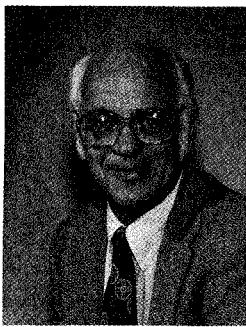


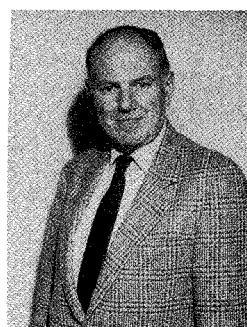
# 1988 MTT-S Symposium Steering Committee



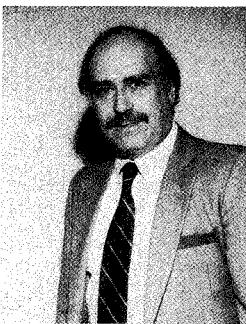
Charles Buntschuh  
Steering Committee  
Chairman



Jesse Taub  
Technical Program  
Co-Chairman



James Whelehan, Jr.  
Technical Program  
Co-Chairman



John Pierro  
Special Sessions



Donald Neuf  
Invited Papers  
Coordinator



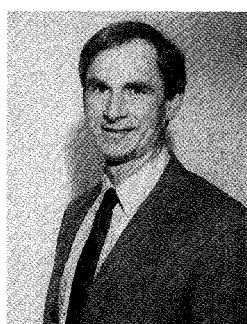
Naomi Taub  
Secretary



Al Kelly  
Finance



John Coppola  
Local Arrangements  
Chairman



Klaus Breuer  
Registration  
Chairman



Joseph Calviello  
Local Transportation

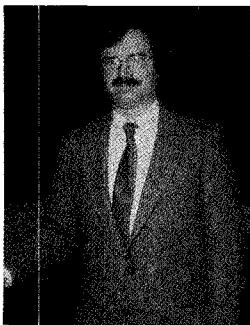


Raymond Viola  
Publications  
Chairman



Bertram Aaron  
Publicity Chairman

# 1988 MTT-S Symposium Steering Committee



John Putnam  
Hertz Centennial  
Liaison



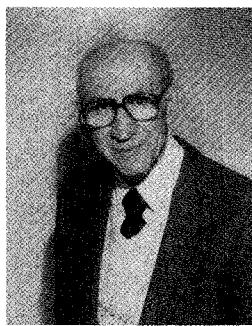
Richard and  
Josephine Kaminsky  
Guests Program



John and  
Laurie Mruz  
Guests Program



Joe Schindler  
Special Events



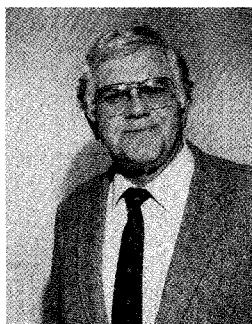
Saul Rosenthal  
Chairman Emeritus  
and Historical Exhibits



