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Heat Transfer Division Newsletter

A. M. Jacobi, Editor

Spring 2001

Chair's Remarks



Larry Witte

I am happy to report that Heat Transfer Division activities for the past and the upcoming year represent a vital contribution to the science and practice of heat transfer under the ASME aegis.

The 2000 National Heat Transfer Conference in Pittsburgh in August was very successful both in the numbers of heat transfer practitioners who attended and the quality of the technical program. Thanks are due to Prof. S-C Yao who did an outstanding job of coordinating the Conference for the Heat Transfer Division. Thanks are also extended to Dr. Jong Kim who coordinated HTD activities for the IMECE in Orlando in November. More than 100 more HTD presentations were scheduled for 2000 IMECE than for the 1999 IMECE in Nashville.

The Division has moved to a web-based system for coordinating both the NHTC and IMECE technical program for HTD. Prof. Yong Tao has taken the lead for this activity as the HTD Webmaster. We fully expect that the process of organizing our technical conferences will get more and more efficient with each conference cycle.

What are the Division's plans for the coming year? The following are some of the actions that will be taken by the Heat Transfer Division:

- Fund the Heat Transfer Memorial Award as a Society Award
- Continue to explore cooperation with other ASME Divisions and other societies to help NHTC and IMECE serve our membership better
- Continue to streamline the organization of technical conferences using web-based electronic techniques

The ASME Committee on Honors accepted the proposal of HTD to fund the Heat Transfer Memorial Awards as Society Awards. \$50,000 of the required \$75,000 has been assembled, and a fundraising effort led by Prof. Richard Goldstein of the University of Minnesota will be undertaken in the near future to raise the remaining required funds.

Opening discussions with the Fluids Engineering Division were held in Orlando at the 2000 IMECE. The possibility of holding a single conference covering both fluid mechanics and heat transfer at a single site will be discussed in the coming year. This is part of an effort to bolster our summer engineering conferences in the future.

The ad hoc HTD Education Committee has been moved to permanent status. It has been quite active in recent years in holding panels concerning important aspects of heat transfer education. It has also promoted a Heat Transfer Student Paper Contest at the last few IMECE's. The Heat Transfer Division has assisted in the travel expenses for the students to attend the contest.

The K-13 Committee has changed its name to the Committee on Multiphase

Heat Transfer, and the K-18 Committee is now called the Committee on Low-Temperature Heat Transfer. Both of these changes were made to more accurately reflect committee activities.

The Journal of Heat Transfer continues to be one of the leading journals in the world in heat transfer. It is also quite profitable, demonstrating the interest of the heat transfer community in it. Kudos to Dr. Jack Howell who has edited the journal for the past five years. Dr. Vijay Dhir has assumed the editorship for the next five years.

Larry Witte

New Editor for HTD Newsletter



Anthony M. Jacobi

Anthony M. Jacobi is the new editor of the HTD Newsletter. Please send any news item related to heat transfer or Division activities, and technical articles to be included in the Tech Brief to

him at: Professor Anthony M. Jacobi, Department of Mechanical and Industrial Engineering, University of Illinois at Urbana-Champaign, 1206 West Green Street, Urbana, IL 61801; phone: (217) 333-4108, fax: (217) 333-1942, or e-mail: a-jacobi@uiuc.edu.

THE MAX JAKOB MEMORIAL AWARD

The Max Jakob Memorial Award is bestowed in recognition of eminent achievement of distinguished service in the area of Heat Transfer. Made annually, without regard to society affiliation or nationality, the Award consists of a bronze plaque, an honorarium, and an engrossed certificate.

The Award was established in 1961 by the ASME Heat Transfer Division in honor of Max Jakob, a pioneer in the science of heat transmission, commemorating his outstanding contributions as a research worker, educator and author. In 1962, AIChE joined in the Award, which is administered by a Board of seven, three from each Society, and the Past Chair.

1999 Max Jakob Award



Adrian Bejan

Adrian Bejan received his B.S. (1972), Honors Course, M.S. (1972), Honors Course, and Ph.D. (1975) degrees in mechanical engineering, all from the Massachusetts Institute of Technology. He taught at M.I.T.

until 1976 as a Lecturer and Research Associate. From 1976 until 1978 he was a Fellow of the Miller Institute for Basic Research in Science, at the University of California, Berkeley. He is professor at Duke University since 1984.

