

## FOREWORD

As chairman of this Momentous Affair, and speaking for all the members of the loyal and dedicated Steering Committee, it gives me great pleasure to welcome you to Palo Alto and the 1975 International Microwave Symposium! We hope you will enjoy your visit here, and find it stimulating, interesting, informative, and lots of fun --renewing old friendships, and catching up on the "state-of-the-art".

First let me give you a Preview of the Technical Program. Our theme, chosen in recognition of the expanding role microwaves are playing in every corner of our lives, is "Microwaves in Service to Man". We proceeded to develop this theme by organizing individual sessions to cover current aspects of Microwaves in the fields of Communication, Transportation, Navigation, Medicine, and Earth Resources. Traditional component areas were added, including Microwave generators, amplifiers, filters, and control devices, as well as the newer technologies of MIC's, computer-aided design, and microwave acoustics, supported by topics in microwave measurements and noise. Each of these areas was assigned to one or more session organizers, who constituted the Technical Program Committee, and who were asked to solicit papers from leading workers in each field. Thus when the TPC met in January to formulate our program, they were not surprised to find an excellent array of over 160 papers submitted, from which only the best could be chosen for presentation here. As a result, we have scheduled 19 complete technical sessions, three in parallel each day of the symposium, stretching for an unprecedented seven hours per day, in order to accommodate as many papers as possible with time for questions and discussion. We trust you will find the time well spent!

Included in the program are over 115 papers, including 30 originating outside the U.S. --Japan, Canada, France, England, Belgium, Netherlands, Norway, Switzerland, Italy and Brazil --giving our '75 Symposium a truly "International" flavor. Authors represent 25 universities, 18 research & development labs, 7 government agencies, and 30 leading microwave companies --a truly impressive array. We have 11 invited papers to round out various technical areas, and one complete invited session, organized by the Tokyo MTT Chapter to present developments in an emerging technology, "Millimeter Wave Communications in Japan". This session #12 will be presented Tuesday afternoon. Please note also two informative Panel Sessions --#7 on Monday evening, in the area of Professional Action, with Dr. Leo Young and his wife discussing "The New Pension Law and How You Might Benefit From It"; and #9 on Tuesday morning, on "Technology Forecasting", organized and conducted by Warren Cooper and Al Clavin.

For a somewhat different banquet style this year, we have organized a Western-style steak barbecue at nearby Adobe Creek Lodge on Tuesday evening. Following dinner, a number of awards will be presented for outstanding contributions to the Microwave field, after which we will relax from the technological atmosphere for a bit of entertainment by Prof. Roy Pritts of the University of Colorado School of Music, performing on the "MOOG synthesizer". Interested? Come, see, and hear!



Technical exhibits this year have been expanded to include over 30 exhibitors, who will be displaying their "newest and best" under a colorful Circus Tent in the would-be parking lot. We hope You will avail yourself of the opportunity to browse through these exhibits at your leisure.

Finally, we have scheduled a full and interesting daytime Social Program, particularly for the spouses of Symposium attendees, but of equal potential interest to vacationing engineers curious about the sights and sounds of the San Francisco Bay Area.

Again, we hope you find the 1975 International Microwave Symposium interesting and informative --please let us know if there is any way we can make your visit here more pleasant and enjoyable! I also want to thank all the members of the Steering Committee and the Technical Program Committee for their untiring efforts in helping to make this '75 Symposium an unqualified success, with an outstanding technical program, smooth-running presentations, an interesting exhibit area, and (hopefully) a balanced budget as well!

E. Wesley Matthews  
Steering Committee Chairman