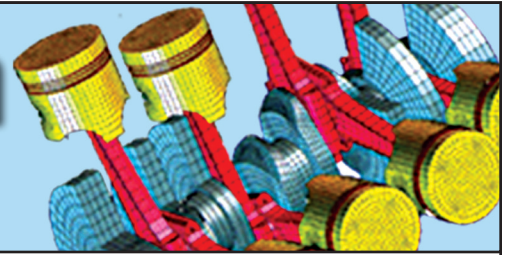


Internal Combustion Engine



From the Editor's Desk

Suri Rajan, Editor

The Fall 2008 edition of the ICE division Newsletter contains a wealth of details and highlights of the Division Activities. Please take a few minutes to reminisce about past Conferences and get involved in the exciting forthcoming events. Two Conferences are scheduled for 2009, one hosted by Waukesha Engine Company in Milwaukee, Wisconsin and an overseas Conference in breathtakingly beautiful Lucerne among the Swiss Alps. ▶

Chair's Message

Kirby Chapman



My term on the ICED Executive Committee is almost finished. Looking back on the experience, it is difficult to remember a time when I was not on the Executive Committee. During this period, I developed many new friendships both on and off the Executive Committee, and have enjoyed several technical conferences. These conferences and friendships represent the character of the Division. I then realized that "character" is an interesting word. Now, some of you might think I'm talking about my successor, Tim Callahan. While he might be a character, I have a different thought in mind. Character, by definition, is a complex set of attributes that defines a person or, in this case, a group of people. One does not typically talk about "improving character," but instead one talks about "changing character." During the last seven years, I have come to believe that "character" can be used to represent our Division. Our Division defi-

nately has character. It's not good, or bad, or something that can be improved. It is simply a description of who we are.

I became aware, later rather than sooner, that the Division is not necessarily characterized by the Executive Committee or, for that matter, by any individual. Now, before my fellow Executive Committee members string me up, let me point out that the Executive Committee is only one part of the Division and the work of the Executive Committee is, indeed, important work. But the work of many people within the Division is equally, if not more so, important. At the end of the day, the Division character is created by the associate members, the conference attendees, and the Executive Committee. You, as an associate member, author, reviewer, web master, presenter, session chair, committee member, committee chair, treasurer, secretary, attendee, planner, organizer, member recruiter, advisor, etc., play an incredible and vital role in giving the Division its character.

I have only three months left as Chair of the Executive Committee, but when I review my efforts over the last

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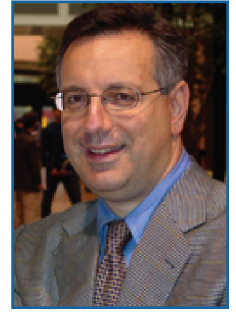
several years, I realize those efforts pale when compared to the people (you) who give our Division character. Without you, we wouldn't have a Division, and we certainly wouldn't have character. One thing is certain – our character has continually changed over the last seven years and most undoubtedly prior to that as well. Why does our character change? The plain and simple truth is that the Division character changes because you became involved.

As I said in a previous newsletter, the Division does not do anything. Instead, the people who join together

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New Executive Committee Member Dennis N. Assanis

Jon R. and Beverly S. Holt Professor of Engineering • Arthur F. Thurnau Professor University of Michigan



Professor Assanis received the B.Sc. degree in Marine Engineering from Newcastle University, England in 1980, and four graduate degrees from the Massachusetts Institute of Technology: S.M. in Naval Architecture and Marine Engineering (1982), S.M. in Mechanical Engineering (1982), Ph.D. in Power and Propulsion (1985) and S.M. in Management from MIT's Sloan School of Management (1986).

