

HEAT TRANSFER DIVISION



The Heat Transfer Division's objective is to enhance the theory and application of heat transfer in equipment and thermodynamic processes in all fields of mechanical engineering and related technologies.

Summer 2011



Chairman's Message

By Louis A. Gritz

Energy, water, security, environment – now more than ever, virtually every major challenge faced by society to maintain and improve public well being involves heat transfer. With over 3000 members, the ASME Heat Transfer Division is clearly the place where breakthroughs in research, development, manufacturing and policy are made. The division continues to attract new members that show increasing energy and commitment to make a difference. I believe this new generation, growing up with widely available technology and gurus of social networking, will take the division to new levels of achievement and contributions to society. It is all of our jobs to make sure it happens, and soon, because the challenges we face can't wait.

The division is a good place as a start. As you will see from this newsletter, the division includes conferences with increasing attendance and improving quality, continued success of ASME's premier technical journal, The Journal of Heat Transfer, and a new rising journal focused on taking research to practical engineering solutions, the Journal of Thermal Science and Engineering Applications (JTSEA). One of the enduring challenges we face in the

2011 Summer Newsletter

Yong Tao, Media Editor



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HTD is the engagement of industry. The JTSEA is designed to serve as one more mechanism for publishing more applied work that promotes industrial participation.

The HTD Executive Committee has recently been working with the membership towards several significant achievements:

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Chairman's Message

- Improvements in conference quality by providing new incentives/and support for technical divisions to invite top quality plenary and keynote speakers.
- New communication opportunities, by working with the Fluids Engineering Division to make the International Conference on Nanochannels Microchannels, and Minichannels an ASME HTD/FED conference.
- Enabling greater contribution from members through pending Bylaw revisions that provide new flexible committee leadership service terms

Some next steps for the Executive Committee including working with the member development and long term planning committees to help them improve the future of the Heat Transfer Division. You'll read more in the message from incoming HTD Executive Committee Chairman James Klausner at the close of this newsletter.

The success of the ASME Heat Transfer Division, and progress on the challenges in energy, water, security, environment we all face depends on the time, energy and dedicated service of all the members. The more our members can make the time to contribute by

applying their expertise, the more progress we can make in three key objective areas:

- 1) Continue to improve the technical content of our conferences by helping organize sessions, submit and review papers
- 2) Increase the level of involvement of our members, especially
 - a. the next generation of students, and early career members, and
 - b. new and previously active, highly respected, members
- 3) Forge innovative opportunities to promote the mission of the division for advancing the heat transfer science and engineering

Thanks for membership in the ASME HTD. The future is yours – and you are in the right place to make greater difference. Please consider how you can best expand your role.

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2010 ASME Honors and Awards

By Yildiz Bayazitoglu

These honors and awards are presented to the distinguished scientists as below:

Heat Transfer Memorial Award:

The Heat Transfer Memorial Award is bestowed on individuals who have made outstanding contributions to the field of heat transfer through teaching, research, practice and design, or a combination of such activities.

Each award is based on achievement through publications, patents or inventions, in an area of heat transfer or through the application of science or art of heat transfer. One award may be made annually in each of the three following categories:

the science of heat transfer, the art of heat transfer, or the general subject of heat transfer.

The award was established by the Heat Transfer Division in 1959 and operated as a division award until 1974 when it was elevated to a Society award.

Science:



Sumanta Acharya

L.R. Daniel Professor and Fritz & Francis M. Blumer Professor (at Louisiana State Univ.)
Director, Thermal Transport Program, National Science Foundation, USA

Art:

(Continued on page 3)

2010 ASME Honors and Awards

Heat Transfer Memorial Award



Bengt Ake Sunden

Professor and Chair of Energy Sciences Department
Lund University, Sweden



"On the Mechanics of Vapor Bubble Collapse",
by ***L.W. Florschuetz and B.T. Chao***,
J. of Heat Transfer, pp. 209-220, May 1965.

Bergles-Rohsenow Young Investigator Award

The Bergles-Rohsenow Young Investigator Award in Heat Transfer is given to a young engineer who is under 36 and has received a Ph.D., or an equivalent degree in engineering. The individual must be committed to pursuing research in heat transfer, and must have demonstrated the potential to make significant contributions to the field of heat transfer. Such contributions may take the form of, but are not limited to, analytical/numerical methods, equipment/instrumentation, or experimentation - any of which should lead to peer-reviewed publications.

