

**Memorial Slides of Colleagues
who passed away after IHTC-16**

Geoffrey F. Hewitt, FRS, FREng 1934 – 2019



- ▣ BSc Tech (1954) and PhD (1957) in Chemical Engineering at the University of Manchester
- ▣ Division Head, Harwell (1957 - 1982)
- ▣ Professor of Chemical Engineering, Imperial College London (1985-2019)
- ▣ Founder, Heat Transfer&Fluid Flow Service- HTFS (1967)
- ▣ Executive Editor, Heat Exchanger Design Handbook (1982-2010)
- ▣ Fellow of the Royal Academy of Engineering (1985)
- ▣ Fellow of the Royal Society (1990)
- ▣ President of the Institution of Chemical Engineers (1989-90)
- ▣ President of the Assembly International Heat Transfer Conferences (1994-1998)
- ▣ Foreign Member, US National Academy of Engineering (1998)

Awards

- ☆ Luikov Medal (International Centre for Heat and Mass Transfer, 1982)
- ☆ Donald Q. Kern Award, AIChE (1980)
- ☆ Institution of Chemical Engineers Council Medal (1994)
- ☆ Max Jakob Award, AIChE and ASME (1995)
- ☆ Nusselt-Reynolds Prize (1997)
- ☆ Global Energy International Prize (2007)
- ☆ Sharma Medal, IChemE (2017)

Mário Costa, 1960-2020



- ▣ B.Sc. in Chemical Engineering, 1984, University of Coimbra, Portugal.
- ▣ Ph.D. in Mechanical Engineering, 1992, Imperial College, London, U.K.
- ▣ Professor of Mechanical Engineering at Instituto Superior Técnico, Univ. Lisboa, from 1992.
- ▣ Associate Editor of Proceedings of the Combustion Institute
- ▣ Member of the Editorial Board of Aerospace, Combustion and Flame, Energy Conversion and Management, Energies, and Energy and Fuels
- ▣ Main research interests: solid fuels (coal, biomass) and liquid fuel combustion, laboratory gaseous flames, control and formation of pollutants, mild combustion, ammonia combustion

▣ Awards:

- Caleb Brett Award of the Institute of Energy, U.K. - 1991
- Sugden Award of the British Section of the Combustion Institute - 1991
- Fellow of the Combustion Institute – 2020

David B. R. Kenning 1936 - 2021



- ▣ MA, 1958 University of Cambridge
- ▣ Harwell – Nuclear Engineer, 1958-1960
- ▣ PhD, 1963, University of Cambridge
- ▣ Oxford University Lecturer in Engineering Science, 1963-2005
- ▣ Fellow of Lincoln College, 1968-2005
 - Senior Tutor, Tutor for Graduates, Sub-Rector
- ▣ Sabbatical year at MIT USA, 1970-1971
- ▣ Supernumerary Fellow Lincoln College, 2005-2021
- ▣ Visiting Professor, Brunel University London, 2005-2021
- ▣ Associate Editor for the ASME Journal of Heat Transfer
- ▣ Research Contributions - established the research group at Oxford as a key international centre for nucleate boiling
 - Fundamental studies of boiling mechanisms based on localized measurements
 - Chaos and nucleation site interactions in pool boiling
 - First spatio-temporally resolved measurements of wall temperature and heat flux fields under sliding vapour bubbles.
 - Fundamental studies on flow boiling in confined passages,
 - Correlations for predicting pool boiling heat transfer rates.

Awards

☆ Visiting Fellowship – Japan Soc. for the Promotion of Science, Tokyo University, (hosted by Prof. M. Shoji), 2003

☆ Life Contribution to Heat Transfer, UK National Heat Transfer Committee, 2020.

