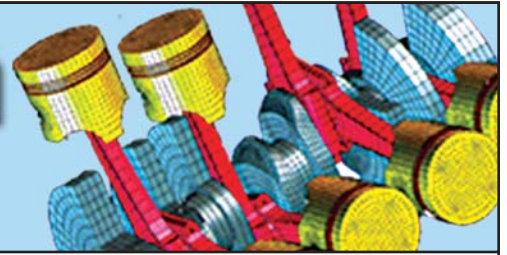


Internal Combustion Engine



2007 Spring Technical Conference to be held in Pueblo, Colorado

Tim Callahan and Kirby Chapman

The ASME ICED continues to look for ways to bring more value to our conferences. This spring, we partner with the Rail Transportation Division and IEEE to broaden the scope of the conference. The Transportation Technology Center, Inc., a subsidiary of the Association of American Railroads working under contract with the U. S. Dept of Transportation and Federal Rail Road Administration, serves as the conference host. The attendees will tour the TTCI proving grounds on Wednesday morning. Please note that to accommodate our partners, the conference starts on Wednesday March 14, 2007, instead of Monday. The conference concludes on March 16.

The venue for this year's conference will be the Pueblo Marriott adjacent to the Pueblo Convention Center. Pueblo is a short 45 minute drive from the Colorado Springs airport. The Technical Program is shaping up to have 80 to 100 technical papers, a tutorial, and an entire Track dedicated to the ARES and ARICE natural gas engine research programs. The ARES & ARICE Track will include paper presentations representing some of the most advanced

research in the world on the subject of natural gas fired reciprocating engines. Conference attendees will be able to attend any of the sessions hosted by ICED, RTD, and IEEE.

The conference begins with a Welcome Reception on Tuesday evening from 6:30 to 7:30 p.m. at the Marriott hotel. This is an excellent time to meet and greet your fellow engine enthusiasts. And of course, the Chair's hospitality suite will be open each night of the conference – this has proven a very successful meeting place to share thoughts and beverages.

The Technical Program will begin Wednesday afternoon at 12:15 p.m. following the TTCI morning tour. The Technical Program will continue through Friday morning, although the last ICED session is scheduled for Thursday afternoon. Session Topics include Advanced Materials, Emissions, Fuel Sprays, Combustion, Engine Modeling, Marine Engine Design for Low Emissions, Basic Engine Design, Lubrication & Friction, and the ARES-ARICE Symposium on Gas-Fired Reciprocating Engines.

As in the past, the Associates Meeting will be held on Wednesday

Editor: Suri Rajan

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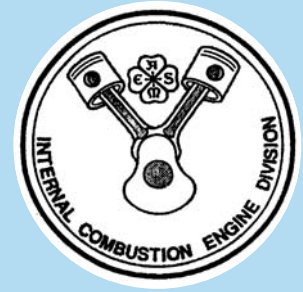
afternoon, from 4:45 to 6:45 pm, strategically scheduled so as not to interfere with technical programs or evening opportunities. The purpose of the Associates Meeting is to inform ASME-ICED Associates and conference attendees of the most recent and future division activities. The Division Executive Committee has been hard at work to find ways to increase the value of our conferences. The plans for future conference structure, timing, and locations will be discussed at the Associates Meeting. All ICED attendees are asked to attend and participate.

A block of rooms have been reserved for conference attendees at a special rate at the Marriott and other hotels in the area. Details can be found on the conference website at www.asmeconferences.org/jrc07.

See you there! ▶

Call For Papers

Internal Combustion Engine Division ASME International



Invites Papers for the
2007 Fall Technical Conference
October 14–17, 2007 • Charleston, South Carolina

Hosted by
Cummins MerCruiser Diesel &
Robert Bosch LLC

The 2007 Fall Technical Conference of the ASME Internal Combustion Engine Division will be held in historic Charleston, South Carolina, from October 14-17th. In addition to an interesting two-day technical program, the conference will include tours of Cummins MerCruiser Diesel's (a joint venture between Cummins, Inc. and Mercury Marine) manufacturing facility for marine applications and Robert Bosch's manufacturing facility for fuel injection systems including common rail and unit injectors.

Papers are invited for publication and presentation on all topics related to automotive, marine, locomotive, off-highway, and industrial internal combustion engines. Papers may address any aspect of the design, development or application of compression-ignition, spark-ignition, rotary, or reciprocating engines. Light-duty and heavy-duty engines, as well as large-bore internal combustion engine systems for power generation and transportation propulsion are welcome.

It is anticipated that technical sessions will span the wide range from fundamental research to practical in-use applications. Examples of topics include, but are not limited to, Engine Design, Advanced Engine Technologies, Fuels and Combustion, Instrumentation & Controls, Lubrication & Friction, Environment and End User Applications. Papers dealing with timely subjects such as MY 2007 on-highway diesel engines, Tier III locomotives, low temperature combustion, ultra-low sulfur diesel fuel, biofuels, hydrogen, emissions control systems, as well as instrumentation and control strategies to meet future emission standards are particularly encouraged.

