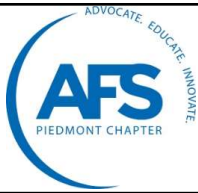


THE SHAKEOUT



Piedmont AFS Chapter

www.afspiedmont.org



DECEMBER 2019

Letter From The Chairman

AFS Piedmont Chapter and Friends,

As we close out another year it is always good to reflect on where we have come and where we are going. This year we have begun to see new members wanting to step into new roles within the chapter leadership and help shape the direction of the chapter. We have a new FEF affiliated foundry program within our chapter, and students at GA Southern University have formed a student chapter of AFS and have begun attending our meetings. Virginia Tech students continue to grow their student chapter and continue to be actively involved in our chapter meetings as well.

As we celebrate the beginning of a new year, we look forward to many more opportunities for our chapter to grow. We will host our first meeting of 2020 on January 22 in Columbus, GA. The full day of technical talks will be centered around a topic of charge materials and metallurgy. This will not only be a chance for us to reach out to our members in southern and western Georgia, but will also give us a chance to invite members of the neighboring Birmingham Chapter to join us. I believe this is going to be a great meeting.

I wanted to especially thank Metaltec and Metal Energies for becoming an Annual Premium Sponsor of our chapter. This includes meeting sponsorship at every meeting as well as a year of website sponsorship. We are thankful for all of our sponsors and for everyone that donates their time and resources to help our chapter fulfill its goals. Please be sure to visit the Sponsors page on our website and click on the images to check out their websites.

And, as always, thank you very much to every one of our board and committee members. The work you put into this chapter is greatly appreciated. The success of this chapter is because of the voluntary work you all put in.

Shawn McKinney
AFS Piedmont Chapter Chairman

Chairman

Shawn McKinney
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Second Vice Chairman

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(704)348-5407

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Specialty Foundry Products

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James Sturgeon
Conbraco Industries Inc.

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Carolina Metal Casting
Robbie Gallagher
Piedmont Foundry Supply, Inc.
Ted Kostilnik
Specialty Foundry Products

Directors (Term Expires 2021)

Haley Hollifield
Carolina Metal Casting
Glen Huneycutt
Charlotte Pipe & Foundry Co.
Peter Kim
FerroGlobe

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Foundry Solutions & Design

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Inductotherm Corp.

Education Chairman

Paul Huffman
Dominion Metallurgical, Inc.

Registration Chairman

Haley Hollifield
Carolina Metal Casting

Publicity Chairman

Bill Matarazzo
Foundry Solutions & Design

Program Co-Chairs

Jeff Gallagher
Piedmont Foundry Supply, Inc.
Robbie Gallagher
Piedmont Foundry Supply, Inc.

Past Chairman

Michael Stowe
Advanced Energy.



AFS PIEDMONT CHAPTER MEETING REGISTRATION

January 22-23, 2020

Columbus, GA

Hilton Garden Inn Columbus

1500 Bradley Lake Boulevard, Columbus, GA 31904

Rate \$104/Night standard 1 king or 2 double room

Call for reservations: (706) 660-1000



Hilton
Garden Inn

Or reserve online:

<http://hiltongardeninn.hilton.com/en/gi/groups/personalized/C/CSGGHGI-AFS20-20200121/index.jhtml>

If this link does not work, copy and paste it into your internet browser.

