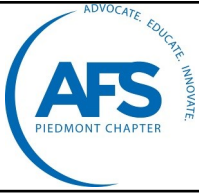


# THE SHAKEOUT



## Piedmont AFS Chapter

[www.afspiedmont.org](http://www.afspiedmont.org)



November 2017

### Letter From The Chairman

Hello to all AFS Piedmont chapter members and friends!

Everyone please keep Jeremy McLimans in your thoughts and prayers as he continues to recover from a severe illness due to complications from surgery in early October.

I want to thank all who attended the September 2017 meeting in Asheville, NC. It was a beautiful location, and we had a great panel of speakers on human resources-related topics. Many thanks to Shawn McKinney for setting up a great program. We also had our annual golf fundraiser at the Reems Creek Golf Course, where we raised nearly \$1,000 for educational scholarships.

Once again, we would like to recognize the student chapter at Virginia Tech. Our longtime friend and past president of the VT AFS student chapter, Mattie LaPrade, has now graduated and is working in the foundry industry at American Cast Iron Pipe in Birmingham, AL. Congratulations, Mattie! The new leaders of the VT AFS student chapter are Bryan Staha, chapter president, and Liz Fontana, chapter vice president. It is exciting to see the interest and enthusiasm in our industry from the student chapter. Please welcome these new leaders. Remember that supporting the VT student chapter and VT Fire is a key purpose of our AFS Piedmont chapter.

Our continued support of Virginia Tech is reaching a new stage as last year the board committed \$50,000 in funds toward a VT Fire expansion. VT Fire's success (in part by our chapter) has exceeded its current facility spaces. The wheels are in motion to accommodate the growing student interest in VT Fire. It is ever important now to fundraise and match the funds the chapter has pledged! The AFS Piedmont chapter has set up a special committee to oversee this matching fundraising.

We have already started planning for our 2019 AFS Southeast Regional. We have put together a committee, and if you are interested in serving, please let someone on the AFS Piedmont board know.

Our next meeting will take place November 15-16 in Pinehurst, NC. On Wednesday, November 15, we have technical sessions that will address energy efficiency and new technologies, and there will also be a special dinner speaker from AFS national, *Director of Education, Shelly Dutler*. On Thursday, November 16, we have a great tour planned of the facilities at Carolina Bronze Sculpture in Seagrove, NC. Rooms at Homewood Suites must be booked by phone, (910) 255-0300, by **11/03/17**. Please see the meeting announcement in this issue of Shakeout for more details and the link for meeting registration.

Thank you for your continued support of our Piedmont AFS chapter, and I look forward to seeing you at the November meeting in Pinehurst, NC.

Again, please keep Jeremy and his family in your thoughts and prayers.

Mike Stowe for Jeremy McLimans  
AFS Piedmont Chapter Chairman

#### Chairman

Jeremy McLimans  
Hickman, Williams & Co.  
(423)208-5468

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Advanced Energy.  
(919)857-9043

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Joe Whiteside, Jr.  
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# AFS PIEDMONT CHAPTER MEETING REGISTRATION



November 15-16, 2017  
Homewood Suites by Hilton:  
Olmsted Village Hotel

250 Central Park Avenue, Pinehurst, NC 28734

Reservations: (910) 255-0300



Request the American Foundry Society Piedmont Chapter group block rate when calling OR reserve on line at this link:

Room Rate: \$114/night

**\*\* MUST BOOK ROOMs by Friday, November 3, 2017 \*\***  
**Phone calls only, to the number above.**

## Meeting Topic: Sustainability and Energy Efficiency

### Wednesday, November 15, 2017

All technical sessions, board meeting, reception, and dinner will be held in the Camellia Room

7:30 - 8:30 am Registration  
8:30 - 9:20 am Strategic Energy Management (SEM) in Foundries, Mike Stowe, Advanced Energy  
9:20 - 9:30 am **BREAK**  
9:30 - 10:30 am Ladle Preheating Alternatives, Scott Bishop, Alabama Power and Ted Kostilnik, Specialty Foundry Products  
10:30 - 11:30 am Innovative Sand Conditioning Technology, Andy Nix, Solex Thermal Science  
11:30 - 1:00 pm **Lunch on your own**  
1:00 - 2:00 pm Foundry Process Data: Using the Internet of Things (IoT), Brian Reinke, TDI  
2:00 - 3:00 pm Energy Projects: Case Studies, speaker is TBD  
3:00 - 4:30 pm AFS Piedmont Chapter Board Meeting  
6:00 - 7:00 pm Reception, Camellia Room  
7:00 - 9:00 pm Dinner, Camellia Room, AFS Education Opportunities, Shelly Dutler, Director of Education, AFS National Staff

### Thursday, November 16, 2017

NLT 9:15 am Arrive at Carolina Bronze Sculpture, (Approximately 40 minutes from the hotel) 6108 Maple Springs Road, Seagrove, NC 27341, (336) 873-8291  
9:30 - 11:30 a.m. Carolina Bronze Sculpture: Tour of sustainability projects, sculpture garden, and the facility processes

