



SAE Milwaukee Newsletter

October 2012

www.milwaukeeesae.com

UPCOMING EVENTS

- COMVEC
 - October 2-3
- ATI Ladish Forging
 - October 17
- Small Engine Conference
 - October 16-18
- Collegiate Student Night
 - November 28
- Engine Concept Presentations
 - February TBD
- Johnson Controls
 - March 14

For more details, check out the upcoming events section or our website at:

www.milwaukeeesae.com



ATI Ladish Forging Wednesday October 17, 2012 Milwaukee, WI



Dinner and Technical Presentation

About Our Host,

ATI Ladish Forging was founded in 1905 as Ladish Drop Forge Company with a focus on serving the automotive industry. Thirty years later the company began forging propellers for the emerging aerospace industry. Today, with the world's largest isothermal press, counterblow hammer, ring-roll and shear-form mills, ATI Ladish Forging is embedded in the global aerospace supply chain.

Presenter: Jacob Knappmiller

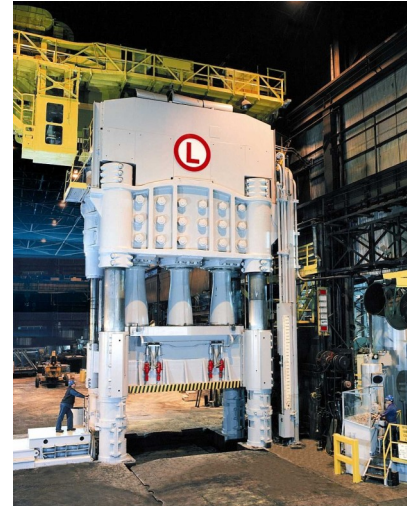
Position: Materials and Process Modeling Engineer (Since 2007)

Responsibilities:

- Provides analytical support through finite element analysis as a member of forging design teams for jet engine, industrial, military, and space applications
- Designs and executes experiments to increase the accuracy of finite element analysis
- Develops code to compute needed outputs from finite element models that are specific to the forging process

Education:

- Bachelors of Science, Mechanical Engineering from Milwaukee School of Engineering (2007)



Presentation Title: Finite Element Modeling and the Forging Process

- Introduction of ATI Ladish Forging
- Industries ATI Ladish Forging serves
- Background of the forging process
- The different forging processes used at ATI Ladish Forging and the applications each process serves
- How Finite Element Modeling is used to support the forging, heat treat, and machining processes

Due to increased safety restrictions, we are unable to conduct a tour of Ladish Forging

Additional Applications.....



CH 53 Heavy Lift Helicopter



Caterpillar 797



Rotor Hub from a CH53 Heavy Lift Helicopter
produced at ATI Ladish Forging

--- EVENT AGENDA ---

Registration: 5:30 pm

Dinner: 6:00 pm

Presentation: 7:00 – 8:30 pm

**Meal: Family Style Dinner including beef or chicken,
potato, vegetable, salad, and beverages**

--- DINNER ---

DINNER PRICES

SAE Members/Spouses	\$15.00
Retirees	\$15.00
Guests/Non-members	\$20.00
Students	\$10.00

REGISTRATION

Registration:

Only pre-payments made with a charge card can be completed online via <http://www.milwaukee.sae.com>

Registration Deadline: Monday October 15, 2012 at 12:00 pm (Noon)

Maximum Attendance for this event is 100

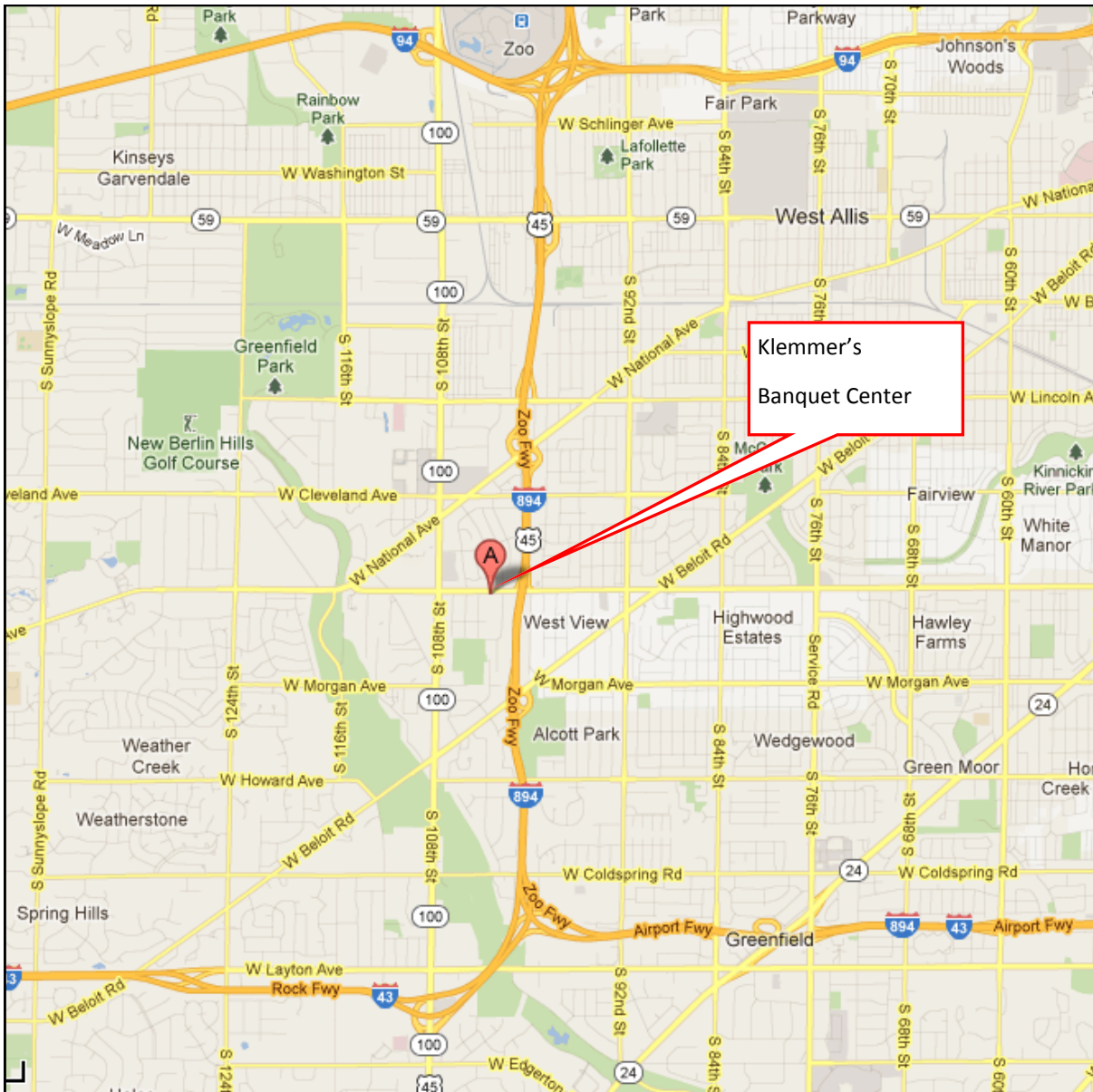
Registration can be completed online via <http://milwaukee.sae.org> Or by phone at 414-587-8855 (Josh Rayeske)

