



IEEE Hong Kong Section AP/MTT Joint Chapter

NEWSLETTER

12/2021

2021 Chapter Officers

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Chapter Website

<http://www.ee.cityu.edu.hk/skltmw/apmtt/>

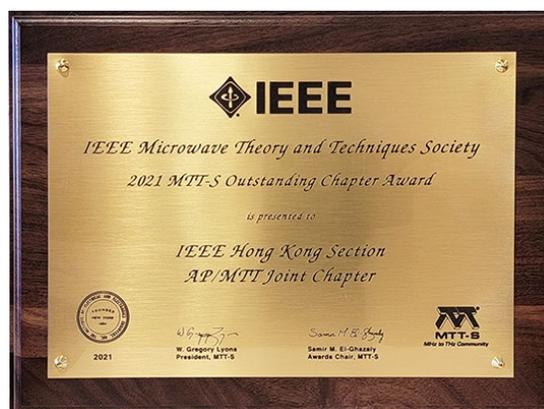
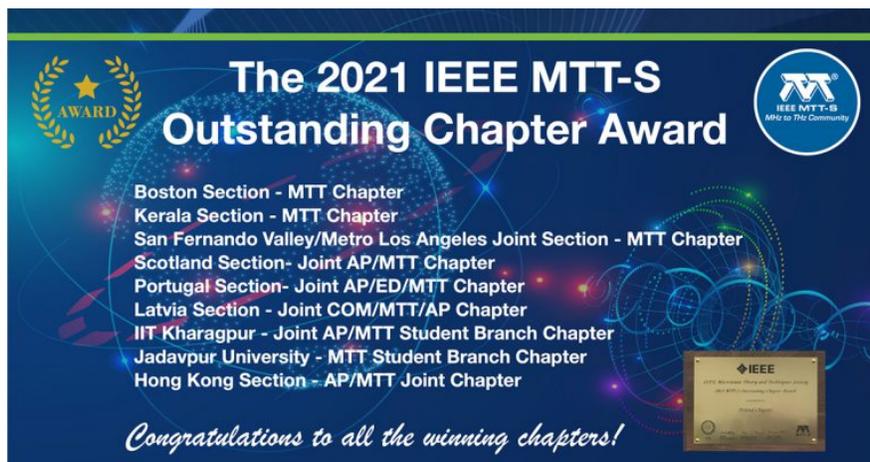
Introduction

Due to the outbreak of Covid-19, the chapter activities held this year were mainly online events to avoid social activities and ensure everyone's health and safety. Under this severe circumstance, the Chapter was grateful to receive the 2021 IEEE MTT-S Outstanding Chapter Award. There were 4 seminars and 2 seminars had been held and supported by the Chapter. The Chapter also technically sponsored 2021 Cross Strait Radio Science and Wireless Technology Conference and organized the 22nd IEEE (HK) AP/MTT postgraduate conference.

Award

The Chapter was honored to receive the 2021 IEEE MTT-S outstanding chapter award. Thank you for Chapter members' contributions.

<https://mtt.org/2021-ieee-mtt-s-outstanding-chapter-award/>



Seminars

4 seminars were organized and 2 seminars were supported.

Seminars (Organizer)

	<p>Trends in Automatic Identification & data capture (AIDC) industry: RFID, IOT, Blockchain, AI... how they are going to integrate? Dr. Anna Pui Yi Lau <i>Laxcen Technology (Singapore/Hong Kong)</i></p>
	<p>Date: 16 Jul 2021 Venue: online</p>
	<p>Transformation Optics and Its Applications to Lens Antennas Prof. Oscar Quevedo-Teruel <i>KTH Royal Institute of Technology, Stockholm, Sweden</i></p>
	<p>Date: 13 Aug 2021 Venue: online</p>
	<p>The SKA and Precursors — Extreme Antenna Engineering Prof. David Bruce Davidson <i>Curtin Institute of Radio Astronomy and International Centre for Radio Astronomy Research Curtin University, Perth, Australia</i></p>
	<p>Date: 7 Sep 2021 Venue: online</p>
	<p>Recent Developments in the Science and Application of Metamaterials Prof. Ashwin K. Iyer <i>University of Alberta, Canada</i></p>
	<p>Date: 1 Dec 2021 Venue: online</p>

Seminars (Supporter)

	NAMI WEBINAR Advanced Materials for 5G Era
	Organizer: NAMI Date: 22 Jan 2021 Venue: online
	Mode Managements and Applications in Waveguides Dr Qingqing Cheng <i>University of Shanghai for Science and Technology</i>
	Organizer: State Key Laboratory of Terahertz and Millimeter Waves (City University of Hong Kong) Date: 27 Jul 2021 Venue: online

Conference (Technical Sponsor)



The Chapter was the technical sponsor of 2021 Cross Strait Radio Science and Wireless Technology Conference (CSRSWTC 2021). The conference was held in Shenzhen from 11 to 13 October 2021 and organized by the State Key Laboratory of Terahertz and Millimeter Waves (City University of Hong Kong) and Guangdong Provincial Mobile Terminal Microwave and Millimeter-Wave Antenna Engineering Research Center (Shenzhen University).



Postgraduate Conference

The 22nd IEEE (HK) AP/MTT Postgraduate Conference was held virtually on 20 November 2021. This conference is for postgraduate students in the fields of Microwave and Antennas. The conference was jointly organized by the Chapter and Hong Kong University of Science and Technology (HKUST). The main purpose is to enhance the communications between the postgraduate students in the region and provide a platform for ideas exchange.

The 22nd IEEE (HK) AP/MTT Postgraduate Conference 20 November 2021, Virtual Event, Hong Kong

Antenna and Propagation Student Paper Awards

First Prize



(AP-08) A Wideband 2-Bit Transmitarray Antenna Based on Magnetolectric Dipole Antenna

Bingjie Xiang

City University of Hong Kong, Hong Kong SAR, China

Second Prize



(AP-02) A Pattern Reconfigurable Millimeter Wave Pixel Antenna for Wireless Communication

Shiwen Tang

The Hong Kong University of Science and Technology, Hong Kong SAR, China

Third Prize



(AP-04) Synthesis and Design of Filtering Antenna with Flexible Passband and Radiation Null Based on Parallel Scheme

Meng Yang

The Chinese University of Hong Kong – Shenzhen, Shenzhen, China

The 22nd IEEE (HK) AP/MTT Postgraduate Conference

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Microwave Theory and Techniques Student Paper Awards

First Prize



(MTT-04) A 0.45THz 2-D Scalable Radiator Array in CMOS with 28.2dBm EIRP Using an Elliptical Teflon Lens

Liang Gao

City University of Hong Kong, Hong Kong SAR, China

Second Prize



(MTT-06) Dispersive Box Sections for Quasi-TEM Mode Monoblock Dielectric Filters

Yan Zhang

The Chinese University of Hong Kong, Hong Kong SAR, China

Third Prize



(MTT-10) A Broadband Rectifier with a Frequency-selective Adaptive Power Range

Baihua Zeng

Sun Yat-sen University, Guangzhou, China