He has worked as Assistant and Associate Professor (with tenure) at the University of Illinois at Urbana-Champaign from 1985-1994. He joined The University of Michigan in fall 1994 as Professor of Mechanical Engineering. He has served as the Founding Director of the highly successful, interdisciplinary graduate program in Automotive Engineering between 1996 and 2002, and subsequently as Chair of the Department of Mechanical Engineering from 2002-2007. He has revitalized the Mechanical Engineering Department's teaching and research efforts in internal combustion engines and transformed the Walter E. Lay Automotive Laboratory into a beehive of research activity. He currently serves as the Director of the Automotive Research

Center, the Walter E. Lay Automotive Laboratory, and the Multi-University Consortium on Homogeneous Charge Compression Ignition Engine Research. He is also the Co-Director of the General Motors Collaborative Research Laboratory on Engine Systems.

Professor Assanis is recognized internationally for his innovative development of modeling methodologies and experimental techniques to shed light into complex thermal, fluid and chemical processes in internal combustion engines so as to improve their fuel economy and reduce emissions. He has published with his students and collaborators over 250 articles in journals and conference proceedings. Among other accomplishments, his group's work on homogeneous charge compression ignition contributes significantly to operating engines in low temperature combustion, ultra clean and fuel economical regimes that constitute a paradigm shift from today's practices. The engine system simulations Professor Assanis has developed with his students and collaborators are being used in industry and national laboratories. He is a Member of the National Academy of Engineering, a Fellow of the Society of

Automotive Engineers and a Fellow of the American Society of Mechanical Engineers. He has served three terms as Associate Editor of ASME's Journal of Engineering for Gas Turbines and Power and on the editorial board member of various other journals.

Dr. Assanis has received a number of prestigious awards which include the ASME Internal Combustion Engine Award (2008), the ASME Meritorious Service Award (1997), the ASME Internal Combustion Engine Division Speaker Awards (1993 and 1994), the ASME Pi/Tau Sigma Gold Medal Award (1990), the SAE Award for Research in Automotive Lubricants (2002), the SAE Russell Springer Award (1991), the SAE Ralph Teetor Award (1987), the American Society for Engineering Education Annual Distinguished Lecturer (2000), the NSF Presidential Young Investigator Award (1998-1993), the IBM Research Award (1991), the University of Michigan's Teaching Excellence Awards (1998 and 2000), and the UIUC University Scholar Award (1991-1994). ▶

Chair's Message

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with a common set of interests collectively comprise the Division and give the Division character. They are the people who plan, organize, and implement the conferences. They are the people who visit together in the hospitality suite until the wee hours of the morning. They are the people who attend and have a great time at the banquets. How do you know if you are one of those people? If you help someone with a presentation, offer encouraging words to a younger new attendee, review a paper, chair a session, or do any number of other things that shape the Division, then you are a part of the core group that creates the character of the Division. If you do not know what

I am talking about, then you are not in the core group. The question then becomes; how do you get into the core group? Unfortunately, that first step towards involvement is always the toughest. One of the easiest ways to become involved is to contact a member of the Executive Committee. They are listed in the newsletter. Each and every one of those individuals will help indoctrinate you into the Division. Another way is to attend the Associate's Meeting and the banquet, or the early bird reception on Sunday evening. Yet another way is to introduce yourself to a session chair. Once you have made contact, you will find numerous ways to become involved in a way that begins to influence the Division's character. The bottom line is that it is not that difficult to play a role in

creating and shaping our character. It is also the core group's responsibility to notice you, and then invite you to participate at a higher level in the Division.

So I challenge all of us who plan to attend next spring's conference in Milwaukee. If you are already in the "core group," then find someone who may not yet be a member of the core group. Invite this person to attend the banquet, or help this person find the hospitality suite. Bring this person to the Associates' Meeting, or just explain how the Division works. This is the way the core group will grow and create Division character. All you have to do is volunteer, and then you, too, can be a part of the Division's extraordinary character – a character that will continue to change as a reflection of the people who are the Division. ▶

Spring 2009 ICE Meeting to be held in Milwaukee, Wisconsin, May 3-6, 2009

Frank Aboujaoude and Stuart Neill

The Spring ICE conference will be held May 3–6, 2009, at the Inter-Continental Hotel in Milwaukee, Wisconsin. The Hotel is located in the heart of the theater district and city night life, within walking distance of the lakefront and just 15-20 minutes from Mitchell International Airport. We are excited to have Waukesha Engine as our local conference host.