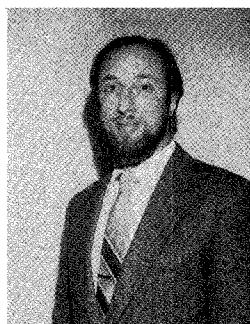
Paul Meier  
MMIC/ARFTG  
Liaison



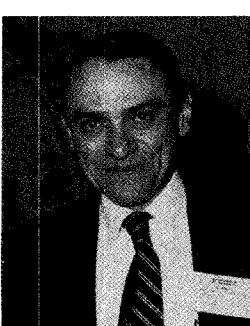
S. T. Peng  
Student Programs



Sidney Wolin  
Local Arrangements  
Catering



Mathew Jacobs  
Local Arrangements



Howard Ellowitz  
Exhibits Management

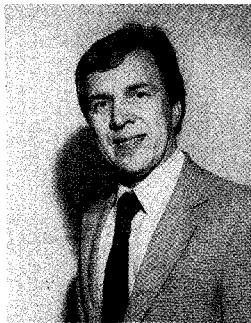


Margaret Whicker  
Symposium  
Management



Lawrence Whicker  
Symposium  
Management

# 1988 MTT-S Symposium Steering Committee



Henry Paczkowski  
Special Transactions  
Issue Editor



Gerald Katz  
Publicity



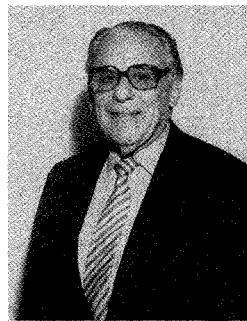
William Reich  
Local Arrangements



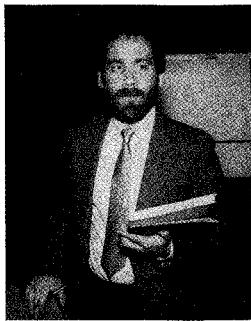
Peter McVeigh  
Registration



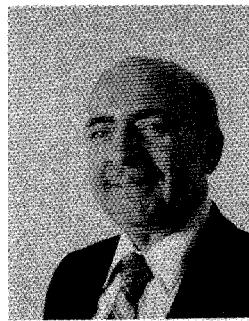
Paricher Boloori  
Local Arrangements



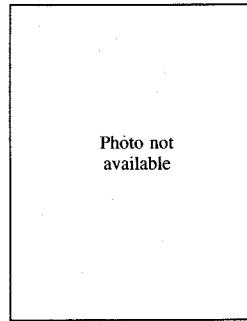
A. D. Adams  
Publicity



Joseph Levy  
Open Forum



Jerry Hausner  
Local Arrangements



Robert Koelzer  
Local Arrangements  
Catering



Steering Committee Group Picture

# MESSAGE FROM THE TECHNICAL PROGRAM COMMITTEE

1988 is an outstanding year for microwaves. This year marks the 100th anniversary of Heinrich Hertz and this event will be honored and will be a highlight of the 1988 MTT-S Symposium with two complete sessions devoted entirely to honor this distinguished individual. This year, the 1988 IEEE MTT-S International Microwave Symposium received a record number of papers that enabled the Technical Program Committee to come up with an outstanding program. This very innovative and full program that is coupled with the Microwave and Millimeter Wave Monolithic Circuits Symposium as well as the ARFTG Conference, offers the engineer a full and exciting week of microwaves.

The format for this year's Symposium is very similar to those used in previous years. A Plenary Session will open the Symposium on Wednesday in the Jacob Javits Convention Center. However due to the large number of outstanding papers submitted and the number of other invited sessions, there will be four parallel sessions. It should, however, be noted that in addition to the Microwave and Millimeter Wave Monolithic Symposium, monolithic technology has matured sufficiently that the MTT-S Symposium has three sessions on MMIC technology. The Microwave Symposium will keep all of the features adopted at previous Symposia, such as Focused Sessions, European Microwave Sessions, Open Forum, Panel Sessions, Workshops, regular length papers, short length papers, and 90 minute sessions. One change, however, is that the Panel Sessions during lunch have been extended to two hours to provide adequate time to explore the topics that are presented. The 214 papers selected are broken down into 100 regular length papers, 65 short papers and 49 Open Forum papers.

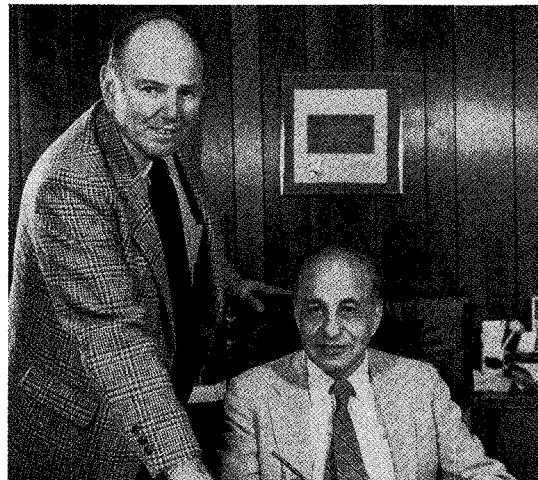
The Focused Sessions cover exciting areas of interest such as High Power Microwaves, Fiber Optic Links and Transmission Systems and have been expanded to two sessions as well as two contributed sessions in Fiber Optic technology. This is the third year in which focused sessions on microwave optical interactions have been scheduled. A special session has been organized by Professor T. Itoh to honor the career of Professor A. Oliner for his contributions to Field Theory. Two exciting sessions commemorating the One Hundredth Anniversary of Hertz's demonstration of microwaves have been organized by Professor J. Bryant. Looking to the future, a session on Microwave Superconductivity has been organized. We foresee major growth in this area.

