

# Session G

## O-1 Transmission Properties of Coplanar Structures

**Chairman:**

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Coplanar transmission lines are important structures in MIC and MMIC circuits. This session focuses on major advances achieved in characterizing radiation effects, discontinuities including lossy airbridges and pulse propagation. The first paper compares the radiative properties of modified short-circuited coplanar strips with CPW. The second paper utilizes the frequency domain fullwave TLM method to analyze CPW discontinuities. Lossy airbridges of a different type with finite metallization thickness are investigated. Their interaction effect with cascaded discontinuities is also analyzed. The third paper reports on an experimental characterization of coplanar stripline which may use only up to 65% of real estate compared to conventional CPW. The fourth paper concentrates on a theoretical and experimental investigation of pulse propagation in grounded and suspended shielded CPW. The fifth paper investigates the leakage effect in conductor backed CPW.

**1:00 p.m.–2:10 p.m., Tuesday, June 2, 1992**  
**Mesilla/Pecos**