****MUST BOOK BY January 3, 2019****

Meeting Topic: Charge Materials and Metallurgy

Wednesday, January 22

- | | |
|------------------|--|
| 8:00 – 8:30 am | Meeting Registration at the hotel |
| 8:30 – 9:15 am | <u>Demystifying Charge Materials</u> – Peter Kim, Globe |
| 9:15 – 10:00 am | <u>Steel Scrap Issues in the Cast Iron Process</u> – T. J. Silvers, Mueller Water Products |
| 10:00 – 10:15 am | BREAK |
| 10:15 – 10:45 am | <u>Alloy Production</u> – Brandon O'Steen, Specialty Foundry Products |
| 10:45 – 11:30 am | <u>Adjusting Alloys to Meet Material Specs</u> – Andy Ondek, Grede Biscoe |
| 11:30 – 1:00 pm | Lunch on your own |
| 1:00 – 1:45 pm | <u>Adding Alloys into the Furnace</u> – Paul Taylor, GIW |
| 1:45 – 2:30 pm | <u>Using XRF Guns for Foundry Scrap Processing</u> – Mike Jeffers, ACIPCO |
| 2:30 – 3:00 pm | <u>TBD</u> |
| 3:00 – 4:00 pm | AFS Piedmont Chapter Board Meeting |
| 6:00 – 7:00 pm | Social Hour at the Hotel |
| 7:00 – 9:00 pm | Dinner at the Hotel |
| 7:30 – 8:15 pm | Dinner Speaker: TBD |

Thursday, January 23

- | | |
|---------|--------------------|
| 9:00 am | Tour of TBD |
|---------|--------------------|

Welcome to the 2020 Southeast Regional

March 11-13, 2020

Chattanooga, TN



The 2020 Southeast Regional is March 11th through March 13th, 2020, at the Read House Hotel in Chattanooga, Tennessee.

Our regional will be focused on successful cost improvement projects to lower scrap, improve productivity, and increase margins. Presenters will discuss their project, methods, and impact on their company.



The Read House offers many amenities like a 1920's themed bar, billiards room, pool, athletic facility, the Bridgeman's Chop House, and more. With spacious rooms and a view of downtown, the Read House is the perfect place to stay. The Bridgeman's Chop House is available for a formal dining experience. For more information, please register for the hotel at <http://bookings.ihotelier.com/bookings.jsp?groupID=2563431&hotelID=97530>.

We strongly encourage attendees to register for golf at Black Creek Club in advance through AFSTNSER@gmail.com. The golf course has limited space and will fill up fast. Known for its ranking in the top 100 Best Residential Golf Courses and designed by a Golf World Architect of the Year, Brian Silva. The Black Creek Club offers an incredible experience of the highest caliber. Food and beverages will be provided with registration thanks to the generous donations from our sponsors.



We look forward to your visit to the Scenic City!



Register for the Regional

Registration for Events

Name of Attendee: _____

Affiliated Company: _____

Please Check Selection(s):

Amount:



Regional Registration

Registration for both receptions, presentations, and lunch between presentations.

\$275 Early Bird
\$325 After February 1st



Golf Registration

Golf at the Black Creek Club
Lunch and beverages thanks to sponsors
Teammate #1 _____
Teammate #2 _____
Teammate #3 _____

\$135 Early Bird
\$155 After February 1st



Spouse/Partner

Includes breakfast the morning of presentations, invitation to both receptions, and a gift card to use for enjoying the splendors of the Scenic City!

\$150 Early Bird
\$175 After February 1st

Total Amount for Registration for the 2020 Southeast Regional:

\$

We look forward to your visit to the Scenic City!



How to Register

Follow 4 easy steps to become established as an attendee for the 2020 Southeast Regional in the beautiful city of Chattanooga, TN!

1. Attendees, please make checks payable to:
AFS Tennessee Chapter
2. Please attach completed registration checklist with the name of the attendee to the checks and emails.
3. Mail Checks to:
Karen Dunegan
Eureka Foundry
PO Box 6039
Chattanooga, TN 37401
Dune4of5@aol.com
(423) 267-3328 ext. 30
4. Reserve your stay at the Read House:
<http://bookings.ihotelier.com/bookings.jsp?groupID=2563431&hotelID=97530>



We look forward to your visit to the Scenic City!

The American Foundry Society's 87th Southeast Regional 2020

Hosted by the Tennessee Chapter at the Read House in Chattanooga, Tennessee

"New idea for Cleaning Room in Job Shops"



Doug Imrie

President, Southern Cast Products, Jonesboro, Ark.

Graduated from Missouri – Rolla, Metallurgical Engineer in 1987. Worked in four foundries before buying Southern Cast Products in 1998.

