



## Chapter News

### ***IEEE MTT-S Nagoya Chapter Launches: Waves from Midland Japan***

■ Takashi Ohira

The Nagoya Chapter (<http://ewh.ieee.org/r10/nagoya/mtt/>) of the IEEE Microwave Theory and Techniques Society (MTT-S) was founded on 25 February 2010. This is the third chapter of MTT-S in Japan, along with Kansai Chapter and Japan Chapter. From a regional aspect, it is the third chapter of the IEEE Nagoya Section, sistered by the Antennas and Propagation Society Chapter and the Magnetics Society Chapter. The chapter started with 55 MTT-S members, led by Founding Chair Takashi Ohira, Vice Chair Kenji Itoh, Secretary Ryosuke Ito, Treasurer Tatsuo Nozokido, and Technical Coordinator Masahiro Hanazawa.

A kick-off ceremony was held in Nagoya on 23 July 2010: see the plenary photo. After the chair's opening keynote address, congratulatory speeches were presented from many delegates, including Nagoya Section Director Masayuki



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Nagao, Kansai Chapter Chair Yohei Ishikawa, and AP-S Nagoya Chapter Vice Chair Kunitoshi Nishikawa on behalf of Chair Toshikazu Hori, followed by other Chapter representatives. Also offered were warm encouraging words delivered by telegram from the

neighboring Japan Chapter Chair Osamu Hashimoto and IEICE Microwave Technical Group Leader Kazuhiko Honjo.

As the Chapter's first academic event, Professor Emeritus Shizuo Mizushina at Shizuoka University made an invited memorial presentation titled "Aspects of Microwaves I Have Enjoyed to Learn." In a corner of the hall, he displayed historical hardcover books of Maxwell, Hertz, Heaviside, Stratton, and Planck dating back to the early 1900s. For the second presentation, Dr. Tatsuo Teratani with Toyota Motors Corporation gave an impressive lecture on "Technical Trends and Challenges for plug-in hybrid (PHV) and electric vehicle (EV) to Link with Smart Grids." He emphasized that microwave technologies should be able to contribute to the total energy management for future vehicles. The ceremony was suc-

cessfully concluded with an evening party and fruitful talks among participants from academia and industry of the midland prefectures.


Launched and just getting into orbit, the Chapter is planning to: 1) provide meeting opportunities for



members to exchange information and opinions in the microwave field, 2) offer technical lectures for students and workshops for young engineers, 3) develop membership and endorse upgrade nominations, 4) technically

sponsor and participate international conferences, and 5) establish transnational friendship with people organizing conferences such as KJMW, CJMW, TJMW, IMMAC, RFIT, APMC, URSI, PIERS, COMCAS, MIKON,

GeMiC, EuMW, RWS, RFIC, IMS, and other grassroots to worldwide microwave activities.

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## TC Design Competitions *(continued from page 99)*

within programmable devices, software, and digital to analog conversion.

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### **Optical-to-Microwave Converter**

This contest is open to all IEEE MTT-S members who are enrolled as students at a university. The objective of the contest is to demonstrate new and effective photodiode power combining and power extraction techniques for stringent microwave photonics applications. Following submission of a proposal describing the potential solution, up to five contestants will be selected and provided six pre-defined photodiodes that are provided by LinearPhotonics. Teams of up to four (4) student members are allowed, provided each team member has a direct contribution to the solution. Contes-

tants are required to demonstrate their design and the optical-to-microwave converter at the IMS2011. The designs will be judged by members of MTT-3 using pre-defined criteria that include converter efficiency, maximum power output, and linearity.

Two winners (or teams) will be selected with a first prize of US\$700 and a second prize of US\$300. The prizes shall be equally divided between all members of a winning team. In addition, the winners are required to submit an article to the IEEE Microwave magazine.

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### **Innovative Modeling Techniques**

MTT-15 is pleased to sponsor a student design contest on "Innovative Modeling Techniques for Microwave Engineering" at the IEEE International

Microwave Symposium to be held in June 2011 in Baltimore, Maryland. This competition is open to all IEEE MTT-S student members. The objective of this competition is to foster development and innovation in the following areas:

- 1) Methodologies and computational algorithms for enhancing the analysis and design of microwave circuits and devices.
- 2) Efficient computing paradigms (including parallel processing and other approaches) for implementing computational electromagnetic algorithms such as the FEM, MoM, FDTD, and TLM methods.

Projects should address at least one of the above objectives, as applied to the specific canonical analysis/design problem that will be made available on the MTT-15 Web site.

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