

THE SHAKEOUT



Piedmont AFS Chapter

www.afspiedmont.org



December 2022

Letter from the Chairman

AFS Piedmont Chapter and Friends,

I would like to thank the chapter membership for their continued support of the chapter through attending meetings, sponsorships, and participation in industry events. It is truly our members who make the Piedmont Chapter what it is.

We have had a great start to the 2022 to 2023 year. Our September Meeting on Waste Management, Reclaim and Beneficial Reuse was well attended with interesting presentations by Brad Robinson of The Foundry Group, Mark Cotton of Simpson, and David Paulsen of Furness-Newburg. We had a successful golf outing and tour of the City of Greenville Public Works

Our November meeting on Automation and Technology was very informative, highlighting some recent developments in the industry. Presentations were given by Ben Thomas of Clansman Dynamics, Jim Webb of Mesh Automation, John Letts of Laempe Reich, Alan Traylor of Nederman, Michael Stowe of Advanced Energy, and Brad Rudolph of IMC Metals America. We finished off with an impressive tour of IMC Metals America.

We are looking forward to a busy and exciting second half of the year with meetings at Georgia Southern and Virginia Tech, as well as the Southeast Regional hosted by the Tennessee Chapter this year, followed up by the May Outing. Please check the calendar on our website, mark your calendars, and make your reservations. We look forward to seeing you there!

Finally, I would like to thank the officers and directors of the AFS Piedmont Chapter for their support. We are very blessed to have such a great group of volunteers to work with. It has been a challenging year so far with both foundries and suppliers being exceptionally busy. Thank you for your support, leadership, and guidance throughout this year.

Wishing everyone Happy Holidays and Happy New Year!

Sincerely,

Bill Matarazzo

Bill Matarazzo

AFS Piedmont Chapter Chairman



September Meeting – Tour of Greenville Public Works



November Meeting – Tour of IMC Metals America

AFS PIEDMONT CHAPTER MEETING REGISTRATION

January 18-19, 2023

Statesboro, GA

Holiday Inn Statesboro, GA

455 Commerce Drive, Statesboro, GA 30461

Rate \$119/Night standard 1 King or 2 Queen room

Call for reservations: (912) 489-4545

Mention "American Foundry Society" when booking

Do not use IHG app, call or use link

Or reserve online:

<https://www.holidayinn.com/redirect?path=rates&brandCode=HI&localeCode=en®ionCode=1&hotelCode=TBRHI&checkInDate=18&checkInMonthYear=002023&checkOutDate=20&checkOutMonthYear=002023&PMID=99801505&GPC=AFS&cn=no&viewfullsite=true>

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****MUST BOOK BY January 2nd, 2023****

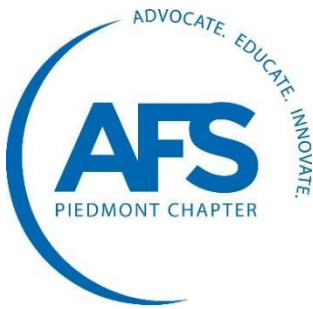
Meeting Topic: Refractory Life, and Student Internships, Co-ops and Opportunities

Wednesday, January 18, 2023

- 8:00 – 8:30 am Meeting Registration at GSU
Room 3000 Engineering and Research Building
4012 Forest Dr, Statesboro, GA 30460
- 8:30 – 9:15 am Monolithic Casting, Cure/Dry Out, Startup Procedures -
Brent Buchcuski, United Refractories Company
- 9:15 – 10:00 am Refractory Safety - *Pete Satre, Allied Mineral Products*
- 10:00 – 10:15 am BREAK**
- 10:15 – 10:45 am Drop in Liners – *Josh Gammariello, Foseco*
- 10:45 – 11:30 am Student Presentations
- 11:30 – 1:00 pm Lunch on your own**
- 1:00 – 2:00 pm AFS Piedmont Chapter Board Meeting - Holiday Inn
- 2:00 – 4:00 pm Student Internships, Co-ops and Employment Opportunities
- 5:00 – 6:00 pm Social Hour at the Holiday Inn
- 6:00 – 8:00 pm Dinner at the Hotel with Guest Speaker Brad Muller - Charlotte Pipe

Thursday, January 19th

- 9:00 am Tour at Daniel Defense



Piedmont Chapter Education Report November 2022

By: Peter Kim, Education Chairman

VT FIRE News

Dr. Druschitz presented the work of last year's senior design team that worked on the Fe8Mn2Al2SiC steels at the 74th World Foundry Conference in Busan, South Korea. He presented virtually.

Student News:

VTFIRE has held monthly meetings the pics of each meeting are as follows:

September: Student Panel regarding summer internship experiences.

October: Casting 101 presentations for the new members and a Foundry in a Box demo.

November: Research focused meeting where students did presentations about their current foundry research regarding E357 aluminum, FeMnAl lattice structures, steel slags, and heat treatment of FeMnAlSiC steel.

