

**Memorial Slides of Colleagues
who passed away after IHTC-15**

Gad Hetsroni, 1934-2015



- ▣ Born 1934, Haifa, Israel
- ▣ B.Sc., 1957, Technion
- ▣ Ph.D., 1963, Michigan State University
- ▣ Technion faculty member, starting 1965
- ▣ Dean of Mechanical Engineering, Technion
- ▣ Delegate, AIHTC
- ▣ Founding Editor, International Journal of Multiphase Flow, 1973-1998
- ▣ Editor, Handbook of Multiphase Systems, 1982
- ▣ Vice-President, ASME International
- ▣ ICMF Senior Award, 2010

Significant contributions to:

- Multiphase flow and heat transfer
- Experimental and computational fluid mechanics and heat transfer
- Turbulent boundary layers
- Heat and mass transfer in microchannels
- Boiling and steam generators

Co-authored books:

- Fluid Flow, Heat Transfer and Boiling in Micro-Channels, Springer 2009
- Combustion of Two-Phase Reactive Media, Springer 2004

Yasutaka Nagano, 1943-2015



- ▣ Born, Mie Prefecture, Japan 1943
- ▣ MS, The University of Tokyo, 1968
- ▣ Nippondenso Co., Ltd. (DENSO), 1968-1969
- ▣ Research assistant, Nagoya Institute of Technology, 1969
- ▣ Ph.D., Nagoya University, 1978
- ▣ Professor, Mech. Eng., Nagoya Institute of Technology, 1984
- ▣ President, Japan Society of Fluid Mechanics, 2001-2002
- ▣ President, Heat Transfer Society of Japan, 2009-2010
- ▣ Chairman, International Symposium on Turbulence, Heat and Mass Transfer (THMT), 2000-2012

Awards

- ☆ JSME Best Paper Award (1988, 2004)
- ☆ HTSJ Outstanding Paper, 1992
- ☆ Fluid Science Research Award, 2001
- ☆ Distinguished Research Award, JSME Thermal Engineering Division, 2003
- ☆ Outstanding International Contribution, JSME TED, 2010.
- ☆ Honorary Members of JSME, HTSJ and JSFM

Nobuhide Kasagi, 1947-2015



- ▣ BE 1971, Dr. Eng. 1976, The University of Tokyo
- ▣ Lecturer, Mech. Eng., The Univ. of Tokyo 1976
- ▣ Associate Professor, Mech. Eng., The Univ. of Tokyo 1977
- ▣ Professor, Mech. Eng., The Univ. of Tokyo 1990
- ▣ Editor-in-Chief of Int. J. Heat and Fluid Flow (1993-2012)
- ▣ Member, Science Council of Japan, 2005
- ▣ Presidnet, Japan Society of Mechanical Engineers (2006-07)
- ▣ Vice President of International Centre for Heat and Mass Transfer (2010-2014)
- ▣ Vice President of the Assembly for International Heat Transfer Conferences (2010-2014)
- ▣ President, Heat Transfer Society of Japan (2011-12)
- ▣ Principal Fellow, Japan Science and Technology Agency, Center for Research and Development Strategy (2010-2014)

Awards

- ☆ Aurel Stodola Medal (2013)
- ☆ Luikov Medal (2013)
- ☆ ICHMT Fellowship Award (2012)
- ☆ William Begell Medal (2010)
- ☆ Intl. Fellow of Royal Academy of Engineering (2007)
- ☆ Member of Royal Swedish Academy of Sciences (2003)
- ☆ ASME Fellow (1994), JSME Medal for Outstanding Paper (1987, 1990, 2008, 2010)

