

Chinese Taipei
Member of AUTSE
(1) Overview

(National Standard Time, NST: UTC+8, Population: 23 million)

1. Brief history

Heat and Mass Transfer Society of Taiwan (hereby "HMTST") was established in Hsinchu, Taiwan in 2016. As an international, professional, non-governmental, and non-profit organization, HMTST aims to facilitate advances in the fields of mechanical engineering in industry and academia. For this purpose, HMTST proactively interacts with world's leading researchers by participating international research organization, and devotes in contributing networking for researchers in Taiwan.

2. Core missions

HMTST has six missions. These missions aim to offer good chances for specialists to interact with each other and activate further potential cooperation. HMTST also confers awards to scientists in honor of their achievements.



Website: <https://hmtst.tw>

3. Key persons



Dr. Da-Jeng Yao 饒達仁
(Executive Supervisor)

Professor
Dept. of Power Mechanical Eng.
National Tsing Hua University



Dr. Ming-Chang Lu 呂明璋
(Chairman)

Professor
Dept. of Mechanical Eng.
National Taiwan University



Dr. Chin-Hsiang Cheng 鄭金祥
(Director, Thermal Science and Fluid Dynamics Program, MOST)

Distinguished Professor
Dept. of Aeronautics and Astronautics
National Cheng Kung University



Dr. Li Xu 許麗
(Secretary General)

Assistant Professor
Dept. of Mechanical Eng.
National Taiwan University



Dr. Ming-Tsang Lee 李明蒼
(Executive Board Member)

Associate Professor
Dept. of Power Mechanical Eng.
National Tsing Hua University



Dr. Yu-Bin Chen 陳玉彬
(Honorary Chairman)

Professor
Dept. of Power Mechanical Eng.
National Tsing Hua University

4. Major events

HMTST has organized 7 workshops and one international conference by the end of 2022. A brief summary is illustrated below:

(1) Workshop

HMTST hosts workshops regularly. The workshops provide an important platform for specialists from academia, industry or government sections to exchange opinions, brainstorm, and investigate potential cooperation.



(2) International conference

Participants were from Japan, South Korea, U.S., Australia, and Taiwan. Topics of the conference included combustion, computational fluid dynamic, electronics cooling, functional and complex fluids, laser fabrication, phase change heat transfer, phonon transport, power generation system, renewable energy, thermal radiation, transport phenomena in manufacturing, emerging topics of thermofluids. The conference ended with fruitful results:

- Bring in latest researches from world's leading scientists and expand international visibility of Taiwan;
- Share applications and breakthrough in relevant fields;
- Increase cooperation and interaction with neighbor countries

Poster presentation for students was held together with the international conference. Students were offered opportunities to present their work to the participants and receive various and valuable feedback.



4. Awards

HMTST currently confer two awards, Achievement Award and Outstanding Scholar Award. Achievement Award is to recognize distinguished engineering achievement for senior scientists. Outstanding Scholar Award is to encourage young potential scientists to pursue researches in the field of thermal sciences and engineering. 2020 award winners are shown below.



Achievement Award Winner (2020)
Dr. Chi-Chuan Wang 王啟川

Chair Professor
Dept. of Mechanical Eng.
National Yang Ming Chiao Tung University
Chairman of HMTST



Outstanding Scholar Award Winner (2020)
Dr. Ching-Wen Lo 羅景文

Assistant Professor
Dept. of Mechanical Eng.
National Chung Hsing University

Ming-Chang Lu 呂明璋 mingchanglu@ntu.edu.tw