

The 1995 IEEE MTT-S International Microwave Symposium: "Microwaves on the Move!"

Gene Keith Huddleston, *Senior Member, IEEE*, and Rudolph E. Henning, *Life Fellow, IEEE*

WE ARE DELIGHTED to report the success of the 1995 IEEE International Microwave Symposium (IMS '95), held in Orlando May 14-19. The Orange County Convention Center did their part in hosting 6,482 attendees during Microwave Week, including 1,634 MTT-S attendees and 489 total exhibits. The Orlando Housing Bureau reserved 12,594 hotel room nights, and our 11 hotels reported 9,251 room nights actually used. Gray Line of Orlando provided convenient transportation to and from all events. We expect the financial outcome to reflect the success that was so evident at the meeting.

"*Microwaves on the Move!*" was an aptly chosen theme as suggested by Rudy Henning. Larry Brockman's well-organized technical program was initiated by the wireless workshop on Sunday, attended by 158 persons. It reflected the interest in this one dynamic new application as well as the movement from defense to commercial arenas. Roger J. Rusch's presentation, "Moving Cellular Communications into Space," was very well attended at the Plenary Session on Tuesday and showed these new applications moving into space and all over the Earth. Jim Wiltse and Parveen Wahid organized 19 workshops occurring on Sunday, Monday, and Friday and had a total attendance of 881. They were ably assisted by Issa Batarseh and Kalpathy Sunderam.

We sadly noted the passing of Mario A. Maury, Jr., on March 30, 1995. Mario was Vice President of MTT-S and well known and respected throughout the microwave industry. Along with George Oltman, Mario was instrumental in selecting Orlando as the site of the 1995 symposium. We will miss him.

The five concurrent technical MTT-S sessions Tuesday through Thursday presented 296 papers and occupied the attentions of the 1,634 MTT-S registrants. The Open Forum arranged by Ed Rizzo was highly successful with 104 papers. The 439 technical exhibits and 50 additional spaces for university and historical exhibits drew 3,395 exhibits-only registrants and must have been viewed by the total 6,482 attendees during the week. The proceedings of the symposium were well recorded in Lynn Kirby's Symposium Digest and Plenary Session pamphlet, with dynamite cover graphic art by Steve Otte. The valuable continuity and active involvement of Larry and Margaret Whicker in the preparation of the massive digest publication, signs, ribbons, and early publicity is recognized and greatly appreciated. Local arrangements and signage were superbly provided behind the scenes by Laurie and Dan Dunn working closely with Karen Quill at OCCC and Marlene Canterino at the Clarion Plaza Hotel. Martin Tanenhaus also worked behind the scenes to help ensure the



IMS '95 sign on entrance to Orange County Convention Center, Orlando.



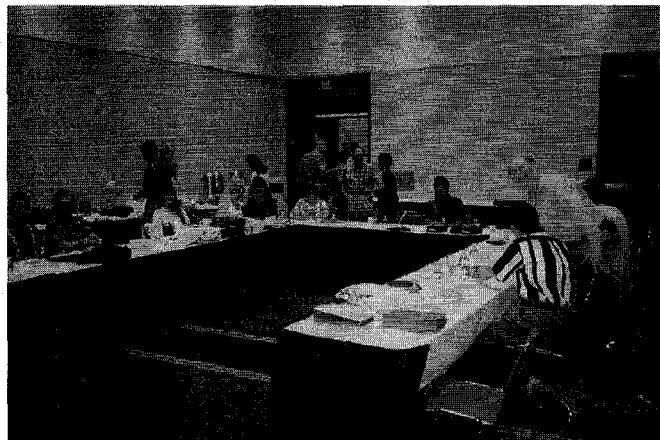
Roger Rusch delivering the plenary session keynote address at IMS '95.

technical quality of all the presentations. Mike Thursby and his team of reviewers ran the Student Papers contest and managed to keep the winners a secret until the announcement at the Awards Banquet. Selected technical proceedings will be recorded in this issue of the *Transactions of the MTT-S* prepared under the leadership of Amir Mortazawi.

Howard Ellowitz and Harlan Howe of Horizon House did an outstanding job of arranging the exhibits and providing new registration services—with much local help from Tim Durham, Mike Thursby, and the student volunteers organized by Mike. Special appreciation also goes to Christine Blanchard at Horizon House for preparation of the advance and final programs as well as other publicity items that we tend to take for granted. Horace Gordon coordinated the 14 university exhibits. Jim Adair and Steve Stitzer arranged, set up, and took down a very successful historical exhibit, without the full



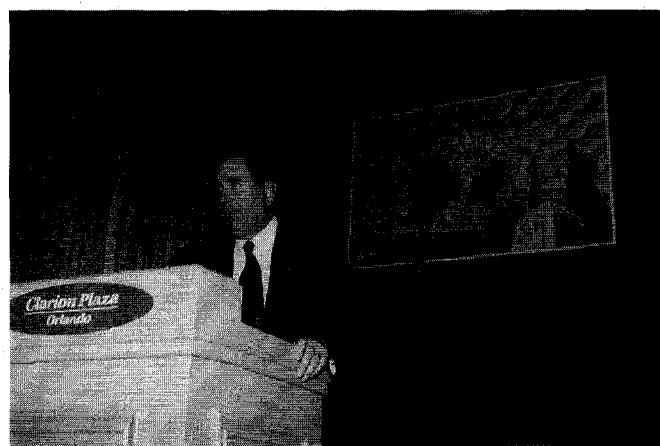
Registration area in Orange County Convention Center for IMS '95.



