

## Workshops

### Phased Arrays for Hyperthermia Treatment of Cancer

**Sponsor:** MTT-10, Technical Committee on Biological Effects and Medical Applications  
**Date:** Monday, June 3, 1985, 8:30 am to 5:00 pm  
**Location:** Cervantes Convention Center, Room 122  
**Organizer:** Dr. James C. Lin  
Department of Bioengineering  
University of Illinois at Chicago  
Box 4348  
Chicago, IL 60680  
(312) 996-2331

**Abstract:**

Hyperthermia has been shown to be effective in treatment of superficial tumors, especially when combined with chemo- and radio-therapy. Its use in combating deep-seated tumors has been restricted by problems associated with noninvasive heating of deep tumors. Recent calculations and experimental measurements indicate the possibility that, with proper choice of applicator parameters, it is possible to produce maximum power deposition inside models of biological tissues. This workshop brings together the leading researchers to discuss the technological advances, difficulties and solutions.

### Modern Microwave Oscillator Design Techniques

**Sponsor:** MTT-6, Technical Committee on Microwave and Millimeter-Wave Integrated Circuits  
**Date:** Friday, June 7, 1985, 8:30 am to 5:00 pm  
**Location:** Cervantes Convention Center, Room 260  
**Organizer:** Edward C. Niehenke  
Westinghouse Electric Corporation  
P. O. Box 746, MS-339  
Baltimore, MD 21203  
(301) 765-4573

**Abstract:**

Developments in material and active device technology combined with requirements for sophisticated frequency generation have paved the way for advances in oscillator design techniques, circuits, and performance. This workshop will focus on oscillator synthesis and stabilization, electrical tuning, noise reduction and efficiency enhancement. The discussion will be extended to include application of these concepts to microwave frequency synthesizers.

## Workshops

### Automated RF Techniques (25th Conference)

**Sponsor:** The Automatic RF Techniques Group in affiliation with MTT-12  
**Date:** Thursday - Friday, June 6 - 7, 1985  
**Location:** Cervantes Convention Center  
**Organizer:**  
Robert Nelson  
National Bureau of Standards  
325 Broadway  
Boulder, CO 80303  
(303) 497-5736  
Dr. Barry S. Perlman  
RCA Laboratories  
P. O. Box 432  
Princeton, NJ 08540  
(609) 734-2661

**Abstract:**

The conference's main topic will be "Automated Active Device Measurements". Papers will be given on recent hardware and software developments on the main topic and other computer-aided RF design and testing topics. Technical exchange will be accomplished by informal twenty minute talks.

The conference fee includes the ARFTG Banquet, lunch on Thursday and Friday, and continental breakfast on Friday. Spouses of registered delegates are invited to the ARFTG Banquet at no additional cost. A post conference Digest is also included.

The Hospitality Suite (South Lounge on the ballroom level of the Sheraton), providing refreshments and information on St. Louis, will be available from 8:30 am to 5:00 pm each day. Shuttle buses will continuously circulate among the Symposium hotels and the Convention Center.

## Working Group Luncheon

### Microwave Procurement Strategies for the Late 80's and 90's

**Date:** Tuesday, June 4, 1985, Noon to 1:30 pm  
**Location:** Sheraton Hotel, Pierre Laclede Room  
**Organizer:**  
Frank Walker  
Manager, Subcontracts  
Sanders Associates, EW Division  
95 Canal Street  
Nashua, NH 03061  
(603) 885-3979

This working lunch is organized to plan a program at the 1986 International Microwave Symposium in Baltimore. It is intended to acquaint microwave engineers, and marketing and sales managers, with the procurement process of large system houses and to provide a forum for procurement and marketing people at the Symposium. (Fee: \$10.00 - see Advanced Registration Form)