The IEEE BiCMOS and Compound Semiconductor Integrated Circuits and Technology Symposium (BCICTS) technical sub-committees are organized to reflect the rapidly evolving developments in bipolar, BiCMOS and compound semiconductor circuits and devices. Submissions are encouraged in all areas of advanced circuits, devices and modeling, with particular emphasis on:

- Bipolar/BiCMOS devices, circuits and technologies
- 5G ICs, GaN HPAs/LNAs, InP THz PAs
- High Performance RF Switch Technologies
- GaN HEMT and other wide bandgap power devices
- Analog, RF & Microwave ICs
- mmW & THz ICs
- Process & Device Technology
- Modeling/Simulation
- Optical CMOS/SiGe Transceivers
- High Speed Digital, Mixed Signal, and Electro-Optic IC’s

Detailed descriptions of the topic areas within these subject groups can be found on the BCICTS website (http://www.bcicts.org) and are listed in the 2nd page of this call for paper.

**Candidate papers must include:**
- Title, author(s) name(s) and affiliation(s), corresponding authors’ postal and e-mail addresses, and telephone numbers. The committee will try to honor the authors’ committee preference but reserves the right to review the paper in other categories.

**Company and governmental clearances must be obtained prior to submission of the abstract.**

Accepted work may be used for publicity purposes. Portions of the abstracts may be quoted in articles publicizing the Symposium. Please note on the abstract if this is not acceptable.

Abstracts (PDF only) must be submitted electronically.

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Papers in the following areas are requested:

**Analog, RF, and Microwave ICs**

**mm-Wave and THz ICs**
Millimeter - wave circuits and systems - THz circuits and systems. mm-Wave switches and amplifiers. Phased-array antenna circuits

**Silicon and Related Alloy Semiconductor Device Process Technology**
Advances in Si, SiGe (and other Si alloys) bipolar/BiCMOS processes and device structures demonstrating high speed, low power, low noise, etc. - Manufacturing solutions related to bipolar/BiCMOS processes - Fabrication of high-performance passive components, sensors, and MEMs - Process technology related to discrete and integrated bipolar/BiCMOS power devices (IGBT and RF power devices) - 3D integration - Silicon photonics - Integration of compound devices on Si.

**Silicon and Related Alloy Semiconductor Device and Circuit Modeling**
Improved silicon-based BJT and HBT models and physics-based modeling techniques - Parameter extraction methods and test structures - High-frequency measurement, calibration and de-embedding techniques - RF and thermal simulation techniques - Modeling of passives, interconnect and packages - Statistical Modeling - Device, process and circuit simulation - CAD/Modeling of power devices - Packaging of power devices.

**Compound Semiconductor Device and Circuit Modeling and Simulation**
- Improved III-V HBT and FET models and physics-based modeling techniques - Parameter extraction methods and test structures - High-frequency measurement, calibration and de-embedding techniques - RF and thermal simulation techniques - Modeling of passives, interconnect and packages - Statistical Modeling - Device, process and circuit simulation - CAD/Modeling of power devices - Packaging of power devices.

**Compound Advanced Devices and Technology**
Device and IC manufacturing processes, testing methodologies, & reliability - Integration of III-V devices on Si - High performance devices such as GaN RF and power conversion devices - near-THz SiGe HBTs & InP HEMTs - Novel devices such as tunnel FETs (TFETs) - carbon nanotubes, MEMS, graphene & diamond transistors. Optoelectronic and photonic devices such as optical modulators, lasers, photodetectors, and Silicon Photonics - Thermal management technologies, thermal simulation - Advanced packaging of high-power devices and ICs.

**Device Physics**
New device physics phenomena in Si, SiGe, SiC, GaN, MOS, and III-V HBTs and FETs - Device design issues and scaling limits - Hot electron effects and reliability physics - Transport and high field phenomena - Noise - Linearity/Distortion - Novel measurement techniques - Operation in extreme environments (low/high temperatures, radiation effects), and ESD phenomena.

Further questions on abstract submission may be addressed to the Symposium Technical Program Chair:

Craig Steinbeiser, Qorvo
Ph: +1 (972) 994-4534 | Craig.Steinbeiser@qorvo.com

Symposium information, including abstract submission instructions and a link to the abstract submission system is available on the BCICTS website at: [http://www.bcicts.org](http://www.bcicts.org)