The European Microwave Session will feature three outstanding papers that update the latest technology development throughout Europe: "GaAs Device Activities in Europe" by W. Baechold; "European MMIC Activities" by J. Magarshack; and "Millimeter Wave Systems in Europe" by H. Meinel. In addition, an invited paper will also be presented by A. S. deSalles from the University Catolica that will encompass the ongoing research activities in Brazil.

The lunch time panel sessions offer a wide choice of topics including "U.S. Competitiveness in the World Market", "Heterojunction Bipolar Transistor Circuits", and "The Business of Microwaves: The Better Mousetrap is No Longer Enough." Eight Workshops are planned for Monday and Tuesday. They include "MIC and MMIC FET High Power Amplifier Design Techniques", "Superconductivity and Microwaves", "Packaging Hybrid and Monolithic Microwave and Millimeter Wave Components", "Designing MMIC's Through Foundries", "FET Structures and Their Modeling", "CAD-Oriented Modeling of Discontinuities in Microwave/Millimeter Wave Transmission Line Structures", "High Volume Microwave Applications", and "Developments in Linearizers for Microwave Power Amplifiers".

As indicated previously MMIC technology is heavily featured in the Symposium. The larger number of papers submitted directly to the MTT-S Symposium covering Monolithic Technology and Circuits clearly shows that this exciting new field is rapidly expanding and becoming more of a mainstream topic for the Symposium. In the MTT-S Symposium, there are three MMIC sessions on Tuesday in addition to the three Joint Sessions on Wednesday. Four sessions on FET and FET applications are scheduled for Friday. Two contributed sessions on Fiber Optics technology (in addition to the Focused Sessions) will be given on Friday. Three sessions on Microwave Systems are indicative of new and expanding applications of microwaves. We have also structured strong sessions on solid state devices and their applications, measurements, filters, passive components, MIC, millimeter waves, microwave acoustics, ferrites, phased array techniques, field theory, guided waves, and microwave CAD.

This outstanding program demonstrates the vitality and diversity of microwaves. It could only be made possible by contributions of the authors and the dedication of the Technical Program Committee. We are most grateful for the efforts of the Special Sessions Chairman, John Pierro, Invited Papers Coordinator, Donald Neuf, Open Forum Chairman, Joseph Levy, and MMIC/ARFTG Liaison, Paul Meier.



Jesse Taub and James Whelehan, Jr.

# Technical Program Committee Members



Standing: (l to r) James Rautio, Edward Niehenke, J. Fiedzuszko, Ferdo Ivanek, Ralph Levy

Seated: James Crescenzi Jr., Mahesh Kumar, Ali Atia, Chandra Kudsia, Michael Ciminera



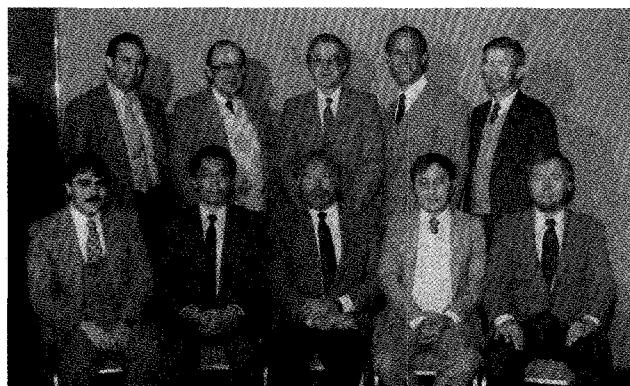
Standing: (l to r) Ulrich Rohde, Arye Rosen, William Childs, Stephan Sussman-Fort, Harlan Howe Jr.

Seated: K. C. Gupta, Karle Niclas, Wayne Kennan, Steve Stitzer, Douglas Maki



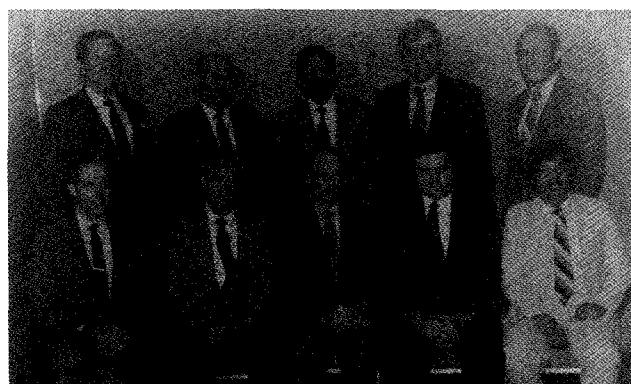
Standing: (l to r) Bert Benson, Elliot Cohen, Fred Rosenbaum, Robert Pucel, George Jerinic

