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BIOLOGICAL EFFECTS AND MEDICAL APPLICATIONS

Chairman: Arye Rosen—David Sarnoff Research Center

Session Abstract: This year's session emphasizes innovative medical applications of microwaves including microwave angioplasty, radiometry and hyperthermia. The presentations will include new methods of utilizing microwave energy to restore blood supply to regions of the heart affected by coronary artery stenosis (microwave angioplasty), noninvasive methods for monitoring temperature versus depth in biological tissues (microwave radiometry), and improved analysis of microstrip-based hyperthermia applicators. The theoretical quantification of electromagnetic energy disposition in biological tissues and the experimental determination of the dielectric properties of biological seeds will also be addressed.

8:30 a.m.–10:00 a.m., Tuesday, June 13, 1989
Pacific Room