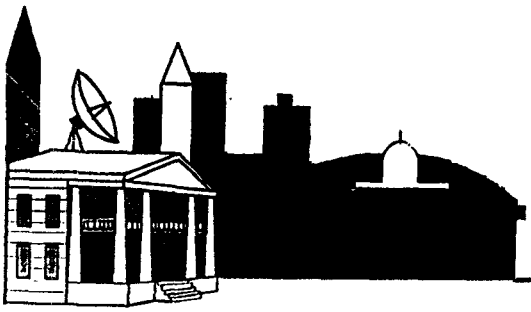

1993 IEEE MTT-S International Microwave Symposium Digest

Technical Program Contents

Technical Program Contents

Session A

(Plenary)

World Congress Center Auditorium

9:00 a.m. to 10:30 a.m. **Tuesday, June 15, 1993**

Chairman: G.P. Rodrigue

"The Global Reach of Microwaves"

Speakers: John Day, Consultant, Strategies Unlimited
Richard Snelling, Retired Executive Vice President, Bell South Telecommunications 84

Session B

(Joint with MMWMC Symposium)

Advanced MMIC Technology
Auditorium

11:00 a.m. to 12:00 p.m. **Tuesday, June 15, 1993**

Chairman: M. Kumar—Paramax Systems Corp., Great Neck, NY
Co-Chairman: W. C. Niehaus—AT&T Bell Laboratories, Reading, PA

Session C

(Special Session)

Intelligent Vehicle Highway Systems
Room: 216/217

11:00 a.m. to 12:00 p.m. **Tuesday, June 15, 1993**

Chairman: R.A. Sparks—Anro, Lexington, MA

*Paper not available at time of printing.

Session D

(Special Session)

Microwave Power Modules (MPM)
Room: 202

11:00 a.m. to 12:00 p.m. **Tuesday, June 15, 1993**

Chairman: R.K. Parker—Naval Research Laboratory, Washington, DC

Session E

Manufacturing Methods, Production and Packaging
Room: 218/219

11:00 a.m. to 12:00 p.m. **Tuesday, June 15, 1993**

Chairman: T.C.Cisco—Hughes Aircraft Company, El Segundo, CA

Session F

(Joint with MMWMC Symposium)

Broadband MMIC Circuits

Auditorium

1:30 p.m. to 3:00 p.m. **Tuesday, June 15, 1993**

Chairman: D. Meharry—Lockheed-Sanders, Nashua, NH
Co-Chairman: H.-L. Hung—COMSAT Laboratories, Clarksburg, MD

Session G

Millimeter-Wave Systems and Techniques

Room: 216/217

1:30 p.m. to 3:00 p.m. **Tuesday, June 15, 1993**

Chairman: A.J. Gasiewski—Georgia Tech, Atlanta, GA

*Paper not available at time of printing.

Session H

Miniaturized and Active Filters
Room: 202

1:30 p.m. to 3:00 p.m. **Tuesday, June 15, 1993**

Chairman: Y.-C. Shih—Hughes Aircraft Company, Los Angeles, CA

Session I

Special Session-Status of Microwave Ferrite Technology
Room: 218/219

1:30 p.m. to 3:00 p.m. **Tuesday, June 15, 1993**

Chairman: J.E. Pippin—Electromagnetic Sciences, Inc., Norcross, GA

*Paper not available at time of printing.

Session OF-1

Interactive Forum I
GWCC Ballroom

2:30 p.m. to 5:00 p.m. **Tuesday, June 15, 1993**

Chairman: W.H. Prather—Electromagnetic Sciences, Inc., Norcross, GA

*Paper not available at time of printing.

Session J

(Joint with MMWMC Symposium)

MMIC Control Circuits

Auditorium

3:30 p.m. to 5:00 p.m. **Tuesday, June 15, 1993**

Chairman E. Switzer—Electromagnetic Sciences, Inc., Norcross, GA
Co-Chairman: C. Huang—Anadigics, Warren, NJ

Session K

Analysis of Quasi-Planar and Quasi-Optical Structures

Room 216/217

3:30 p.m. to 5:00 p.m. **Tuesday, June 15, 1993**

Chairman: J.W. Mink—Army Research Office, Research Triangle Park, NC
Co-Chairman: A.S. Omar—Tech. University, Hamburg-Harburg, Germany

Session L

High Q Filters for Communication Systems
Room: 202

3:30 p.m. to 5:00 p.m. **Tuesday, June 15, 1993**

Chairman: H.C. Bell—Loral Microwave, Rancho Cordura, CA

Session M

Ferrite and Non-Reciprocal Semiconductor Devices
Room 218/219

3:30 p.m. to 5:00 p.m. **Tuesday, June 15, 1993**

Chairman: J.T. Vaughn—Electromagnetic Sciences, Inc., Norcross, GA

Session N

Phased Arrays I
Room 202

8:30 a.m. to 10:00 a.m. **Wednesday, June 16, 1993**

Chairman: J.D. Adams—Georgia Tech Research Institute, Atlanta, GA

*Paper not available at time of printing.

Session O

Millimeter-Wave Amplifer and Receiver Technology
Room 216/217

8:30 a.m. to 10:00 a.m. **Wednesday, June 16, 1993**

Chairman: E.C. Niehenke—Westinghouse ESG, Baltimore, MD
Co-Chairman: M.N. Afsar—Tufts University, Medford, MA

Session P

Solid State Devices and Circuits
Room 218/219

8:30 a.m. to 10:00 a.m. **Wednesday, June 16, 1993**

Chairman: J.F. White—Applied Microwave Magazine, Lexington, MA

Session Q

(Focused Session)

Developments in Global Communications
Room 205

8:30 a.m. to 10:00 a.m. **Wednesday, June 16, 1993**

Chairman: G.L. Heiter—AT&T Bell Labs., North Andover, MA

Session R

Passive Components
Room 215

8:30 a.m. to 10:00 a.m. **Wednesday, June 16, 1993**

Chairman: L.P.B. Katehi, University of Michigan, Ann Arbor, MI

Session S

Phased Arrays II
Room 202

10:30 a.m. to 12:00 p.m. **Wednesday, June 16, 1993**

Chairman: D. Rutledge—Cal. Tech., Pasadena, CA

Session T

Non-Linear Modeling and Analysis
Room 216/217

10:30 a.m. to 12:00 p.m. **Wednesday, June 16, 1993**

Chairman: M. Calcatera, USAF Wright Lab., Dayton, OH

Session U

Solid State Oscillators
Room 218/219

10:30 a.m. to 12:00 p.m. **Wednesday, June 16, 1993**

Chairman: A.P.S. Khanna—Avantek/HP, Santa Clara, CA

Session V

Focused Session

Wireless Local Area Networks

Room 205

10:30 a.m. to 12:00 p.m. **Wednesday, June 16, 1993**

Chairman: J.B. Horton—TRW, Redondo Beach, CA

Session W

Coplanar Structures

Room 215

10:30 a.m. to 12:00 p.m. **Wednesday, June 16, 1993**

Chairman: T.A. Brunasso—Electromagnetic Sciences, Inc., Norcross, GA

Session X

High Speed Fiber Optic Links-Systems
Room 202

1:30 p.m. to 3:00 p.m. **Wednesday, June 16, 1993**

Chairman: P.R. Herczfeld—Drexel University, Philadelphia, PA

Session Y

Field Theoretic CAD
Room 216/217

1:30 p.m. to 3:00 p.m. **Wednesday, June 16, 1993**

Chairman: K.C. Gupta—University of Colorado, Boulder, CO

Session Z

Low Noise mmW Receivers
Room 218/219

1:30 p.m. to 3:00 p.m. **Wednesday, June 16, 1993**

Chairman: J.J. Whelehan—AIL Systems, Deer Park, NY

Session AA

Microwave Systems Consumer and Commercial Applications
Room 205

1:30 p.m. to 3:00 p.m. **Wednesday, June 16, 1993**

Chairman: J.K. McKinney—Maury Microwave Corp., Ontario, Canada

Session BB

Planar Structures
Room 215

1:30 p.m. to 3:00 p.m. **Wednesday, June 16, 1993**

Chairman: J. Taub—AIL Systems, Deer Park, NY

Session OF-2

Interactive Forum II
GWCC Ballroom

2:30 p.m. to 5:00 p.m. **Wednesday, June 16, 1993**

Chairman: W.H. Prather—Electromagnetic Sciences, Inc., Norcross, GA

*Paper not available at time of printing.

