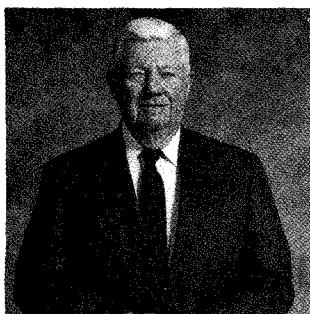


1989 MTT-S Symposium Steering Committee



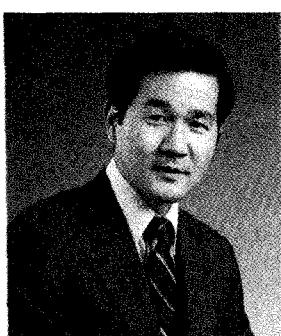
Chuck Swift
Steering Committee
Chairman



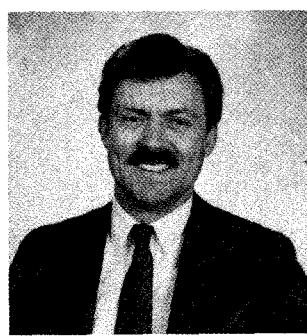
Don Parker
Steering Committee
Vice-Chairman



Reynold Kagiwada
Technical Program
Chairman



Ken Yano
Technical Program
Vice-Chairman



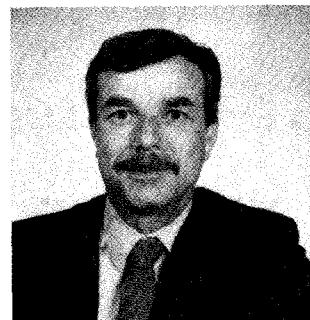
R. E. "Skip" Bryan
Finance Chairman



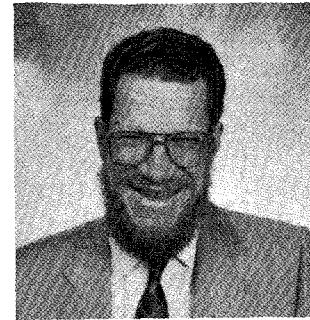
Irene Petroff
Secretary



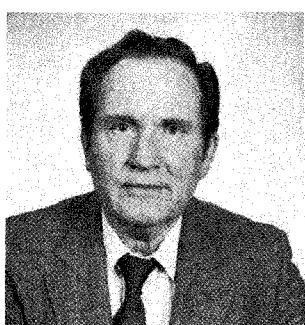
Harvey Endler
Registration
Chairman



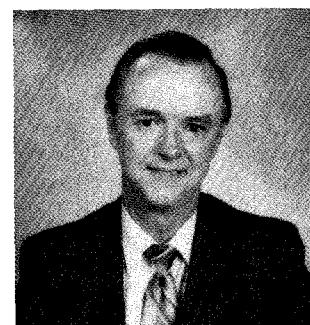
Pete Pusateri
Local Arrangements
Chairman



Steve Swift
Local Arrangements
Vice-Chairman



John Horton
Special Sessions
Chairman



Kenneth Russell
Publications
Chairman

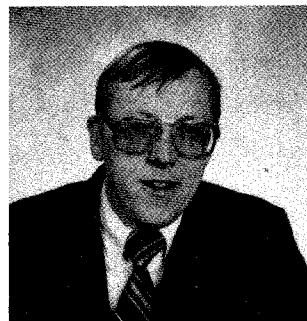


Mario A. Maury, Jr.
Publicity Chairman

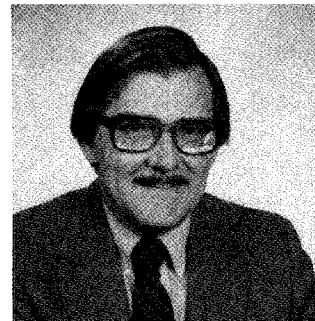
1989 MTT-S Symposium Steering Committee



Jorg Raue
Special Transactions
MTT Co-Editor



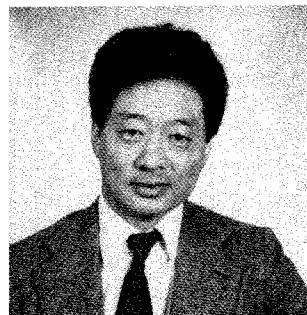
Frank Bayuk
Special Transactions
MTT Co-Editor