Mr. Imrie has reduced cleaning room costs and improved working conditions by adding an Abrasive WaterJet since he was at Missouri – Rolla. He will give some history on the development and review the project from a cost, ergonomics, and capital viewpoint.



For more information, please visit to our webpage:
www.afs-tn.org

The American Foundry Society's 87th Southeast Regional 2020

Hosted by the Tennessee Chapter at the Read House in Chattanooga, Tennessee

"The Advantage of 3D Printed Tooling"



Tom Renk

President, Alliant Castings, Winona, Minnesota

Obtaining his BS degree from Iowa State University, Renk has 30 years of professional Metalcasting experience. His casting career began at the American Foundry Society (AFS) as a Software Development Engineer. During his tenure at AFS he improved existing casting software, taught software related classes, and did contract solidification modeling. After 4 years at AFS, Renk worked as a Foundry Engineer for Maynard Steel in Milwaukee, WI. In 1995, Renk was hired by American Metalcasting Consortium (AMC) as an Applications Engineer. While at AMC, Renk worked with the United States Department of Defense and private defense contractors to optimize casting costs and processes of various military castings.

In late 1996 Renk was presented with the opportunity to rejoin the family business, Alliant Castings as a Foundry Engineer. During his 23-year career with Alliant Renk has held various positions including foundry engineer, technical manager, operations manager, sales manager and his current role as head custodian.

Welcome to the 2020 Southeast Regional

March 11-13, 2020

Chattanooga, TN



The 2020 Southeast Regional is March 11th through March 13th, 2020, at the Read House Hotel in Chattanooga, Tennessee.

Our regional will have multiple accommodations for vendors: lunch with vendors, two receptions to display sponsors, golf at the distinguished Black Creek Club, and table tops for vendors complete with vendor punch cards!



The Read House offers many amenities like a 1920's themed bar, billiards room, pool, athletic facility, the Bridgeman's Chop House, and more. The Bridgeman's Chop House is a perfect location to bring customers for dinner, and the billiards room can be rented for private social events. For more information, please register for the hotel at

<http://bookings.ihotelier.com/bookings.jsp?groupID=2563431&hotelID=97530>.

We strongly encourage attendees to register for golf at Black Creek Club in advance through AFSTNSER@gmail.com. The golf course has limited space and will fill up fast. Known for its ranking in the top 100 Best Residential Golf Courses and designed by a Golf World Architect of the Year, Brian Silva. The Black Creek Club offers an incredible experience of the highest caliber.



We look forward to your visit to the Scenic City!



Sponsor the Regional

Sponsoring Company:

Booklet Sponsorships

Please Check Selection(s):	Ad Size:	Donation Amount:
<input type="checkbox"/> Standard	3-1/4" w x 2" h	\$200
<input type="checkbox"/> Half Page	3-1/4" w x 4-1/4" h	\$300
<input type="checkbox"/> Full Page	3-1/4" w x 8 1/4" h	\$425
<input type="checkbox"/> 2 Page	6-1/2" w x 8-1/4" h	\$700
SOLD Centerfold	6-1/2" w x 8-1/4" h	\$750
SOLD Cover- Front Inside	3-1/4" w x 8-1/4" h	\$550
SOLD Cover- Back Inside	3-1/4" w x 8-1/4" h	\$550
SOLD Cover- Back Outside	3-1/4" w x 8-1/4" h	\$550

Event Sponsorships

Please Check Selection(s):		Donation Amount:
<input type="checkbox"/> Hospitality	Company logo displayed at every reception	\$500
<input type="checkbox"/> Golf Hospitality	Company logo displayed at golf event (limit 5)	\$500
<input type="checkbox"/> Table Tops	Table top, lunch with vendors, and punch cards	\$250

Individual registration required for table top participation.

Total Amount for Advertising and Sponsorships:

\$

We look forward to your visit to the Scenic City!



How to Sponsor

Follow 4 easy steps to become established as a sponsor for the 2020 Southeast Regional in the beautiful city of Chattanooga, TN!

