
The Ductile Iron Society held the 57th spring Annual 2015 Meeting at the Grand Geneva Resort & Spa in Lake Geneva, WI from June 3 to 5th. The DIS Research Committee Meeting was held on the Wednesday morning June 3rd with 39 members and 3 guests attending, and then followed by the Operating Committee Meetings that same afternoon. At 3pm the Board of Directors held their Spring Board meeting and at the same time the DIS MetalCasting Forum was held. The Board approved a new budget for the fiscal year 2015/16 effective July 1, 2015. At the same time they elected 3 new Board Members to replace the retiring Board members, Dan Salak of ASK Chemicals, Kirk McCullough of Seneca Foundry and Frank Headington of Neenah Foundry. The Board elected John Davies of Lethbridge Iron, Frank Headington of Neenah Foundry (2nd term) and Jim McMinn of Allied Mineral Products.

The Research Committee completed one project in 2015 and is looking to finish the second one very shortly. The committee approved a new project #54 by Rick Gundlach for $19,000 on “Pearlitic Ductile Iron and the Conflict with Boron – Phase #1.

On Thursday the technical program consisted of 6 speakers along with 2 panel presentations. The first was “Back to Basics” and the subject this time was Green Sand Molding. The second Panel was “Conversion Success Stories”. You can find more about the presentations attached to this newsletter. If not available, you can contact Jim Wood, the DIS Executive Director at jwood@ductile.org.

At the luncheon on Thursday, June 4th we had a special guest in Brian Lewis, the new Executive Director of the Foundry Education Foundation (FEF) made a brief presentation about what is new with the FEF.

After Brian’s presentation the president of the DIS, Bob O’Rourke of Dura-Bar proceeded to hold the Annual Meeting for the members who were there in attendance.
Here are the notes from Bob’s presentation;

At this time I will recap the Society’s activities during this past year before proceeding with the Annual Business Meeting and the election of new officers. The Member Services Committee had our table top on display back in October 14 at the FundiExpo in Monterrey, Mexico. Thanks go out to Patricio Gil and the other employees of Blackhawk de Mexico for all their help in setting things up and offering transportation back and forth from the hotel to the exhibit hall and back. Also special thanks go out to Gene Muratore and Al Alagarsamy for presenting during the technical session of the exhibition. They also assisted in the booth. In April 2015 we again exhibited at the 119th AFS Casting Congress in Columbus, Ohio. Thanks go out to Mark Beers of ASK, Prem Mohla DIS consultant and Marc King of Globe Metallurgical.

We are striving to make the library available to the members through the website. There is a link to the “Lyle Jenkins Library” under the member’s only area. These books are a collection of Art Spangler, Lyle Jenkins, P.H. Mani and Keith Millis. Also on the website we have brought back the “Ask the Experts” again.
This current fiscal year, we gained 12 new members. They are;

- H-Bar USA (China)
- Ancast Industries Inc.
- Auburn Analytical
- Badger Mining
- C.A. Lawton
- Midvale Industries
- Kore Mart Limited
- THORS LLC
- ESI Group NA
- MeltLab Systems

Re-joining the DIS was;

- Hunter Automated Machinery
- Mid-City Foundry
- Torrance Castings

We lost 1 Foundry Member and 1 Associate Member.

During this past year we held two general meetings. The first one was our annual meeting held in Lethbridge, Alberta, Canada in conjunction with a tour of Lethbridge Iron Works in Lethbridge with 122 attending including 14 guests. The second meeting held last October was the 2014 T&O Meeting held in Decatur, IL in conjunction with a tour of Decatur Foundry. The attendance for that meeting was 154 including 25 guests.

The Ductile Iron Society held a Production Seminar back on February 10 & 11, 2015 at the Hilton Garden Inn at O’Hare Airport in Chicago. The attendance was 34 for this seminar. Thanks go out to our instructors who were Jim Csonka of Hickman, Williams & Company, Jim Wood of the Ductile Iron Society, Kathy Hayrynen of Applied Process, Gene Muratore a DIS Consultant and Andy Adams of Foseco. Next year we are planning on adding a new section covering Compacted Graphite Iron and Dave Gilson of SinterCast has volunteered to instruct the class.
Back in January 2015 the DIS entered into an agreement with THORS LLC of Medina, Ohio to develop an online teaching program on Ductile Iron. The DIS Research Committee has assisted in reviewing the final content. Members of the DIS will be given a discount to purchase this online teaching tool. More information is available on the DIS website.