VTFIRE students also went to East Montgomery High School to give their casting 101 presentation and demonstrate their Foundry in a Box.



VTFIRE also made their token hokie birds for a department fundraiser in October.

Open foundry day in October was the first one that VTFIRE did since the pandemic. Special shout out to Elliot Bevers who is a VTFIRE student also interested in photography and took pictures of the event with black and white film. Some of the pictures are fantastic.



Equipment Updates:

A vacuum-arc button melter is in the process of being ordered for the foundry. This will allow the foundry to melt titanium, nickel, and any other very high melting point metals.

Southern CORE News

First off, congratulations to Mark Thompson for accepting an offer from MAGMASOFT. He will start his job on January 16th.

Student News:

Results of the New officer elections are as follows:

Noah Brack	President
Xander Bowen	Vice President
Robert Myers	Secretary

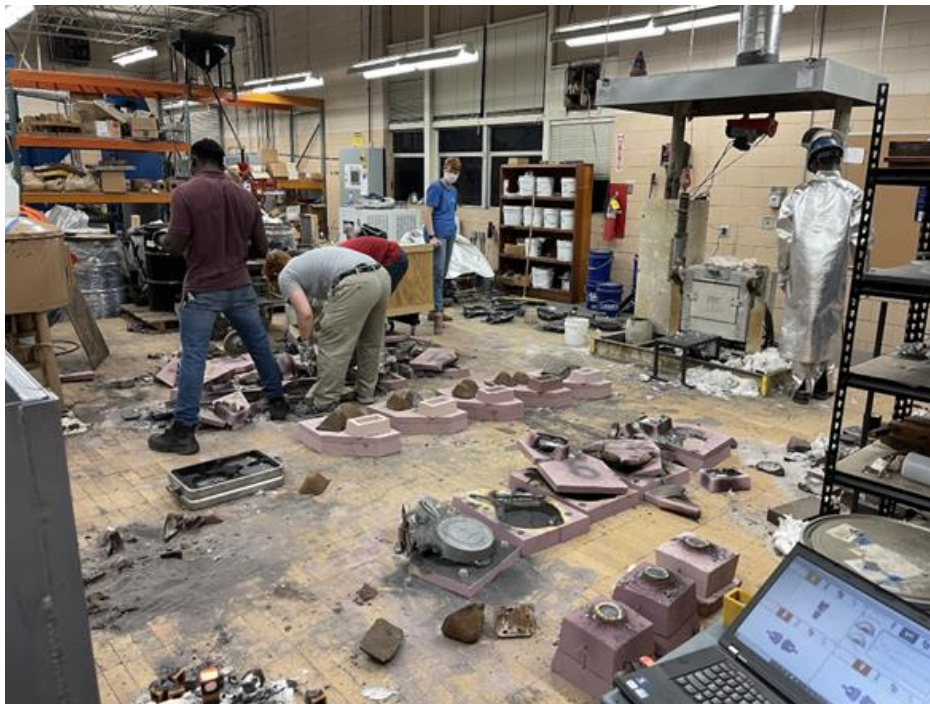
Georgia Southern has held monthly meetings the topics of each meeting are as follows:

September: Peter Kim from FerroGlobe presented regarding ductile iron treatment methods and how SEM's function.

October: Joe Wallstead from Nematik presented about the product engineering process at a high pressure die casting operation.

November: Emily Shedlarski, CORE's new FEF key contact, gave a presentation on greensand 101.

Record turnout for closed foundry night. Over twenty members came out to cast a skillet. The high volume for that night is leading us to consider a new point system to earn a skillet by attending meetings and outreach events.



Equipment Updates:

The PO for a Simpson 1F sand muller has been placed (500 lbs capacity). This Muller was partially funded by FEF and Simpson (\$25,000), AFS Piedmont Chapter (\$9,000), and AFS TN Chapter (\$3,000).

On 11/10, the new MTS 55 kip testing frame was installed.

On 10/10, the new LECO CS744 was installed. Students were trained.

Industry Advisory Board:

FEF Industrial Advisory Board (IAB) meeting was held on campus on 10/21. Eight industry professionals participated. At the meeting, the board met with Dr. Mingzhi Xu, FEF key professor; Dr. Jingjing Qing, assistant professor of MFGE; Dr. Brian Vlcek, department chair of MENG; Dr. Mohammad Davoud, Dean of College of Engineering and Computing.

The department chair and dean thanked for the continuous support of the IAB, and expressed their commitment to continuously providing funding and resources to the FEF program at Georgia Southern. The IAB appreciated the recognition of the importance of metal casting education by the administration. The IAB also provided constructive feedback to Dr. Mingzhi Xu for the newly created freshmen/sophomore level course Intro to Molten Metal Processes. This course will start offering in F2023.

Plant Visits:

On October 4th and 6th, over 30 Georgia Southern MENG and MFGE students visited Briggs & Stratton die casting foundry in Statesboro.



