

**INTERNATIONAL CENTRE FOR
HEAT AND MASS TRANSFER**

1968 - 2018

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Delft University of Technology, NL

The beginning of West-East scientific communications in HMT (late fifties of the last century)

- Two emerging technologies (**space exploration and nuclear energy**) frantically pursued both in the West and in the Soviet Union prompted both sides to search for scientific communication;
- Both technologies depended heavily on the **understanding and managing heat and mass transfer**
- A seminal event: meeting of Robert Maxwell (Pergamon Press) with Carl Gazley (Rand Corp.) and Jim Hartnett visiting Soviet Union in 1958
→ foundation of a **new journal exclusively in heat and mass transfer**
- The new journal, IJHMT was born in **1960**, with the Editorial Board including E. Brun, A.J. Ede, E. Eckert, U. Grigull, J. Hartnett, A. V. Luikov, W. Rohsenow, D.B. Spalding, N. Zuber,....
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2nd All Soviet Union Conference on Heat and Mass Transfer, Minsk 1967

Proc. (Edts) C.Gazley, Jr., J.P. Hartnett and E.R.G. Eckert, Rand Corp.

A piece of history



A piece of history, cont.

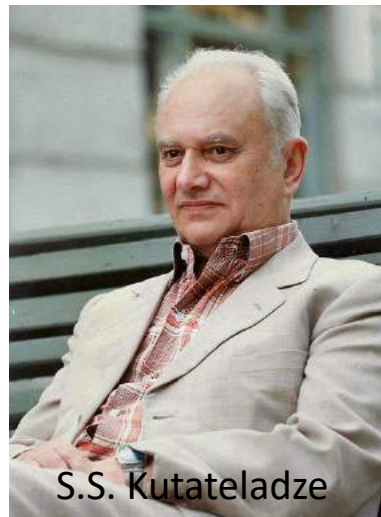
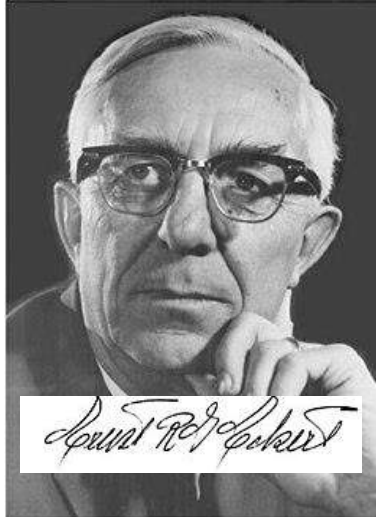
Two concepts:

- International Heat Transfer Institute in Paris
(*E.A. Brun and A.V. Luikov*)
- International Heat Transfer Centre in Yugoslavia – Adriatic
(*J.P. Hartnett, T.F. Irvine, D.B. Spalding*)

“...The *first* meeting of the ICHMT was held on September 16, 1968,..
Some of the most prominent names involved in creation of ICHMT:
E.A. Brun (Paris), E.R.G. Eckert (Minneapolis), U. Grigull (Munich),
J.P. Hartnett (Chicago), T.F. Irvine (New York), S.S. Kutateladze
(Novosibirsk), A.V. Luikov (Minsk), W.M. Rohsenow (Cambridge, MA),
D.B. Spalding (London), M.A. Styrikovich (Moscow), Z. Zarić and
N. Afgan (Belgrade)”

(From “The Development of ICHMT”
by **Faruk Arinc**, Secretary General of ICHMT)

FOUNDERS OF ICHMT, 1968

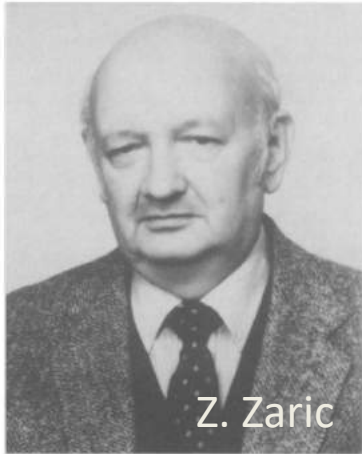


E.A. Brun (1898-1986), E.R.G. Eckert (1904-1994), U. Grigull (1912-2003) J.R. Hartnett (1924-2005), T.F. Irvine (1922-2001), S.S. Kutateladze (1914-1986), A. Luikov (1910-1974), W.M. Rohsenow (1921-2011), D.B. Spalding (1923-2016) and M.A. Styrikovich (1922-1995)

THE FIRST SCIENTIFIC EVENTS, Herceg Novi, Yugoslavia

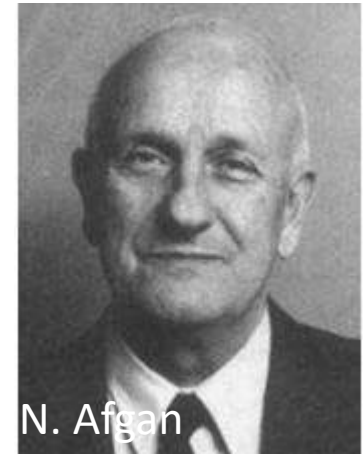
“Heat and Mass Transfer in Turbulent Boundary Layers” 9-12 Sept 1968

“Heat and Mass Transfer in Separated Flows” 1969



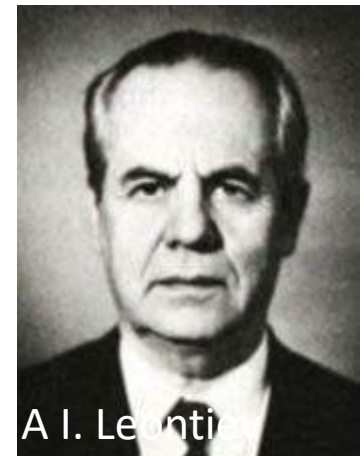
Zoran Zarić, (1929-1985)
Secretary General (1968-1985),

Naim Afgan (19290-)
Scientific Secretary (1968-1985),
Secretary General (1985-1993)



“...On the next day, **September 7, 1968**, Professor Brun convened the initial meeting of the Scientific Council... On the same day, Professor Afgan chaired a meeting of the Organization Committee attended by A.I. Leontiev (representing M.A. Styrikovich), D.B. Spalding, Z. Zarić and K. Hanjalić. The major business was the selection of "**Heat and Mass Transfer in Separated Flows**" as the topic for the 1969 conference...”

(From “*Origins of the International Centre for Heat and Mass Transfer*”
by late **James P. Hartnett**)



Some of the early ICHMT events

Heat and Mass Transfer in Turbulent Boundary Layers

Summer School, Herceg Novi, Yugoslavia 9-12 Sept **1968**

Heat and Mass Transfer in Flows with Separated Regions

International Seminar, Herceg Novi, YU, 1-13 Sept **1969**

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Heat Transfer in Fires

Summer School, Trogir, YU, 20-24 Aug. **1973**

Heat Transfer in Flames

International Seminar, Trogir, YU, 27-31 Aug. **1974**

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Turbulent Buoyant Convections

International Seminar, Dubrovnik, YU, 30 Aug-4 Sept. **1976**

Summer School “Heat and Mass Transfer in Boundary Layers”
The *first* ICHMT event, Herceg Novi (Yug.-/Montenegro, Sept. 1968)
Initiated and coordinated by D.B. Spalding



“Heat and Mas Transfer in Boundary Layers” Sept 1968



Russian-English
interpreters

Kemo Hanjalic

Brian Launder

Jim Whitelaw



IHTC-7, September 1982 in München:
ICHMT founders and some of their successors as ICHMT officers



International Centre for Heat and Mass Transfer

MISSION

ICHMT provides a unique apolitical forum for the world's leading heat and mass transfer scientists and engineers. Our mission is to pursue excellence and foster the international exchange of science and engineering in all branches of heat and mass transfer through symposia, publications, and promotion of research, education and exchange of personnel for the benefit of people everywhere.



International Centre for Heat and Mass Transfer

Over the past 50 years of continuous operation ICHMT emerged as one of the truly global professional association

- Over 40 Member Institutions from 30 countries worldwide
- Organised over 120 events (conferences, symposia, seminars, forums, schools, courses,... on a great variety of topics)
- Many proceedings and individual (extended) papers published by Begell House Inc. (official publisher of ICHMT)
- ICHMT Digital Library (www.dl.begellhouse.com/ICHMT in 2013: close to 160,000 hits!)
- THERMOPEDIA (www.thermopedia.com)

Reliable sources for Thermodynamics, Heat Transfer and Fluid Flow

Past Presidents of ICHMT

E.A. Brun Paris, Fr	1968-1972	M. Combernous, Bordeaux, Fr	1994-1998
M.A. Stirikovich Moscow, USSR	1972-1976	R.J. Goldstein, Minneapolis, USA	1998-2002
E.R.G. Eckert, Minneapolis, USA	1976-1982	M. Cumo, Sapienza, Rome	2002-2006
U.Grigull, TU Munich, Ge	1982-1986	G.F. Hewitt, Imp Coll. London	2006-2010
W.M. Rosenhow , MIT, Cambridge MA	1986-1990	G. de Vahl Davis Sydney, Australia	2010-2014
Y. Mori, Tokyo, Japan	1990-1994	K. Hanjalić	2014-2018

ICHMT Awards

Luikov Medal (established in 1979)

(dedicated to A.V. Luikov) for outstanding contributions to the science and art of HMT and international scientific cooperation

ICHMT Fellowship Award (since 1980)

In recognition of administrative or organizational service to ICHMT

Hartnett-Irvine Award (since 2007)

For best paper on HMT at a conference/symposium of ICHMT

William Begell Medal (since 2010)

For the best Keynote Lecture at an ICHMT event

ICHMT Grants (since 2003)

to support young scientists/engineers to attend ICHMT events

The last of the Founding Fathers

lecturing at his last ICHMT event

“Turbulence, Heat and Mass Transfer 8”, THMT’15, Sarajevo, 15-18 Sept 2015





THMT-8, Sarajevo, 15-18 Sept 2015

A new initiative: coordinating and unifying efforts

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Thermal

Temperature-, Heat-, Energy-, Reaction-, Mass-related Alliance to communicate within, and publicize beyond, the international thermal science and engineering community

ICHMT AIHTC ASTFE AUTSE EUROTHERM

The cover features a world map with a grid of latitude and longitude lines, overlaid on a dark blue and red gradient background. At the bottom, five logos are displayed in a row, each with its corresponding name below it: ICHMT (International Heat and Mass Transfer), AIHTC (American Institute of Heat and Thermal Control), ASTFE (American Society of Thermal Fluids and Energy), AUTSE (American University of Thermal Science and Engineering), and EUROTHERM (European Thermal Science and Engineering Association).