implement them into your operation.

Michael Stow will review his efforts with Charlotte Pipe Energy Team and how you can work towards similar results.

Charlotte Pipe Energy Team is going to give us the real life examples of their cost savings efforts.

This is the type of information that can save you Money now and in the future.

The Dinner Speaker will be Redmond Clark PhD. and as always he will provide critical insight to the world of Energy from a global perspective.

For more information on AFS Energy Conservation and management efforts visit the AFS website under Technical and Management and click on energy.

<http://www.afsinc.org/technical/content.cfm?ItemNumber=7119&navItemNumber=612>

There is a wealth of information here to help you develop your own energy and management sustainability program.

SEE YOU THERE.

AFS PIEDMONT CHAPTER MEETING REGISTRATION
September 25, 2013
Charlotte, NC

Hotel and Dinner Meeting

Embassy Suites
4800 South Tryon St.
Charlotte, NC 28217
704-527-8400
Fax 704-527-4383

Technical Session and Board Meeting

Charlotte Pipe Product Knowledge Building
632 West Summit Ave
Charlotte NC 28208
Note: The training center is located on Charlotte
Pipe Complex. See guard at main entrance for parking and
building information.

** Please make your reservations by September 9, 2013 to receive AFS room rate **
Room Rates: \$139/night (mention AFS Piedmont Chapter)

Meeting Topic: Understanding “Energy Management” in the Foundry

- **Real case examples**
- **Detailed steps to follow**
- **How energy providers can assist your efforts**
- **Consultants that deal with this task from energy to Natural gas consumption**

Wednesday, September 25

8:00 - 8:30 am	Meeting Registration
8:30 - 9:45 am	Brian Reinke – AFS Energy Solutions and Initiatives
9-45 - 10:15 am	Duke Power - How can we help you save?
10:15 - 10:30 am	Break
10:30 - 11:45 am	Michael Stowe- Energy efficiencies in Foundries and Melting
11:45 - 12:30 pm	Charlotte Pipe’s Energy Team – Real Case examples and findings
12:30 - 1:30 pm	Lunch on your own
1:30 pm	Tour of Charlotte Pipe and Foundry (Closed toed shoes required)
3:30 – 5:00 pm	Chapter Board meeting- Charlotte Pipe (Product Knowledge Bldg)
6:00 - 7:00 pm	Social Hour Embassy Suites
7:00 pm– 9:00 pm	Dinner and Speaker Redmond Clark PhD.

PLEASE PRE-REGISTER by September 17

Meeting Cost: \$95.00 (members)

Make checks payable to: AFS Piedmont Chapter (no credit cards please)

Late registration fee: add \$10.00 after September 17

Mail registration form and payment to:

Jeff Gallagher
Piedmont Foundry Supply
PO Box 87
Cloverdale, VA 24077

Member Name _____

Attending Dinner? Y N

Attending Tour? Y N

Through the Chairs ... In the blink of an eye!

I have been asked on several occasions to recount my experience as AFS President now that I am "Immediate Past President." As the title of the article indicates, it seemed like time passed at warp speed. I was traveling through eastern Virginia on my way to Culpepper when Henry Lodge caught up with me via phone to ask my interest in going through the chairs at national; I am rarely speechless but the phone line was quiet for what seemed like an eternity. To say the least, I was both honored and humbled at the invitation. I think there is a tendency by those who are asking you to serve, to "stretch the truth" some with regard to the time commitment actually required so as to be sure to pique your interest. To make the commitment, obviously, I needed the support of Charlotte Pipe and Foundry management and employees and got it without question.

I think one of the most gratifying parts about having the opportunity to serve the industry as AFS President was getting the chance to work with so many talented and dedicated people ... and that began with my affiliation with people at the Chapter and Regional level. I gained a much better understanding of what really drives our Society from a technical perspective. Division Council is the keystone for pulling together all the elements of our industry that impact our membership. Committee work is the backbone of technical transfer for our industry and without our Committees we wouldn't have Cast Expo or Casting Congress. We have a lean staff at national, with excellent leadership, who work tirelessly for the membership of AFS and who are committed to keeping our organization strong.

The importance of the Chapter and Region structure becomes more evident as you have the chance to work with the AFS Board on major issues which can directly affect the membership. Communication is critical and dedication to the common goal is an imperative. You realize that the survival of an industry that is so critical to the manufacturing sector relies on pulling together people and resources behind the efforts of sustainability and good stewardship. You also realize that you are merely the caretaker of the office and responsible for successfully passing the baton your successor. It was a great experience ... and I thank everyone, especially those in the Piedmont Chapter and Region 4, for their support during my term as AFS President.