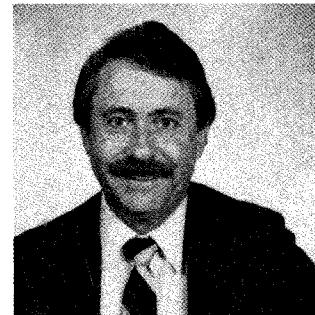
Robert Eisenhart
Special Exhibits
Chairman



Loretta Oltman
Spouses Program
Chairperson



Michael Kim
Open Forum



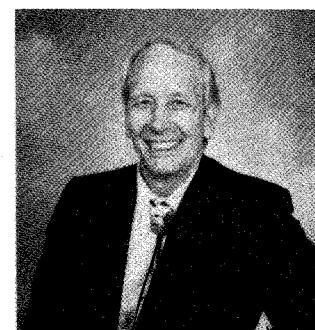
Ken Conklin
Panels and
Workshops



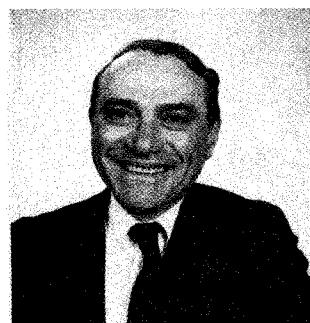
J. K. McKinney
Publicity
Vice-Chairman



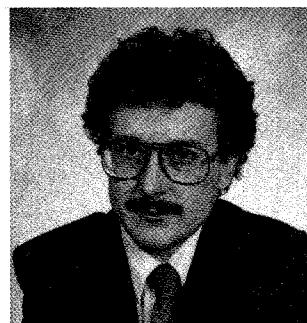
H. John Kuno
Liaison to Monolithic
Circuits Symposium



