

THE SHAKEOUT



Piedmont AFS Chapter

www.afspiedmont.org



MARCH 2020

Letter From The Chairman

AFS Piedmont Chapter and Friends,

I hope 2020 has started off well for each of you. We began the new year with our technical meeting in Columbus, GA. The meeting was very well attended and the speakers did an excellent job discussing topics related to melting practices, charging materials, and metallurgy. We also got to hear from Dr Xu about all the new and exciting things happening with the new foundry program at Georgia Southern University. We finished the meeting with a tour of Wheelabrator in LaGrange, GA. Lots of good information, great discussions, new attendees, and a fantastic dinner buffet.

Unfortunately, with the current situation surrounding the Coronavirus, we have decided to cancel our Roanoke meeting that was planned for April 8-9. This is unfortunate as I know so many members, including myself, look forward to this meeting and all the students that attend. But we must hold health and safety paramount and limit and chance of spreading this virus. Rest assured that we are still hoping to have our May outing in Hilton Head, SC in May. We will keep our website updated with information regarding meetings.

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.

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AFS Piedmont Chapter Chairman

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Michael Stowe
Advanced Energy.

Piedmont Chapter Education Report

February 2020

“Progress through Education”

By: Paul Huffman, Education Chairman

Va Tech News

MSE

The Materials Science and Engineering Dept is hosting its first ever Career Fair on March 2-3, 2020. As a number of our members know, these career fairs are a wonderful opportunity to meet, interview and hire summer interns and co-op students for your operations. It is also a good opportunity to evaluate full time hires. See more information in the attached flyer.

VT FIRE

Part of our MSE Advisory Board recommendations was the implementation of a foundry 5S program. Doug Orndorff and Tony Stegall of Charlotte Pipe are providing guidance and assisting in this effort. Progress is being made with electrical work in process to eliminate the need for extension cords. The ethylene/water overflow tank is moving outside, and extraneous materials are being discarded. With the assistance of our Piedmont Chapter, the existing investment casting plow tank is being replaced by a more compact 30-gallon unit with a high shear mixer. Your Piedmont Board approved this purchase and we expect delivery early summer.

Our metal casting program continues to generate interest outside of the University. A group from the CIA visited the foundry and was impressed not only on the facility, but on our emphasis on experimental learning and communication (particular report writing and presentations). Casting technology engineers from the General Electric Aviation Group visited the foundry lab and gave a presentation on the various casting methods they utilize for their product. During this visit our students demonstrated casting of FeMnAl in both sand and investment molds. We would like to thank Conbraco for their donation of aluminum silicate powder.

Our Key Professor, Dr. Druschitz, is piloting a new course on Bladesmithing. This has become popular with students who are using these skills in several national contests.

Our students have also been busy, continuing to demonstrate our Foundry in a Box to area schools. In addition, two students attended the Magma University Experience program in Schaumburg IL.

Ga Southern News

Southern CORE

Our newest Piedmont Chapter University program has also been busy. AFS students hosted six aluminum pour demos to over 100 engineering freshmen students during the first week of spring semester.



Continued:

The AFS student chapter hosted general information meeting for recruitment, six new members were recruited. The group now has 30 members.

The AFS students participated in the Eagle Preview open house event on Feb 1. The students showcased metalcasting to over 40 families with perspective students.

Four students and Dr. Mingzhi Xu attended the Piedmont chapter meeting held at Columbus, GA on 1/22 and 1/23. Dr. Xu gave an introduction talk about the metalcasting program at Georgia Southern and a technical presentation at dinner on nitrogen pickup control on induction melting steels. The group also toured Golden's Foundry and Wheelabrator.

Georgia Southern received a donation of a new custom-built gas melting furnace from L Haberny Company and Specialty Foundry Products. This expands the aluminum melting capacity from 20lbs to 60lbs. The furnace has been installed and the first heat was poured on Feb 11th.



Our students and Dr. Mingzhi Xu toured Carolina Metalcasting on 1/31. The group met with Jim Harwood, toured the facility and watched two heats. Carolina Metalcasting also helped to cast the refractory lid for the new non-ferrous melting furnace that Georgia Southern installed.



One AFS student also attended the MAGMA university experience workshop hosted at MAGMA headquarters.

"We Appreciate our Chapter Website Sponsors"

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Recently Rolled OFF

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For more information contact:
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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 _____

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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 _____

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Return completed application to:

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



DATE	LOCATION	TOPIC	TOUR
April 8-9	CANCELLED	CANCELLED	CANCELLED
May 21-22	Hilton Head, SC	Annual Golf Outing	None

Shakeout Newsletter

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

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Deadline for Articles in the next ShakeOut: April 15, 2020