

Editorial

Special Column for the 9th Asian Joint Workshop on Thermophysics and Fluid Science 2022 (AJWTF 2022)

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This Special Column of Journal of Thermal Science (JTS) contains a selection of peer-reviewed papers from AJWTF 2022, held in Utsunomiya, Japan during 27 to 30 November, 2022. The Asian Joint Workshop and Thermophysics is a biennial international conference facilitating cooperation between scientists of Asian nations. The conference was founded by three renowned academicians Prof. Heuy Dong Kim, from South Korea, Prof. Shen YU from China and Prof. Toshiaki Setoguchi from Japan. The inaugural edition of the conference was held at Qufu, China in 2006. This was followed by Luoyang, China (2008), Matsue, Japan (2010), Busan, Korea (2012), Nagasaki, Japan (2014), Guilin, China (2016), Trivandrum, India (2018), Daegu, Korea (2020). The ninth edition of the conference, held at Utsunomiya, Japan in November, 2022 was chaired by Prof. Makoto Yamamoto of the Department of Mechanical Engineering, Tokyo University of Science, Japan. The conference involved keynote lectures and talks from distinguished academicians and professionals from the industry. Progress made and future directions on research involving fluid and thermal sciences and engineering were part of the deliberations. The conference also provided an opportunity for cultural exchanges and promotion of soft power of participating nations.

The ninth edition of the series commenced with a commemorative talk: "In Memory of Professor Shen YU" by his son Mr. Wen YU (Beijing TaiKeJie Technology Co., Ltd., China). Four plenary lectures were presented at AJWTF 2022. The first plenary lecture titled "*Heat Transfer Enhancement of Phase Change Materials for Thermal Management System*" was delivered by Prof. Han Seo Ko from Sungkyunkwan University, Korea. The

second plenary lecture, "*Streamwise Traveling Wave-like Control for Wall Turbulence*" was presented by Prof. Hiroya Mamori from the University of Electro-Communications, Japan. Prof. Abhilash Suryan from College of Engineering, Trivandrum, India, gave the third plenary lecture on "*Aerospike Nozzles for Reusable Launch Vehicles: Prospects and Possibilities*" and the fourth plenary lecture "*The Mechanism and Control of Combustion Instability in Aero-Engines*" was given by Yuzhen LIN from Beihang University, China.

We are grateful to the Editorial Board of JTS and the conference organizing committee to be given this opportunity to edit this Special Column. We would like to thank all the contributors of this Special Column for their support and cooperation. We also thank all the reviewers for their timely reviews and critical comments to ensure the academic quality of this Special Column.

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