Professor Bejan's research covers a wide range of topics in thermal engineering: entropy generation minimization, exergy analysis, natural convection, combined heat and mass transfer, convection in porous media, transition to turbulence, melting, solidification, condensation, fouling, solar energy conversion, cryogenics, applied super-conductivity and tribology.

More recently, he developed research projects on contaminant removal (ventilation) from enclosures, convection from surfaces covered with flexible fibers, the optimal geometry of electronics packages cooled by forced convection, and the structural theory of shape and structure in nature. His current research is sponsored by the National Science Foundation.

Professor Bejan has made significant contributions to the globalization of thermal engineering. The most important element of his achievements during the past year was the international exposure that he brought to US thermal engineering research and education. He was the chief organizer of the USA- South Africa Workshop on "Energy and the Environment" held at the University of Durban-Westville. He also organized in Romania the first ever NATO Advanced Study Institute on "Thermodynamics and the Optimization of Complex Energy Systems".

Professor Bejan is the author of 10 books and 300 journal articles. He is a recipient of the Worcester Reed Warner Medal, the James Harry Potter Gold Medal, the Gustus L Larson Memorial Award, and the Heat Transfer Memorial Award in Science, all from the American Society of Mechanical Engineers. He was also awarded the J. A. Jones Chair at Duke (1989), and eight honorary doctorates at foreign universities.

2000 Max Jakob Award



Vedat S. Arpaci

Professor Arpaci has made important discoveries on the optical dependence of radiating gas instability, two radiating gas constitutions (one being for the thick gas behavior near boundaries and the other one

being for the thin gas behavior far from boundaries), the photon-vibration interaction in radiating plasma kinetics, the splitting of heat flux in terms of entropy flux which leads to new concepts such as thermal displacement and deformation, the microscales of complex turbulent flows, the discovery of the microscale foundations of what are usually assumed to be empirical heat and mass transfer correlations, and the discovery of a dimensionless number for natural convection involving a combination of both Rayleigh and Prandtl numbers.

In addition to his research, Professor Arpaci is known to be an enthusiastic educator who dedicates himself to producing outstanding scholars and teachers. He has been involved with the teaching and/or development of 16 courses covering many areas of the thermal sciences (fluid mechanics, thermodynamics, heat transfer, gas kinetics, radiation, combustion, stability, and turbulence), which cover all academic levels. He has also graduated over 40 doctoral students, many of whom have taught at the top universities.

Distinguished Lecturers Program (DLP)

An ASME International Section may select any of the speakers approved for the current year. All speakers are currently funded by ASME and not out of Section funds. Payment of honorariums is optional.

Please begin planning ASAP. Requests can be sent in long before the event, e.g. 6 or 9 months, and the spot will be reserved.

Date changes can be accommodated if necessary. Several Sections were disappointed this past year as their requests were received after all funds had already been committed.

For more information contact: **ASME, Distinguished Lecturers Program, Three Park Avenue, Mail Stop 23E6, New York, NY 10016-5990, Ph: (212) 591-7858, Fax: (212) 591-7437, Email: regionalsupport@asme.org or visit the webpage <http://www.asme.org/member/dlp.html>**

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.

2000 Recipients:

Ramesh K. Shah (Art)
Ashley F. Emery (General)
Ta-Shen Chen (Science)

Nominations Sought

Nominations for the Heat Transfer Memorial Award will be accepted through October 1 of each year for the awards to be made in the following year. The purpose of the award is to recognize outstanding contribution to the field of heat transfer through teaching, research, design, or a combination of such activities. For more information concerning the nomination procedures and requirements, please contact the 2001-2002 chairperson of the K-3 Honors and Awards Committee Chairperson, Professor James Beck, 1935 Danbury W., Okemos, MI 48864-1873.

HTD Members Elected to Fellow Grade

Van P. Carey
Marino Di Marzo
Thomas E. Diller
Mohamed S. El-Genk
Selcuk, I. Gucer
Alain J. Kassab
Wei Shyy
Steven W. Van Sciver
Yaman Yener

35th National Heat Transfer Conference

Anaheim Hilton and Towers Hotel

Anaheim, California

June 10-12, 2001

www.asme.org/conf/ht01

Welcome to the 2001 National Heat Transfer Conference (NHTC). This conference, sponsored by the ASME, AIChE and AIAA, is the premier technical meeting in the United States where heat transfer researchers and practitioners come together to present, discuss and learn of the developments in the field. The NHTC is held in three successive years, and in the fourth year the International Heat Transfer Conference is held at various locations in the world. I am honored and pleased to chair with Michael Jensen this year's conference. We look forward to a very successful meeting and hope that you will benefit personally and professionally from its technical content.

