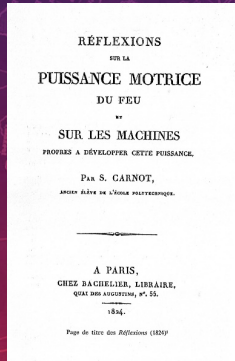


Thermal

Temperature-, Heat-, Energy-, Reaction-, Mass-related Alliance to Communicate within, and Publicize beyond, the World Thermal Science and Engineering Community



bicentennial



1796–1832



ICHMT



AIHTC



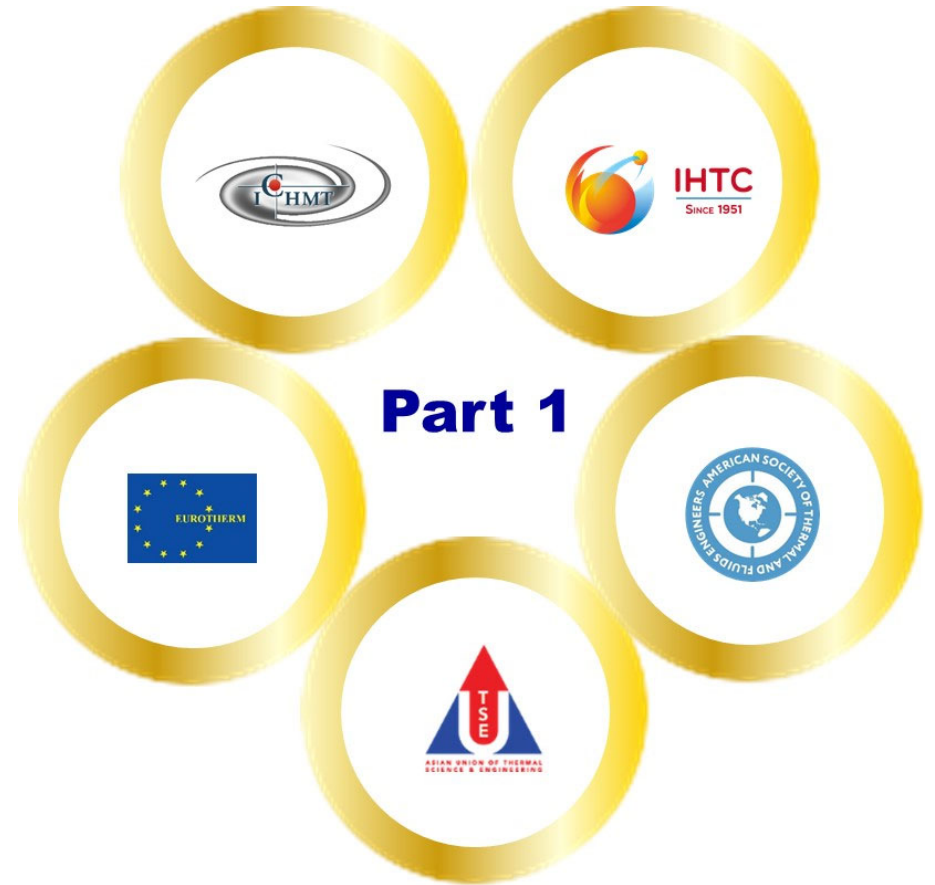
ASTFE



AUTSE



EUROTHERM



Part 1

Part 1

AIHTC.....	1	ASTFE.....	3	AUTSE.....	5	EUROTHERM.....	7	ICHMT.....	9
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The William Begell Medal for Excellence in Thermal Science and Engineering
 The Assembly for International Heat Transfer Conferences & Begell House Publishers History and Establishment
 by Y. S. Begell..... 13

Part 1.5

ExHFT-10 in Greece.....	17
-------------------------	----

Part 2

France.....	19	India.....	23	Japan.....	25	Morocco.....	27	South Africa.....	29
		South Korea.....	31	Türkiye.....	33	UK.....	36		

The William Begell Medal for Excellence in Thermal Science and Engineering

The Assembly for International Heat Transfer Conferences & Begell House Publishers History and Establishment

