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GOMACTech was established primarily to report on developments in microcircuit technologies and applications for government systems. Established in 1968, the conference has focused on advances in systems and technologies being developed by the Department of Defense and other government agencies, and has been used to announce major government microelectronics initiatives and provides a forum for government reviews. GOMACTech-18 represents the 50th anniversary of the conference, and over this time continuous advances in micro-technologies have enabled a multitude of new capabilities that has revolutionized defense capabilities in addition to the huge commercial impact. The latest technological advances in the field will be reviewed at the 2018 conference, including trustworthy components/technologies, Electro-Optical components, RF components, Micro-Nano electronics, electronics integration, and electronics materials, emerging neuromorphic electronics, quantum information/sensing technologies and technologies beyond Moore's law, advances in wide and ultrawide-bandgap material and device development, and novel power distribution architectures. Abstracts are solicited in the topic areas listed below. Detailed descriptions of the technical topic areas can be found [here](#). GOMACTech is the premier forum for reporting on government funded microcircuit research and other research efforts that focus on the technology needs of government systems. It is an unclassified, export controlled event. All registrants must provide proof of U.S. citizenship or permanent residence status and sign a non-disclosure statement prior to being permitted entry into the conference. Authors whose abstract is accepted (oral and poster presentations) are expected to produce a paper for the conference proceedings.

Advanced Materials and Processes

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