SESSION 1

Antenna Measurements

A20-0016 **"Three Antenna Polarization Measurement Revisited"**
Ronald C. Wittmann and Michael H. Francis (Strativia, Inc.)

A20-0020 **"Correction of the Measured Phase of the Radiation Pattern of Millimeter-Wave Antennas"**
A. J. van den Biggelaar[1], A. B. Smolders[1], U. Johannsen[1], B. F. Jamroz[2], and D. F. Williams[2] ([1]Eindhoven University of Technology, [2]National Institute of Standards and Technology)

A20-0023 **"CATR Reflector Measurement System with Multiple Reflectors for Multiple Angles of Arrival in Millimeter Wave Frequency Bands"**
Corbett Rowell, Adrian Cardalda-Garcia, and Benoit Derat (Rohde & Schwarz GmbH)

A20-0029 **"Open Source Antenna Pattern Measurement System"**
Christian W. Hearn, Dustin S. Birch, Daniel Newton, and Shelby L. Chatlin (Weber State University)

A20-0031 **"Aircraft Antenna Placement Investigation Utilizing Measured Sources in Simulation Model"**
Björn Möhring, Bernd Gabler, and Markus Limbach (Microwaves and Radar Institute (DLR))

A20-0032 **"Reducing phase-measurement errors due to RF-source band breaks"**
John McKenna, Anh Le, and Scott T. McBride (NSI-MI Technologies)

A20-0037 **"Single Antenna Dual Circularly-Polarized Chipless RFID Tag Reading Methodology"**
Chao Liu, Katelyn Brinker, and Reza Zoughi (Iowa State University)

A20-0047 **"Application and Improvement of Fast Antenna Characterization via Sparse Spherical Harmonic Expansion"**
N. M´ezi`eres[1], B. Fuchs[1], L. Le Coq[1], J.M. Lerat[2], G. Le Fur[3], and R. Contreres[3] ([1]CNRS, [2]LNE, [3]CNES)

A20-0052 **"A Low-cost and In-field Antenna Characterizing Method Based on Statistics Measurement"**
Zhenyu Xu[1], Thomas Mauldin[1], Zheyi Yao[1], Tao Wei[1],and Kan Ren[2] ([1]University of Rhode Island, [2]Nanjing University of Science and Technology)

A20-0074 **"Robot-Based Antenna and Radar Measurement System at the RWTH Aachen University"**
R. Moch[1] and D. Heberling[1,2] ([1]RWTH Aachen University, [2]Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR)

A20-0075 **"Amplitude and Phase Uncertainty Analysis due to Cable Flexing in Robot-Based Measurement Systems"**
R. Moch[1], T. M. Gemmer[1], and D. Heberling[1,2] ([1]RWTH Aachen University, [2]Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR)

A20-0115 **"Antenna measurement system using optical fiber link and vertical articulated robot"**
Satoru Kurokawa[1], Michitaka Ameya[1],and Masanobu Hirose[2] ([1]National Institute of Advanced Industrial Science and Technology (AIST), [2]7G aa Co. Ltd)

A20-0046 **"Evaluation of Integrated Antenna Performance through Combined Use of Measurements and Full-Wave Simulation"**
Benoit Derat[1], Mert Celik[1], Sebastian Schmitz[1], Winfried Simon[2], and Andreas Lauer[2] ([1]Rohde & Schwarz GmbH, [2]IMST GmbH)