Yelena S. Begell, President, Begell House Publishers
elena@begellhouse.com



Dr. William (Bill) Begell (May 18, 1927–July 4, 2009) taught at Columbia University and was the Director of Columbia Heat Transfer Research Center Facility. There, he managed the large-scale seminal work on two-phase flows, burnout studies and cooling procedures for nuclear reactors, some of which were conducted directly under the founder of the US Nuclear Navy, Admiral Hyman Rickover. He then became involved in a US Air Force intelligence project, that culminated in the cofounding of Scripta Technica (1962), a publishing company specializing in the presentation of important scientific and engineering materials translated into English from foreign languages. Building upon his experience and reputation in the field, Dr. Begell was a founder and continued to pursue his personal research and publishing activities at Hemisphere Publishing Corporation (1966) where he developed an impressive list of 86 high-impact engineering and biomedical journals, as well as hundreds of basic texts, research books and reference tools. In 1986, Taylor and Francis acquired Hemisphere Publishing and in 1991, Dr. Begell established Begell House, Inc. to continue his independent scholarly publishing.

Dr. Begell's visionary sense of future trends in engineering and biomedicine led to the creation of interdisciplinary and cross-disciplinary publications. Throughout the years, Dr. Begell's contributions and support of scholarly societies were a factor in the development of new branches of knowledge. In some cases, these innovative titles led to the establishment of new fields of endeavor and study. Under Hemisphere Publishing, he was the founding editor for the journals *Heat Transfer Engineering* and *Numerical Heat Transfer*, which continue to be published today.

Dr Begell had a long career in science, engineering, and publishing, where he was actively involved and made numerous contributions to the Heat Transfer community. Dr. Begell was a chairman of the American Society of Mechanical Engineers (ASME) Publications Committee and helped to establish ASME's publishing program; following his recognitions, he was an ASME Fellow and in 2005 received the ASME Heat Transfer Division Distinguished Service Award. Dr. Begell was one of the founding members of the Society for Scholarly Publishing (SSP), publisher of The Assembly for International Heat Transfer Conference (AIHTC) proceedings and International Center for Heat and Mass Transfer (ICHMT) proceedings for many years, and has been nominated for and granted many awards for his achievements in science, engineering and publishing.

Dr. Begell was an extraordinary man; he truly made a global impact by facilitating scientific exchanges and communications between many countries during the Cold War years. He spoke eight languages and made numerous translations to bring a better understanding of science and engineering progress. Soon after Dr. Begell's passing in July 2009, his friends and colleagues gathered in New York to celebrate his life and decided to establish an Award in his honor, making his life and contributions to heat transfer and engineering societies a memorable legacy. Later the logistics were worked out between Begell House and AIHCT to establish The William Begell Medal (Begell Medal).

The William Begell Medal for Excellence in Thermal Science and Engineering was accepted and fully established in 2010 by The Assembly for International Heat Transfer Conferences (AIHTC), the International Center for Heat and Mass Transfer (ICHMT), and Begell House Inc. The first Begell Medal was given at the

14th International Heat Transfer Conference (IHTC-14) awards banquet in Washington, D.C. in August 2010. The founding members of the William Begell Medal are Geoff Hewitt, Avi Bar Cohen, Art Bergles, Graham de Vahl Davis, Dick Goldstein, Darrell Papper, and Faruk Arinc, with participation of other senior committee members of AIHTC and ICHMT.

The initial rules for selection and awarding of the Medal were set within the AIHTC Conference and only the scheduled Keynote lecturers at the IHTC Conference were eligible for consideration. The AIHTC Steering Committee members, members of the ICHMT Executive Committee and Begell House's Executive Editorial Board members are not eligible for consideration.

The rules for selection of the Begell Medal recipients were set by the Begell Medal Bylaws together with AIHTC and the Begell Medal Steering Committee. The first Committee was chaired by Professor Geoff Hewitt, President of ICHMT, and consisted of three delegates from the AIHTC chosen by the Officers of the AIHTC, and three members from the ICHMT Executive Committee chosen by ICHMT Executive Board. In the event of a tied vote, an ex-officio Begell House representative, selected from the Begell House Executive Editorial Board, will cast the deciding vote. The AIHTC, ICHMT, BH, and IHTC Conference websites promote the Begell Medal, and its presentation during future IHTC conferences will be supported by Begell House. The final IHTC conference program includes recognition of the Begell Medal Award and the event.

The Committees and Winners (2010-2023)

The winners of the Begell Medal and Begell Medal Selection Committees:

2010

Nobuhide Kasagi

The 2010 recipient of the **Begell Medal** was **Nobuhide Kasagi**, University of Tokyo, Tokyo, Japan.

His Keynote lecture was titled "CONTROL OF TURBULENT TRANSPORT: LESS FRICTION AND MORE HEAT TRANSFER".

2010 WILLIAM BEGELL MEDAL COMMITTEE		
Geoffrey F. Hewitt <i>Committee Chairman</i>		
Adrian Briggs	Graham de Vahl Davis	Jaques Padet
Gian Piero Celata	Kemo Hanjalic	Yelena Shafeyeva

2014

Professor Liu, Jing

The 2014 recipient of the **Begell Medal** was **Professor Liu, Jing**, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing, China, Department of Biomedical Engineering, School of Medicine, Tsinghua University, Beijing, China.

His Keynote lecture was titled WAYS TOWARD TARGETED FREEZING OR HEATING ABLATION OF MALIGNANT TUMOR: PRECISELY MANAGING THE HEAT DELIVERY INSIDE BIOLOGICAL SYSTEMS.

2014 WILLIAM BEGELL MEDAL COMMITTEE

Geoffrey F. Hewitt
Committee Chairman

Avram Bar-Cohen	Gian Piero Celata	Kemo Hanjalic	Jaques Padet
Adrian Briggs	Graham de Vahl Davis	Nobuhide Kasagi	Yelena Shafeyeva

2018

Dr. Leonid A. Dombrovsky, Dr. Alexander A. Fedorets

The 2018 recipients of the **Begell Medal** were **Dr. Leonid A. Dombrovsky**, Joint Institute for High Temperatures of the Russian Academy of Science, Moscow, Russia and **Dr. Alexander A. Fedorets**, Laboratory of Micro-Hydrodynamic Technologies at the University of Tyumen, Western Siberia, Russia.

Their Keynote lecture was titled SELF-ASSEMBLED STABLE CLUSTERS OF DROPLETS OVER THE LOCALLY HEATED WATER SURFACE: MILESTONES OF THE LABORATORY STUDY.

2018 WILLIAM BEGELL MEDAL COMMITTEE

Kemal Hanjalic
Committee Chairman

Avi Bar Cohen	Ping Cheng	Leonid A. Dombrovsky
Jacques Padet	Xing Zhang	Vish Prasad

2023

Professor Chang-Ying Zhao

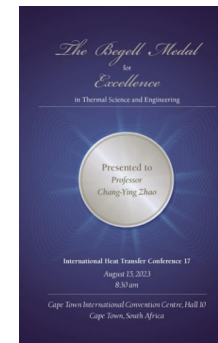
The 2023 recipient of the **Begell Medal** is **Professor Chang-Ying Zhao**, Shanghai Jiao Tong University, Shanghai, China, for his lifetime achievements in and contributions to the field of thermal sciences and engineering.

2023 BEGELL MEDAL COMMITTEE

Vish Prasad
Chair of the Council

Leonid A. Dombrovsky	Yildiz Bayazitoglu	Xing Zhang
Josua Meyer	Terrence Simon	Yelena Shafeyeva

The Begell Medal - Value of Award



The Begell Medal to be bestowed upon an internationally recognized, highly accomplished researcher and leader in fundamentals or applications of thermal sciences and engineering based on their lifetime achievements. The Awardee will receive a silver cast Medal, a certificate, and a cash check of \$5,000 (USD) plus \$5,000 (lump sum) reimbursable against travel costs to attend the conference.

2020 Amendment to the Begell Medal Award

Begell House is committed to continuously supporting the Begell Medal Award as an established IHTC Conference tradition; nevertheless, due to COVID-19 changes, IHTC schedule with the conference's organization, social media, and other coming challenges, the Begell Medal Steering Committee felt 2020 was the year to make some overall adjustments to the nomination rules and selection process. The members of AIHTC, ICHMT and Begell Medal Steering Committee engaged in an open discussion for the amendment of the Begell Medal Award Bylaws.

In 2022, the Begell Medal Steering Committee reached a mutual agreement between all parties and the Award was elevated to the highest level for the selection of a recipient for the Medal. The Begell Medal is now bestowed upon an internationally recognized, highly accomplished researcher and leader in the fundamentals and/or applications of thermal sciences and engineering based on their lifetime achievements. The world's leading international organizations in this field, AIHTC, ICHMT, ASTFE, AUTSE, and EURO THERM select nominees for final considerations by the Award Council and the winner is chosen by an anonymous vote. The Begell Medal will be awarded every four years and the value of the Award remains the same.

References

1. www. <https://www.begellhouse.com/begell>
2. AIHTC, ICHMT, ASTFE, AUTSE, EURO THERM and Begell House correspondence.



Professor Hewitt, President Begell, Professor Kasagi
August 11, 2010 in Washington