



Meisong Tong

Conferences Go Virtual, Student Design Contest Funding, and Regional Chapter News

The COVID-19 outbreak has presented everyone with unprecedented challenges and uncertainties. In light of uncertainties regarding travel and in response to requests from local authorities that large events scheduled during summer 2020 should be postponed or canceled, organizers from the IEEE Antennas and Propagation Society (AP-S), U.S. National Committee (USNC) for the International Union of Radio Science (URSI), and Canadian National Committee (CNC)–URSI have made a difficult decision. After careful consultation and review with local government authorities, our partners, and venues, we have elected to deliver our flagship IEEE International Symposium on Antennas and Propagation and CNC/USNC–URSI Radio Science Meeting as a virtual conference, scheduled for 5–10 July 2020.

Traditionally, the Chapter Chairs Meeting (CCM) was organized during the AP-S/URSI conference, as the venue provides Chapter officers with an opportunity to interact, engage, and network with Administrative Committee (AdCom) members, committee chairs, and the world's leading experts in antennas and propagation from academia, industry, and government. Out of concern for the health and safety of all Chapter officers, volunteers, and members amid the pandemic, the CCM

that was scheduled for 9 July 2020 at the IEEE International Symposium on Antennas and Propagation and CNC/USNC–URSI Radio Science Meeting in Montréal is transitioning to a virtual event. The AP-S Chapter Activity Committee (CAC) will send login details of the virtual CCM via email to all AP-S Chapter officers. The AP-S CAC understands the importance of in-person annual meetings. It is considering the possibility of arranging the CCM during AP-S cosponsored regional conferences during the fall. If this option proves to be feasible, we will deliver an announcement via email to our AP-S Chapter officers. We have been closely monitoring travel advisories and public health guidelines through the official channels of the World Health Organization.

We at the CAC recognize that COVID-19 has disrupted life in many parts of the world and affected Chapters, volunteers, event organizers, and members. As such, the CAC has adopted virtual meetings for efficient participation and engagement. I can report that as of 24 May 2020, the CAC received 89 Chapter annual reports for 2019 as well as support requests for 2020 Chapter activities. I would like to share the good news that all Chapters that submitted the annual reports and requests for financial support for 2020 were approved by AP-S treasurer. The requested money was electronically transferred by the IEEE into Chapter budgets through local IEEE Sections.

Regarding the Chapter chair travel grant, the allocated budget will be used to attend meetings in the future. If any Chapters are facing issues related to their funding, they should contact the AP-S CAC chair; Chapter-related issues will be addressed on a priority basis in consultation with the AP-S treasurer and the IEEE.

It goes without saying that interacting with 190-plus Chapters and resolving their issues require a lot of volunteer hours. I want to acknowledge Dr. Ajay K. Poddar, AP-S CAC chair, for his leadership and tireless volunteer service to our Society. Chapter officers are encouraged to communicate with their respective Region coordinators for help and support related to Chapter activities, such as technical events, workshops, the Student Design Contest (SDC), and Young Professionals (YPs) and Women in Engineering (WiE) events, including involvement in the AP-S AdCom for the benefit of the Society and its members.

SDC PROJECT FUNDING

The AP-S AdCom approved additional financing to support the SDC at the local Section level, which is good news for Student Chapters and Student Members. The funding will support SDC events cosponsored by local AP-S Chapters for the engagement of students, YPs, and WiE. Chapter officers are encouraged to submit proposals to their respective Region coordinators, the AP-S treasurer, and the AP-S CAC chair for fast approval

of funding requests to organize SDCs. The template for the SDC is in the special-project category, and it can be sent to the IEEE AP-S CAC chair, Dr. Poddar, at akpoddar@ieee.org. The SDC, special-project form, and preparation guidelines are posted on the IEEE IEEEAPS Chapter webpage (<https://www.ieeeaps.org/chapters/chapters>). Requests for annual support and special project funding can be sent to Dr. Poddar; the submission deadline is 31 August 2020. The team selected for the SDC project will be invited to publish a report in *IEEE Antennas and Propagation Magazine* as a part of the “Chapter News” column. The names and email addresses of the CAC members (regional coordinators, the vice chair, and the chair) are given below for the submission of SDC proposals.