Established by the Heat Transfer Division in 2003, the award was funded through the efforts of Arthur Bergles and Warren Rohsenow who are well known for their accomplishments in heat transfer research and for their mentoring of young researchers.

Edmond Joseph Walsh

Senior Research Fellow
Univ. Limerick, Ireland

Heat Transfer Division Classic Paper Award:

(Highlights past exceptional papers and authors.
The papers must have been published at least 15 years ago.)

2011 Max Jakob Award Recipient

The Max Jakob Memorial Award is bestowed in recognition of eminent achievement of distinguished service in the area of Heat Transfer.



Amir Faghri

Professor of Mechanical Engineering
University of Connecticut

2011 ASME Distinguished Service Award

(2007 - 2010 Journal of Heat Transfer Division Editor)



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Yildiz Bayazitoglu

Chair, Honors and Awards Committee
Harry S. Cameron Chair
Professor of Mechanical Engineering
Rice University

Past and Future Conferences

8th ASME/JSME Thermal Engineering Joint Conference (AJTEC)



By James Klausner

Just prior to the start of the AJTEC a devastating earthquake and tsunami struck Japan, and a tsunami warning was issued for Honolulu, the conference site. After significant deliberation, ASME and JSME concluded that the conference should move forward as scheduled. The conference organizers quickly regrouped and developed guidelines to cope with the conference participants who could not travel to Honolulu due to flight delays and cancellations. Fortunately, Honolulu was not impacted by the Tsunami, and conference attendees who arrived in Honolulu for the conference were treated to beautiful weather.

AJTEC participants were greeted to a welcome reception at the Waikiki Marriot Hotel on Sunday, March 13. The strong turnout by Japanese participants at the conference was particularly impressive, considering the hardships faced by many. The conference was officially opened on Monday, March 14 with opening remarks by the conference Co-Chairs Koichi Hishida and James



Klausner and conference General Secretary, Isao Satoh. Following the opening remarks, two excellent Keynote lectures focusing on advanced power generation systems and multi-scale modeling techniques were presented by Mamoru Ozawa and Wei Shyy, respectively. The conference proceeded with ten parallel sessions and technical presentations from three different tracks: Track 1 Fundamentals of Heat and Mass Transfer, Track 2 Combustion and Energy Systems, and Track 3 Micro/Nano Scale Phenomena. The technical sessions were attended with great enthusiasm as was evident by the thoughtful questions and vigorous debate during technical sessions and coffee breaks.

On the second day of the conference, Issam Mudawar presented a Keynote lecture on the fundamentals of microchannel heat sinks and their application for a wide range of thermal management problems. The fourth Keynote lecture, presented by Bruce Drolan, gave an industrial perspective on the use of heat pipes for spacecraft thermal management. The fifth and sixth Keynote lectures were presented on the third day of the conference. Shuichiro Hirai discussed the significance of microscale transport on fuel cell and CO₂ sequestration applications while Christian Sattler gave an overview on the many different processes used to convert solar thermal radiation to fuel products. The final Keynote lecture was supposed to be presented by Takehiko Kitamori on the final day of the conference.

Unfortunately, he had to remain in Tokyo to respond to an emergency situation surrounding the earthquake. Instead his collaborator, Kazuma Mawatari gave an excellent lecture on micro and extended nano fluidics on a microchip. The AIChE Donald Q. Kern award lecture was presented by Mohamed El-Genk on the final day of the conference and his lecture focused on nucleate boiling enhancement using structured surfaces. The very high quality of technical presentations was reflected in the large number of attendees at the technical sessions throughout the duration of the conference.

AJTEC conference attendees gathered socially at the conference Banquet on the evening of Wednesday, March 16. This occasion was used to recognize the hard work of the many track and session co-chairs who worked diligently to organize and manage the review of the technical papers. The track co-chairs were presented with certificates of appreciation. The conference attendees were treated to entertainment by a traditional Hawaiian band and Hula dancers.

The AJTEC conference was closed on Thursday evening, March 17. With great enthusiasm surrounding the current conference, it was announced that the conference will convene again in four years in Honolulu. An attempt will be made to include KSME in the conference planning and organization. The next conference co-chairs from JSME

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and ASME were respectively announced as Yasuyuki Takata and Yong Tao. Yasuyuki Takata addressed the conference attendees and welcomed them back for the 9th ASME/JSME/KSME Thermal Engineering Joint Conference in June 2015.