A scene from the "war room" for IMS '95 on the Saturday before the symposium started.



IMS '95 magic night scene at Church Street Station and Microwave Journal reception.



MTT-S president Eliot Cohen presiding at awards banquet.

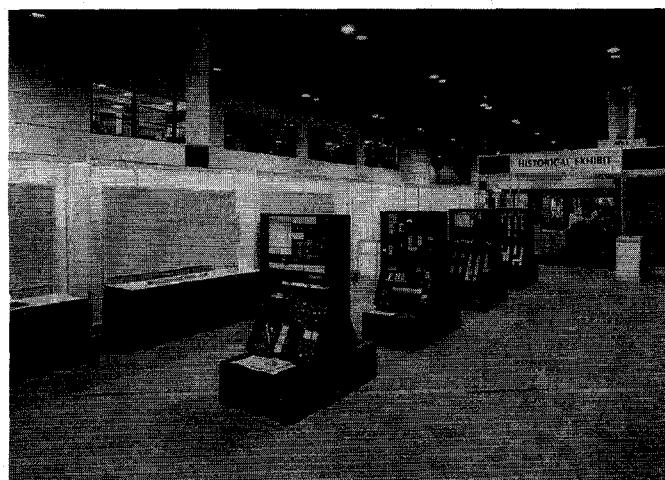


Exhibit area at Orange County Convention Center for IMS '95.

benefit of air conditioning during what was probably a record-setting week for high temperatures and humidity. Everyone expects Florida to be hot in May—and it was!

It was our pleasure to provide for the other conferences held during Microwave Week in conjunction with IMS '95. With Terry Duffield's liaison efforts with Eric Strid and Mahesh Kumar, the MMWMC conference hosted 539 attendees on



Distinguished Educator Award being presented to Pete Rodrigue of Georgia Tech.

Monday and Tuesday, including a well attended reception on Sunday evening at the Clarion Plaza Hotel. Madjid Belkerdid and Don Malocha and their team of volunteers from the Orlando Section hosted the National Telesystems Conference which opened on Wednesday in joint sessions with IMS and hosted 97 attendees, concluding on Friday with a very successful short course on digital receivers attended by approximately 50 persons. Larry Dunleavy provided local liaison with Ed



1995 Pioneer Award being presented to William C. Brown.

Godshalk and Dave Walker for ARFTG which held its meeting on Friday and drew 85 attendees.

Jane Brockman worked with Quinn & Quinn, Inc., and arranged and hosted a very special Magic Night for all attendees on Monday evening in conjunction with the Microwave Journal reception at the Church Street Station entertainment complex in downtown Orlando. We were greeted as we debarked from the buses by straw hats, bandanas, a Florida cougar and alligator, and the strains of a good Blue Grass band! The buses ran until midnight so that everyone could sample the many night spots whose admission was complimentary for all Magic Night attendees. No one took a count, but you "couldn't stir 'em with a stick!"

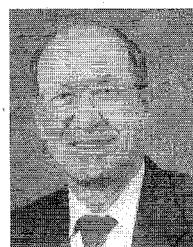
The annual MTT-S Awards Banquet was attended by 425 persons on Wednesday evening at the Clarion Plaza Hotel. Under Rudy Henning's protocol and John Wassel's behind-the-stage support, Eliot Cohen and Dave McQuiddy ran a flawless program complete with large screen live video. They made three graduate fellowship awards and the Best Student Paper award, recognized 10 new IEEE fellows and 17 Certificates of Recognition, and presented 10 major awards of our Society, including the Microwave Career Award to William J. Getsinger. The awards evening was concluded with IEEE President-Elect Wallace S. Read presenting the Morris E. Leeds award to Roger Marks and Dylan Williams. The Awards Banquet was preceded by the traditional and well-attended industry-hosted cocktail reception. Our special appreciation to Rick Akins and Norma Montgomery for making these arrangements and recording this awards event so elegantly in the keepsake booklet and program. We also thank Skip Comstock for the excellent photographic coverage of all our main events.

Our guest program for spouses and guests was also a big success, thanks to Jane Brockman, Chris Rizzo, and Helen Wiltse. These arrangements with Premier Convention Services provided an opportunity to see and experience some of our favorite places on the nearby Space Coast and in Winter Park. Tickets were also available in the registration area for visits to Disney World, Universal Studios, Sea World, and the many other attractions in the Orlando area. The Orlando Magic professional National Basketball Association team did win its first division title by defeating the Chicago Bulls in a 4-3

series, and the defending champion Houston Rockets barely prevailed 4-0 with Orlando giving good account of itself in every close game.