Following our traditional Sunday evening reception, the conference will officially kick off on Monday morning with the 2009 Keynote Address. Following the Keynote Address, we are aiming for four parallel technical sessions, so attendees will be able to invest their time wisely on topics of interest. Papers are still being solicited 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. Papers on light- and heavy-duty engines, as well as large-bore internal combustion engine systems for power generation and transportation popul-

ation are welcome. All technical papers will be published on a searchable CD that is included in the conference registration fee.

The conference will also have a limited number of “Table Top” exhibits. This is a unique opportunity for suppliers to display their products and services to a focused group. The session breaks will be co-located in the exhibit area, adjacent to the Technical Sessions, to facilitate and encourage interactions.

The Spouses’ Program is being organized on Monday and Tuesday to showcase the finest attractions in the Milwaukee area.

The Honors and Awards Banquet will be held on Monday evening at the hotel. The banquet is a special event to recognize the outstanding achievements and dedicated efforts of our ICE Division colleagues. In addition to a delicious dinner and after the conclusion of the awards ceremony, the evening will feature live entertainment.

On Tuesday morning, the Technical Committees will break out for short meetings to organize their community activities. Following this meeting, the Associates’ meeting will take place.

Everyone is welcome and strongly encouraged to attend our Associates’ meeting to hear about recent activities at ASME, both at the headquarters level and within the Division, and to find out about the numerous opportunities to volunteer your time for the benefit of the Division and the worldwide engine community. Future ICE conferences will be discussed at the Associates meeting. On Tuesday evening, Waukesha Engine will be hosting a reception at the Inter-Continental Hotel, which will also include entertainment.

The conference will conclude on Wednesday morning with the technical tour hosted by Waukesha Engine. The tour will include Waukesha Engine manufacturing, assembly and production test facilities. Buses will depart the hotel at 8:00 a.m. and return to the hotel before 12:00 p.m.

Please remember to check the conference website, www.asmeconferences.org/ICES09/, on a regular basis as more detailed information will be posted as events are finalized. Also, authors are kindly reminded to submit your abstracts as soon as possible to enable us to put together a strong technical program. ▶

Lucerne, Switzerland to be the Site of the 2009 Fall Technical Conference

Frank Aboujaoude and Steve Ciatti

The 2009 Fall Technical Conference will be held in Lucerne, Switzerland. The target date for the conference is September 20-23, 2009. This will be the third ICE conference in recent years to be held outside North America. The conference will have the traditional format starting on Sunday night and concluding with the technical tours on Wednesday late afternoon rather than Wednesday noon.

Although Lucerne does not have an airport, the proximity of the Zurich International Airport makes Lucerne very accessible. Lucerne is 1 hour (60 km) by train from the Zurich airport and direct trains are scheduled every

hour. Driving from the Zurich airport is about the same distance and takes approximately 1 hour to Lucerne.

The geographical heart of Switzerland, more poetically described by Alexandre Dumas as “a pearl in the world’s most beautiful oyster”, Lucerne is an undeniably magical city. A medieval but still modern town nestled in a uniquely beautiful landscape - that is Lucerne, the city of lights. Its striking profile faces the world-famous Lake Lucerne (Vierwaldstättersee) surrounded by the impressive panorama of the Alps.

Lucerne was a fishing village in the Middle Ages but the modest settlement soon became an important trading center



after the St. Gotthard pass was opened and goods were transferred from ship to land transportation. The city was founded in 1178.

Dotted throughout with many Renaissance and Baroque fountains, colorful paintings on the gables and commanded

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2009 Fall Technical Conference

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by the two exquisite wooden bridges, the Mill Bridge (Spreuerbrücke) and the Chapel Bridge (Kapellbrücke) with the 13th century octagonal Water Tower (Wasserturm), Lucerne's character is pure charm.