The technical program encompasses fundamentals and applications in bioengineering, electronic cooling, manufacturing, microchannels and microscale transport as well as more traditional aspects of conduction, convection, radiation and phase change with a broad range of applications. The technical program chair Dr. C.B. Panchal and the co-chair Dr. T. Bergman have selected technical sessions and papers with great care providing a balance between theory and practice. They are planning for six keynote addresses and several panel discussions in addition to the two award plenary sessions.

We are extremely pleased to offer you the possibility to participate to a novel opportunity with the co-location of the conference with the following five concurrent AIAA conferences: the Thermo-Physics Conference, the Fluid Dynamics Conference, the Computation Fluid Mechanics Conference, the Applied Aerodynamics Conference, and the Plasmadynamics and Lasers Conference. By registering for the NHTC conference, you may attend all the technical programs and the joint social events. The combined attendance to the six conferences is estimated in excess of 1000 participants.

Dr. Jensen and I would like to thank Mr. Wallace Cook, chair of the ASME Local Section, Mr. Long Pham, vice chair of ASME Region IX and Lynden Davis, Western Regional Office, for arranging a number of events to complement the technical program. We hope you will take advantage of the prime location for the 2001 NHTC to explore and enjoy Anaheim with its renowned attractions.

Finally, on behalf of the NHTC coordinating committee, I would like to express my appreciation to Ms. June Leach-Barnaby, Meetings Manager and Ms. Melissa Torres, Meetings Administrator for their help in planning and assembling the entire conference. I would also like to thank Dr. Michael Jensen for his support and for sharing with me the honor of chairing this year conference.

Marino di Marzo
2001 NHTC Chair

SCHEDULE OF EVENTS

Sunday June 10

8:00 - 10:30	Registration and Meetings
10:30 - 11:30	Plenary Lecture: Emerging Applications and Fundamental Challenges in Today's Technology, Richard W. Bartholomew
11:30-1:00	Lunch
1:00 - 2:00	Keynote 1: Gas Turbine Heat Transfer & Cooling Technology (Je-Chin Han) Keynote 2: Research Opportunities at the National Science Foundation (Stefan Thynell)
2:00 - 2:15	Break
2:15 - 5:15	Technical Sessions Block A (see next page)
5:15 - 5:30	Break
5:30 - 6:30	Max Jakob Award : Awarded to Vedat S. Arpaci
7:00 - 9:30	NHTC Annual Awards Banquet with after dinner speaker

Monday June 11

8:15 - 11:15	Technical Session Block B (see next page)
11:15 - 1:00	Lunch
1:00 - 2:00	Keynote 3: Nanoscale Transport Phenomena: Fundamentals and Technological Implications (Arun Majumdar) Keynote 4: Transport Phenomena in Fuel Cell-Systems (Bernard Baker)
2:00 - 2:15	Break
2:15 - 5:15	Technical Sessions Block C (see next page)
5:15 - 5:30	Break
5:30 - 6:30	Don Kern Award: Awarded to Theodore R. Bott
6:30 - 8:00	Opening Reception with AIAA

Tuesday June 12

8:15 - 11:15	Technical Session Block D (see next page)
11:15 - 1:00	Lunch
1:00 - 2:00	Keynote 5: Modeling of Solidification: From Dendrites to Castings (Christoph Beckermann) Keynote 4: Energy (TBD)
2:00 - 2:15	Break
2:15 - 5:15	Technical Sessions Block E (see next page)

The 2001 National Heat Transfer Conference will be held at the Anaheim Hilton & Towers hotel and the Anaheim Convention Center, CA. Anaheim has miles of beaches to explore, world famous attractions such as Disneyland and Knott's Berry farm, hundreds of fashion-setting stores and boutiques to be explored, and restaurants, cafes and microbreweries to suit every taste. Come and see it all for yourself...the fun starts here!

