

From the Editor's Desk

Welcome to the April Issue!

Robert H. Caverly

elcome to the April 2021 issue of *IEEE Microwave Magazine*. We have a packed issue, including a number of features and columns you should find interesting.

My last visit to China was about two years ago, to attend the 2019 IEEE International Microwave Biomedical Conference in Nanjing. I was very surprised at the pace of change I observed since my previous visit just a few years prior; the advances in infrastructure (transportation and architecture, to name just a few) in just those few years between visits were truly re-

markable. What did not change was that my hosts were very welcoming, both on this visit and as well as my previous one, and willing to go out of their way to ensure that my visit went well.

I wanted to briefly mention my visits to China, as the last visit started a discussion that eventually led to this focus issue of *IEEE Microwave Magazine*

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on "Microwaves in China." In parallel with the easily seen infrastructure advances in China, there have also been advances in microwave engineering. The guest editor for this issue, Dr. Kaixue Ma, has selected three technical features that exemplify the current state of the art in microwave technology in China. These three features cover work on vacuum electronics and devices, the progress in research on gallium nitride-based devices, and, finally, circuit and design techniques based on substrate integrated suspended lines. I suggest that you read his "From the Guest Editor's Desk" column first for an orientation and summary of each of these technical features.

In addition to the technical features, we also have a number of our usual columns. In "Health Matters," Dr. James Lin looks at how the electromagnetic fields-rich environment of aircraft flight decks affects pilot cognitive performance. He also presents the case for relating some of the origins of pilot performance degradation to the same microwave-induced auditory response that is highly suspected in the Cuba embassy incident,

"Health Matters" columns [1], [2].

Our "MicroBusiness" column continues the theme of last month's column about the apparent contradiction of celebrating failures by taking a look at the problems success can bring. This month's "MTT-S Society News" column spotlighting the various IEEE Microwave Theory and Techniques Society (MTT-S) administrative committees presents an interview with the chair of the Member and Geographic Activities (MGA) Committee, Dr. Nuno Borges Carvalho. Our conversation outlines the various activities, programs, and initiatives that the MGA Committee helps support and that provide benefits to the general MTT-S membership.

Also this month, we present two book reviews for microwave engineers working on antenna designs for wireless products and applications of surface electromagnetics. The "Women in Microwaves" column reports on the Women in Micro-

waves event held during this past December's 2020 IEEE MTT-S International

Dr. Takashi Ohira continues with a new "Enigmas, etc." puzzle related to switching power amplifiers and provides the solution to last month's problem.

Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization held in Hangzhou, China. The "MTT-S Ombuds Officer" column details how the various issues MTT-S members submitted during the fall and winter of 2020 have been investigated and addressed. Dr. Takashi Ohira continues with a new "Enigmas, etc." puzzle related to switch-

ing power amplifiers and provides the solution to last month's problem.

In just a few months, the 2021 IEEE MTT-S International Microwave Symposium will begin, and a preview of the technical and other activities can be found in this issue, along with our monthly conference calendar describing the microwave conference scene for the next six months. Please enjoy this month's issue!

References

- [1] J. C. Lin, "Microwave signal at the U.S. embassy in Moscow [Health Matters]," IEEE Microw. Mag., vol. 19, no. 2, pp. 20-22, Mar.-Apr. 2018. doi: 10.1109/MMM.2017.2760599.
- [2] J. C. Lin, "Sonic health attacks by pulsed microwaves in Havana revisited [Health Matters]," IEEE Microw. Mag., vol. 22, no. 3, pp. 71–73, Mar. 2021.

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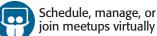


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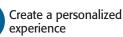
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