Meeting Location:

Klemmer's Banquet Center
10401 West Oklahoma Avenue
Milwaukee, WI 53227

Driving Directions:

- Take I 894 and exit at Oklahoma Avenue
- Turn onto Oklahoma Avenue and travel West approximately 1 1/2 blocks.
- Klemmer's will be on the South side of the street.



Upcoming Meetings and Events.....

Commercial Vehicle Engineering Congress “ComVec” *Rosemont, Illinois*

October 2-3

"Total Vehicle Integration"

With the recovery in the commercial vehicle market it is now more important than ever before to develop innovations in safety, fuel efficiency and engine emissions while **integrating** customer needs, internal and supplier capabilities and regulation driven systems.

The SAE Commercial Vehicle Engineering Congress (ComVec) is the source for information and resources to aid in the development of these innovations. ComVec brings together a global assembly of both on- and off-road professionals, providing solid, profitable interaction with engineers, supply managers and executives. The event features:

- Forums, presentations, and discussions by commercial vehicle industry leaders and innovators, focusing on global issues relative to technology, business, processes and challenges facing our industry today and tomorrow.
- Cutting-edge technical sessions for engineering professionals to learn, discuss, and benefit from the latest trends, technologies and potential solutions.

Small Engine Technology Conference “SETC”

October 16-18th

Madison, WI

The 2012 Small Engine Technologies Conference is the world's only small engine technology conference that brings together the best minds from OEMs, suppliers, and other professionals in the small engine space. This unique conference, co-sponsored by the Society of Automotive Engineers of Japan (JSAE), offers up-to-date information on pending legislation, emission reduction research, OEM developments, alternative powertrains, and positive effects on public health and the environment.

October Section Meeting - ATI Ladish Forging *Milwaukee, WI*

October 17

- Introduction of ATI Ladish Forging
- Industries ATI Ladish serves
- Background of the forging process
- The different forging processes used at ATI Ladish Forging and the applications each process serves
- How Finite Element Modeling is used to support the forging, heat treat, and machining processes

November Section Meeting - Collegiate Student Night *Milwaukee, WI (MSOE)*

November 28

- SAE Collegiate Design Projects will be on display and presentations given from local universities that our section serves.

Milwaukee Section 2012-2013 Governing Board

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MSOE—Charles Scanlon
UWM—Jacob Berman

Dear Members and Section Friends,

We're off to another record year of participation with over 100 attendees at the Ford GT kickoff event earlier this month. Professionals, students, and enthusiasts congregated around the display models and engaged in the presentation by Scott Ahlman. Visit our website at www.milwaukeeesae.com to browse the photo gallery from the event.

October's meeting with Ladish Forging comes in response to many suggestions submitted in last year's member surveys. We appreciate your input and have prepared another successful agenda. The SAE International ComVec will be held in Rosemont, IL on October 2nd-3rd followed by the Small Engine Technology Conference in Madison, WI on October 16-18th.

Our student chapters are busy preparing for the Student Grant Challenge at the November 28th section meeting. The Milwaukee School of Engineering (MSOE) will host this year's meeting. Don't miss this opportunity for hands on interaction with the student design vehicles, and learning about their challenges and accomplishments at last years competitions. It's also an opportunity for the professional members to critique the presentations and allocate this year's financial grants among the participating schools.

Thank you for your continued involvement with our Section.

Best regards,

Jim Ryan

Chairman – Milwaukee Section

Section Sponsors



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