Four Keith Millis Scholarships were awarded at the 2014 FEF College Industry Conference held on November 20 & 21, 2014 at the Westin Hotel in downtown Chicago. The DIS would like to thank John Keough and Gary Gigante for selecting the students. This year’s winners were Samuel Edwards of Virginia Tech, Devan Denney of Pittsburg State, Alan Gooden of the University of Alabama-Birmingham, and Brandon Wervey of the University of Wisconsin-Platteville. Each student received $3000. Once again this year’s 2015 CIC Conference is in November at the Westin Hotel in downtown Chicago and we will again hand out $12,000 in scholarships to 4 deserving students. This past year the DIS donated another $50,000 to the Keith Millis Scholarship Fund. Also the DIS donated $4000 to the Bill Sorenson scholarship fund.

The DIS again had a booth at the conference where we handed out T-Shirts to all the students attending. This year’s t-shirt caption was “Ductile Iron has balls”. We also wish to thank our sponsors of the T-Shirt program. They are Applied Process, Allied Mineral Products, ASI International, ASK Chemicals, Buck Company, CoorsTek, Dotson Iron Castings, Dura-Bar, Elkem, Fairmount Santrol, FerroPem/Ferroatlantica, Foseco, Globe Metallurgical, Green Packaging, Hitachi Metals Automotive Components, Hickman, Williams & Company, Magma Foundry Technologies, Pure Power Technologies, Rochester Metal Products and Waupaca Foundry.

The Research Committee met three times this past year. They completed two projects and the second one just needs to be posted. The first one was #51 on “Fatigue Resistance of weld Repaired Ductile Iron Castings by Bill Mohr of the Edison Welding Institute in Columbus, Ohio. The second project #52 was “Evaluation of the Influence of Barium, Silicon and Inoculation in Counteracting the Effects of Increased Manganese Levels on Varying Section Thickness of Ferritic Ductile Iron” by Rick Gundlach of Element Materials Technology in Wixom, MI, Justin Lefevre of Joyworks and Rob Logan of Elkem.
The Research Committee awarded one new project #53 on “Reducing the Casting Skin Effect in Ductile Iron Castings to the University of Alabama-Birmingham for a cost of $18,700. The Research Committee is looking for approval by the Board of Directors on a new project for $19,000 on “Pearlitic Ductile Iron and the Conflict with Boron” by Rick Gundlach of Element Materials Technology.

**We will now proceed with the Annual Business Meeting.**

We have 1 associate member retiring from the Board of Directors as of June 30th. He is Dan Salak of ASK Chemicals LP. We also have 2 foundry members retiring from the Board. They are Kirk McCullough of Seneca Foundry and Frank Headington of Neenah Foundry. We would like to thank each gentleman for their volunteered service for the last 3 years to the DIS. If there is anyone that might be interested in volunteering their time to join the DIS Board of Directors, please let Jim Wood know.

To replace those retiring board members, the nominating committee recommends the following slate to serve on the board of directors for a 3 year term effective July 1, 2015. They are:

- Jim McMinn of Allied Mineral Products (Associate)
- John Davies of Lethbridge Iron Works (Foundry)
- Frank Headington of Neenah Foundry (2nd Term) (Foundry)

Bob asked the attendees to approve the slate. The attendees voted unanimously to approve the slate. The Board of Directors also approved the slate.

**Meeting Closed**
Bob O’Rourke – DIS President
June 4, 2015

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At the banquet on Thursday evening, Bob O’Rourke was the master of ceremonies and his first function was to introduce the guests who came to attend this meeting. They were;

Eric Wittrock of GMT Corporation
Clark Gerszewski of Pillar Industries
John Spindler of the Hill and Griffith Company
Brian Lewis of the FEF (Foundry Education Foundation)

And the Charter Dura-Bar guests who were Pete Murray, Rhett Meal, Ray Staral, Mike Fornaciari, Kirk Hessemann, Pete Schumacher, Dave Seitz, Lisa Seitz, Mark Schneiderman, Joe Richards, Carrie Hladilek, Megan Windsor & Krista Billert.

Bob then presented membership certificates to the following new members of the DIS since the October 2014 meeting and the representative from the company attending the meeting.

They were;

(L), Jim Wood (DIS) Tony Clark of Midvale Industries & Bob O’Rourke (DIS President)

Bob then introduced Jim Csonka (Hickman, Williams & Company) the morning technical chair to come to the front for presentations of a small gift to the morning speakers.
(L), Jeremy McLimans (Hickman, Williams & Company) & Jim Csonka

(L), Al Alagarsamy (THORS LLC & DIS Consultant) & Jim Csonka

(L), Bob O’Rourke (Charter Dura-Bar) & Jim Csonka

(L), Steve Ryan (Badger Mining Corp.) & Jim Csonka

Larry Kaiser (American Colloid)

(L), Dave McKeever (Waupaca Marinette) & Jim Csonka
Bob then asked Kathy Hayrynen of Applied Process, the afternoon session chair to assist in handing out the speaker gifts.