For More Information go to <http://www.asme.org/conf/ht01/>

Technical Sessions For 35th National Heat Transfer Conference

Block A Sunday 2:15 – 5:15	Block B Monday 8:15 – 11:15	Block C Monday 2:15 – 5:15	Block D Tuesday 8:15 – 11:15	Block E Tuesday 2:15 – 5:15
Session T01-01: Aerospace and Aerodynamic Heat Transfer	Session T15-01: Heat and Mass Transfer in Porous Media - I	Session T15-02: Heat and Mass Transfer in Porous Media - II	Session T15-03: Heat and Mass Transfer in Porous Media – III	Session T15-04: Panel on Porous Media
Session T12-03: Heat Pipes and Capillary Transport Systems	Session T06-01: Advances in Compact Heat Exchangers	Session T06-02: Enhancement in Heat Exchanger Systems	Session T08-01: Air-Conditioning, Refrigeration and Cryogenic Heat Transfer	Open
Session T16-01: Conduction Heat Transfer - I	Session T16-02: Conduction Heat Transfer – II	Session T19-03: Computational Heat Transfer in Reacting Systems	Session T07-01: Laser and Plasma Processing	Open
Session T18-01: Radiative Heat Transfer - I	Session T06-03: Enhancement of Boiling and Condensation Processes in Heat Transfer Equipment	Session T18-02: Radiative Heat Transfer - II	Session T10-01: Fundamentals and Applications of Boiling and Condensation	Session T10-02: Fundamentals and Applications of Boiling
Session T19-01: Computation of Multiphase Heat and Mass Transfer	Session T07-02: Transport Phenomena in Manufacturing and Materials Processing - I	Session T07-03: Transport Phenomena in Manufacturing and Materials Processing - II	Session T12-01: Fundamentals of Multiphase Heat and Mass Transfer - I	Session T12-02: Fundamentals of Multiphase Heat and Mass Transfer - II
Session T03-01: Fundamentals of Heat Transfer Modes Applied To Electronic Cooling - I	Session T03-02: Fundamentals of Heat Transfer Modes Applied To Electronic Cooling - II	Session T03-03: Fundamentals of Heat Transfer Modes Applied to Electronic Cooling - III	Session T03-04: Heat Pipes, Phase Change Materials and Thermosyphons in Thermal Management of Electronics	Open
Session T11-03: Combustion Diagnostics and Practical Combustion	Session T11-02: Aspects of Combustion Control - I	Session T11-02: Mathematical and Computational Modeling of Combustion - I	Session T11-04: Mathematical and Computational Modeling of Combustion - II	Session T11-05: Aspects of Combustion Control - II
Session T17-01: Convective Heat Transfer in Rotating Systems.	Session T17-04: Forced and Turbulent Convection Heat Transfer - I	Session T17-05: Forced and Turbulent Convection Heat Transfer - II	Session T17-03: Natural and Mixed Convection Heat Transfer - II	Session T17-06: Natural and Mixed Convection Heat Transfer - III
Session T20-01: Thermophysical Properties and Experimental Techniques - I	Session T20-02: Thermophysical Properties and Experimental Techniques - II	Session T17-02: Natural and Mixed Convection Heat Transfer - I	Session T04-01: Thermal Issues in Nuclear Systems and Advanced Reactors.	Session T04-02: Thermal Issues in Nuclear Systems and Advanced Reactors.
Session T19-04: Numerical Developments in Turbulent Heat Transfer	Session T09-01 Fundamental and Applied Microscale Transport Phenomena. - I	Session T09-03: Single and Two Phase Heat Transfer in Microchannels	Session T09-02: Fundamental and Applied Microscale Transport Phenomena - II	Session T09-04: Panel on Microscale Heat Transfer
Session T14-01: Melting and Solidification Heat and Mass Transfer - I	Session T14-02: Melting and Solidification Heat and Mass Transfer - II	Session T02-01: Heat and Mass Transfer in Bioengineering and Biotechnology	Session T05-01: Heat and Mass Transfer in Environmental and Renewable Energy Systems	Session T13-01: Control and Design of Thermal Systems

For full Technical Program details visit www.asme.org/conf/fed01

BSME-ASME International Conference on Thermal Engineering

This event will take place from December 31 2001 to January 2, 2002 in Dhaka Bangladesh. This event is organized by the Bangladesh Society of Mechanical Engineers in association with ASME.

This event will provide a forum for presenting the current research and dissemination activities in Thermal Engineering. The conference will consist of invited keynote lectures and technical sessions spread over 3 days. The areas to be covered in the conference will include but are not limited to: Industrial Fluid Mechanics; Multiphase Flows; New and Renewable Energy Technologies; Clean Energy Technology.

One feature of this conference is an industrial session that will be arranged on 2nd January 2002. Problems related to design, manufacturing, commissioning of thermal process equipment in industries will be the focal theme. Practicing engineers, designers and scientists, plan a number of poster/product demonstrations. There will be an open forum at the end of the session where participants will be able to share their experiences and seek views from experts in the field. For more information on this conference visit the Heat transfer division webpage <http://www.asme.org/divisions/htd/>.