James Klausner

Conference Co-Chair

Professor

Department of Mechanical and

Aerospace Engineering

University of Florida

**2011 ASME International
Mechanical Engineering
Congress and Exposition**



*By Louis A.
Gritz*

The Hyatt Regency Denver and Colorado Convention Center is the site of the 2011 IMECE on November 11-17. Once again, the Heat Transfer Division has teamed up with several other divisions to organize papers in several technical tracks. As a interdisciplinary meeting, HTD members have contributed works to a large spectrum of areas including Energy and Water, Nanotechnology, Biomedical, Advances for Process Industries, and others. Papers on fundamental and general heat transfer topics of broad application will be presented in the Heat and Mass Transfer Track organized by the Heat Transfer Division Executive Committee. The Heat



Transfer Committee on Fire, Combustion and Reacting Flows has once again taken a lead role and is organizing a very successful track on Combustion Science and Engineering. Over 350 abstracts have been submitted by HTD members, with full paper review currently being lead by a set of hard working by Session Chairs.

The HTD and the IMECE organizing committee have also sponsored three very special plenary talks;

- Dr. Art Bergles, Glenn L. Martin Institute Professor of Engineering at University of Maryland, and Senior Lecturer at Massachusetts Institute of Technology will speak on the importance of heat transfer in energy applications as part of the Energy and Water and Heat and Mass Transfer Tracks
- Prof Robert Brown, Anson Marston Distinguished Professor in Engineering, and Gary and Donna Hoover Chair in Mechanical Engineering at Iowa State University will provide a plenary on biomass renewable energy, during the Combustion Science and Engineering Track, and
- Dr. David Tillman, Chief Fuels and Combustion Engineer, Foster Wheeler, North America will present on power generation from biomass fuels, also as part of Combustion Science and Engineering.

The IMECE is also the annual event for presentation of the Heat Transfer Division Awards. This year the HTD is sponsoring a special awards luncheon that fits

conveniently in the schedule of the technical presentations, and is 50% funded by the division, allowing a greatly reduced cost of only \$23.

Registration is open now at www.asmeconferences.org/Congress2011. This promises to be a great meeting.

Louis A. Gritz, Ph.D.

Heat Transfer Division Representative

Vice President, Research

FM Global

**2012 ASME Heat
Transfer, Fluids, and
Nanochannels,
Microchannels, and
Minichannels Conferences**



*By Roy E.
Hogan*

Mark your calendars! Make you plans now! The ASME Heat Transfer and Fluids Engineering Divisions are pleased to invite you to the first joint meeting of the Summer Heat Transfer Conference, the Fluids Engineering Summer Meeting, and the International Conference on Nanochannels, Microchannels, and Minichannels. It's time to begin planning to attend the 2012 Heat Transfer, Fluids, and Nanochannels, Microchannels, and Minichannels Conferences

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(HTFNMM2012), July 8-12, 2012 at the Rio Mar Beach Resort in Puerto Rico. Don't miss this opportunity to participate in presentations of state-of-the-art technical work and to engage in interactions with other attendees. Benefit from the latest research advances in the heat transfer, mass transfer, and fluid mechanics communities. Plan on attending the HTFNMM 2012!

Submit your abstract today! Abstracts are presently being solicited for topics ranging from theoretical and fundamental research to applied research and development for industrial applications. Conference topics include applications in energy systems, combustion, aerospace, gas turbines, electronic equipment, biotech, manufacturing, environment, multiphase flows, and nano-, micro-, and mini-channels; as well as research in thermophysical properties, experimental measurements, flow visualization, and computational heat transfer and fluid dynamics. Don't miss the October 24, 2011 deadline for submitting abstracts.

For additional information, please see the conference website at <http://www.asmeconferences.org/HTFNMM2012/>. We look forward to seeing you at the 2012 HTFNMM!



Roy E. Hogan
Conference Co-Chair
Thermal and Fluid Processes
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***75th Anniversary of the
ASME Heat Transfer
Division (HTD) at the
2013 SHTC***



By

***F. A.
Kulacki***

and



***S. A.
Sherif***

includes several key members of the Heat Transfer Community in order to put a vision together and execute it for this event. The Committee will be expanded as time progresses towards the 2013 SHTC. We envision the formation of ad hoc subcommittees to serve the program elements as they are developed over the next several months. The Steering Committee is planning on holding its first official face-to-face meeting at the upcoming IMECE meeting in Denver. Prior to this meeting we will form up a program scope and suggested elements/events for discussion with the HTD Executive Committee. Members of the Heat Transfer Community are encouraged to submit their ideas to either Professor Kulacki or Professor Sherif prior to November 1, 2011.

