



Shelly Dutler, IMERYS

Shelly Dutler, a technical account manager for IMERYS High Temperature Solutions USA, leverages her twenty years of metal casting experience to build partnerships with green sand foundries to produce the best quality molds and castings.

Her research in thermophysical properties of alloys and molding materials has been published in Metallurgical and Materials Transactions A and American Foundry Society Transactions. She has held positions in casting and tooling design, casting process simulation, and metal casting workforce development at John Deere, Magma Foundry Technologies, Inc. and American Foundry Society Institute.

She earned a Master’s in Materials Science and Engineering from the Illinois Institute of Technology studying metallurgy, solidification behaviors of metals, and crystallography and performed research on high temperature mechanical tensile and creep properties of a martensitic stainless steel alloy. Shelly also holds a Bachelor of Science in Manufacturing Technology from University of Northern Iowa’s (UNI) Foundry Educational Foundation accredited metal casting program.

Shelly chairs the UNI Metal Casting Program and Manufacturing Engineering Technology Academic Advisory Boards and is a member of the Department of Technology Advisory Board. She is also an active member of the Society of Women Engineers and volunteers at STEM outreach events.

AFS Twin Cities Chapter

presents a 1/2-day afternoon seminar

“Defect Analysis: Know the Defect You are Trying to Eliminate”

Tuesday, March 10th, 2020

Production of casting involves various processes like pattern making, molding, core making, melting, and cleaning. It is very difficult to produce defect free castings. A defect may be the result of a single cause or a combination of causes. The castings may have one or more defects. These can be minimized by taking correct remedial actions in the tools or processes. The first and most important step in the defect analysis is to identify the casting defect correctly. Then the identification of the sources of the defect is to be made. The involvement of the various variables in the process make it difficult to identify the exact source of the defect. Systematic analysis is required to control/reduce the defects by taking the necessary corrective remedial actions. Incorrect initial analysis of the defect will result in wasted time, effort, and more than likely, lots of money. Who should attend this seminar? Everyone involved with making castings.

Seminar Schedule

Green Mill, 2705 Annapolis Lane North, Plymouth, MN 55441

| | |
|----------|--|
| 11:45 am | Check-in |
| 12:00 pm | Robb Schmidt, Grede St. Cloud |
| 12:45 pm | Jay Zins, Dotson Iron Castings |
| 1:30 pm | Break |
| 2:00 pm | Shelly Dutler, IMERYS |
| 2:45pm | Randy Oehrlein, Carley Foundry |
| 3:30pm | “Shake Out Session” (Q & A, and Review Castings) |
| 4:00pm | Conclusion |

AFS Dinner Meeting Schedule

| | |
|--------|---|
| 5:00pm | Social Hour |
| 6:00pm | Dinner |
| 7:00pm | Shelly Dutler, IMERYS |
| | “Building Teams to Eliminate Casting Defects” |

A casting defect may have more than one root cause involving variables spanning multiple departments. Sharing process information and knowledge is essential to fully resolving the defect. As a group, we will discuss the benefits and methods for working in teams and building strategic technical partnerships.

Cost:

\$105 Seminar and Dinner Meeting

\$ 75 Seminar Only

\$ 30 Dinner Meeting Only

Choose attendance option online.

Register by March 6th at 12:00 p.m.

<http://www.afstwincities.org>

Professional Development Hours Certificates Available (3 hours)

