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MILLIMETER-WAVE SOURCE TECHNOLOGY

Chairman: Samuel Dixon, Jr.—U.S. Army LABCOM

Session Abstract: Advanced millimeter-wave sources have been developed, for both low phase noise and high output powers, using advances in solid-state technology. This includes the use of high-frequency heterojunction bi-polars, novel field-controlled transferred-electron oscillators and three-terminal HEMT mixers. Monolithic Impatt Oscillators stabilized using quasi-optical open cavity structures and the theory of sub-harmonic injection locking of millimeter-wave systems are discussed.

2:00 p.m.–3:30 p.m., Wednesday, June 14, 1989
Center Theater