

SUSTAINING MEMBERS

ALCOA HOWMET



ALERIS INTERNATIONAL, INC. -
RICHMOND



HUNTINGTON INGALLS - NEWPORT
NEWS SHIPBUILDING



NONLINEAR ENGINEERING, LLC



IMPORTANT NOTICE:

To continue to receive your chapter's event notifications, please be sure to keep your email and postal addresses up to date on the ASM web site:

www.asminternational.org

We will continue to send the hard copy to members who do not have email.

Be sure to visit the new chapter website at:

<http://www.asminternational.org/portal/site/easternva/>

Eastern VA Chapter ASM
C/O Steven J. Gentz
2252 Towne Park Drive SW
Huntsville, AL 35803



Eastern Virginia Chapter

Newsletter

Facility Tour Alcoa Howmet Castings

Monday, October 21, 2013

1 Howmet Drive
Hampton, Virginia 23662
757-825-6800

http://www.alcoa.com/howmet/en/info_page/desc_hhc.asp

2:00 - 4:00 PM Tour

Note: The following restrictions apply:

- Names and citizenship of all visitors must be provided at least 7 days in advance
- Visitors must wear closed, hard sole shoes (no flip flops, tennis shoes, etc.)
- Visitors must wear long pants (no shorts)
- No cell phones, cameras or video equipment will be allowed
- Hearing and safety glass protection will be provided

Reservations: Please notify Jeff Wiese at 804-421-7897 or wiese@nleng.com by **Monday, October 14, 2013** on your planned attendance including carpooling from the Richmond area.

Chairman's Message:

Although turnout was small for the chapter's social event at the New Kent Winery on the 22nd, we had a beautiful day to tour the facility and enjoy a couple bottles of wine on the deck. From ASM we had Joel Jenkins, a former chairman visiting from Northern Virginia, Kurt Thompson +1, and myself. From ASME we had Mike Crimmins +1 and James Daniel +1. Thanks to everyone for attending.

In October we will be touring the Howmet facility in Hampton. The last time we visited this plant was in 2006, and it is always interesting to see their process. How do you cast an extremely complex, thin walled part and end up with a single crystal? Come on the tour and find out.

Jeff Wiese

About Alcoa Howmet (from web site):

Alcoa Howmet's casting facility in Hampton is the leading producer of complex investment cast turbine airfoils for the industrial gas turbine industry. The facility specializes in the investment casting of equiaxed, MX® ultra-fine grain, directionally solidified (DS), and single crystal (SC) blades, and single and multi-vane segments for industrial gas turbine applications. The facility has been in its present location in Hampton, Virginia since 1974.

Products and capabilities:

- Blades and vanes for industrial gas turbine applications
- Airmelt alloy (equiaxed) pouring capacity: up to 400 pounds
- Vacuum alloy (equiaxed) pouring capacity: up to 1,500 pounds
- Vacuum alloy (DS/SC) pouring capacity: up to 300 pounds
- Equiaxed, fine-grain and directionally solidified components: up to 34 inches in length
- Production of single crystal components: up to 42 pounds

The Alcoa Howmet casting facility occupies approximately 500,000 square feet of manufacturing space, and employs approximately 200 people.

Driving Directions:

From I-64 Exit 264

- Take **I-664 (South)** towards **Downtown Newport News/Chesapeake/Suffolk** (2.4 mile)
- Take **Exit 3** to **Aberdeen Road**
- Keep **right** onto **Aberdeen Road** (0.5 mile)
- Turn **right** onto **58th Street** (0.4 mile)
- Turn **right** onto **Howmet Drive**
- **Alcoa Howmet** is on your **right**

Upcoming Events:

- November:** Students Night – Dr. Robert Pond, From Tubal Cain: The Art and Science of Forming Metals and Alloys
- January:** Technical Talk – Finite Element Methods and Real World Engineering – Jeff Wiese
- February:** Engineers' Week Banquets (RJEC and PEC)
- March:** Technical Talk – Use of Polymer Materials in Medicine, Tom Haas
- April:** Technical Talk – Ceramic Materials, Jim Hurst
- May:** Spring Social – Colonial Shooting Academy
- July:** ASM Camp for teachers – Princess Ann High School Virginia Beach, and Highland Springs High School, Richmond

Chapter Officers:

Chairman:

Jeff Wiese (wiese@NLEng.com)

Secretary:

Kurt Thompson (kurtthomps@aol.com)

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Steve Gentz (steven.j.gentz@nasa.gov)