Senthil Kumar of THORS, LLC
(L), Kathy Hayrynen and Gerardo Garza (Blackhawk de Mexico)

(L), Kathy Hayrynen and Tony Lindert (Oshkosh Corp.)

(L), Kathy Hayrynen & George Maska (Caterpillar, Inc.)

Steve Metz (Applied Process)

(L), Kathy Hayrynen & Bill Mohr (Edison Welding Institute)
Bob then asked the following Board of Directors who were retiring to come to the front for their certificate of service for the last 3 years.

From left, Jim Wood (DIS), Kirk McCullough (Seneca Foundry) & Bob O’Rourke

From Left, Jim Wood (DIS), Dan Salak (ASK Chemicals) & Bob O’Rourke
Frank Headington of Neenah Foundry was absent from the banquet but was voted in to a second term as a director. We will post a picture when he retires in 3 years. Once again Bob introduced the new directors as mentioned earlier in this article.

This was a special evening as the DIS celebrated the “DIS Lifetime Achievement Awards” to two very deserving members. The Lifetime Achievement award is presented to members who have shown over the years their service and dedication to the Society. Bob asked longtime member Tim Brown of Benton Foundry to come to the front to introduce our first award recipient.

Richard (Dick) McMinn of Buck Company

From Left are Tim Brown (Benton Foundry), Dick McMinn (Buck Company) and Bob O’Rourke

Dick served on the Board of Directors from 1983 to 1997. In 1993 he became the President of the DIS from 1993 to 1995. He then continued to serve on the Board for another 2 years. In 1991, Dick was awarded with the DIS Member of the Year- Outstanding Contribution. Dick has always been a strong supporter of the DIS.
Pete Guidi of Hitachi Metals Automotive

From left are Tim Brown, Pete Guidi and Bob O’Rourke

Pete served on the Board of Directors from 1997 to 2007. In 2005 he became the President of the DIS from 2005 to 2007. In 2011, Pete was awarded the Member of the Year-Outstanding Contribution. Since 2008 and to this day, Pete serves as our treasurer of the DIS. He continues to be a strong supporter of the Society.

Congratulations to Dick McMinn & Pete Guidi
On Friday, June 3rd the group toured Charter Dura-Bar. Pete Murray of Charter Dura-Bar gave a brief description of the plant and company history. He then handed over the program to Rhett Meal to explain what everyone was going to see and the safety rules. Thanks to Pete & Rhett along with all the other folks from Dura-Bar that assisted in the arrangements for the tour.

Pete Murray of Dura-Bar
Rhett Meal of Dura-Bar

Dura-Bar tour

This concluded the 2015 Spring Annual Meeting in Lake Geneva, WI. There were 122 in attendance and we wish to thank every one of them and their companies for allowing them to attend. We hope to see everyone at the Fall T&O Meeting to be held at the Ho-Chunk Casino in Baraboo, WI from October 28-30, 2015 in conjunction with a tour of Grede Reedsburg.
2015 Gear Expo in Detroit, MI

The DIS will be exhibiting at this year’s AGMA Gear Expo 2015 on October 20-22, 2015 at the Cobo Center in Detroit, MI. The DIS has been assigned booth #2044. Once again this is being supported by the DIS DIMG (Ductile Iron Marketing Group) so that we can pass along to the attendees the advantages in using ductile iron in the gear application.

DIMG/Design with Ductile Iron Seminar

The DIS will hold the second Design with Ductile Iron Seminar on Tuesday, October 27, 2015 at the Ho-Chunk Casino and Resort in Baraboo, WI. (Wisconsin Dells Area)

The seminar will run from 9:00 am – 3:00 pm for any of our DIS members who would like to invite their customers or any design engineers to attend. This is sponsored by the Ductile Iron Society and will be organized by the Ductile Iron Marketing Group. Here is a tentative schedule for this meeting.

