

# Call for Papers: ANTEM 2021

## 19<sup>th</sup> International Symposium on Antenna Technology and Applied Electromagnetics

### & Canadian Radio Science Meeting

8-11 August 2021

Hosted Virtually from Winnipeg, Canada



# ANTEM

<https://antem2021.ieee.ca/>

Email: [antem2021@ieee.ca](mailto:antem2021@ieee.ca)

#### Important Dates

Final Paper Submission:  
April 15, 2021

Notification of Acceptance:  
June 1, 2021

Registration Deadline:  
July 1, 2021

Manuscripts may be submitted in either the IEEE two-page, two-column format with a length of two pages or the one-page, one-column URSI format with a minimum length of 250 words. Only accepted and presented submissions that are in the IEEE two-page format will be submitted for possible inclusion in IEEE Xplore. See the ANTEM website for additional details.

#### Organizing Committee

##### General Co-Chairs

Dustin Isleifson, *University of Manitoba*  
Ian Jeffrey, *University of Manitoba*  
David Michelson, *University of British Columbia & CNC-URSI*

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#### Scope of the Conference

IEEE ANTEM 2021 is co-sponsored by IEEE Canada, the IEEE Winnipeg Section, & the Canadian National Committee of URSI. ANTEM is a premier event for networking, exchanging ideas, & identifying future trends and developments in antennas, propagation & applied electromagnetics. The program will include distinguished lectures, special sessions on leading edge topics, one-day summer schools and a student paper competition. The language of the symposium is English.

#### Conference Theme: "Making Space"

Several specialized topical sessions will be introduced to the conference under this theme:

- Design and application of antennas & radiating systems to eliminate touch requirements
- Antenna miniaturization to reduce antenna dimensions
- Antennas designed for space applications (*e.g.*, satellites and CubeSats)

Students may elect to enter their manuscripts in the [Student Paper Competition](#). Details are available on the ANTEM website.

#### List of ANTEM and URSI Topics

##### Antennas

- Antenna Theory
- Dielectric, Planar & Conformal Antennas
- Antenna Miniaturization & Integration
- Intelligent Reconfigurable Antennas
- Phased Arrays, Reflect-Arrays, and Lenses
- Reflector Antennas
- Wearable & Wireless Sensor Antennas
- On-Chip/In-Package Antennas
- Terahertz & Optical Antennas
- UWB Antennas & Systems

##### Field Theory & Computation

- Analytic & Numerical Methods
- Modelling & EM-CAD Tools
- Scattering & Diffraction
- Inverse Scattering & Remote Sensing
- Guided Waves
- Transients & Time Domain Electromagnetics

##### Radio Science

- A. Electromagnetic Metrology
- B. Fields and Waves
- C. Radiocommunication Systems & Signal Processing
- D. Electronics and Photonics
- E. Electromagnetic Environment & Interference
- F. Wave Propagation & Remote Sensing
- G. Ionospheric Radio & Propagation
- H. Waves in Plasmas
- J. Radio Astronomy
- K. Electromagnetics in Biology and Medicine

##### Electromagnetic Systems, Devices & Applications

- Propagation & Channel Modelling
- Next Generation Mobile Communication & Sensing
- Electromagnetic Metrology
- Machine Learning
- Satellite/CubeSat Radio Communication Systems
- Terrestrial & Ionospheric Radio Communication
- Automotive Radar & Imaging Systems
- Software Defined Radio
- MEMS & Micromachining for RF Systems
- Microwave-to-THz Devices, Circuits & Imaging
- MIMO Systems
- Photonic Devices & Circuits
- Vehicular Electromagnetics
- Wireless Power Transmission
- Electromagnetic Energy Harvesting
- Biomedical Imaging & Sensing
- Electromagnetic Field Measurement
- Electromagnetic Properties & Material Characterization
- Electromagnetic Interference & Compatibility
- Spectrum Management & Spectrum Policy

##### New Phenomena & Engineered Media

- Bio-electromagnetics
- Nano-electromagnetics
- EBG/Metamaterial Structures
- Frequency Selective Surfaces



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