Seated: Ron Ham, Roger Pollard, Stephen Adam, Mario Maury Jr., Joseph Calviello



Standing: (l to r) Erwin Belohoubek, Robert Weck, Ted Lukaszek, John Owens, Paul Greiling

Seated: Natalino Camillieri, Hiroto Ogawa, Mike Mallon, Kuo-Hsiung Yen, Dick Patton



Standing: (l to r) John Horton, Peter Petrelis, Krishna Agarwal, A. Cardiasmenos, Harold Fetterman

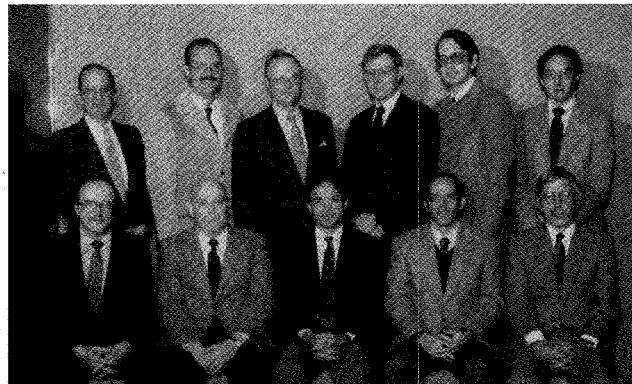
Seated: George Heiter, Harry Cronson, Ingham Mack, Dave McQuiddy, Mohammed Afsar

# Technical Program Committee Members



Standing: (l to r) Ray Camisa, John Bryant, Bill Hord, Henry Paczkowski, Marvin Cohn, Daniel Massé, John Pierro

Seated: André Vander Vorst, Tatsuo Itoh, Jesse Taub, James Whelehan Jr., Reynold Kagiwada, Joseph Levy



Standing: (l to r) Charles Rucker, Samuel Petty, Joseph White, Peter Staeker, Dennis Webb, Dean Peterson

Seated: Michael Dydyk, Leonard Cohen, Albert Williams, Clifford Krowne, George Vendelin



Standing: (l to r) Eugene Gregory, Clarke Bell, Peter LaTourrette, Richard Snyder, Bernard Geller, Goel Jitendra

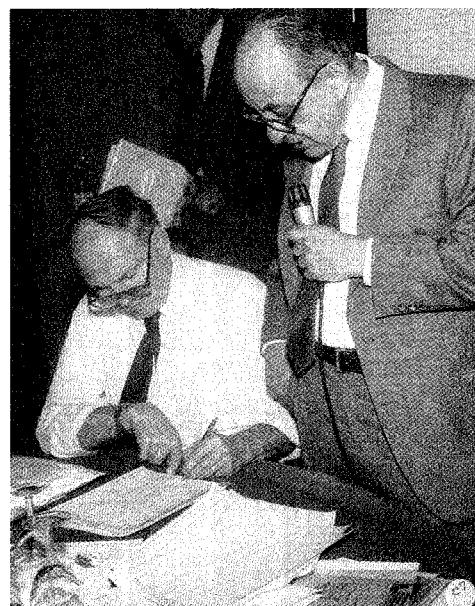
Seated: Paul Meier, James Wiltse, George Oltman Jr., Donald Neuf, Ted Nelson



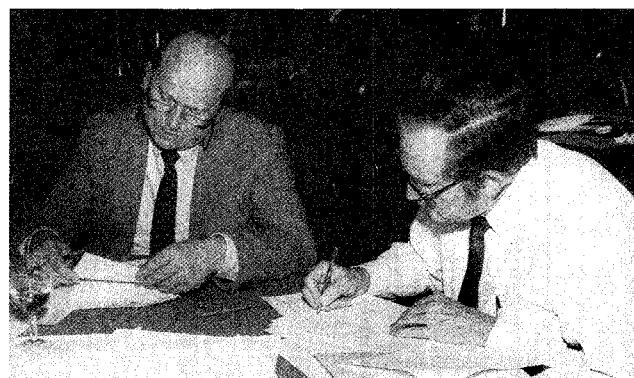
Standing: (l to r) Chi Lee, Paul Stabile, Pradeep Wahi, Ken Yano, Norm Dietrich, Reinhard Knerr

Seated: Nicólas Alexóopoulos, James Mink, Arvind Sharma, Arthur Oliner, S. T. Peng