The heritage of this historic locale and of Switzerland itself is palpable in every landmark. The Old Town Hall (Altes Rathaus) is a fine example of a Renaissance building whilst the City Wall (Museggmauer), built between 1350 and 1408 stands proud above the city.

A stroll along the quay takes the visitor past the modern Culture and Con-

vention Center, the KKL and onto the largest and most important Transport Museum (Verkehrshaus) in Europe, the only IMAX Film Theater and the only Planetarium in Switzerland.

The famous Lion Monument (Löwendenkmal) bears witness to the old tradition in Lucerne of mercenary soldiers. The nearby Glacier Garden, a geological phenomenon left over from the Ice Age with giant glacial potholes is a proof that Lucerne was once covered by glaciers.

Spectacular views and sights abound from almost every vantage point in and around Lucerne. Mt. Pilatus with the world's steepest cogwheel railway, Mt. Rigi, the Queen of the mountains, with Europe's oldest cogwheel railway, Mt. Titlis, the highest peak of Central Switzerland, covered with eternal ice and snow all year round and Mt. Stanserhorn with its revolving restaurant offer spectacular views over one of the most breathtaking landscapes on earth.



A paddle steamer ride around Lake Lucerne (Vierwaldstättersee) takes in the majesty and scenery of this beautiful area. A short drive will take you to the nearby winter resorts and many more lakes. This is the alpine range in central Switzerland where you will find glaciers, lush forests, verdant valleys and so much more.

The ICE Executive Committee is making every effort to keep the conference affordable. The conference website will be activated late this year and information will be posted as it is finalized. ▶

Spring 2008 ICE Chicago Conference Highlights

Tim Callahan and Steve Ciatti

The spring 2008 ICE meeting was held in Rosemont, Illinois on April 27-30. The conference venue was the Sheraton Inn and Suites which was located very close to O'Hare Airport making travel to the conference convenient for the 110 people that attended. The conference welcome reception on Sunday evening was well attended with plenty of delicious hors d'oeuvres. In a bold move, Division Chair Kirby Chapman decided to extend the revelry of the reception by opening the chairman's hospitality suite. The hospitality suite is traditionally opened on the final night of the conference but Chairman Chapman continues to forge new paths while bringing the ICE community closer together.

Dr. Rodica Baranescu, Manager of Fuels and Lubricants for Navistar Incorporated and the University of Illinois-Chicago, presented a very interesting keynote address entitled "Energy, Fuels, and the Environment – Present Challenges and Solutions for the Future".

Dr. Baranescu's presentation was very timely given the world's energy situation and focused on the growing demand for energy, new energy sources in the future, energy security, and minimizing the impact on the environment.

The conference featured over 40 technical presentations including a special session to showcase notable presentations from the 2007 CIMAC Congress. CIMAC, an international organization focusing on ship and stationary engines, and ASME ICE continue to have a cooperative and synergistic relationship. The technical sessions addressed many aspects of the design, development or application of compression-ignition (diesel), spark ignition, rotary or reciprocating engines. Topics covered included Advanced Combustion (HCCI and similar), Emission Control Systems, Fuels, Instrumentation Controls and Hybrids, Numerical Simulation, Engine Design Lubrication and Applications, and Large Bore Engines.

The conference included several table-top exhibits including those from DieselNet.com, Drivven, Inc., Johnson Matthey, ITEC Associates, Inc, and University of Wisconsin-Madison. Attendees were able to exchange information with exhibitors during meals and breaks. The technical tours of International Truck and Engine Company and Ricardo, Inc provided a view of future medium and heavy duty engines at ITEC, along with a peek at advanced heavy-duty engine research test facilities at Ricardo.