9:00 – 10:00am Introduction/Video
10:00 – 11:30am Basics of Ductile Iron – Properties, Micro-Structures, Standards Processing and Compacted Graphite Iron Overview
11:30 – 12:00 Ductile Iron Casting Design and Conversions
12:00 12:45pm Lunch
12:45 – 1:45pm Ductile Iron Casting Design and Conversions, Cont...
1:45 – 2:00pm Ductile Iron Machining
2:00 – 3:00pm Heat Treating of Ductile Iron
3:00pm Q & A, and Adjournment

Watch the DIS website for more information and look for future notifications. There will likely be a limit to the number of attendees. There are rooms in a block and set aside for this seminar. The room rate is $109.00 per night. Call 1-800-7462486 ext. 7878 and mention booking ID #4377. Lunch and breaks will be supplied. This will be free to any attending.
The Ductile Iron Society invites current and potential customers of DIS members to a seminar on ductile iron. The “Design with Ductile Iron” seminar is a one day learning opportunity for OEM and end-user sourcing personnel, design and application engineers, and management to discover the many advantages and benefits of using ductile iron for weight reduction, improvement in material properties, and replacement of weldments. DIS members are welcome to attend the seminar with their customers. The seminar is sponsored free of charge by DIS.

“Design with Ductile Iron”
Sponsored by the Ductile Iron Society
Tuesday, October 27th, 2015
9:00AM – 3:00PM
Ho Chunk Indian Casino and Resort, Wisconsin Dells Area
S3214 County Hwy BD, Baraboo, WI 53913

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The seminar will be held in conjunction with the Annual Fall Meeting of the Ductile Iron Society in Baraboo, WI. DIS non-member attendees of the seminar are cordially invited to attend the Fall Meeting at the normal registration fee. For further information on the Fall Meeting, please visit the DIS website: [www.ductile.org](http://www.ductile.org). Click on “View Event” under Calendar/2015 Fall Meeting.

Attendance at the “Design with Ductile Iron” seminar will be limited to 75 attendees, so please register early using the following link: [https://events.r20.constantcontact.com/register/eventReg?oeidk=a07 ebbbardge7e86582&oeseq=&c=&ch=](https://events.r20.constantcontact.com/register/eventReg?oeidk=a07 ebbbardge7e86582&oeseq=&c=&ch=)

Registration deadline is October 8.
Obituary – Scott William McIntyre
February 28, 1968 - July 5, 2015

Scott William McIntyre, 47, of Cedar Falls, died Sunday, July 5, 2015, at the University of Texas W. D. Anderson Cancer Center in Houston, Texas. He was born February 28, 1968 in Marquette, Michigan, the son of Charles William and Leila W. (Birch) McIntyre. Scott married Carmen Pickworth on February 27, 1993 in Lansing, Michigan.

He earned his B.S. and M.A. degrees in Metallurgical Materials Engineering from Michigan Technological University in Houghton, Michigan. Scott was a materials engineering manager for John Deere & Company in Waterloo. He was a member of the American Foundry Society, Ductile Iron Society, and the Iron Casting Research Institute.

Scott is survived by his wife, Carmen McIntyre, of Cedar Falls; his son, Collin McIntyre and his daughter, Casey McIntyre, both of Cedar Falls; his mother, Leila McIntyre, of Iron Mountain, Michigan; his brother, Dale Charles (Michelle) McIntyre, of Irvine, California; his brother, Dale Charles (Michelle) McIntyre, of Irvine, California; two nieces, Megan McIntyre of Columbus, Ohio and Erin McIntyre of Irvine, California, and a nephew, Eric (Kathryn) McIntyre, of Portland, Oregon.

He was preceded in death by his father. Memorials may be directed to Bay Cliff Health Camp in Big Bay, Michigan and the Leukemia and Lymphoma Society in White Plains, New York.

Jim Wood
DIS Executive Director

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Jim Wood
DIS Executive Director
SPEAKER BIOS AND LINKS - AM SESSION

Jeremy McLimans:  Jeremy has a BSc in Manufacturing Technology Management with a minor in Metals Technology Management from the University of Wisconsin-Platteville.  Jeremy was an FEF scholar, receiving multiple scholarships including the Keith D. Millis at the CIC 2005.  He co-oped at Grede Foundries – Reedsburg Division where he conducted a research project involving advanced thermal analysis of ductile iron.  In 2006, he began working fulltime for Grede at Reedsburg as a Technical Process Engineer.  Jeremy then moved to Tennessee in 2009 to work for Precision Castings of Tennessee as the Director of Quality and Metallurgical Services.  In 2012, Jeremy began working for Hickman, Williams & Company out of the Chattanooga, TN office covering most of the Southeast.  He also is a part of Hickman, Williams & Company’s Technical Group, traveling US wide helping customers with technical based issues.  Jeremy is a board member for the AFS Tennessee Chapter and the Second Vice Chairman for the AFS Piedmont Chapter.  The DIS welcomes Jeremy who is here to talk about “Iron Filtration- A Fresh New Perspective” (no link available)