D Brian Spalding, 1921- 2016



- BA in Engineering Science, Oxford University, 1944
- 1945-1948 Rocket Propulsion Establishment
- 1948-51 Doctoral research; 1952-54 post-doctoral research, Cambridge University
- 1954 – 88 Reader then (1958) Professor, Imperial College
- 1969 Created first CFD company, CHAM
- 1970 James Clayton Prize, Inst. Mech. Engineers, London
- 1978 Max Jakob Award , ASME
- 1979 Foreign Member, Roy. Norwegian Soc Sci & Letters
- 1983 Fellow of the Royal Society
- 1986 Luikov Medal, Int'nat Centre Heat & Mass Transfer
- 1989 Fellow, Royal Academy of Engineering
- 1994 Foreign Member, Ukrainian Nat. Academy of Sciences
- 1994 Foreign Member, Russian Academy of Sciences
- 2009 Global Energy Laureate, Global Energy Found. Russia
- 2010 Franklin Laureate in Mechanical Engineering
- 2010 A V Luikov Prize, Belarus Academy of Sciences,
- Published in excess of 300 technical papers/books and six volumes of poetry

Honorary doctorates

- Univ. of Erlangen-Nurnberg
- Moscow Energy Institute
- Imperial College, London

Founding Co-Editor

- *Int J. Heat & Mass Transfer*
- *Physicochemical Hydrodynamics*

Shi-Ming Yang, 1925-2017



Education

- BS 1948, Jiaotong University (China)
- MS 1950, Case Institute of Technology (U.S.A.)
- PhD 1953, Illinois Institute of Technology (U.S.A.) under supervision of Professor Max Jakob

Research contributions

Theoretical/experimental investigation of phase change heat transfer, heat/mass transfer in porous media, natural convection heat transfer, Theoretical analysis of thermocouple conduction error for high heat flux surface

Academic and public service

- 1956-1959, Associate Professor, Jiaotong University
- 1959-1985, Associate Professor and Professor, Xi'an Jiaotong University
- 1985-2017, Professor of Shanghai Jiaotong University
- Standing member of Executive Committee of Chinese Society of Engineering Thermophysics since 1980
- Vice Chairman of Chinese National Educational Advisory Committee on Thermal Engineering since 1980
- Honorary Editorial Advisory Board of International Journal of Heat and Mass Transfer since 1982
- Executive Committee and Scientific Council of the International Centre of Heat & Mass Transfer since 1987

Mains awards and honours

- Pioneer in heat transfer education in China
- Published the first Heat Transfer textbook in China (1958)
- Chinese National Excellent Textbook Award in 1988
- Chinese National Award for Distinguished Contributions in 1991

Yasuo Kurosaki, 1936-2017



- BE, 1960, Tokyo Institute of Technology
- DE, 1965, Tokyo Institute of Technology
- Research Associate, Mech. Eng., Tokyo Institute of Technology, 1965
- Associate Professor, Mech. Eng., Tokyo Institute of Technology, 1974
- Professor, Mech. Eng., Tokyo Institute of Technology, 1983-1997
- Professor Emeritus, Tokyo Institute of Technology, 1997
- Professor, The University of Electro-Communications, 1997-2017
- President of The Heat Transfer Society of Japan, 1997
- President of The Japan Society of Polymer Processing, 2000-2001
- Published more than 100 papers and 10 books, and 20 patents

Awards

- ☆ The best paper award, JSME, 1996
- ☆ Thermal Engineering Award for Outstanding Leadership, HTD, JSME, 1996
- ☆ The best paper award of The Japan Society of Polymer Processing, 1991, 1998

Arcot Ramachandran, 1923-2018



- ▣ BEngineering (Honours), 1943, University of Madras
- ▣ MS, PhD, 1945-49, Purdue University, USA
- ▣ Faculty, Indian Institute of Science (1950-1967)
- ▣ Director, Indian Institute of Technology Madras (1967-1973)
- ▣ Secretary (Founder), Department of Science & Technology, Government of India (1973-1978)
- ▣ Under Secretary General & First Executive Director UN Center for Human Settlements - HABITAT (1978-1992)

Founder President; Indian Society for Heat & Mass Transfer (ISHMT)
Founder; Regional Center for Energy, Heat & Mass Transfer for Asia & the Pacific
Pioneered National Program for R&D in Renewable Sources of Energy.

