

Editorial

Tanimoto, Jun

Interdisciplinary Graduate School of Engineering Sciences, Kyushu University : Professor

Kyaw, Thu

Department of Advanced Environmental Science and Engineering, Faculty of Engineering Sciences, Kyushu University : Associate Professor

Ir. Nasruddin

Department of Mechanical Engineering, Faculty of Engineering, Universitas Indonesia

Arnas

Department of Mechanical Engineering, Faculty of Engineering, Universitas Indonesia

他

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Editorial

We have a remarkable year in 2020. It is the year of pandemic. It is the year of coronavirus. The world is facing a new challenge, arguably, the challenge that someone, including the baby-boomers, Generation X, Y (Millennials) and Z has never experienced before in such a scale and extent. Several countries, including many developed ones, were caught underprepared for this so-called “once-in-a-lifetime” challenge. Remarkably, 2020 is flooded with many (probably new, some recycled) vocabularies such as “Covid-19”, “Social Distancing”, “Lockdown”, “Self Isolating”, “Quarantine”, “Circuit Breaker”, “Tier 1, 2, 3, 4”, “Covid Daily Briefing”, “The New Normal”, “No Mask No Serve”, “Flatten the Curve”, “1st, 2nd, 3rd ... wave”, “Superspreader”, “Vulnerable Group”, “Frontline Workers”, “BAME group”, “Covid Relief Package”, “Stimulus”, “ZOOM”, “Contact Tracing”, “Black Lives Matter”, “Cancel Culture”, “Green New Deal (GND)”, “Woke” and “Elbow Bumps”. We have phrases like “Follow the science”, “Listen to the scientists”, “Use the common sense”, and “The cure cannot be worse than the problem itself”. Meanwhile, Collins Dictionary declared “lockdown” as the word of the year for 2020 [1]. In Japan, “Mitsu, 密”, meaning raise public awareness about social distancing, is picked as the Kanji of the year by a Kyoto-based academic organization [2]. Undoubtedly, public awareness has tremendously improved, and science gained more attention while we have many celebrity scientists. In the current situation, the public is massively overwhelmed since “too many cooks spoil the broth”. As a result, “Trust” becomes a rare commodity.

In the wake of COVID-19, never before in our history have we experienced so many harmful things—human and economic loss besides myriad tragedies, deep anger and distrust—at the same time, except during periods of global warfare. Yet we still believe that science is powerful enough for us to combat against an unknown enemy — virus; not only by developing the vaccines and antiviral treatments to which the field of medical science has always paid great attention, but also by building up solid underpinning in any areas of science & engineering. That should be our hope, mission and responsibility as a scientist.

We could see some light at the end of the tunnel though with the emergence of the vaccines developed by Pfizer-BioNTech and Moderna at an unprecedentedly fast pace through the “Operation Warp Speed” [3]. That’s the outcome of real science, and it is something worth celebrating. Another encouraging breakthrough was achieved by researchers from Tel Aviv University (TAU) and the Shamir Medical Center in Israel. It is reported that the hyperbaric oxygen treatments (HBOT) can stop the aging of blood cells and reverse the aging process [4]. Obviously, we had a difficult year in 2020; nevertheless, *EVERGREEN* community kept working hard with the strong determination and concise objectives. *EVERGREEN* ends the very productive year 2020 with the publication of this edition, i.e., Vol. 7, Issue 04.

The final publication of 2020 is assorted with original articles and selected papers from the 11th International Meeting on Advances in Thermofluids 2019 (IMAT2019), which was co-organized by *EVERGREEN*. The original articles are rightly balanced with multidisciplinary research including predictive models of Covid-19 cases in India, analysis of the factors influencing the willingness to join CBO biogas self-help group in Indonesia, the study of CNT stability and the kinematic analysis of an industrial robot. We also have articles on the performance investigation of the wind lens at low-wind speed, a simulation study of the impact of cooling the A2 class data center room, optimization of the received signal strength for LTE signals under the influence of varying atmospheric conditions and the effect of heat resistant coating on the drilled hole quality of hybrid FRC. The issue includes a review article on the parametric study of composite materials.

EVERGREEN is grateful to all authors, reviewers and the management committee for their massive contribution and support. All of us fully recognize and highly appreciate the significant contribution of our Secretary, Ms INOUE Mieko. We are very pleased that *EVERGREEN* community is growing appreciably, including the reviewers, authors and reader base. We received substantial interest in special issue arrangements from many excellent conferences. It was a difficult year. Our daily routines were heavily disrupted by preventive measures. Many of us experienced losing our love ones due to the coronavirus, and *EVERGREEN* would like to express our deep condolences. On the other hand, we see a bright future in 2021 with the collective effort of fighting this nasty virus. *EVERGREEN* wish all of you a Merry Christmas and a Happy New Year 2021.

Jun Tanimoto (Editor-in-Chief)
Kyaw Thu (Executive Editor)

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Jun Tanimoto, Dr. Eng
Professor
Interdisciplinary Graduate School of Engineering Sciences,
Kyushu University
6-1 Kasuga-koen, Kasuga-shi, Fukuoka 816-8580, Japan

Kyaw Thu, Ph.D.
Associate Professor
Department of Advanced Environmental Science and Engineering,
Faculty of Engineering Sciences, Kyushu University
Kasuga-koen 6-1, Kasuga-shi, Fukuoka 816-8580, Japan

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Editorial from the Guest Editors of the 11th IMAT2019

We would like to present, with great pleasure, the special issue for the Selected Papers from The 11th International Meeting on Advances in Thermofluids 2019 (IMAT2019) Chikushi Campus, Kyushu University, Japan. This special issue addresses the topics of Thermofluids, Heat Transfer, Energy Conversion Systems, Environmental Engineering, and Thermophysical Properties, with the latest advances in science and engineering research.

IMAT is an annual event hosted by the Universitas Indonesia (UI), Universiti Teknologi Malaysia (UTM), and National University of Singapore (NUS, until 2015). The International Meeting on Advances in Thermofluids is an initiative to bring together academicians, researchers, scientists, and all interested parties from all over the world in a common platform to foster discussion, exchange ideas for the exploration of future research in the fields of fluid mechanics, heat transfer, thermodynamics, combustion and all topics related to thermal fluids. The 11th IMAT2019 was organized by Kyushu University and co-organized by the Department of Energy and Environmental Engineering, IGSES, Kyushu University, Transdisciplinary Research and Education Center for Green Technologies, Kyushu University, Evergreen – Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy. The 11th IMAT2019 was attended by 95 participants from Indonesia, Malaysia, Japan, Korea, Sri Lanka, India and Saudi Arabia.

In this special issue, all of the 11th IMAT2019 committee and guest editors hope that this fine collection of papers will be a valuable resource for the science and technology community. Editors are very grateful to the reviewers for their constructive feedback and suggestions to add to the quality of the articles written. Without the great support of the Editorial Board members of *EVERGREEN*-International Meeting on Advances in Thermofluids 2019, this special issue would not have been possible and we would like to express our sincere thanks to all of them.

Guest Editors

Prof. Dr.-Eng. Ir. Nasruddin, M.Eng.

Department of Mechanical Engineering, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia.

Dr. Eng. Arnas, ST., MT.

Department of Mechanical Engineering, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia.

Dr. Eng. Muhammad Arif Budiyanto, ST., MT.

Department of Mechanical Engineering, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia.