

## WORKSHOPS

The workshops are scheduled on Monday, June 14, before the main Symposium sessions and Friday, June 18 and Saturday, June 19 after the main Symposium sessions. The fees for these workshops are listed in the registration form contained in this booklet. Lunches will be provided to workshop attendees.

### Advances In Optical Communications

Sponsors: MTT-3, Technical Committee on Fiber and Integrated Optics  
Date: June 14, 0900 - 1700 (Monday) Reunion A  
Organizer: Dr. Jerome K. Butler, Southern Methodist University, Dallas, TX

#### **Abstract**

The demands for modern telecommunications network will make extensive use of optical communications systems. Optical links using semiconductor light sources, tiny hair-like glass fibers and optical detectors form the basis of the systems. Because high data rate links will have baseband signals at microwave frequencies, it may require designers to have an understanding of microwave technologies for modulation and detection. This one day workshop will address the use of contemporary components and system design. The array of speakers will discuss current trends and problem areas to give participants a realistic appraisal of the utility of appropriate techniques.

#### **The Invited Presentations Will Be Given By:**

Dr. Henry Kressel, RCA Laboratories, Princeton, NJ  
Dr. William M. Hubbard, Bell Telephone Laboratories, Holmdel, NJ  
Dr. Felex Kapron, International Telephone and Telegraph Corp., Roanoke, VA  
Dr. Paul W. Shumate, Bell Telephone Laboratories, Murray Hill, NJ

To present a paper, or for additional information, contact Dr. Jerome K. Butler, Southern Methodist University, Dallas, TX 75275, (214) 692-3573.

### Medical Applications of Electromagnetic Energy

Sponsors: MTT-10, Technical Committee on Biological Effects and Medical Applications  
IEEE Committee on Man and Radiation (COMAR)  
Date: June 18, 0830 - 1700 (Friday) Reunion A  
Organizers: Dr. Gideon Kantor, Bureau of Radiological Health, U.S. Food and Drug Administration, Rockville, MD  
Dr. J. Gordon Short, BSD Medical Corporation, Salt Lake City, UT

#### **Abstract**

Recent advances in the use of electromagnetic fields for hyperthermia, the thawing of organs, biomedical imaging, etc. will be highlighted at this workshop. Three invited presentations plus a panel discussion are scheduled for the morning. The afternoon will be devoted to contributed papers and informal discussions in roundtable form.

#### **The Invited Presentations Will Be Given By:**

Dr. Alan H. Barrett, Massachusetts Institute of Technology, Physics Department, Lexington, MA  
Dr. Ian L. Lykett, Massachusetts General Hospital, Department of Radiology, Boston, MA  
Dr. Gilbert Nussbaum, Washington University School of Medicine, Mallinckrodt Institute of Radiology, St. Louis, MO

To present a paper, or for additional information, contact Dr. Gideon Kantor at (301) 443-3840.

### Automatic RF Techniques

Sponsors: MTT-12, Technical Committee on Automatic RF Techniques  
ARFTG, Automatic RF Techniques Group  
Dates: June 18, 0830 - 1700 (Friday) Reunion BC  
June 19, 0830 - 1700 (Saturday) Reunion BC  
Chairman: Mr. Raymond Tucker, Rome Air Development Center, Griffiss Air Force Base, Rome, NY  
Technical Coordinators: Mr. Richard Dolbec, Massachusetts Institute of Technology, Lincoln Laboratory, Lexington, MA  
Mr. Edward Stevens, RCA Government System Division, Moorestown, NJ

#### **Abstract**

This workshop covers state-of-the-art developments in simulation, calibration and measurement techniques, and computer-aided design — both software and hardware. The workshop will highlight automated noise measurements with several short, invited presentations.

The registration fee includes a luncheon and a banquet on June 18th.

For additional information or to contribute a paper to the workshop, contact Richard Dolbec at (617) 862-5500, extension 5860.