Al Alagarsamy:  Al received his BSc in Mechanical Engineering and his Masters in Foundry Science.  As most of you know if you have attended DIS meetings over the years that Al has presented many times.  He started his career here in the US at Woodruff and Edwards in Elgin, IL from 1970 to 1974.  He then went to General Iron Works in Englewood, Co from 1974 to 1977.  Then he moved to Grede Foundries from 1977 to 1992.  In 1992, he went to Intermet Corporation and then finished his career at Citation Corporation from 1996 to 2007.  Al then started another career by working as a consultant.  Today he consults with Ductile Iron Foundries in the areas of mostly Process Control.  Al over the years has served on AFS Committees including Research Board Chairman, and DIS Research Committee Chairman.  Al is the recipient of the AFS Scientific Merit Award and DIS Lifetime Achievement Award.  Today Al is also working with THORS in developing foundry related courses.  The DIS welcomes back Al who is here to talk about “Melt Quality and its Effect on Casting Quality” (link)
SPEAKER BIOS AND LINKS - AM SESSION, CONT'D

Bob O’Rourke:  Bob is a Product Engineering Manager for the Dura-Bar division of Charter Manufacturing and has over 31 years’ experience working on developing applications for continuous cast ductile iron barstock, specifically converting customers from steel to ductile iron by showing them the manufacturing benefits and cost savings through improved machinability. Bob also spends a lot of his time convincing engineers that ductile iron is an engineered metal having similar properties to carbon steel. He has authored papers on continuous casting and co-authored several papers with Dr. P.R. Gangasani on the fatigue properties and wear characteristics of all ductile iron grades. Dura-Bar recently teamed up with Milwaukee School of Engineering, Daman Products and Alro Steel to develop pressure ratings for ductile iron and SN curves for hoop stresses. Bob will be presenting the results of that study. Bob has served on the DIS Research Committee for years. He is also the Chairman of the applications sub-committee of the DIS Research Committee. Bob is also the current President of the DIS. The DIS welcomes Bob who is here to talk about “Pressure Ratings for Ductile Manifolds Applications” (link)

Steve Ryan:  Steve has been a member of the Badger Mining Corporation Foundry Sales Team since 2011. He has over 35 years’ experience in raw materials marketing, sales and sales management. Steve currently serves on the DIS Research Committee. The DIS welcomes Steve who is here to talk about “Industrial Sand Market Update” (link)

Larry Kaiser:  Larry graduated from the Western Michigan University. He has over 30 years’ experience in the foundry industry including metallurgy, melt and sand systems. He is the past chairperson of the AFS 4M committee. Larry joined the American Colloid Company in 2013 and is currently the Technical Sales Manager. The DIS welcomes Larry who is here to talk about “Clay and Green Sand Additives” (link)
SPEAKER BIOS AND LINKS - AM SESSION, CONT'D

Dave McKeever: Dave started working for Waupaca Foundry in May of 1992. He progressed into working with the sand system in 1995 and was mentored by Gary Gigante and Tom Davies of Carpenter Brothers. In September 1999, he stepped in as the first 6 Sigma Black Belt role for Plant 4 at the same time helping with start up at Waupaca Plant 6. In September 2003, he accepted the position of molding supervisor at Pant 4 in which he still currently doing, and yes he is still in charge of the sand system. He is married with 3 children. The DIS welcomes Dave who is here to talk about “Practical” Green Sand (link)

Mike Galvin: Mike graduated in 1986 with his BSc in Metallurgical Engineering from Montana Tech. He was raised for most of his life in Phillipsburg, NJ. He started his career at Victaulic in Easton, PA from 1988 to 1998 as a metallurgist. He then moved to Allied Mineral Products in Fort Washington, PA from 1998 to 2000 in Refractory Sales. Mike then moved to Electro-Nite in Philadelphia, PA from 2000 to 2001 as Foundry Product Manager and then moved over to Buck Company in Quarryville, PA from 2002 to present as the Technical Director. Mike is currently the Vice President of the DIS; he also served as director from 2005 to 2008. He was the Chairman of the Process sub-committee of the Research Committee and currently one of the voting members of the DIS Research Committee. Mike served as the Chairman of the AFS Keystone Chapter from 2007 to 2008. He also served as the AFS 2008 East Coast Regional Technical Chairperson. The DIS welcomes Mike who is here to talk about “Green Sand Control” (link)
SPEAKER BIOS AND LINKS - PM SESSION