H. George Oltman, Jr.
Liaison to ARFTG
Conference



Howard Ellowitz
Exhibition



Charles Jackson
Exhibits Liaison



Nance Cohen
Finance
Vice-Chairperson

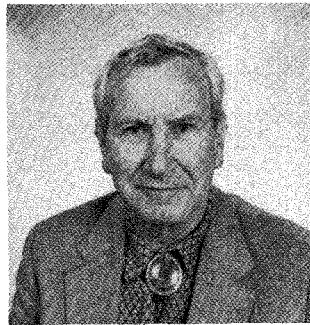
1989 MTT-S Symposium Steering Committee



Nancy Eisenhart
Chief of Protocol



Paul Greiling
Member at Large



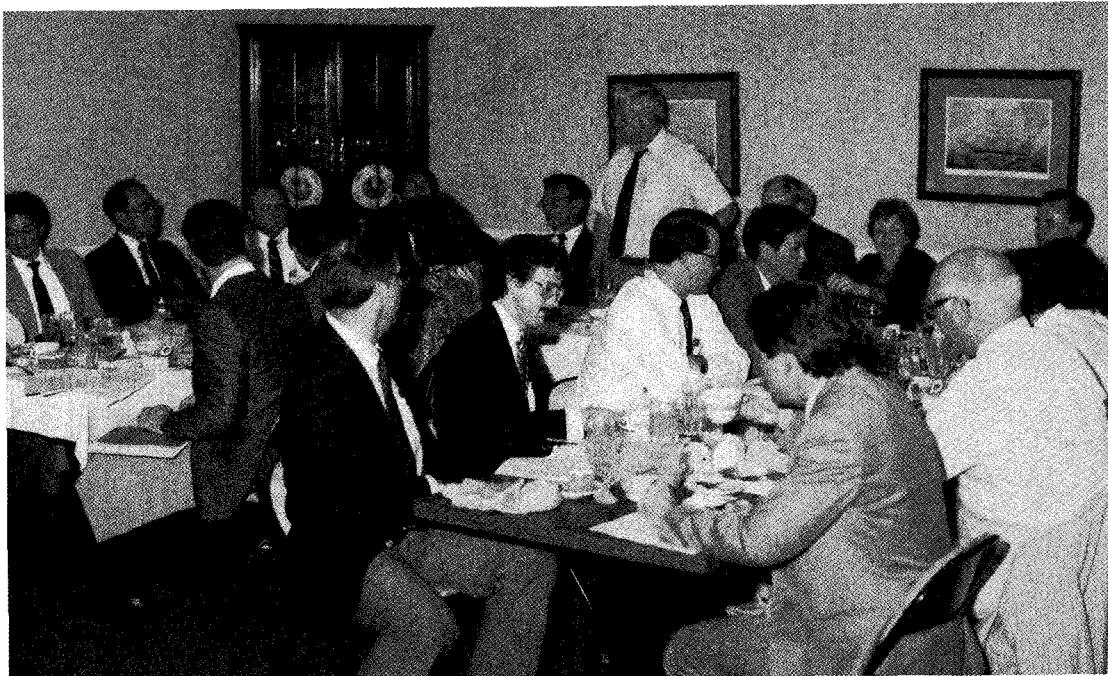
Al Clavin
Member at Large



Margaret Whicker
Conference
Management



Larry Whicker
Conference
Management



Steering Committee in Action

MESSAGE FROM THE TECHNICAL PROGRAM CHAIRMAN

The 1989 IEEE MTT-S International Microwave Symposium is truly outstanding. It is the culmination of a series of exceptional symposia of the 1980's. 519 papers, over a hundred papers more than the two previous years was an added challenge to the members of the Technical Program Committee who worked diligently to compose the program. This program, along with the Microwave and Millimeter-Wave Monolithic Circuits Symposium and the ARFTG Conference, offers the engineer an exciting full week of microwave theory and techniques.

The Plenary Session will be held in mid-morning on Tuesday. This year's Keynote addresses will be presented by Dr. Simon Ramo (TRW) and Dr. Harold Rosen (Hughes Aircraft Company). Their talks will stress the theme of the Symposium "Microwaves Among the Stars".

Because of the large number of papers accepted, four parallel sessions are scheduled. The Symposium retains features of earlier symposia, such as Focused Sessions, the European Microwave Session, Open Forum Sessions, Panel Sessions, Workshops, regular length papers (20 minutes), short length papers (10 minutes) and 90-minute sessions. The 296 papers selected are broken down into 97 regular papers, 81 short papers, 89 Open Forum papers, and 17 invited papers. 12 papers are presented jointly with the Microwave and Millimeter-Wave Monolithic Circuits Symposium. These papers give an excellent view of the progress in microwave theory and techniques; the lower frequencies are represented with subjects like microwave acoustics and the higher frequencies with optical techniques. In addition, rapidly evolving fields such as superconductivity and Gallium Arsenide are extensively covered.

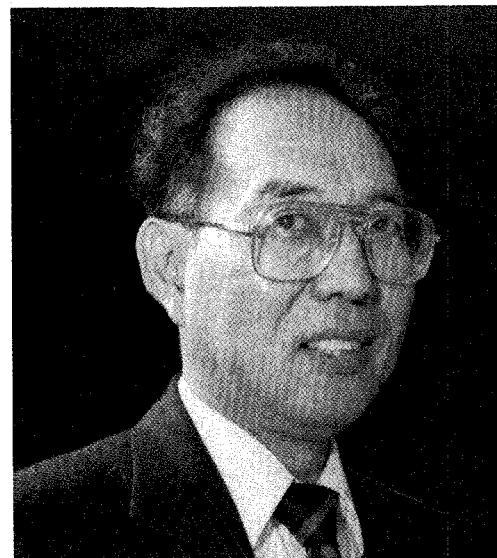
The Focused Sessions are geared to cover technical areas of great interest. The six sessions cover topics in optical interaction with microwave circuits, microwave acoustics, microwave properties and applications of superconductors and high-power microwaves. There will also be a Special Session honoring life member Dr. Seymour Cohn organized by Peter La Tourrette.

