

# **Session H**

## **(Focused Session)**

# **Advances in High Power Microwave Source Technology**

**Chairman:**

**R.B. Miller**  
Titan/Spectron  
Albuquerque, NM

**Co-Chairman:**

**E. Schamiloglu**  
University of New Mexico  
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This special focus session reviews the dramatic progress in high power microwave source technology. In the past year record power levels have been achieved by relativistic magnetrons ( $>1\text{GW}$ ) and klystrons ( $>10\text{GW}$ ) at unprecedented high efficiencies ( $\sim 50\%$ ). Of special interest are the use of plasma in relativistic electron beam-driven slow wave tubes for enhancing power and efficiency, beam transport schemes which eliminate the need for an external magnetic field, the repetitive operation of these high power tubes, and applications of these technologies to radar and particle accelerators.

**1:00 p.m.–2:20 p.m., Tuesday, June 2, 1992**  
**Brazos**