IEEE AP-S CAC

- Dr. Poddar (chair), email: akpoddar@ieee.org
- Don McPherson (vice chair), email: dmcpherson@ieee.org

REGION 1–6 COORDINATORS

- Dr. Edip Niver, email: edip.niver@njit.edu
- Dr. Charlotte Blair, email: cblair@ieee.org
- Dr. Anisha M. Apte, email: anisha_apte@ieee.org
- Har Dayal, email: dayalhar@gmail.com
- Saikumar Padmanabhan, email: gmwave1@gmail.com

REGION 7 COORDINATORS

- Dr. Vladimir Okhmatovski, email: vladimir.okhmatovski@umanitoba.ca
- Dr. Zhizhang Chen, email: z.chen@dal.ca

REGION 8 COORDINATORS

- Dr. Amir Boag, email: boag@tauex.tau.ac.il
- Dr. Vikas Monebhurrun, email: vikas.monebhurrun@centralesupelec.fr

REGION 9 COORDINATORS

- Dr. Felix Vega, email: jfvegas@unal.edu.co
- Camila Rodrigues de Albuquerque, email: camila.albuquerque@ee.ufcg.edu.br

REGION 10 COORDINATORS

- Dr. Meisong Tong, email: mstong@tongji.edu.cn
- Dr. Jawad Siddiqui, email: jys.rpe@gmail.com

IEEE SELF-INTEREST GROUP PROJECT FUNDING

The IEEE Humanitarian Activities Committee (HAC) provides a suite of resources that inspire and enable the IEEE-endorsed vision of volunteers around the world to carry out and/or support impactful humanitarian and sustainable development activities at the local Section level. One of the means by which the HAC accomplishes this goal is by funding the activities of the Special Interest Group on Humanitarian Technology (SIGHT) program, a global network of IEEE volunteers that partners with underserved communities and local organizations to address societal challenges through the exploitation of environmentally friendly, human-focused technology.

The COVID-19 pandemic has affected the world in an unprecedented manner, and thus the HAC has adapted its requirements to better enable IEEE volunteers to contribute. For that reason, the HAC and the SIGHT project have joined forces to prioritize proposals that have a strong potential to make an immediate impact in the fight against COVID-19. AP-S Chapters and AP-S SIGHT groups are encouraged to submit proposals via the HAC and SIGHT online funding portal (<https://www.grantinterface.com/Home/Logon?urlkey=ieeecorporate>). The following template files will be required as part of the application:

- the stakeholder-mapping and end-user engagement template (<https://docs.google.com/document/d/11x28E9BK0vYKdLX-r7nvd0eJ-aUzRG56D0s5Y6mZFY0/edit>)
- the IEEE SIGHT 2020 implementing-team form (<https://docs.google.com/spreadsheets/d/1knLbMN8MaIfHzIGktBWgt1GdL544l9kgTSJa9RSK1IU/edit#gid=0>)
- the IEEE SIGHT projects 2020 budget form (<https://drive.google.com/file/d/19PakujAETZR6pE7k4wcDQtnyrzppAlvq/view>)

- the roles and responsibilities for SIGHT/project lead/Section template (https://docs.google.com/document/d/1nMpHLjhHZ8dY1Mk4sHXUN7j2jwR4NzcgYWLLvZl7x_0/edit).

Dr. Poddar also serves on the SIGHT Steering Committee (SSC). AP-S Chapters and SIGHT volunteers are encouraged to contact him for detailed information about financial support from SIGHT and HAC. The names of the 2020 SIGHT SSC members are shown in Figure 1. More details can be found at the SIGHT website, <https://sight.ieee.org/about-ieee-sight/steering-committee/>.

IEEE AP-S ULRICH L. ROHDE HUMANITARIAN TECHNICAL FIELD PROJECTS AWARD

Call for proposals: Applications consisting of project details and budgets can be submitted to IEEE AP-S SIGHT Chair Prof. Monai Krairiksh (monai.kr@kmitl.ac.th or kkmonai47@gmail.com). There are three deadlines: 31 July 2020 (passed), 30 September 2020, and 30 November 2020. The selection process is in line with SIGHT and HAC project awards. The evaluation of proposals will be based primarily on their technical contents. After completion of the project, the Awards Committee will explore follow-up activities for the low-cost production of the proposed technology, which is the key requirement for humanitarian needs. The announcement of the award will be made at the annual awards ceremony during the IEEE AP-S flagship conference. The recipient will receive a plaque and a cash prize for the completion of the project. The name(s) of the award recipient(s) will be published in *IEEE Antennas and Propagation Magazine* and on the IEEE AP-S website. A complete explanation of the technology will be uploaded to the AP-S SIGHT webpage (<https://www.ieeeaps.org/committees/ieee-aps-sight>). Table 1 lists the 2020 AP-S SIGHT Committee members. AP-S Chapter members are encouraged to interact with their regional coordinators for help and support on developing humanitarian projects.