Theodor W. von Backström, 1945-2021



- ▣ B.Sc. Eng. (Mech) cum laude, 1967, Pretoria University
- ▣ M.Sc. Eng. (Mech), 1971, Pretoria University
- ▣ Ph.D. (Mech Eng), 1980, Stellenbosch University
- ▣ D. Eng., 2012, Stellenbosch University
- ▣ Chair of Department of Mechanical Engineering, Stellenbosch University, 1986, 1992, 1996 – 1998, 2001 – 2002
- ▣ Supervised 70+ graduate theses, including 18 PhDs
- ▣ Wrote 150+ journal and conference papers
- ▣ Played a leading role in the development of turbomachinery in South Africa
- ▣ Qualified pilot in South African Air Force (rank of captain)

Awards

- **Fellow of the Aeronautical Society of South Africa**
- **Honorary Fellow of the South African Institution of Mechanical Engineers**
- **Member of the South African Association for Applied and Theoretical Mechanics**
- **Member of the Sustainable Energy Society of South Africa**
- **Member of the American Society for Mechanical Engineers**

Predrag “Pega” Hrnjak (1952 - 2022)



Career Highlights

- Dipl. Ing. (1976), M.S. (1984), D.Sc. (1992) in Mechanical Engineering, University of Belgrade, Yugoslavia
- University of Belgrade (1980-84, 1984-92, 1993-95)
- Danish Technical University, Lyngby-Kopenhagen (1984)
- University of Missouri, Rolla (1989-1990)
- University of Illinois at Urbana-Champaign, Department of M&IE / MechSE (1993-94, 1995 - 2022)
 - Stoecker Faculty Fellow and Distinguished Research Professor
 - Director, Air Conditioning and Refrigeration Center (ACRC)
- Creative Thermal Solutions, Inc. (CTS), Founder and President, 2003 - 2022

Research Interests and Contributions

Air-conditioning, refrigeration, heat pumps, transcritical CO₂, ammonia, microchannel and plate heat exchangers, heat transfer and pressure drop, flow visualization, two-phase distribution, effect of oil, natural and synthetic low-GWP refrigerants, ...

Honors and Awards

- Fellow ASHRAE, SAE, ASME
- IEA Ritter von Rittinger Award (2008)
- IIR Gustav Lorentzen Medal (2011)
- Academician of the Academy of Engineering Sciences of Serbia (2012)
- Institute of Refrigeration J&E Hall Medal (2012)
- ASHRAE Louise and Bill Holladay Distinguished Fellow Award (2019)

Accomplishments and Output

- 120 PhD and MS students
- 100 Visiting Scholars
- 200 Journal Articles, 400 Conference Papers, 100 Technical Reports
- 100 Invited Lectures

Richard J. Goldstein, 1928-2023



Honors & Awards

- ❖ B.S. (Mech. Engg., 1948) from Cornell University, M.S. (Mech. Engg., 1950 and Phys., 1951) and Ph.D. (Mech. Engg., 1959) from University of Minnesota
 - ❖ Professor of Mechanical Engineering, University of Minnesota (1965-2018)
 - ❖ President of the Assembly for International Heat Transfer Conferences (1986-1990), the American Society of Mechanical Engineering (1996-1997), and the International Centre for Heat and Mass Transfer (1999-2002)
 - ❖ Fellow of the American Association for the Advancement of Science (1986), the American Physical Society (1989), the American Society for Engineering Education (1997), the American Society of Mechanical Engineers (1999), and the Royal Academy of Engineering (1999)
 - ❖ Member of the United States National Academy of Engineering (1985), the National Academy of Engineering - Mexico (1991), the European Academy of Science and Arts (2016), and the Pan American Academy of Engineering (2019)
 - ❖ Honorary member of the Associazione Termotecnica Italiana (2006) and Chairman of the honorary editorial advisory board for the International Journal of Heat and Mass Transfer and the International Communications in Heat and Mass Transfer
 - ❖ Honorary doctoral degrees from Technion Israel Institute of Technology (1994), Instituto Superior Tecnico, Portugal (1996), Luikov Heat and Mass Transfer Institute, Minsk, Belarus (1997)
- ASME Heat Transfer Memorial Award (1978)
 - AIChE/ASME Max Jakob Memorial Award (1990)
 - ICHMT Luikov Medal (1990)
 - Nusselt-Reynolds Prize (1993)
 - ICHMT Fellowship Award (2004)
 - ASME Medal (2006)