1. Sponsors, please make checks payable to:
AFS Tennessee Chapter
2. Please attach completed sponsorship checklist with the name of the sponsor company to the checks and emails.
3. Mail Checks to:
Karen Dunegan
Eureka Foundry
PO Box 6039
Chattanooga, TN 37401
Dune4of5@aol.com
(423) 267-3328 ext. 30
4. Please send artwork/sponsor logos to the regional:
2020SoutheastRegional@gmail.com



Note: Registration for the 2020 Southeast Regional is NOT included

We look forward to your visit to the Scenic City!

Piedmont Chapter Education Report December 2019

“Progress through Education”

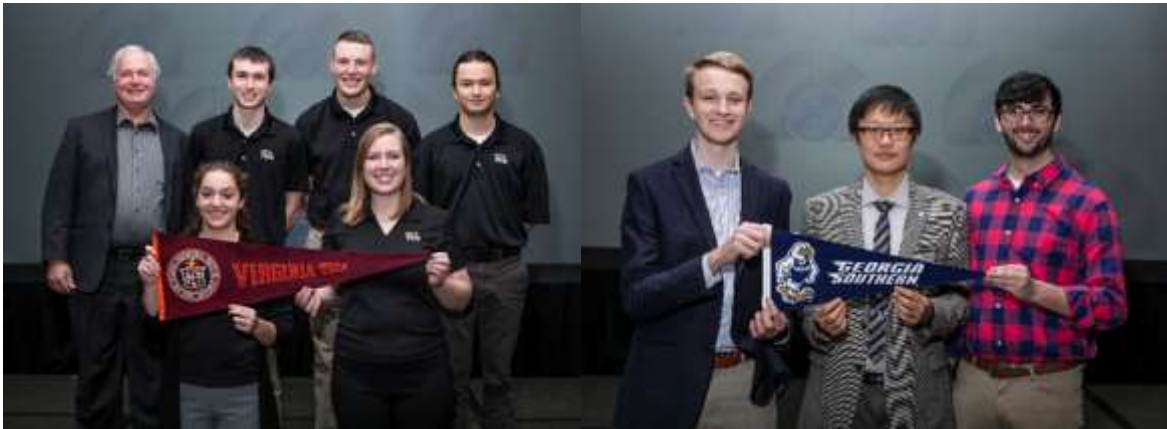
By: Paul Huffman, Education Chairman

FEF News

The annual Casting Industry Conference was held November 21-22 in Chicago. Both of our Piedmont Chapter schools attended.



Students attending the general session and networking with industry representatives. This year's sessions included a speed networking session.



Our VT FIRE and Southern CORE students. Also pictured are VT key Professor Dr. Alan Druschitz and Ga Southern key Professor Dr. Mingzhi Xu.

Va Tech News

MSE

As most of you know, the headquarters for Va Tech's MSE Department is undergoing a multi-year renovation. This includes a complete renovation of the existing plus the construction of additional space. Demolition is well underway.

The MSE Advisory Board meet October 7-8 and included a tour of the Kroehling Lab facility. In addition, this fall the College of Engineering underwent a full accreditation visit by ABET. Preparation for this is a year long process. The visit went very well with several MSE categories cited as excellent. One of these was our VT Fire program.

Continued:

VT FIRE

As we mentioned in a previous newsletter, we are updating our strategic vision and mission statement for our VT Fire program. This effort involves input from industry and past graduates. This Advisory Board met on November 13 and again on December 3rd for a follow-up.

Our students continue to be active in the industry. During the MS&T 2019 Domesday Competition, our student entry won. This is our fifth 1st place finish in six years of this competition.

Our students have also been active in utilizing our Foundry in a Box. We completed our semester Open Foundry day last month with over 250 attendees, pouring 171 scratch molds.



VT FIRE student competitors at the MS&T Domesday Competition and their winning entry.



Continued:

Georgia Southern News

Southern CORE

Our newest program in the Piedmont Chapter is named Southern CORE. CORE stands for Casting Outreach, Research and Education. The University has now allocated \$150K for the casting lab and the plans are about 50% complete. The program held their initial Advisory Board meeting on October 18th with a number of Piedmont members in attendance. Ted Kostilnik has agreed to be the Board secretary and Paul Huffman has agreed to be the Student Liaison. At this point the program is in its infancy but is gaining traction quickly.