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 great time. ▶

ICED Awards Winners

The 2008 Banquet and Awards ceremony was held on Monday April, 2008 at the Sheraton Gateway Suites, Chicago, IL. Awards were presented by Abnash Narula, Chairman, Honors and Awards Committee of the ASME-ICE Division.



Dennis Assanis receiving the recognition of fellow grade.



Victor Wong receiving the recognition of fellow grade.



Rodica Baranescu receiving the keynote speaker award.



Mary and Timothy Callahan receiving the local arrangements award.

New on the Web

Jon K. Tice,
Website Administrator



Welcome to the inaugural column on the ASME-ICED website. The first of some exciting new changes is up and running and is a feature called "Engines Today". This website addition will feature highlights of key technology involving engines and engine technology in today's world. I hope that this site will offer new content three or four times a year of special interest to our readers. We will maintain "old issues" in order that newcomers can enjoy searching through these past features as the library gets bigger.

I am pleased that the first edition of this webpage is about the diverse and important work being conducted at the National Gas Machinery Lab (NGML) at Kansas State University (KSU). For a number of years I have been involved as an advisor and industry mentor for NGML in conjunction with industry sponsored engine research at KSU and am amazed at the talent and dedication displayed by the students and staff who contribute to these research programs.

To all my colleagues, please take time to visit this new site, and provide your comments, and mostly, suggestions for future features. Additionally, if you have any overall suggestion geared toward improving/enhancing our web presence, please let me know.

Thank you for your time, and I hope you enjoy this addition to the website! ▶

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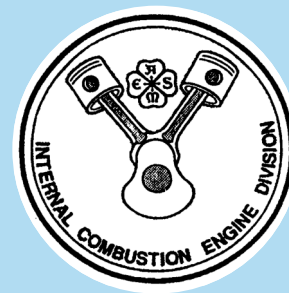
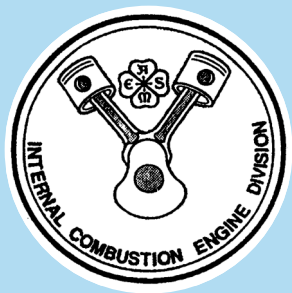
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New Associate

Dr. Avinash Agrawal, Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology, Kanpur, India joins a long list of ICE Division Associates who continue to be the backbone of the Division.

Call For Papers

Internal Combustion Engine Division ASME International



Invites Papers for the
2009 Spring Technical Conference
May 3–6, 2009 • Milwaukee, Wisconsin

Hosted by
Waukesha Engine

The 2009 Spring Technical Conference of the ASME Internal Combustion Engine Division will be held in beautiful Milwaukee, Wisconsin, from May 3–6th. In addition to a stimulating two-day technical program, the conference will include a tour of Waukesha Engine manufacturing, assembly and production test facilities.

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, Advanced Combustion, Fuels, Emissions Control, Engine Design, Lubrication, Instrumentation & Controls, Engine Applications (including hybrids), and Numerical Simulation. Papers dealing with large bore engine technology are particularly encouraged.

Authors of all accepted papers must present their papers at the conference. Papers will be published in the Conference Proceedings. A list of conference papers recommended for journal publication will be sent directly to the Editor of ASME Journal of Engineering for Gas Turbines and Power by the Technical Program Chair. Outstanding papers will be approved for fast-track journal publication, while papers requiring revisions will receive rapid additional reviews by the editorial team. The Editor (and/or the Technical Program Chair) will directly inform authors of the status of their journal papers. To prevent duplication and confusion, authors submitting papers to the ICED conferences should not directly submit their papers to the journal. Exceptional written papers and presentations will be considered for ASME ICE Division Conference awards. ASME review and publication policies apply. The conference website, www.asmeconferences.org/ICES09/, has been activated to accept your 400-word (or less) abstract in text format. For further information, contact:

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Important Dates

October 10, 2008	400-word abstract due, please submit online
December 5, 2008	Draft manuscript due for review
February 27, 2009	Final manuscript & copyright form due

ICED Board of Associates 2009 -2010

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