Authors of all accepted papers are expected to present at the conference. Papers will be published in the Conference Proceedings on CD-ROM. Papers may also be submitted for publication in the Journal of Engineering for Gas Turbines and Power. Exceptional written papers and presentations will be considered for ASME ICE Division Conference awards. ASME review and publication policies will apply. The conference website, www.asmeconferences.org/ICEF07/, will be activated shortly to accept your 400-word (or less) abstract in text format. For further information, contact:

W. Stuart Neill

Technical Program Chair

National Research Council Canada

ICPET, Building M-9, 1200 Montreal Road, Ottawa, ON, K1A 0R6 Canada

Phone: (613) 990-2408 Fax: (613) 957-7869 Email: stuart.neill@nrc-cnrc.gc.ca

Important Dates

April 27, 2007	400-word abstract due, please submit online
June 8, 2007	Draft manuscript due for review
August 24, 2007	Final manuscript & copyright form due

Sacramento Fall Technical Conference Highlights

Tim Callahan and Kirby Chapman

The 2006 Fall Technical Conference was held at the Grand Sheraton in Sacramento, California. Papers presented specifically related to a variety of topics. A re-kindled tutorial session was added and included three outstanding tutorials specifically focused on engine emissions. The papers addressed many aspects of the design, development or application of compression-ignition (diesel), spark ignition, rotary or reciprocating engines.

The conference included several table-top exhibits. Attendees were able to exchange information with exhibitors during meals and breaks.

Technical sessions spanned the

range from fundamental research to practical in-use applications. Examples of topics included combustion, exhaust after-treatment, alternative fuels, lubrication, fuel injection and ignition systems, engine design, control and monitoring, engine monitoring and diagnostics, advanced engine concepts, component dynamics, wear, and materials.

All presented papers were published in the Conference Proceedings. The searchable CD was provided to all registrants and can be ordered from ASME for those unable to attend the conference. Attendees gathered each evening at the Chair's hospitality suite

to share information and thoughts on future conferences, share snacks and beverages with fellow engine enthusiasts, and have a down right great time.

The technical tour of the Union Pacific Rosemount Railyard provided a view of future locomotives including a 2006-model EPA Tier 2 locomotive and a prototype switcher ultra-low emission locomotive featuring twin Cummins QSX19G diesel-alternator gensets for motive power. The complexity of the U.S railroads is surprising and Mike Iden, Union Pacific conference host, provided an excellent overview of the industry and the challenges it must meet. ▶

Fall 2006 Sacramento Conference Awards Recognition

Abnash Narula

ICE'S 2006 FALL TECHNICAL CONFERENCE BANQUET was held at the Sheraton Grand Hotel, in Sacramento, California on Monday November 6, 2006. It has been a tradition at the Internal Combustion Engine Division for the past many years to recognize the members for their efforts and hard work at the fall banquet program.

Michael Iden was awarded a plaque for hosting the conference and as welcome speaker.

Neil X. Blythe received the award for his services for 6 years as a member of the executive committee and as retiring chairman of the ICED.

Stephan A. Ciatti received the ICE Division Speaker award for the able presentation of his paper "Influence of EGR on Soot /NOx Production in a Light Duty Diesel Engine" at the 2005 Fall Technical Conference in Ottawa, Canada.

Jin Wang received the ICE Division Speaker award for the able presentation of his paper "Ultra fast Metrology of Fuel Injection: Microsecond X-Ray Phase-Contrast Micro Imaging" at the 2006 Spring Technical Conference in Aachen, Germany.

Gong Chen, Jochen (Joe) Kindling and James H. Garrett were awarded ICE Division Meritorious Awards for many years of loyal service and worthy contributions on numerous committee assignments within the Internal Combustion Engine Division, for guidance and leadership in division activities to the benefit of the Engineering Profession and the ASME. Mrs. Garrett has been a part and parcel of ICED for a long time and was requested to join Jim in receiving this award. Joe Kindling was presented the award in a local hospital because he got sick and could not attend the banquet.

Victor W. Wong received the Richard S. Woodburry Award for eminent achievement and distinguished contribution to the management of those engaged in design, development, application and operation of internal combustion engines.

N. Richard Dunteman received the ASME Internal Combustion Engine Award for distinguished achievement in the design, development, and application of large engines for clients worldwide and for pioneering work in control of emissions in large engines for stationary and marine applications.

Timothy J. Callahan and Mary F. Ramos were awarded a plaque for their efforts as Chairperson and member of the local arrangements committee.

Awards were presented by Abnash Narula Chairperson of the Honors and Awards Committee. ▶

Enjoy the Pictures and Plan to Attend the Upcoming Conferences



Dr. Giacomo Falcucci, University of Roma Tre presents paper at conference



Guests socializing at the conference banquet



Secretary Jim Garrett and his wife pose with Andy Pope and Abnash Narula after receiving the Meritorious Service Award for many years of loyal service.



Past Chair Neil Blythe listens to citation before receiving Meritorious Service Award.



Joe Kindling with ICE Division Administrative Committee Members after receiving Meritorious Service Award



Richard Dunteman receives ASME ICE Award

pictures continued on page five

Pictures continued from page four



Mary Ramos and Tim Callahan are honored for their hard work on local arrangements for the conference



Conference attendees take a close up look at Union Pacific Railroad repair facilities



Huge railway Diesel locomotives can be fascinating



Michael Iden of Union Pacific (center) shows off special low polluting locomotives assembled for conference attendees



All aboard for the ride.



Big locomotives are just as much fun as small toys



Sitting at the Controls was just as much fun