Mike Selz
Immediate Past President - AFS

Calling All Hands on Deck!!!!!!

If you are a new member of the AFS Piedmont Chapter, or you are a long time member looking for a cause to volunteer your time towards, then you are most welcome to let your interests be known!

Please don't be shy or worse yet assume that you don't have the skills or the time to do any volunteer SERVICE for your Chapter.

Make contact with any of your Chapter Officers or Directors listed on the front cover page of this newsletter and let us know you are interested in stepping forward! It doesn't take a lot of time, and it usually doesn't cost anything. This would even be a great way to participate in the activities of your Chapter even if you are unable to attend the scheduled meetings throughout the year.

We have a multitude of activities this year and we are not ashamed to ask for HELP. We are hosting the Southeast Regional Conference, we have meeting arrangements to be cared for, we have a mission of Member Outreach to accomplish, etc. With the use of modern technologies, anyone can participate no matter where you are!

“Volunteering” is much better than being “Assigned” to do something. It is much more rewarding!

DON'T SIT ON THE SIDELINES – BE AN ACTIVE CHAPTER MEMBER!!!!

Support the Chapter's Mission of Education

Your Chapter website address is www.afspiedmont.org

Several companies have found value in being a Sponsor of the Chapter Website and by doing so have their company name and other key information shown on a special page of the Chapter Website.

The support received through monetary donation by the companies sponsoring the website is 100% used to further the Mission of Education that your Piedmont Chapter is dedicated to.

Metal Casting producers and Suppliers are invited and encouraged to participate in this worthy cause. The cost is minimal and the benefits can be tangible.

Please consider showing your support for the activities of your Piedmont Chapter by becoming a Website and Education Program Co-Sponsor.

Getting started is easy! Just contact either David Simms or Ryan LaCoursiere and they will take very good care of you!!

The future employees, managers, and owners in this metal casting industry are looking for you- and they don't use the Yellow Pages. They surf the NET, and linking up through the Piedmont Chapter will help them find you!!

Piedmont Chapter Education Report

August 2013

“Progress through Education”

By: Paul Huffman

First allow me thank the Piedmont Chapter for again giving me the opportunity to serve the Board and Membership this year as your Education Chairman. If any member has any suggestions or would like to assist in our education efforts please contact me at phuffman@dom-met.com. I am looking forward to the year as we continue our educational efforts this year.

Scholarships

Our Piedmont Board has voted to continue our High School Scholarship program. These scholarships are available to graduating high school seniors of Piedmont Chapter members in good standing. Look for the scholarship application in our mid-year Shakeout.

Our Board has also voted to continue active scholarship support to students enrolled in the VT FIRE program. Last year our Chapter saw firsthand the quality of students' enrolled and the overall progress in the program. Through the efforts of VT FIRE a total of 9 graduates entered our industry this past year. Seven of these received scholarships from the Chapter during their time at Va. Tech. The position titles of our recent graduates were Quality Engineer (2), Assistant Foundry Manager, Product Engineer, Plant Metallurgist, Process Engineer (2), Management Trainee and Sales Engineer.

Finally, our Board has voted to continue support for the Foundry Education Foundation (FEF) in its mission to strengthen our industry by helping today's students become tomorrow's leaders. The VT FIRE program at Va Tech is one of only 19 certified programs in North America. This year's FEF contact is Libby Ryder, Foundry Metallurgist at Graham-White Mfg. Co.

Internship Opportunities

This past summer we had 6 VT FIRE students complete internships in our industry. The companies participating were Newport News Shipbuilding, Bradken Kansas City, RTI, Graham White and Grede Castings.

This year we plan to continue to be active in identifying and assisting students who have a desire to participate in internships in the metal casting industry. If your company would like to explore this opportunity please contact me for further details. We again plan to hold our March 2014 chapter meeting at Va Tech. This would be a wonderful time to schedule interviews for summer internships or full time employment for your organization.

Foundry in a Box

Many members may not be aware that our Chapter developed a “Foundry in a Box” several years ago. This self-contained foundry is set up to cast very low melting alloys using a permanent mold or sand mold. We have used this to demonstrate the metal casting process to students in elementary and middle schools, Montessori school programs, Boy Scout troops and science fairs. Students at Va Tech have even used this for various outreach programs. It is available for use to any Piedmont Chapter member. If you have any interest please contact either James Sturgeon or myself for the details.