The European Microwave Session will feature three outstanding papers that present the latest microwave developments throughout Europe. Discussed will be Active Microwave Imaging, Modeling of Microwave and Millimeter-Wave Passive Components, and Solid-State Local Oscillator Sources for Millimeter and Sub-Millimeter-Waves. This session, as in previous years, was organized by R.H. Jansen.

This year, seven panel sessions offer a broad spectrum from "Entrepreneurship", "Improving the Time to Market", and "Education" to the more technical "Superconductor Applications", "Heterojunction Devices", "Microwave Hardware Descriptive Language" and "MMIC Design". A wide diversity of six workshops is also offered with topics including lightwaves, high power, synthesizers, interconnections and packaging. In addition the Symposium is introducing an Evening Rump Session, "Microwave Characterization of Superconductors".

This year's program has a strong international flavor; over 240 papers were submitted from outside the United States. Once again, GaAs is heavily featured in the Symposium. Including three joint sessions with the Microwave and Millimeter-Wave Monolithic Symposium, a total of eight sessions are devoted to this topic. Another three sessions are devoted to solid-state devices and their applications. Other areas covered in the Symposium include: Biological Effects, CAD, Ferrites, Field Theory, Filters, Guided Waves, Optics, Measurements, Microwave Acoustics, Microwave High Power, MIC, Microwave Superconductivity, Millimeter-Wave, Passive Components and Arrays.

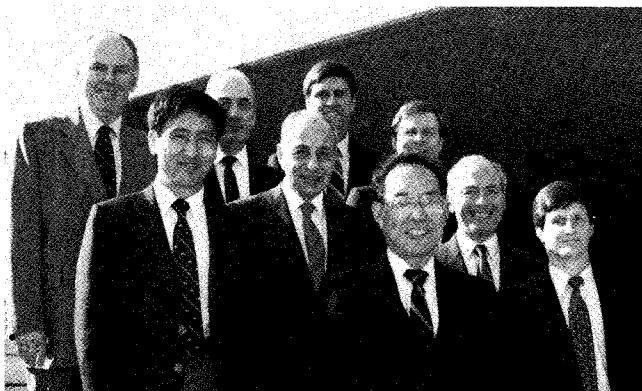
The 1989 International Microwave Symposium program demonstrates a high degree of activity in the microwave community. This outstanding program is made possible by the contributions of the authors and the dedicated work of the Technical Program Committee. Special thanks are in order for the efforts of Vice-Chairman Ken Yano, Open Forum Chairman Michael Kim and Focussed Session, Panel, and Workshop Organizers John Horton and Ken Conklin.



Reynold S. Kagiwada

Reynold S. Kagiwada
Technical Program Committee Chairman
1989 International Microwave Symposium

Technical Program Committee



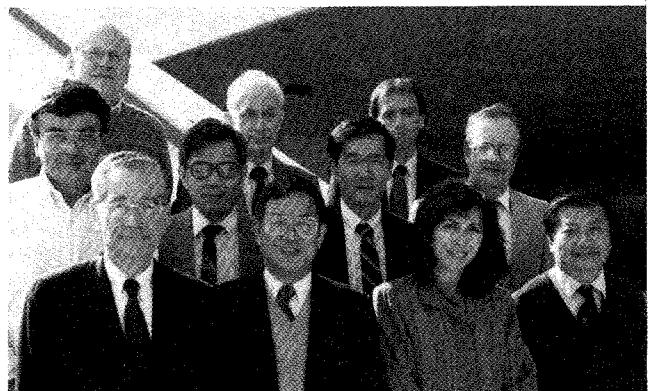
First Row (l-r): Reynold Kagiwada, David Zimmermann.
Second Row: Tatsuo Itoh, Jesse Taub, Marvin Cohn.
Third Row: James Whelehan, Jr., Daniel Masse, Randy Lehmann, Glenn Thoren.