Session CC

High Speed Fiber Optic Links-Components Session
Room 202

3:30 p.m. to 5:00 p.m. **Wednesday, June 16, 1993**

Chairman: H. Sobol—University of Texas at Arlington, Arlington, TX

Session DD

CAD of Passive Components
Room 216/217

3:30 p.m. to 5:00 p.m. **Wednesday, June 16, 1993**

Chairman: I. Wolff—Düisberg University, Düisburg, Germany

Session EE

Receiver Components
Room 218/219

3:30 p.m. to 5:00 p.m. **Wednesday, June 16, 1993**

Chairman: E.W. Rezek—TRW, Torrence, CA

Session FF

Selected Russian Microwave Technologies
Room 205

3:30 p.m. to 5:00 p.m. **Wednesday, June 16, 1993**

Chairman: G.W. Ewell—Georgia Tech Research Institute, Atlanta, GA

Session GG

Biological Effects and Medical Applications
Room 215

3:30 p.m. to 5:00 p.m. **Wednesday, June 16, 1993**

Chairman: A. Rosen—David Sarnoff Research Center, Princeton, NJ

Session HH
Device Modeling and CAD
Room 218/219

8:30 a.m. to 10:00 a.m. **Thursday, June 17, 1993**

Chairman: L. Dunleavy—University of South Florida, Tampa, FL

Session II
Coupling and Packaging Effects
Room 202

8:30 a.m. to 10:00 a.m. **Thursday, June 17, 1993**

Chairman: A.A. Oliner—Polytechnic University, Brooklyn, NY

Session JJ

High Power Sources and Control Components
Room 216/217

8:30 a.m. to 10:00 a.m. **Thursday, June 17, 1993**

Chairman: J. Goel—TRW, Redondo Beach, CA

Session KK

Microwave Measurements
Room 215

8:30 a.m. to 10:00 a.m. **Thursday, June 17, 1993**

Chairman: D. Wait—NIST, Boulder, CO

Session LL

Superconducting Filters
Room 218/219

10:30 a.m. to 12:00 p.m. **Thursday, June 17, 1993**

Chairman: R. Withers—Conductus, Inc., Sunnyvale, CA

Session MM

New Structures and Leaky Modes
Room 202

10:30 a.m. to 12:00 p.m. **Thursday, June 17, 1993**

Chairman: M. Dydyk—Motorola, Inc., Scottsdale, AZ

*Paper not available at time of printing.

Session NN

Microwave Integrated Circuits
Room 216/217

10:30 a.m. to 12:00 p.m. **Thursday, June 17, 1993**

Chairman: J. Pierro—AIL Systems, Deer Park, NY

Session OO

Microwave Probe Measurements
Room 215

10:30 a.m. to 12:00 p.m. **Thursday, June 17, 1993**

Chairman: M.A. Maury, Jr.—Maury Microwave Corp., Ontario, Canada

Session PP

Transistor Power Amplifiers I
Room 216/217

1:30 p.m. to 3:00 p.m. **Thursday, June 17, 1993**

Chairman: D. Cahana—Avantek, Santa Clara, CA

Session QQ

Optical Characterization and Device Modeling
Room 202

1:30 p.m. to 3:00 p.m. **Thursday, June 17, 1993**

Chairman: A. Paolella—Army Research Laboratory, Ft. Monmouth, NJ

*Paper not available at time of printing.

Session RR

Superconducting Sub-System Technology
Room 218/219

1:30 p.m. to 3:00 p.m. **Thursday, June 17, 1993**

Chairman: C.M. Jackson—TRW, Hawthorne, CA

Session SS

EM Analytical and Numerical Techniques I
Room 215

1:30 p.m. to 3:00 p.m. **Thursday, June 17, 1993**

Chairman: M. Goetz—Stratedge Corp., San Diego, CA

Session TT

Transistor Power Amplifiers II
Room 216/217

3:30 p.m. to 5:00 p.m. **Thursday, June 17, 1993**

Chairman: L.J. Kushner—MIT Lincoln Labs., Lexington, MA

Session UU

Simulation and CAD Frameworks
Room 202

3:30 p.m. to 5:00 p.m. **Thursday, June 17, 1993**

Chairman: B.S. Perlman—Army Research Laboratory, Ft. Monmouth, NJ

*Paper not available at time of printing.

Session VV

Acoustic Filters and Resonators
Room 218/219

3:30 a.m. to 5:00 a.m. **Thursday, June 17, 1993**

Chairman: T. Lukaszek—US Army Research Laboratory, Ft. Monmouth, NJ

Session WW

EM Analytical and Numerical Techniques II
Room 215

3:30 p.m. to 5:00 p.m. **Thursday, June 17, 1993**

Chairman: W. Hoefer—University of Victoria, Victoria B.C., Canada