### **PLEASE PRE-REGISTER by Wednesday, November 8, 2017**

Name _____	Company _____		
Meeting Registration	\$95.00 x _____ = _____	Attending Dinner?	Y / N
Plant Tour: Carolina Bronze Sculpture	No Cost	Attending Tour?	Y / N
Late Registration Fee after <u>11/08/17</u>	\$105.00 x _____ = _____		
	Total _____		

Online Registration: <http://afspiedmontnovember2017.eventzilla.net/> (Google Chrome browser is best)

Make checks payable to: AFS Piedmont Chapter

Mail registration form and payment to: Haley Hollifield, Carolina Metal Castings  
PO Box 95, Hardeeville SC 29927

# Piedmont Chapter Education Report

## October 2017

“Progress through Education”

By: Paul Huffman, Education Co-Chairman

Adam Humphrys, Education Co-Chairman

### Foundry in a Box

The foundry in a box program is off to a strong start this year. The VT student chapter has taken part in two outreach programs at the university. The events, CREED-O and Gobblefest, are well attended by students and faculty. Our student chapter reports having at least 160 students stop and take interest in our program.

The students continue to focus on outreach at local schools. This year’s first outreach is scheduled for Friday October 27<sup>th</sup>, and will be demonstrating at a local middle school.

We have three active foundry in a boxes stationed in the north, south, and center of our chapter for easy access for any member wanting to use one. If you would like to use one of these boxes, please contact the following champions:

North, Roanoke, VA: Adam Humphrys [Ahumphrys@dom-met.com](mailto:Ahumphrys@dom-met.com)

Central, Charlotte, NC: Mike Hall [MHall@charlottepipe.com](mailto:MHall@charlottepipe.com)

South, Myrtle Beach, SC: James Sturgeon [James.Sturgeon@conbraco.com](mailto:James.Sturgeon@conbraco.com)



Figure 1 Demo at Virginia Tech

### Save the Date: VT FIRE Open House

November 4th, 2017 from 10 AM – 3 PM at 145 Inventive Way Blacksburg, VA. If you are in the area and interested in seeing VT FIRE in action, please stop by! We would love to have chapter members attend this event. This event is open to the public and is the keystone in our outreach efforts. Please keep an eye out for more information on this event.



## **Student Chapter Meetings**

The second meeting of the Student VT AFS was held October 10th, 2017. At this meeting, Paul Huffman gave his presentation on his experience with the "4 Million Dollar Casting," demonstrating the importance of quality assurance and the due diligence required in the purchasing of metal castings.



If any member has a topic of interest and would like to present to this active Va Tech student chapter please contact me. They meet most months on campus.

## **AFS Webinars**

I wanted to make everyone aware that AFS periodically conducts Webinars on a number of topics. I recently took part of a Webinar entitled "Re-Shoring of Metal Castings". It was an excellent presentation with a number of valuable takeaways. The next one on AFS's schedule is a webinar of updates Respirable Silica. These are free to current AFS members. Webinar information can be accessed at [https://hub.afsinc.org/nc\\_upcomingevents?type=Webinar](https://hub.afsinc.org/nc_upcomingevents?type=Webinar) . The following are additional planned webinars:

Nov. 7, 2017, Update on Respirable Silica - What You Should be Doing now; Tom Slavin; Slavin OSH Group LLC

Nov. 28, 2017, Maximizing Effectiveness of Refractories for Metalcasting; Pete Satre; Allied Mineral Products, Inc.

Dec. 5, 2017, Case Studies in Additive Manufacturing for Metalcasting; Brandon Lamoncha/Dave Rittmeyer; Humtown Products

Jan. 9, 2018, A New Look at Mn-S Balancing in Gray Cast Iron; Rick Gundlach; Element Materials Technology

Jan. 22, 2018, Casting Uncommon Aluminum Alloys; Dave Weiss; Eck Industries

Feb. 13, 2018, Energy Measurement and Process Control, Brian Reinke/Dr. James Wiczor; TDI Energy Consulting/Sensor Synergy

Mar. 13, 2018, Prediction of Core Gas Pressure from Chemically Bonded Sand Molds Using Process Simulations Software; Jerry Thiel/Sairam Ravi; University of Northern Iowa

Mar. 27, 2018, AFS Casting Alloy Data Search (CADS); Jiten Shah; Product Design and Analysis

## **AFS Institute**

The AFS Institute (formally CMI) is interested in holding a laboratory class at Va Tech this spring. We are currently investigating topics. If anyone has a topic of interest please contact me at [Phuffman@dom-met.com](mailto:Phuffman@dom-met.com) .