Piedmont Chapter Pledges Continued Support for VT FIRE

On June 27, 2013, Paul Huffman and Greg Southerland presented a \$24,000 check to Va Tech College of Engineering Dean Benson as a first installment of their new \$40,000 pledge in support of VT FIRE and the foundry at Virginia Tech. The AFS-Piedmont Chapter initially kicked off the VT FIRE project back when the foundry was still in the planning stages with a \$45,000 pledge, which was fulfilled in 2012. Pictures below are Dr. David Clark (MSE Dept. Head), Greg Sutherland (Piedmont Chair), Dean Richard Benson (COE Dean), Paul Huffman (Piedmont Education Chair) and Dr. Alan Druschitz (VT FIRE Professor).



Dean Benson shows off his VT FIRE polo

VT FIRE Update

It has been a busy summer for our VT FIRE program. Two high school teachers spent five weeks in the foundry on a National Science Foundation Research Experiment grant. They learned how to mold, melt and pour metal castings. The experiences attained during their summer will be used in their classrooms and curriculum as they return to teaching this fall.

Two undergraduate students, Beck Giesy (Mathematics) and Veronica Kimmerly (Chemical Engineering) spent 10 weeks working on developing a technique to incorporate carbon nanotubes produced from wood fiber into steel. Their efforts concentrated on roll bonding and forge welding. Forge welding was performed using a 100 lb. ductile iron anvil cast at VT FIRE and machined at Grede Radford. The pattern was produced by VT FIRE alumni Adam Humphrys.

Another research project was performed by Electrical Engineering student Rachael Born. Rachael learned how to print patterns, mold and cast aluminum during this project.

The foundry was also used by an area high school student as well as presentations to STEP students (Student Transition Engineering Program). During the summer we cast our largest steel heat to record at 240 lbs. The induction furnace performed flawlessly at 100% power.

This fall's classes continue to be in strong demand. Courses offered this fall include Foundry Safety, Elemental Metal Castings and Physical Metallurgy of Metal Castings. We have two groups of three students each conducting senior research projects. One project involves steel casting while the second involves Hastelloy castings and is supported by Dominion Metallurgical. These are in addition to the graduate work currently ongoing.

We now have a number of special opportunities available for our VT FIRE students working with Industry and Technical Societies. Steel Dynamics has again engaged us to continue our work on safety at their Roanoke, Va. mill location. There is an AIST Steel Curriculum project and an NACE International Sacrificial Anode research project.

Our VT FIRE professor, Dr. Alan Druschitz, continues to stay active on the national scene. Dr. Druschitz is co-organizer and session chair for the "Advances in Metal Casting Technologies" program being held at MS&T's 2013 Montreal conference. VT FIRE alumni and Piedmont scholarship recipient Ruthie Kay will be making a presentation at this conference.

Finally we will hold our second Industrial Advisory Board at VT FIRE on October 3, 2013 and hope to have a strong turnout at this year's FEF conference in November.

Birmingham Chapter
2013-2014 Meeting Schedule

Date Event Location Tentative Speaker

Sat, August 24, 2013 Picnic & Mountain View Golf Outing Golf

Mon, September 9, 2013 Regular Meeting Anniston Bob Smith, President Lee Brass

Mon, October 14, 2013 Regular Meeting Wynfrey Hotel George Houghton, Senior Engineer Carbide Industries

Mon, November 11, 2013 Regular Meeting Wynfrey Hotel Sharon Lovoy “Generations in the Workplace”

Mon, December 9, 2013 Christmas Party Wynfrey Hotel

Mon, January 13, 2014 Regular Meeting Wynfrey Hotel Bob Zeeb, VP Operations— U.S. Pipe

Mon, February 10, 2014 Regular Meeting Meridian, MS TBA

Mon, March 10, 2014 Regular Meeting Wynfrey Hotel TBA

Mon, April 14, 2014 Regular Meeting Wynfrey Hotel TBA / Student Casting Comp.

Mon, May 12, 2014 Regular Meeting Wynfrey Hotel Past Chairman & Awards

Check Birmingham Chapter Website <http://afsbirmingham.org/wp/> for more details about the meetings.

AFS Southeast Regional Conference

Hosted By Tennessee Chapter

April 23rd thru 25th in Chattanooga, TN.