On 11/4, 39 students visited Nucor Steel Berkeley. Trip was funded by AIST.



AFS Grants:

Dr. Mingzhi Xu and Dr. Jingjing Qing received two research grants from the AFS cast iron 5R committee. The research will focus on (1) multi-axial measurement of casting wall movement, and (2) austenite grain refinement in gray iron. Undergraduate student Noah Brack and graduate student Evan Carter are leading these projects.

We Appreciate our Chapter's Sponsors

Advanced Energy

Ajax TOCCO Magnethermic

American Colloid Company

ASK Chemicals

Carolina Metal Castings

Charlotte Pipe and Foundry Company

Covia

Foundry Solutions & Design

Foundry Supply Group

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Premier Magnesia – EnviroBlend

Saint-Gobain

Simpson Technologies

Specialty Foundry Products

Be a Piedmont Chapter Sponsor!

<http://afspiedmont.org/sponsors>

As a sponsor you will have your company logo displayed on the sponsors page of our website and your company will be listed on every email sent to our chapter members for announcements and news.

AFS Piedmont Chapter Leadership 2022-2023

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Recently Rolled OFF

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AFS Individual Member Benefits

Workforce & Career Development

Leadership Training & Sustainability

- AFS trains the current and future leaders of metalcasting

Building the Next Generation of Metalcasters

- Student chapters, Institute training, foundry demonstrations, Melting Point magazine and more attract new talent to the industry

Regional Chapters

- Only individual members may join AFS regional chapters

Casting Connection

- Individual members can network, ask questions and get answers from peers through this metalcasting social network

Event Discounts

- Deep discounts on registration for educational and networking events hosted by AFS (Discounts vary)



Education

Instructor-Led Training

- Receive discounts on classes (In-person and online) for new and experienced metalcasters (\$200 discount per person)

Free AFS Members Only Webinars

- All individual members participate in 30+ technical and management webinars (\$250 value per session)



Technical/Management/ Research Support & Innovation

Committee Membership

- Only individual members are eligible to sit on AFS committees, which conduct cutting-edge research and help establish industry standards

Books & Publications

Modern Casting

- A subscription to one of the industry's leading trade magazines, delivered monthly (\$109 value)

Member Connections

- A quarterly publication featuring industry, AFS and chapter news (\$40 value)

Book Discounts

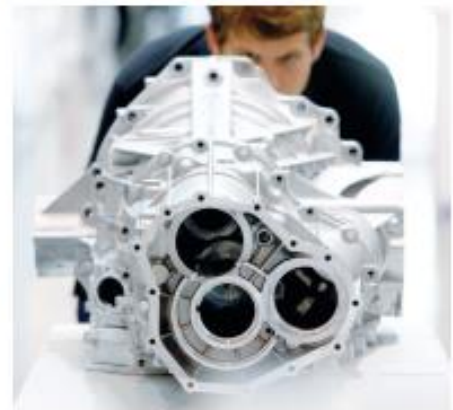
- Get 25% discounts on all AFS-published technical books

AFS Library

- Receive free online access to the AFS Library, the world's largest collection of metalcasting research with more than 15,000+ papers and articles

AFS Insider News

- Stay up-to-date on industry news and AFS events with this weekly e-newsletter



For more information, contact **Kim Farrugia** at **800-537-4237** or kfarrugia@afsinc.org.

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AFS Individual Membership Application

Individual Annual Dues

<input type="checkbox"/> Individual	\$140	<input type="checkbox"/> International Technical	\$255
<input type="checkbox"/> Corporate Individual	\$75	<input type="checkbox"/> Teaching Associate	\$70
<input type="checkbox"/> Retired	\$25	<input type="checkbox"/> Undergraduate	\$20

Name _____ Job Title _____

Company _____

Address _____

City _____ State _____ Country _____ Zip/Postal Code _____

Tel. _____ e-mail _____

I desire affiliation with the following **AFS Chapter** _____

Do you wish to receive **MODERN CASTING** magazine? Yes No

Which best describes your business?

- Producer of metal castings (foundry, diecaster, ect.)
- Pattern and tooling shop
- Supplier of metalcasting equipment, raw materials or services
- Consultant/consulting engineer
- Research institute/testing lab
- Casting user/designer/buyer
- Educational institute/facility/military
- Other _____

What metals do you primarily work with?

- Iron
- Steel
- Aluminum
- Copper-base (brass, bronze, ect.)
- Magnesium
- Zinc
- Other _____

What is your reason for joining AFS?

- Boost career success & professional development
- Maximize my technical knowledge
- Deep discounts on AFS events and books
- Strengthen my professional network
- Participate in an AFS committee
- Support the important work of AFS
- Other _____

Payment Information

Check enclosed (U.S. funds only) Charge to: American Express Mastercard Visa

The following information is required to charge your membership:

Account No. _____ Exp. Date _____ Security Code _____

Signature _____ Date _____

Return completed application to:

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

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