Their students also hosted a successful Open Foundry night on October 17th. Like what has been in effect for a number of years at Va Tech, this Open Foundry event is used to generate enthusiasm for our industry and the school's program. The Southern CORE students also demonstrated the casting process by exhibiting their Foundry in a Box for Statesboro's monthly First Friday event.

Their students are in the beginning stages of the Bowie Knife Cast in Steel competition hosted by the Steel Founders' Society and are competing in this year's SE Regional competition hosted by the AFS Tennessee



(L) Southern CORE students demonstrating the casting process. (R) Students show off their cast medallions which was used for the departments graduation seniors.

"We Appreciate our Chapter Website Sponsors"

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Selee

Southeastern Foundry Products & Foundry Coatings

Specialty Foundry Products

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Contact : Mike Looby mlooby@inductotherm.com 609-257-7544

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Robbie Gallagher (Same info as above)

Publicity / Web Chairman

Bill Matarazzo (Same info as above)

Registration Chairman

Haley Hollifield (Same info as above)

Shakeout Chairman

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Recently Rolled OFF

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Individual Member Benefits

Education and Career Advancement

Increase your personal competitiveness

- Institute classroom and hands-on course discounts
- Conference and seminar special pricing
- Publication, video and resource discounts
- Webinar access—complimentary and special pricing

Networking and Special Interest Groups

Develop your own advantage

- CastingConnection—a member-only online virtual community
- Local Chapter membership included
- Management & technical committee opportunities
- Shared Interest group involvement
 - Women In Metalcasting (WIM)
 - Future Leaders of Metalcasting (FLM)

Knowledge Transfer from Generation to Generation

Be "in the know" about your industry

- Member Connections Newsletter
- Modern Casting magazine subscription
- AFS Library reduced pricing for papers and articles



For more information contact:
Customer Service at 847/824-0181

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AFS Individual Membership Application

Individual—Annual Dues			
<input type="radio"/> Personal	\$105	<input type="radio"/> Teaching Associate	\$65
<input type="radio"/> Corporate Individual*	\$70	<input type="radio"/> Student	\$20
<input type="radio"/> Retired	\$25	<input type="radio"/> International Technical**	\$105

*Employees of corporate members **Outside of North America

Name _____ Job Title _____

Company _____ Home/Work (circle one) Address _____

City/State/Prov _____ Country _____ Postal Code _____

Tel _____ Email _____

I desire affiliation with the following AFS Chapter _____

I wish to receive MODERN CASTING magazine? Yes No

What does your company do? (check one)

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

What metals are your primary focus? (check up to three)

- | | | |
|-----------------------------------|--|-----------------------------------|
| <input type="radio"/> A. Iron | <input type="radio"/> D. Copper-Base (brass, bronze, etc.) | <input type="radio"/> Other _____ |
| <input type="radio"/> B. Steel | <input type="radio"/> E. Magnesium | |
| <input type="radio"/> C. Aluminum | <input type="radio"/> F. Zinc | |

Payment Information

Check Enclosed (U.S. Funds Only) Charge To: American Express Mastercard Visa

The following information is required in order to charge your membership:

Account No. _____ Exp. Date _____ Security Code _____

Date _____ Signature _____

Return completed application to:

American Foundry Society • 35169 Eagle Way • Chicago, IL 60678-1351

Tel: 847/824-0181 • Fax: 847/824-7848 • www.afsinc.org

Join online: <https://hub.afsinc.org>

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**MARK YOUR CALENDARS NOW
TO MAKE THESE 2019 MEETINGS
CHAPTER MEETINGS**



DATE	LOCATION	TOPIC	TOUR
Jan. 22-23	Columbus, GA	Charge Materials	TBD
Mar. 18-19	Roanoke, VA	Data Collection	TBD
May 21-22	Wilmington, NC	Annual Golf Outing	None

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: February 15, 2020