DIKA HANDBAYANI: Dika Handayani is currently pursuing a Ph.D. degree in Industrial and Manufacturing Engineering at Penn State University. She received her bachelor’s degree in manufacturing engineering from Cal Poly Pomona. Dika has previously had internships in Spokane Industries and Applied Process Inc. She is also a member of AFS, SME and an FEF student. Dika was also one of our student attendees from last fall 2014 meeting in Decatur, IL. The DIS welcomes Dika who will present her work as graduate research assistant at Penn State on “Starting Recommendations for Machining Austempered Ductile Iron”. (no link available)

SENTHIL KUMAR: Senthil received his Bachelor of technology degree from Anna University in India and a Master’s Degree in Engineering from the University of Akron. Senthil is an entrepreneur based in Akron, Ohio, is the founder of THORS and an investor in several companies involved with the manufacture and distribution of engineered products. Senthil has more than two decades of experience in sales, marketing, distribution, and manufacture of a wide range of engineered products and commodities. THORS was launched in 2010 to help the manufacturing workforce obtain foundational and experiential manufacturing process knowledge in a structured way that enables effectiveness and profitable growth. Today, THORS has active customers in 5 continents. The DIS welcomes Senthil and AL who are here to talk about “New Ductile Iron Teaching Tool” (no link available)

SCOTT CASE: Jim Wood, the DIS Executive Director made the presentation in place of Scott who was unable to attend this meeting. (no link available)
SPEAKER BIOS AND LINKS - PM SESSION, CONT'D

GERARDO GARZA: Gerardo graduated with his Mechanical Engineering Administrator FIME from the Universidad Autonoma de Nuevo Leon in 1994. He has been working for over 16 years but the last 13 have been in the foundry business. He started in 1999 when he joined Quimmco Centro Tecnologico as a tooling chief engineer and he stayed until late 2002. He then moved to Castech in 2002 as the product engineer in the aluminum foundry. In 2003 he joined Blackhawk de Mexico as the engineering Manager and is currently employed there after 12 years. At Blackhawk, Gerardo has passed through engineering, quality manager and sales manager. Currently he is charge of the engineering department which is responsible to do all the feasibility studies for potential new business and also to lead and develop once awarded to the foundry. The DIS welcomes Gerardo who is here to join this panel on Conversion Success Stories. (no link available)

TONY LINDERT: Tony Lindert graduated from the University of Minnesota – Twin Cities in 2009 with a bachelor’s degree in Material Science and Engineering. He worked for three years at 3M in their Electronics Markets Materials Division prior to joining Oshkosh Corporation in 2012. At Oshkosh Corp, Tony works within the Corporate Materials and Processing Department focusing on material testing, failure analysis, MAGMA simulation, and offering casting expertise to design engineers throughout the corporation. The DIS welcomes Tony who is here to join this panel on Conversion Success Stories. (no link available)

GEORGE MASKA: George Maska is a graduate of Pittsburg State University in Pittsburg KS. George was the recipient of the DIS Keith Millis Scholarship in 2006. George worked as a summer intern at Farrar Corp in 2005 and Buck Company in 2006. George hired into a Manufacturing Leadership program at Caterpillar in January 2007 and has been at the Mapleton Foundry for 5 1/2 years of his Caterpillar career. The DIS welcomes George who is here to join this panel on Conversion Success Stories. (no link available)
SPEAKER BIOS AND LINKS - PM SESSION, CONT'D

STEVE METZ: Steve has worked in the metals manufacturing industry for his entire 23 year career. He was with Kohler Company for 14 years where he gained significant experience in quality systems, pattern and tooling design, process engineering, gating/risering design (using traditional and computer modeling methods) and operations management. He then worked for Castalloy (a division of Wheelabrator) as director of engineering for a jobbing foundry specializing in alloy white iron, stainless steel, alloy steel and Manganese steel production. Steve joined Applied Process in 2011 after having been a customer of or supplier to the company for 19 years and holds a BS and MS degree in Materials Engineering and MBA from the University of Wisconsin Milwaukee. Steve truly enjoys all aspects of the Applied Process value proposition, be it excellence in operations management, assisting customers in developing unique solutions to opportunities or problems as well as direct sales and educating customers through personal visits and presentations. The DIS welcomes Steve who is here to join this panel on "Conversion Success Stories" (link).

