

# Session TU1A

(Joint with MMWMC)

## Systems Applications

**Chairman:**

**A. Gupta**

Westinghouse, ESG

**Co-Chairman:**

**S. Bharj**

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This session is devoted to MMICs developed for commercial and military systems. The presentations cover DBS, PCS, GPS and serrodyne applications. The first paper describes a family of HEMT based MMICs for commercial DBS receivers. This is followed by a paper describing the MCMs developed for the IRIDIUM communications system. The next paper describes the performance of a broadband frequency translator utilizing a 5-bit digital phase shifter. A 1.9 GHz chipset with low power consumption is described in the next paper. A linear power amplifier with 45% power added efficiency is reported. The final paper of this session describes a miniature GPS translator module for tracking munitions.

**8:30 a.m.–10:00 a.m., Tuesday, May 16, 1995**  
**Room A1**