The Heat Transfer Division (HTD) was founded in 1938. A celebration of the 50th Anniversary of the HTD was held in 1988 in Houston. The ASME Summer Heat Transfer Conference in 2013 will mark the 75th year of the HTD. Celebrations will take place at the Conference which will be held in Minneapolis. The Department of Mechanical Engineering at the University of Minnesota has agreed to be a host with no financial obligations, while the local section of ASME in Minneapolis will be approached to help with the organizational efforts of this historic event. A steering committee has been formed that

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Conference Chair
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S. A. Sherif
Technical Program Chair
Professor of Mechanical and
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Journal editors' message

Journal of Thermal Science and Engineering

Applications - Editor:

Michael Jensen



The *Journal of Thermal Science and Engineering Applications* focuses on the dissemination of information of permanent interest in applied thermal sciences and engineering and is intended to be complementary to the *Journal of Heat Transfer*,

which focuses on fundamental research. Contributions must have clear relevancy to an industry, an industrial process, or a device. While the processes and phenomena discussed may be complex, the results must have a relatively straightforward or feasible path to application. Subject areas could be as narrow as a particular phenomenon or device or as broad as a system. Papers are sought that have long-term relevance to specific applications including: original research of an applied nature; application of thermal sciences to processes or systems; technology reviews; and identification of research needs to solve industrial problems at all time and length scales.

Contributions should describe research in applied areas pertaining to thermal energy transport in equipment and devices, thermal and chemical systems, and thermodynamic processes, with an emphasis on application of the fundamentals to the solution of problems faced by industry. Topical areas include, but are not limited to, applications in: aerospace systems, gas turbines, biotechnology, defense systems, electronic and photonic equipment, energy systems, manufacturing, refrigeration and air conditioning, homeland security systems, micro- and nanoscale devices, petrochemical processing, medical systems, energy efficiency, sustainability, solar systems, and combustion systems. Discussions of problems, issues, or solutions in established industries are welcome; however, the emphasis will be on new and emerging technologies, significant questions, pressing problems and concerns, and new methods and approaches that can be applied to industrial problems.

Journal of Heat Transfer - Editor: Terry Simon



The *Journal of Heat Transfer* disseminates information of permanent interest in the areas of heat and mass transfer. Contributions may consist of results from fundamental research that apply to thermal energy or mass transfer in all fields of mechanical engineering and related

disciplines. The *Journal of Heat Transfer* is complementary to the *Journal of Applied Thermal Science and Engineering Applications*, which focuses on applications.

Journal of Heat Transfer topical areas include, but are not limited to: biological heat and mass transfer; combustion and reactive flows; conduction; electronic and photonic cooling; evaporation, boiling and condensation; experimental techniques; forced convection; heat exchanger fundamentals; heat transfer enhancement; heat and mass transfer; heat transfer in manufacturing; jets, wakes, and impingement cooling; melting and solidification; microscale and nanoscale heat transfer; natural and mixed convection; porous media; radiative heat transfer; thermal systems; and two-phase flow and heat transfer. Such topical areas may be seen in: aerospace; the environment; gas turbines; biotechnology; electronic and photonic equipment; energy systems, fire and combustion, heat pipes, manufacturing and materials processing, low temperature and arctic region heat transfer; refrigeration and air conditioning; homeland security systems; multi-phase processes; and microscale and nanoscale devices and processes. Also, archival results of research which focuses on the evaluation of thermophysical properties associated with heat and mass transfer as well as on the theory of heat and mass transfer are appropriate for the *Journal of Heat Transfer*.

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How the Journal of Heat Transfer and Journal of Thermal Science and Engineering Applications Work Together



By Terry Simon and Michael Jensen

The Heat Transfer Division (HTD) now has two archival journals addressing the thermal sciences. The Journal of Heat Transfer (JHT) disseminates information of archival value in the areas of heat and mass transfer. Contributions may consist of results from fundamental research that apply to thermal energy or mass transfer in all fields of mechanical engineering and related disciplines. The Journal of Thermal Science and Engineering Applications (TSEA) focuses on the dissemination of information of archival value in applied thermal sciences and engineering and is intended to be complementary to the Journal of Heat Transfer. The TSEA is two years old and was established by the HTD to address a need expressed by the industrial community within the HTD, as well as to provide a publishing venue for applied research topics that are not appropriate for the JHT.