# Technical Program Committee At Work . . .



Jesse Taub and Jim Whelehan



A. Oliner



# 1988 IEEE MTT-S Administrative Committee

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Vice President . . . . .	Vladimir G. Gelnovatch
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N. Walter Cox	Reynold Kagiwada	Jorg E. Raue
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Tatsuo Itoh	Robert A. Moore	Steven J. Temple

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1986 . . . . .	Reinhard H. Knerr
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## Honorary Life Members

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Seymour B. Cohn	Theodore S. Saad	Leo Young



*Back Row (l to r):* Reynold Kagiwada, Paul Greiling, Harlan Howe Jr. and Steve Temple

*Front Row (l to r):* Tatsuo Itoh, Barry Spielman, Kiyo Tomiyasu and Ted Saad



*Standing: (l to r)* Martin Schneider, John Owens, A. Vander Vorst and Al Estes

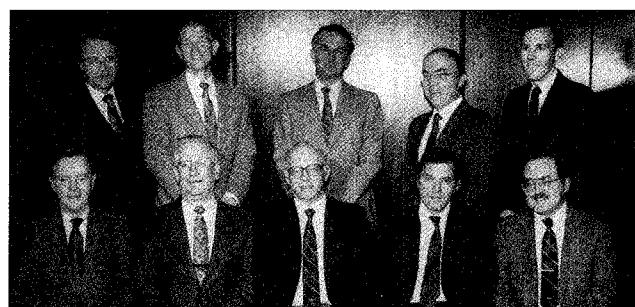
*Front Row (l to r):* Norman Dietrich, Reinhard Knerr and Fred Rosenbaum

# 1988 IEEE MTT-S Administrative Committee



*Standing: (l to r) Kris Agarwal, Ed Niehenke, John Bryant, Art Oliner and Pete Staecker*

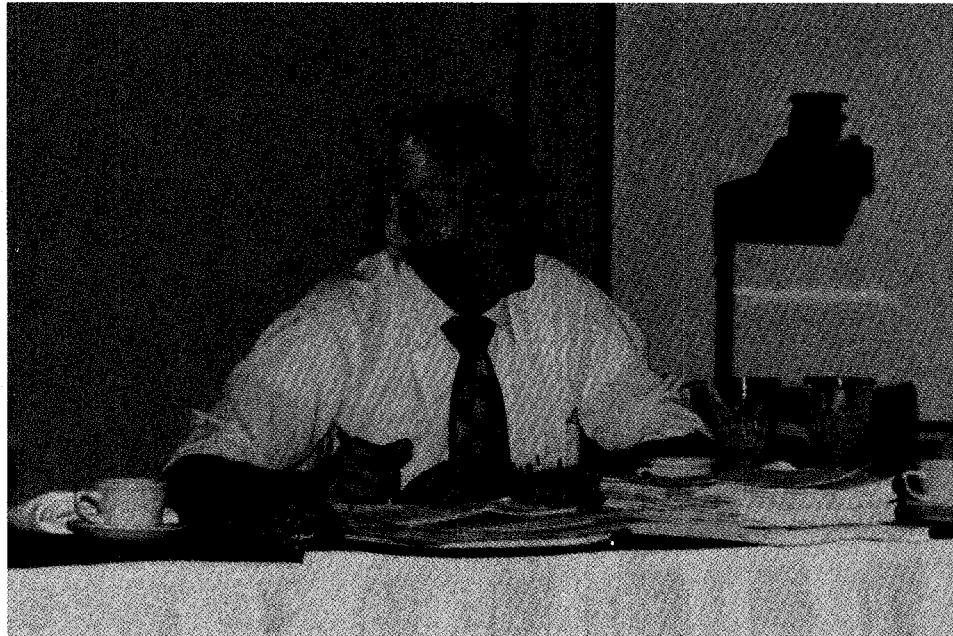
*Front Row (l to r): David McQuiddy, Steve Adam, Larry Whicker, George Oltman and Charlie Rucker*



*Standing: (l to r): Jorg Raue, Walter Cox, Louis Medgyesi-Mitschang, Jim Crescenzi, Jr. and Gary Lerude*

*Front Row (l to r): Ferdo Ivanek, Robert Moore, Ralph Levy, Vladimir Gelnovatch and Mario Maury Jr.*

# Steering Committee At Work . . .



Chairman Chuck Buntschuh taking notes



Joe Levy commenting, again

## Steering Committee At Work . . .



Jesse Taub standing