FIGURE 1. The 2020 SSC members.

REGIONAL CHAPTER NEWS

IEEE REGION 1

NORTH JERSEY SECTION IEEE AP-S/ MICROWAVE THEORY AND TECHNIQUES SOCIETY JOINT CHAPTER

- “Nanoelectronics to Nanotechnology: Challenges and Directions,” Dr. Durgamadhav Misra, Helen and John C. Hartmann Department of Electrical and Computer Engineering, New Jersey Institute of Technology, Newark, 7 May

2020, <http://meetings.vtools.ieee.org/m/231478>

- “Transceiver Architectures for Beyond 5G: Challenges and R&D Opportunities,” Dr. Payam Heydari, professor of electrical engineering, University of California, Irvine, 14 May 2020, <https://meetings.vtools.ieee.org/m/231563>
- “Design Method of Ultralow-Noise, Voltage-Controlled, VHF, 100-MHz Crystal Oscillator and Its Validation,” Dr. Apte, senior design engineer, Synergy Microwave, Paterson,

New Jersey, 18 May 2020, <http://meetings.vtools.ieee.org/m/231316>

- “A Microelectromechanical Switch With Metamaterial Contacts: Concepts and Technology,” Dr. Poddar, adjunct professor, Indian Institute of Technology, Jammu, 18 May 2020, <http://meetings.vtools.ieee.org/m/231317>
- “Dynamical Modeling for Electromagnetic Problems: The Need of Artificial Intelligence Era,” Dr. Tong, professor, Department of Electronic Science and Technology,

Tongji University, Shanghai, China, 24 May 2020, <http://meetings.vtools.ieee.org/m/231406>

- “Microwaving a Biological Cell Alive—Broadband, Label-Free, Noninvasive Electrical Characterization of a Live Cell,” Dr. James Hwang, professor, Department of Materials Science and Engineering, Cornell University, Ithaca, New York, 28 May 2020, <https://meetings.vtools.ieee.org/m/231564>.

IEEE REGION 2

PHILADELPHIA SECTION IEEE AP-S/MICROWAVE THEORY AND TECHNIQUES SOCIETY JOINT CHAPTER

- “Transceiver Architectures for Beyond 5G: Challenges and R&D

Opportunities,” Dr. Heydari, 14 May 2020, <https://meetings.vtools.ieee.org/m/230519>.

IEEE REGION 5

DENVER SECTION IEEE AP-S/MICROWAVE THEORY AND TECHNIQUES SOCIETY JOINT CHAPTER

- “Transceiver Architectures for Beyond 5G: Challenges and R&D Opportunities,” Dr. Heydari, 14 May 2020, <https://meetings.vtools.ieee.org/m/229729>
- “Microwaving a Biological Cell Alive—Broadband, Label-Free, Noninvasive Electrical Characterization of a Live Cell,” Dr. Hwang, 28 May 2020, <https://meetings.vtools.ieee.org/m/231430>.

IEEE REGION 6

FOOTHILL SECTION IEEE AP-S/MICROWAVE THEORY AND TECHNIQUES SOCIETY JOINT CHAPTER

- “Engineering Challenges With High-Gigabit Data Links in Modern Computer Design,” Dr. Scott Wedge, retired from Hughes Aircraft, former Hughes Fellow, 25 June 2020, <https://meetings.vtools.ieee.org/m/230920>.

IEEE REGION 8

BENELUX SECTION IEEE AP-S/MICROWAVE THEORY AND TECHNIQUES SOCIETY JOINT CHAPTER

- “Advanced Antenna Systems for Satellite Communication Payloads,”

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TABLE 1. THE 2020 AP-S SIGHT COMMITTEE MEMBERS.