First International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics

This event will take place from April 8-10, 2002 in Mapumalanga, South Africa. This event is organized by the South African Institution for Mechanical Engineering in association with ASME. To check how the program is developing check the Heat Transfer division webpage <http://www.asme.org/divisions/htd/> or check directly with the conference webpage <http://www.walthers.co.za/conference/hefat/>

Fifth ISHMT-ASME Heat And Mass Transfer Conference

This event will take place January 3-5, 2002 in Calcutta, India. This event is organized by the Indian Society of Heat and Mass Transfer in association with ASME. The Conference will review state-of-the-art, present results from new fundamental and applied research, identify possible areas of co-operation between industry and academia and the emerging thrust areas of research in heat and mass transfer. The program will include technical sessions, which include presentation of research papers, keynote addresses and also invited lectures delivered by eminent experts in the field. To check how the program is developing check the Heat Transfer division webpage <http://www.asme.org/divisions/htd/> or the conference webpage directly at http://education.vsnl.com/announcement_nhmtc

ALL COMMITTEE MEETINGS ARE SCHEDULED TO TAKE PLACE AT THE ANAHEIM HILTON HOTEL & TOWERS

COMMITTEE MEETING SCHEDULE*

Saturday, June 10

National Heat Transfer Conference Committee	1:00 - 4:00 p.m.
ASME HT Division Executive Committee	3:00 - 10:00 p.m.
AICHe HTEC Division Program Committee	4:00 - 6:00 p.m.
AICHe HTEC Division Executive Committee	6:00 - 10:00 p.m.

Sunday, June 11

K-8 Theory & Fundamentals of HT Committee	8:00 - 10:30 a.m.
K-2 Planning Committee	8:00 - 10:30 a.m.
K-11 Fire and Combustion Committee	8:00 - 10:30 a.m.
Kern Award Lecture Committee	8:00 - 10:30 a.m.
K-16 HT in Electronic Equipment Committee	8:00 - 10:30 a.m.
ASME HT Division Executive Committee	9:00 - 12:00 a.m.
K-6 Heat Transfer in Energy Systems Committee	2:00 - 4:30 p.m.
K-15 Trans. Phen. in Mfgng & Mtrls. Proc. Committee	2:00 - 4:30 p.m.
K-3 Honors & Awards Committee	2:00 - 4:30 p.m.
K-10 Heat Transfer Equipment Committee	2:00 - 4:30 p.m.
2001 IMECE Committee	2:00 - 4:30 p.m.
ANSTH Program Committee	3:00 - 5:00 p.m.
ANSTH Executive Committee	5:00 - 7:00 p.m.

Monday, June 12

K-18 Low Temp. and Arctic Region HT Committee	8:00 - 10 a.m.
K-13 Nucleonics Heat Transfer Comm.	8:00 - 10 a.m.
K-20 Computational Heat Transfer Comm.	8:00 - 10 a.m.
2000 IMECE Committee	8:00 - 10 a.m.
Jakob Award Committee	8:00 - 10 a.m.
K-17 Heat and Mass Trasn. in Biotechnology Comm.	10:00 - 12:00 a.m.
K-19 Environmental Heat Transfer Committee	10:00 - 12:00 a.m.
K-7 Committee on Thermophysical Properties	10:00 - 12:00 a.m.
Journal of Heat Transfer Editors	10:00 - 12:00 a.m.
K-12 Aerospace Heat Transfer Committee	2:00 - 4:30 p.m.
K-14 Gas Turbine Heat Transfer Committee	2:00 - 4:30 p.m.
2002 ASME/AIAA Joint Thermophysics Conference	2:00 - 4:30 p.m.
Membership Recognition and Development Committee	2:00 - 4:30 p.m.
Ad Hoc Heat Transfer Editors	2:00 - 4:30 p.m.
Heat Transfer Division Newsletter	8:00 - 10:00 p.m.
Heat Transfer Recent Contents	8:00 - 10:00 p.m.
Heat Transfer Government Relations	8:00 - 10:00 p.m.

Tuesday, June 12

K-5 Coordinating Committee	8:30 - 11:30 a.m.
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*Check webpage for locations of meetings at www.asme.org/conf/ht01

2000-2001 Heat Transfer Division

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K-17 Heat and Mass Transfer in Biotechnology

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