Please check Tennessee Chapter website for more details on the Regional Conference and full listing of their meeting schedule. <http://www.afs-tn.org/>

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AFS Piedmont Chapter Officers – 2013 – 2014

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AFS Personal Membership Application

Fax application to 847/824-7848

- Personal \$100
 Corporate Individual \$65
 Teaching Associate \$60
 Retired \$20
 Student \$15
 International/Technical \$185

Personal and Company Information

Name _____ Job Title _____

Company/School Name _____ Department _____

Business Address _____ P.O. Box _____ Bus. Phone () _____

City/State/Province _____ Zip+4 _____ Fax () _____

Home Address _____ Home Phone () _____

City/State/Province _____ Zip+4 _____ E-mail _____

DOES YOUR COMPANY OPERATE A METALCASTING PLANT OR DEPARTMENT? YES NO

I desire affiliation with the following AFS CHAPTER _____ Application Sponsored by _____

Company Data

1) In the box below, please indicate from the list below the code that best describes the primary business of your company:

- | | |
|--|--|
| A. Producer of Metal Castings
(foundry, diecaster, etc.)
B. Pattern and Tooling Shop
C. Supplier of Metalcasting Equipment,
Raw Materials or Services
D. Consultant/Consulting Engineer
Choose Only One <input type="checkbox"/> | E. Research Institute/Testing Lab
F. Casting User/Designer/Buyer
G. Educational Institute/Faculty/
Students/Library
H. U.S./Foreign Government/Military
O. Other _____
<i>(i.e., Association/Public Utilities/
 Trade/Technical)</i> |
|--|--|

2) In the boxes below, please indicate from the list below the three primary metals in which your firm is involved:

- | | | |
|--|---|--|
| A. Iron
B. Steel
C. Aluminum
D. Copper-Base (brass, bronze, etc.) | E. Magnesium
F. Zinc
O. Other _____
<i>(i.e. Nonferrous metals-please specify)</i> | Choose Up
To Three <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
|--|---|--|

Job Data

3) In the box below, indicate the category that best describes your job title:

- A. Corporate Executives (Presidents, Vice Presidents, Owners, General Managers, Directors)
- B. Purchasing
- C. Production Management (Plant Managers, Foundry Superintendent, Assistant Superintendents or Other Production Management Personnel)
- D. Production Foreman/Supervisor & Engineering (Chief Engineer, Foundry Engineer, Plant Engineer or other Production Engineering Personnel)
- E. Quality Control (Metallurgists, Technical Directors, Chemists, Inspectors & Lab Technicians, Research Engineers, Sand Engineers & All Other Foremen & Supervisory Quality Control Personnel)
- F. Sales, Marketing & Office Personnel
- O. Other (please specify) _____
- Choose Only One

4) In the boxes below, indicate from the list below the one code that best describes your job responsibility:

- | | |
|--|---|
| A. Administration/Management
B. Casting Buyer/Designer
C. Cleaning/Finishing/Shipping
D. Computer/Data Processing
E. Cost Estimating
F. Coremaking
G. Environmental/Safety
H. Finance/Accounting
I. Gating & Risereng
J. Heat Treating
K. Industrial Engineering
L. Machining
Choose Up
To Three <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | M. Maintenance
N. Molding
O. Metallurgy
P. Molding
Q. Patternmaking
R. Personnel Management
S. Procurement
T. Production Scheduling
U. QC/QA/Test/Inspection
V. Research
W. Sales/Marketing
X. Sand Control
Y. Trainee/Apprentice |
|--|---|

Payment Information

CHECK FOR \$ _____ ENCLOSED CHARGE TO American Express MasterCard VISA
(U.S. funds only)

The following information is required in order to charge your membership

Account No. _____ Exp. Date _____

I wish to receive MODERN CASTING monthly. YES NO Send Mail to Firm Home

IMPORTANT: To receive MODERN CASTING, application must be signed and YES box checked above.

DATE _____ SIGNATURE _____

Phone: 847/824-0181 • 800/537-4237 • Fax: 847/824-7848 • www.afsinc.org



Return completed application to:
 American Foundry Society
 35169 Eagle Way
 Chicago, IL 60678-1351

	Date	Opr
Pld # _____ / _____ / _____		
Cld # _____ / _____ / _____		



**MARK YOUR CALENDARS NOW
TO MAKE THESE 2013-2014 CHAPTER MEETINGS**



**Piedmont Chapter Meeting Schedule
2013/2014 Meeting Schedule**

Date	Location	Topic	Tour
Sept 25 / 26	Charlotte NC	Energy Conservation	Charlotte Pipe
Nov 20 / 21	Greenville SC	Melt Process Control	TBA
Jan 29 / 30	Pineville NC	New Technologies	Conbraco Pageland
March 26 / 27	Blacksburg VA	Safety and Environmental	TBA

Shakeout Newsletter

Please send announcements, news about members, committee reports, or any items of interest for the Shakeout to:

Shaun McGuirt

Charlotte Pipe & Foundry Co.

P.O. Box 35430

Charlotte, NC 28235

E-mail: smcguirt@charlottepipe.com

Deadline for Articles in the next ShakeOut: October 1, 2013