Name	Affiliation	Email
Dr. Monai Krairiksh (chair)	KMIT Ladkrabang, Bangkok, Thailand	kkmonai47@gmail.com
Dr. Tapan Sarkar (vice chair)	Department of Electrical Engineering and Computer Science, Syracuse University, New York	tk Sarkar@syr.edu
Dr. Roberto Graglia	Politecnico di Torino, Italy	roberto.graglia@polito.it
Dr. Ulrich L. Rohde	Chair, AP-S Strategic Planning Committee	ulr@synergymwave.com
Dr. Mahta Moghaddam	Professor, University of Southern California, Los Angeles; president, AP-S; IEEE Geoscience and Remote Sensing Society AdCom member	mahta@usc.edu
Dr. Christian Pichot	University Côte d'Azur, Nice, France	christian.pichot@unice.fr
Dr. Zhongxiang Shen	Nanyang Technological University, Singapore, China	ezxshen@ntu.edu.sg
Dr. Ajay K. Poddar	Chief scientist, Synergy Microwave; chair, AP-S CAC	akpoddar@ieee.org
Dr. Eric Mokole	Chair, AP-S Future Directions Technology Committee	eric.mokole@outlook.com
Dr. Qun Wu	Professor, Harbin Institute of Technology, China	qwu@hit.edu.cn
Dr. Jawad Y. Siddiqui	AP-S Chapter chair	jys.rpe@gmail.com
Dr. Vikass Monebhurrun	Electrical Engineering Group, Sorbonne Universités, Paris, France	vikass.monebhurrun@centralesupelec.fr
José Félix Vega Stavro	National University of Colombia, Bogotá	jfvegas@unal.edu.co
Dr. Albert Lysko	Principal researcher, Council for Scientific and Industrial Research; chair, IEEE South Africa Section	lysko@ieee.org

CLASSICAL CONTROL ELECTRONICS FOR QUANTUM SYSTEMS

The IEEE Antennas and Propagation Society is a cosponsor of *IEEE Transactions on Quantum Engineering (TQE)*, IEEE's new open-access journal, which covers topics in the physical design of both classical and quantum components of quantum information systems and applications and software for those systems, including design tools. Quantum information systems include quantum computers, sensors, communications systems, and metrology.

IEEE TQE has announced a special section for 2020 on "Classical Control Systems for Quantum Information Applications." See complete information at https://tqe.ieee.org/cls_ctl_cfp/.

Dr. Sudhakar Rao, technical fellow, Northrop Grumman Aerospace Systems, Redondo Beach, California, 15 May 2020, <https://meetings.vtools.ieee.org/m/226022>.

FRANCE SECTION AP-S CHAPTER

- “Lens Antenna: Fundamentals and Present Applications,” Dr. Oscar Quevedo-Teruel, professor, KTH Royal Institute of Technology, Stockholm, Sweden, 18 May 2020, <https://meetings.vtools.ieee.org/m/221986>.

IEEE REGION 9

NORTHEASTERN BRAZIL SECTION AP-S CHAPTER

- “5G Antenna Optimization,” Dr. Pavlos Lazaridis, professor, University of Huddersfield, United King-

dom, 20 May 2020, <https://meetings.vtools.ieee.org/m/231045>.

IEEE REGION 10

BANGALORE SECTION IEEE AP-S/ MICROWAVE THEORY AND TECHNIQUES SOCIETY JOINT CHAPTER

- “Signal Processing With Surface-Acoustics-Wave Devices,” Dr. Raghavendra G. Kulkarni, professor, People’s Education Society University, Bangalore, India, 12 May 2020, <https://meetings.vtools.ieee.org/m/230973>.

HYDERABAD SECTION IEEE AP-S/ MICROWAVE THEORY AND TECHNIQUES SOCIETY/ELECTROMAGNETIC COMPATABILITY SOCIETY JOINT CHAPTER

- “Design of Antennas for Defense Applications,” K. Sambasiva Rao,

Research Center Imarat, Defense Research and Development Organization, Hyderabad, India, 15 May 2020, <https://meetings.vtools.ieee.org/m/230802>

- “MMIC Technologies for Space and Defense Applications: An Indian perspective,” Dr. Sandeep Kumar Chaturvedi, deputy general manager and head, MMIC Design Center, Gallium Arsenide Enabling Technology Center, Hyderabad, India, 16 May 2020, <https://meetings.vtools.ieee.org/m/230798>.



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