

# Session GG

## Biological Effects and Medical Applications

**Chairman:**

**A. Rosen**

David Sarnoff Research Center  
Princeton, NJ

This year's session on Biological Effects and Medical applications will open with our invited paper by Prof. Andre Vander Vorst who will present a survey of the main results recently obtained in Europe in the microwave bioelectromagnetics. The majority of the papers concentrates on improved modeling in two important areas. a) dielectric imaging—sensing of tumors, and; b) heating patterns as a consequence of electromagnetic evaluation in hyperthermia applications. Also, the session includes a paper describing the possible use of nonlinear mathematics to explain the dynamics of cancerous cellular growth, and another which discusses the successful application of RF-microwave energy for the treatment of tachycardia.

**3:30 p.m.–5:00 p.m., Wednesday, June 16, 1993**  
**Room 215**