First Row (l-r): Barry Perlman, Richard Van Wagoner, K. C. Gupta. Second Row: Robert Pucel, Theodore Sato, Rajeev Bansal. Third Row: William Childs, Karl Niclas, Rowan Gilmore. Fourth Row: Arye Rosen, Hans Hielsmair.



First Row (l-r): Joseph Levy, Fred Rosenbaum, Mike Malbon, Bert Berson. Second Row: Ferdo Ivanek, Krishna K. Agarwal, Pete Petrelis. Third Row: George Heiter, Doug Maki, John Horton.



First Row (l-r): Arthur Oliner, Chi Lee, Linda Katehi, William Chang. Second Row: Reinhard Knerr, S. T. Peng, Ken Yano, Michael Dydyk. Third Row: Norman Dietrich, Felix Schwering, Arthur Paolella.



First Row (l-r): Kuo Hsiung Yen, Bruce McAvoy, Robert Moore, Ted Lukaszek. Second Row: Don Parker, William Hord, John Owens.



First Row (l-r): Jitendra Goel, Roger Pollard, Steve Adam. Second Row: Harry Cronson, Ron Ham, James Schellenberg, Paul Stabile.

Technical Program Committee



First Row (l-r): Chandra Kudsia, Steve March. Second Row: Arvind Sharma, Richard Snyder, Ralph Levy. Third Row: Richard Booton, James Rautio, James Mink. Fourth Row: Pete La Tourrette, H. Clark Bell, George Matthaei.



First Row (l-r): James Wiltse, Samuel Dixon, Harold Fetterman. Second Row: Paul Mierer, Rene Bonetti, Bernard Geller, Apostle Cardiasmenos. Third Row: Ali Atia, Donald Neuf, Jerry Fieduszko.



First Row (l-r): Mario A. Maury, Jr., Ron Carter, Leonard Cohn. Second Row: J. P. Letellier, Charles Rucker, Michael Cimenara. Third Row: H. George Oltman, Jr., Richard Sparks, Al Clavin.



First Row (l-r): R. T. Kihm, Natalino Camilleri, Kiyo Tomiyasu, Lou Medgyesi-Mitschang. Second Row: George Vendelin, Robert Eisenhart, Gary Lerude, Dean Peterson.

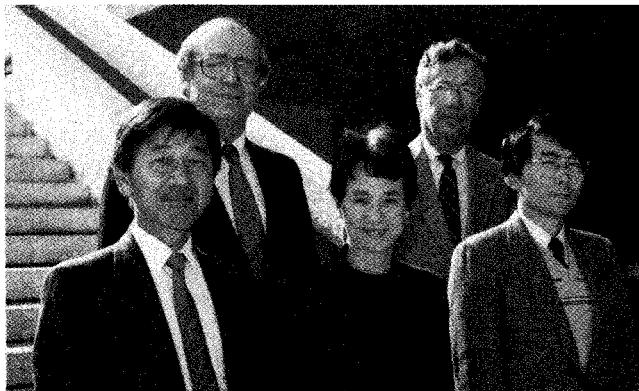


First Row (l-r): Clifford Krown, Steven Stitzer, Moises Leuy. Second Row: Lawrence Whicker, Erwin Bolohoubek, Dennis Webb.



First Row (l-r): Joe Calviello, James Crescenzi, J. K. McKinney. Second Row: Gary McCoy, Bob Weck, David McQuiddy.

Technical Program Committee



First Row (l-r): John Kuno, Irene Petroff, Hiroto Ogawa.
Second Row: John Pierro, Harlan Howe.



First Row (l-r): Michael Kim, John Selin, Jorg Raue.
Second Row: Roger Sudbury, Elliot Cohen, Ingham Mack.