Both journals use the same approach for handling submitted papers. For a paper submitted to the JHT or TSEA, we first quickly review its core topic, content, and coverage; if it appears that the paper is not of archival value or the content is not appropriate for the journal to which it was sent, we reject it outright or ask one of our Associate Editors to give us their opinion of the paper. If the paper is

appropriate for the journal to which the paper was submitted, we send it for review. However, if we deem a paper not appropriate for one of the journals (e.g., a paper that is more fundamental in nature is submitted to the TSEA, or an applied paper is submitted to the JHT), we either transfer the paper to the other journal, or remove/reject the paper and recommend to the author that it be submitted to the other journal. If a paper core topic is not appropriate for either the TSEA or JHT, then we either transfer it to another ASME journal (if appropriate) or remove it and suggest to the author another non-ASME journal for submittal.



Because of the volume of papers submitted to the well-established JHT, it is published monthly; as a new journal just being established, TSEA receives far fewer submissions, so it is published quarterly. However, the acceptance rate for the two journals is similar (between 25-35%). The TSEA delayed publishing its initial three issues in order to place the journal on a solid foundation; because of the hard work of the Associate Editors and Reviewers, it is now close to being published on time. This will permit TSEA to apply for inclusion in all indexing services (must have two years of publishing to qualify) and to start building an impact factor. We greatly appreciate your continued support of the JHT and TSEA, and we enthusiastically look forward to continuing to provide high quality publication services for the Heat Transfer Division.

Michael K. Jensen
Rensselaer Polytechnic Institute

Terrence W. Simon
University of Minnesota

Chair's Vision



By James Klausner

2011-2012 Chair

Rapid technological advances at the dawn of the 21st century have been accompanied by an invigorating interest in heat transfer and thermal engineering.

As an international leader in the field, the ASME Heat Transfer Division (HTD) will be called upon to provide leadership and venues for open discourse on great societal challenges such as affordable capture and harnessing of renewable energy, thermal management at unprecedented length and time scales, development of systems and components that approach theoretical limits of thermal efficiency, control of thermal transport in biological systems, efficient operation of high temperature reactors and processes, management of precious fresh water resources for power generation, among others.

As such, I am very excited to be leading the Heat Transfer Division through 2011-2012, and I look forward to working with the HTD technical committees to achieve our common goals. At the forefront is an initiative to energize our membership

to embrace the value of ASME participation and discourse.

Over the next year we will be encouraging our senior members to take on high level leadership positions within ASME; we will make a concerted effort to recognize technical excellence within the HTD through nomination of our membership for fellows and societal and divisional awards; and recognize outstanding technical publications in the Journal of Heat Transfer and the Journal of Thermal Science and Engineering Applications. We will make a concerted effort to insure your technical contributions are processed fairly and efficiently and get disseminated to our membership as quickly as possible. We will use our technical committees to introduce our younger members to organizational details of ASME, and develop them for future leadership roles. With these goals at hand, it is time to get to work, and I look forward to working with you to forge ahead with the ASME Heat Transfer Division leading the field forward.

James Klausner

2011-2012 Chair, Heat Transfer Division
Department of Mechanical and Aerospace
Engineering
University of Florida

Photographs from 8th ASME-JSME Thermal Engineering Joint Conference, March, 2011, Hawaii



Photographs from 8th ASME-JSME Thermal Engineering Joint Conference, March, 2011, Hawaii



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PASSING THE TORCH



Bei Tse Chao, an emeritus professor and former department head of Mechanical Science and Engineering, among a handful of individuals who were instrumental in developing the nuclear engineering program at the University of Illinois at Urbana-Champaign over 50 years ago, died Wednesday, March 2, 2011. He was 92.

(For more information, please refer to the link below
<http://npre.illinois.edu/news/?xId=0637081606860784>)



Warren Rohsenow, a highly regarded professor of mechanical engineering at MIT and the director of MIT's Heat Transfer Lab for many years died Friday, June 3, 2011, in his home in Falmouth, Maine. He was 90 years old.

(For more information, please refer to the link below
<http://meche.mit.edu/news/mechenews/index.html?id=120>)