

**Technical Coordinating Committee  
Report**

**June 8, 1997**

## Technical Coordinating Committee

Chairman: Frank Sullivan

Vice-Chairman: Tim Kemerley

Winter Technical  
Committee Meeting

Coordinator: open

European Liaison: Terry Oxley

Far East/Other Liaison: open

## Agenda

### A. Chairman's Report

F. Sullivan

- TCC Meeting Agenda
- RF (**HF/VHF**) Update

### B. Technical Committee's Information Items

Chairpersons

- MTT-20 Update
- Tech. Committee Chair/  
Co-Chair List

B. Geller

# **Technical Committee Chairmen Meeting**

## **Agenda**

**June 10, 1997**

- January 1997 Meeting Minutes Review & action updates**
- TCC Winter Meeting Coordinator Issue**
- TCC Global Expansion Push**
- Local Chapter/Technical Committees Connection Emphasis**
- New Issues & Inputs**

## HF/VHF RUMP SESSION

### CHAIRMEN

- Frederick H. Raab, GMRR
- Frank Sullivan, Raytheon

### SPEAKERS

- S. K. Leong, Polyfet  
"MOSFET power amplifiers"
- J. Sevick, Consultant  
"Transmission-line transformers"
- F. H. Raab, GMRR,  
"High-efficiency transmitters / amplifiers"
- D. Myer, Communication Power  
"Feedforward amplifiers for high linearity"
- J. Eagleson, RF Technologies,  
"RFID: Overview of technology"
- D. Brounley, Brounley Engineering,  
"Plasma and laser drivers"
- U. Rhode, Compact Software,  
"CAD techniques for HF and VHF"

### FUTURE MTT HF/VHF ACTIVITIES

- Open discussion

## HF/VHF IN MTT - WHY?

### RF ENGINEERING

- Frequency range < 1 GHz
- Applications
  - Communication
  - RF heating / plasma / laser / MRI
  - RFID

### RF ENGINEERS

- 26,000t
- Most not IEEE members

### CURRENT FOCAL POINTS

- Trade journals (RF Design, *Appl. Microwave*)
- Conferences (RF *Expo/Design*, HF '97)

### WITHIN IEEE: NO FOCAL POINT

- CAS: Theoretical
- BC: Specific application
- MTT: Traditionally > 1 GHz

### BENEFITS TO INCLUSION IN **MTT**

- Common approach
- Overlapping interests
- Peer review
- Archival / availability
- Standards

## ORGANIZATION

### INTEGRATION OF **HF/VHF**

- **Some** topics fit existing committees
- Some do not

### **EXAMPLES OF TECHNOLOGIES UNIQUE TO HF/VHF**

- Ferrite-core transformers
- Bandwidths in decades (vs. an octave)
- MOSFETs
- Discrete components
- Lumped-element networks (vs. trans. lines)
- RFID
- Plasma heating at 13.56 MHz
- Laser drivers
- **MRI**

### **NEEDS**

- Permanent committee for HF/VHF
- Assistant editor for HF/VHF
- Presence at **I MS**

## FUTURE ACTIVITIES

### HF/VHF PAPERS IN *MTT* TRANSACTIONS

- Easily done
- Will take time and/or publicity to get
- Probably need assistant editor

### SPECIAL HF/VHF SESSION AT MTT'98

### REGULAR HF/VHF SESSION AT MTT'99

- Better attendance for regular session
- More timely call for papers
- More publicity

### SPECIAL ISSUE OF *MTT* TRANSACTIONS

- High visibility
- Clear sign of MTT interest in HF/VHF

### YEAR AHEAD

- Get organized
- IMS '98 – this summer!
- IMS '99
- Special issue *Trans. MTT*

**MTT Technical Chairman/Co-Chairman****6-3-97**

<b><u>Committee</u></b>	<b><u>Chair/Co-Chair</u></b>	<b><u>e-mail</u></b>	<b><u>Phone</u></b>	<b><u>Fax</u></b>
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