# **"We Appreciate our Chapter Website Sponsors"**

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**BE A PIEDMONT CHAPTER SPONSOR**

**Contact : Mike Looby [mlooby@inductotherm.com](mailto:mlooby@inductotherm.com) 609-257-7544**

# AFS Piedmont Chapter Officers 2017 – 2018

## Chairman

### **Jeremy McLimans**

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## Vice Chairman

### **Michael Stowe**

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## 2<sup>nd</sup> Vice Chairman

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## Secretary

VACANT

## Treasurer

### **James Sturgeon**

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## Past Chairman

### **Joe Whiteside, Jr.**

President  
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[joew@metalenergies.com](mailto:joew@metalenergies.com)

## Directors (2018)

### **Mike Hall**

VP Operations  
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### **Ryan LaCoursiere**

Vice President Sales  
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### **Donald McLain**

MTI / American Colloid Company  
National Sales Manager  
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704-619-3932

[donald.mclain@mineralstech.com](mailto:donald.mclain@mineralstech.com)

## Directors (2019)

### **Ron Benjamin**

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Conbraco Industries Inc.  
PO Box 125  
Pageland, SC 29728  
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### **Shawn McKinney**

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### **Brandon O'Steen**

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## Committee Chairmen

### **Directors (2020)**

#### **Jim Harwood**

Owner  
Carolina Metal Castings  
PO Box 95  
Hardeeville, SC 29927  
(843) 784-2251  
[jim@carolinametalcastings.com](mailto:jim@carolinametalcastings.com)

#### **Bill Yost**

General Manager  
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[bill.yost@conbraco.com](mailto:bill.yost@conbraco.com)

#### **Doug Orndorff**

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### **Education Chairman**

#### **Paul Huffman**

Dominion Metallurgical, Inc.  
[phuffman@dom-met.com](mailto:phuffman@dom-met.com)

### **Education Co-chairman**

Adam Humphrys  
Dominion Metallurgical, Inc  
[Ahumphrys@dom-met.com](mailto:Ahumphrys@dom-met.com)

### **Membership Chairman**

#### **Michael Looby**

Inductotherm Corp.  
[mlooby@inductotherm.com](mailto:mlooby@inductotherm.com)

### **Shakeout Chairman**

#### **Shaun McGuirt**

Charlotte Pipe & Foundry Co.  
[smcguirt@charlottepipe.com](mailto:smcguirt@charlottepipe.com)

### **Registration Chairman**

#### **Haley Hollifield**

Carolina Metal Castings  
[haley@carolinametalcastings.com](mailto:haley@carolinametalcastings.com)

### **Website Chairman**

#### **Shawn McKinney**

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828-553-0946  
[smckinney@selee.com](mailto:smckinney@selee.com)

### **Publicity Chairman**

#### **Shawn McKinney**

SELEE Corporation  
828-553-0946  
[smckinney@selee.com](mailto:smckinney@selee.com)

# AFS Personal Membership Application

**Fax application to 847/824-7848**

- Personal \$105   
  Corporate Individual \$70   
  Teaching Associate \$65  
 Retired \$25   
  Student \$20   
  International Technical \$195

## Personal and Company Information

Name \_\_\_\_\_ Job Title \_\_\_\_\_

Company/School Name \_\_\_\_\_ Department \_\_\_\_\_

Business Address \_\_\_\_\_ P.O. Box \_\_\_\_\_ Bus. Phone (    ) \_\_\_\_\_

City/State/Province \_\_\_\_\_ Zip+4 \_\_\_\_\_ E-mail \_\_\_\_\_ Country \_\_\_\_\_

Home Address \_\_\_\_\_ Home Phone (    ) \_\_\_\_\_

City/State/Province \_\_\_\_\_ Zip+4 \_\_\_\_\_ E-mail \_\_\_\_\_ Country \_\_\_\_\_

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.)<br>B. Pattern and Tooling Shop<br>C. Supplier of Metalcasting Equipment, Raw Materials or Services<br>D. Consultant/Consulting Engineer<br><br>Choose Only One <input type="checkbox"/> | E. Research Institute/Testing Lab<br>F. Casting User/Designer/Buyer<br>G. Educational Institute/Faculty/Students/Library<br>H. U.S./Foreign Government/Military<br>O. Other _____<br><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<br>B. Steel<br>C. Aluminum<br>D. Copper-Base (brass, bronze, etc.)<br><br>Choose Up To Three <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | E. Magnesium<br>F. Zinc<br>O. Other _____<br><i>(i.e. Nonferrous metals-please specify)</i> |
|---|---|

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





**MARK YOUR CALENDARS NOW  
TO MAKE THESE 2017-2018 CHAPTER MEETINGS**



**Piedmont Chapter Meeting Schedule  
2017-2018 Meeting Schedule**

DATE	LOCATION	TOPIC	TOUR
Nov. 15-16	Pinehurst, NC	Sustainability & Energy Efficiency	Carolina Bronze Sculpture
Jan 24-25	Augusta, GA	Foundry Maintenance, plus 3D Printing	TBA
March 21-22	Blacksburg, VA	VT Fire	TBA
May 17-18	Little Switzerland, NC	Annual Golf Outing	The Mountains

**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](mailto:smcguirt@charlottepipe.com)**

*Deadline for Articles in the next ShakeOut: **December 1, 2017***