Awards

- ☆ Padma Bhushan Award by Government of India
- ☆ Distinguished Alumnus – Purdue University
- ☆ Fellow: American Society of Mechanical Engineers / Institution of Mechanical Engineers (UK) / Indian National Academy of Engineering (INAE) / Indian National Science Academy
- ☆ INAE Life Time Achievement Award
- ☆ World Federation of Engineering Organizations Award

Vladimir Nakoryakov, 1935 – 2018



- ▣ Born, Odessa, USSR
- ▣ 1958, Graduated from Tomsk Polytechnic Institute
- ▣ 1964, Ph.D. in Thermal Physics, 1971, Full Professor, Institute of Thermophysics, Siberian Branch of the Russian Academy of Sciences (RAS)
- ▣ 1981, Corresponding Member,
- ▣ 1987, Full Member (Academician) of the Russian Academy of Sciences
- ▣ 1982-1985 – Rector of Novosibirsk State University
- ▣ 1986-1997 – Director of the Institute of Thermophysics SB RAS
- ▣ 1985 – 1990 Vice Chairmen of the Siberian Branch of RAS
- ▣ 1991, founded Russian Journal of Engineering Thermophysics
- ▣ Published over 600 papers and 12 books
- ▣ *Awards:*
- ▣ State Prizes of the USSR and Russian Federation, Russian Government Prize, ICHMT Lykov Medal, order "For Merits before Fatherland" of the III and IV degree, orders "Badge of Honor", "Red Banner of Labor", "Order of Friendship", "Order of Saint Stanislaus of the III degree";

- ▣ Global Energy International Prize, 2007.

Michel Combarnous, 1940-2018



▣ Education

- Graduated from *Ecole Polytechnique* and *Ecole Nationale Supérieure des Pétroles et Moteurs*, 1965.
- Ph.D. in Physics, 1970, University of Paris VI, under the supervision of Edmond Brun.

▣ Academic and public service:

- Professor of Mechanical Engineering at University of Bordeaux
- Head of the University of Bordeaux (1996-2001)
- Member of the French Academy of Sciences
- Founding member of the French Academy of Technology
- Head of the Engineering Science department at CNRS (1980-1985)
- Co-founder of the EUROTHERM Committee
- President of the ICHMT (1994-1998)

▣ Interest areas

- Porous media
- Thermal convection
- Phase change and multiphase flows.

▣ Mains awards and honours

- Officer of the French Legion of Honour
- Officer of the French National Order of Merit
- Commander of the Order of Academic Palms.
- ICHMT Fellowship award

Shigeru Koyama, 1952-2018



- BE 1975, Dr. Eng. 1980, Kyushu University
- Engineer, Eng., Showa Denko K. K., 1980
- Associate Professor, Research Institute for Industrial Science, Kyushu University 1982
- Professor, Research Institute for Advanced Materials Study, Kyushu University 1995
- President, Japan Society of Refrigeration and Air Conditioning Engineers (JSRAE) (2015-2016)
- Professor Emeritus, Kyushu University(2018)
- Founder of Research Center for Next Generation Refrigerant Properties(NEXT-RP), Kyushu University (2016)

Researches

- ☆ Condensation & Evaporation of Alternative Refrigerants and their Mixtures
- ☆ Heat Pump Systems using Alternative Refrigerants

Awards

- ☆ IIR Science and Technology Medal by International Institute of Refrigeration(2015)
- ☆ Asian Academic Award by JSRAE, CAR and SAREK(2014)
- ☆ Heat Transfer Society Award for Scientific Contribution(2006)
- ☆ JSRAE Science Award(2006, 2010, 2013, 2015)
- ☆ JSME Fellow(2004), JSME Thermal Engineering Outstanding Researcher Award (2013)