BILL MOHR: Bill Mohr is a Principal Engineer for EWI, a research and development company for manufacturing in Columbus, Ohio. Bill joined EWI 23 years ago and has worked in the structural integrity area, supporting a wide variety of manufacturing company clients. He has applied his understanding of fatigue and fracture to many metal systems from steels, to aluminum, titanium, nickel-base alloys and welded joints. His undergraduate degree is from M. I. T. and his graduate degrees are from Stanford. His father once ran the company Die Cast Electronics of Benton Harbor, MI. The DIS welcomes Bill who is here to talk about the "DIS Research Project #51 – Fatigue Resistance of Weld-Repaired Ductile Iron Castings" (no link available).
NEWS BRIEFS

SinterCast displays Compacted Graphite Iron technology at GIFA world foundry trade fair

[Düsseldorf, 16 June 2015] - SinterCast has taken the opportunity of the GIFA world foundry trade fair, held every four years in Düsseldorf, to display its industry leading Compacted Graphite Iron (CGI) process control technology and to promote the benefits of CGI. Representing 42 installations in 12 countries, the technology display presents foundry solutions for all levels of CGI production, including the Mini-System 3000 for prototyping and niche volume production; the System 3000 with SinterCast's patented feedforward optimisation of magnesium and inoculant prior to casting; and, the fully automated System 3000 Plus that additionally incorporates automatic feedback control of the base treatment process.

The SinterCast technology display promotes the use of CGI in a variety of components including exhaust manifolds and turbocharger housings, passenger vehicle cylinder blocks and commercial vehicle cylinder blocks and heads, with casting weights ranging from 5 kg to 300 kg. Prominent among the cylinder blocks on display is the world's first high volume CGI petrol engine cylinder block, the Ford 2.7 litre V6 EcoBoost, establishing a new benchmark for CGI in petrol applications. The display also includes a direct comparison between the Audi 3.0 litre V6 CGI cylinder block and the Mercedes 3.0 litre V6 aluminium cylinder block, highlighting that the assembled Compacted Graphite Iron engine is 125 mm shorter and weighs 15 kg less than the aluminium engine.

"GIFA provides an excellent opportunity to showcase our process control technology, to promote our material, and to host our current and potential customers from around the world" said Dr Steve Dawson, President & CEO, SinterCast. "With series production that has increased by more than 50% since the last GIFA, we are excited to present the accuracy, reliability and robustness..."
NEWS BRIEFS

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of our control technology and to provoke the debate about lightweight engine technology. The cast iron foundry industry embraces and appreciates SinterCast as a leading voice in the campaign to convey the message that CGI engines can be smaller, lighter, stronger, quieter and less expensive than their aluminium counterparts, while providing significant life cycle energy benefits for society."

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ASK Chemicals Press Conference

Hilden, June 18, 2015 – During a press conference held at GIFA 2015 on June 17, speakers Frank Coenen, CEO of ASK Chemicals, Philip Vernon, Chief Business Development Officer, and Jörg Brotzki, Executive Vice President for Europe, presented the background and details of the strategic direction of ASK Chemicals.

CEO Frank Coenen talked about the new ownership structure and the associated benefits for the company. He stressed that the philosophy of the new shareholder Rhône was to invest in its companies – including ASK Chemicals – in order to make them more successful in the long-term. Coenen underlined the good reputation of ASK Chemicals on the market and referred to the company’s current and future strategy of working with customers on their growth objectives and offering them innovative products and comprehensive services to help them achieve these goals.

ASK Chemicals is a globally operative company with an international management team that takes on the challenges presented by the various markets. In the established markets, these challenges include pressure on margins and rising investment requirements, the complexity of materials and processes and the task of securing qualified specialist personnel. Growth markets, however, require a local presence and a product portfolio tailored to the region, as well as the appropriate organization and logistics. ASK Chemicals offers its customers tailor-made solutions to their problems in all markets. The company’s products and services set high standards within the industry.

The CEO summarized the company’s objectives as follows:

- Boosting the presence of ASK Chemicals in all foundry markets and, in particular, expanding in burgeoning markets such as China, India and Southeast Asia
- Continuous and targeted investment in R&D
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- Developing efficient and sustainable solutions for the industry
- Excellent service quality for customers.

Philip Vernon, Chief Business Development Officer, presented the global R&D network of ASK Chemicals and referred to its foundry-specific experience and expertise. The global network offers particular benefits. Knowledge of the local sands and other conditions means that customers of ASK Chemicals can rely on specific and quick problem and product solutions. Analytical and practical solutions are developed for specific customer requirements and new products through cooperation between the interdisciplinary teams. The latest example is the new technology of the ECOCURE™ BLUE cold-box binder system.

With this, ASK Chemicals has achieved a world first in developing a binder with cold box part 1 that contains no hazardous ingredients in accordance with the CLP Regulation. This is not only a key environmental benefit for foundries but also delivers outstanding performance at the same time.