(l-r): Howard Ellowitz, Chuck Swift, Joe White.



Technical Program Committee at Work

1989 IEEE MTT-S Administrative Committee

Officers

President	Vladimir G. Gelnovatch
Vice President	Tatsuo Itoh
Treasurer	Robert A. Moore
Secretary	Barry S. Perlman

Elected ADCOM Members

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E. James Crescenzi, Jr.	Mario A. Maury, Jr.	Martin V. Schneider
Al L. Estes	Louis Medgyesi-Mitschang	Peter W. Staeker
Ferdo Ivanek	Robert A. Moore	Steven J. Temple
Rolf H. Jansen	Edward C. Niehenke	Rodney S. Tucker
Reynold S. Kagiwada		

Immediate Past Presidents

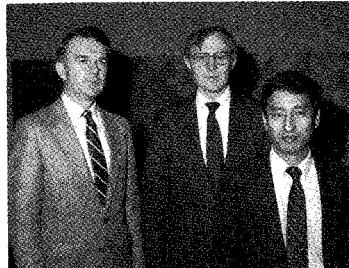
1988	Barry E. Spielman
1987	David N. McQuiddy, Jr.
1986	Reinhard H. Knerr

Honorary Life Members

A. C. Beck	Arthur A. Oliner	Kiyo Tomiyasu
Seymour B. Cohn	Theodore S. Saad	Leo Young



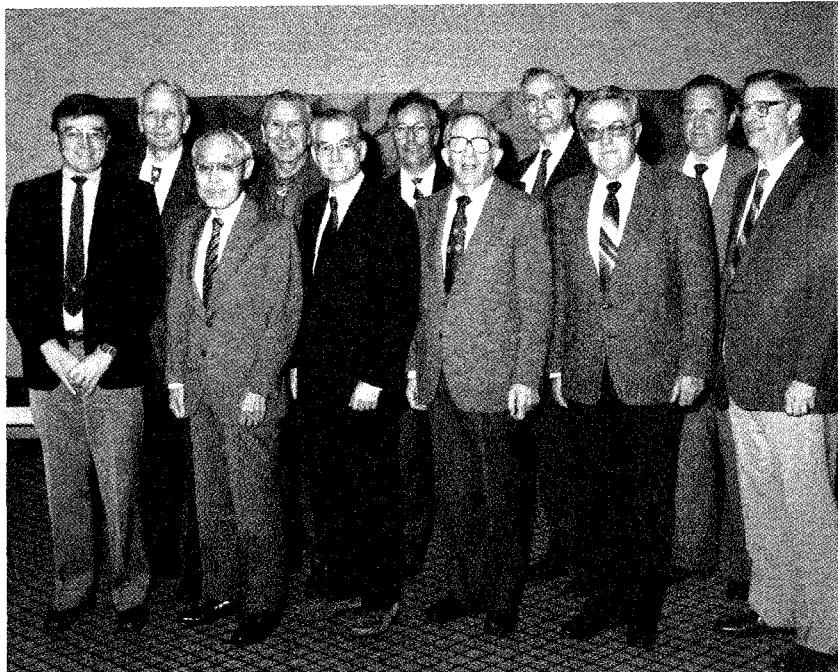
(Left to right): Mario Maury, Gary Lerude, Kris Agarwal, Vladimir Gelnovatch, Reynold Kagiwada, James Crescenzi, Al Estes, Barry Perlman.



(Left to right): Louis Medgyesi-Mitschang, Peter Staeker, Tatsuo Itoh.

1989 IEEE MTT-S Administrative Committee

“THE OLD ELEPHANTS” (PAST PRESIDENTS)



Front Row (l-r): Reinhard Knerr, Kiyo Tomiyasu, Art Oliner, Theodore Saad, Steve Adam, Don Parker.

Back Row: H. George Oltman Jr., Al Clavin, Harlan Howe, Richard Sparks, John Horton.