In addition to this product innovation, Vernon presented further sustainable solutions and developments combining technological advances and economic efficiency, such as VEINO ULTRA 4618 for uncoated casting and MIRATEC TS self-detaching coatings.

Jörg Brotzki, Executive Vice President for Europe, demonstrated how ASK Chemicals structures processes as effectively as possible with its range of products and services and offers added value to customers.

Speed, innovation and technological leadership are critical factors in the success of foundries and can determine their competitiveness. ASK Chemicals experts in R&D, product management, application technology and technical sales work across disciplines along the entire process chain – from design services and simulation, model construction, core production, and molding systems to the melting process.
Mitutoyo Releases Power-driven Z-axis Measuring Microscopes

Latest models relieve operator fatigue.

For immediate release

AURORA, IL -- Mitutoyo America Corporation announces power-driven Z-axis models for the MF and MF-U line-up of measuring microscopes. The newest models include Z-axis motor-drive capability while retaining manual operation on the X and Y axes. The electrically driven movement for focusing provides better operability and relieves operator fatigue.

The viewing head is controlled using a jog shuttle placed near the remote control box. Limit the downward stroke of the head at any point by using the motor drive to set the lower limit of the head travel, which prevents the objective lens from colliding with the workpiece.

Additional features:

- Built-in quick-release mechanisms and the zero-set buttons. Intuitively perform XY movements using the quick-release mechanisms for simple and fast positioning that allow for hands to be kept on the handles at all times. Because the counter zero-set buttons are located near the handles the operator can concentrate on the eyepiece during measurement without the need to release the XY handles. Combine it with the optional image unit to perform ultra-fast, one-second focusing.
- Best-in-class wide field observation. The eyepiece field number of 24 (for WF10X) offers a wide field of view that helps prevent eye fatigue from extended observation of measurement.
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- of XY measurement range. Various stages are available to provide measurement up to 400 (X) x 200 (Y) x 220 (Z) mm.
- Image Auto-focus in combination with image unit. An optional image auto-focus feature allows the microscope to focus in just 1 second while achieving a focus as sharp as the human eye. With its 3-megapixel camera, high-resolution image observation is standard.
- Newly designed sliding nosepiece can be installed at the factory. Because these microscopes come with a turret nosepiece (factory-set option) attached, the magnification can be changed quickly. In addition, an LED ringlight can be attached to the nosepiece.

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Foundry Educational Foundation (FEF)

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CAST Portal

FEF's CAST Portal:

- Facilitates the internship, co-op, and first-time position search process.
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The web-based, “one-stop shopping” program to better connect FEF students to industry employers!

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ASIMCO International Casting Co., Ltd. (Shanxi) adopts SinterCast process control technology

- SinterCast System 3000 Plus to be installed at ASIMCO Shanxi foundry
- Planned production of CGI engine components for commercial vehicles
- Continued growth in Asia, with 18 installations in China, Korea, and Japan

[Shanxi and Stockholm, 17 June 2015] - ASIMCO International Casting Co., Ltd. (Shanxi), a leading independent automotive components group in China, has entered into a technology supply agreement with the Swedish process control specialist SinterCast for Compacted Graphite Iron (CGI) product development and series production. Under the terms of the agreement, SinterCast will install a System 3000 Plus process control system at the ASIMCO foundry located in Shanxi, China and provide engineering support for the establishment of a robust CGI series production process. With planned commissioning during 2015, the System 3000 Plus will control the CGI process including the patented SinterCast thermal analysis, automatic feedback control of the base treatment process by cored wire, and feedforward optimisation of magnesium and inoculant prior to casting.

"The installation of the SinterCast technology in our cylinder block and head foundry in Shanxi marks another important step for ASIMCO as a leading provider of passenger vehicle and commercial vehicle components" said Mr. Tian, Guozhu, General Manager of ASIMCO International Casting Co., Ltd. (Shanxi). "The global recognition of the SinterCast brand provides instant credibility for ASIMCO's CGI capability and, together with the reliability of the SinterCast technology and its engineering experience, provides a robust platform for ASIMCO to supply the growing Asian demand for CGI."
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"The ASIMCO installation becomes our tenth installation in China and our eighteenth in Asia, broadening our local presence and brand awareness, and increasing our opportunity to support the series production needs of the important Asian CGI market" said Dr Steve Dawson, President & CEO of SinterCast. "Since the launch of our System 3000 Plus technology in 2011, more than two-thirds of our series production installations have opted for the increased process efficiency provided by the automation of the base treatment process together with the security of our patented measure-and-correct process control strategy. We are pleased to support ASIMCO with this class-leading technology."

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