On Friday of Microwave Week, as everyone was winding down, Bob Smallwood led the team to ship copies of digests to the 100 or so persons who had registered but who were not able to be at the symposium. Bob was also very active early in the planning stages as our Publicity Chairman. He was ready for a vacation in January after completing the inputs for the advance and final programs. Last but not least we thank our secretary, Heather Huddleston, for recording and mailing minutes and announcements throughout the year.

On behalf of the Orlando Steering Committee, it has been our pleasure to host this premier microwave event. It has provided highly visible professional exposure for members of the Steering Committee and provided them with the opportunity to see what they can accomplish in a team environment. It has provided publicity for Orlando, Tampa, and Melbourne as the Central Florida centers of MTT activity and interest. We look forward to attending and enjoying Jim Crescenzi's Microwave Week in San Francisco, June 17-21, 1996, and "Bridging the Spectrum!"



Gene Keith Huddleston (S'70-M'74-SM'90) received the B.E.E., M.S.E.E., and Ph.D. degrees in electrical engineering from the Georgia Institute of Technology in 1964, 1970, and 1978, respectively.

He served in the U.S. Marine Corps and held various research and faculty positions at the Georgia Institute of Technology. Since 1984, he has been with Lockheed Martin where he has served as Senior Staff Member and Manager for antennas, radomes, transmitters, receivers, radar systems, and millimeter wave monolithic integrated circuits, culminating as Chief Engineer for the full scale development of the Longbow Hellfire radar guided missile. He is currently the Technical Director for Martin Marietta Millimeter Technologies, Inc., a Lockheed Martin company in Orlando, Florida.

Dr. Huddleston is an active member of IEEE. He was Local Arrangements Chairman for the 1974 AP/MTT Symposium in Atlanta and has served as MTT-S Chapter Chairman and Section Chairman in the Orlando Section. He is currently serving as interim Vice President of MTT-S AdCom.



Rudolph E. Henning (S'42-M'48-SM'59-F'65-F'89) received the B.S.E.E., M.S.E.E., and D.Eng.Sc. degrees in 1943, 1947, and 1954, respectively, from Columbia University in New York.

From 1947 to 1970, he was with Sperry Rand Corporation, including heading the engineering staff of the Sperry Microwave Electronics Company. Since 1970, he has served as Professor, Associate Dean, and Department Chairman at the University of South Florida in Tampa. In the last ten years, he has concentrated on developing a strong university microwave capability, drawing on both computer-aided analytical techniques and up-to-date computer controlled experimental instrumentation, focusing on microwave and millimeter wave integrated circuits and monolithic I.C.'s. Current interests, additionally, center on atmospheric propagation phenomena, including their importance to future global satellite communication systems and their potential to improve climate and weather forecasting.

Dr. Henning is an IEEE Life Fellow. He has served as 1968 MTT-S AdCom Chairman, 1965 MTT-S National Chairman, and 1979 IMS Chairman. He has served as MTT-S Chapter Chairman and Section Chairman for the Florida West Coast Section. He was awarded the 1992 Citation of Honor by the IEEE United States Activities Board, 1984 Centennial Medal, and the 1986 MTT-S/ARFTG Automated Measurements Career Award. He represents IEEE as an ABET Program Evaluator.

1995 IEEE MTT-S INTERNATIONAL MICROWAVE SYMPOSIUM STEERING COMMITTEE

Co-Chairmen	Chief of Protocol	Historical & University	
Rudolph E. Henning	Rudolph E. Henning	Exhibits	Exhibits
Gene K. Huddleston		James E. Adair	Howard I. Ellowitz
		Horace Gordon	Harlan Howe
Technical Program	MMWMC Liaison	Program Publication	ARFTG Liaison
Carl Larry Brockman	Terry Duffield	Harlan Howe	Lawrence P. Dunleavy
Terry Duffield		Christine Blanchard	
Quality Presentations	Open Forum	Conference Services	Site Selection
Martin E. Tanenhaus	Ed Rizzo	Larry R. Whicker	H. George Oltman
		Margaret Whicker	Mario A. Maury Jr.
Special Session & Workshops		OCCC Event Co-ordinator	Clarion Plaza Hotel
James C. Wiltse	Issa Batarseh	Karen Quill	Marlene Canterino
Parveen Wahid	K. B. Sunderam	Kathleen Canning	Vicki Hiatt
Student Papers	Special Transactions	NTC'95 Liaison	NTC'95 TPC Chairman
Michael H. Thursby	Amir Mortazawi	Madjid A. Belkerdid	Donald C. Malocha
Digest Publication	Digest Cover	UCF Students	USF Students
Lynn Kirby	Steve Otte	Zurang Cai	Miriam Calvo
		Javier Gomeztagle	Warren Gaiewski
Publicity	Finance	Sue Huang	William Joel Johnson
Robert W. Smallwood	C. G. Christodoulou	Toni Ivanov	Steven Lardizabal
		Youcheng Liu	John Stanton
Registration	Secretary	Adam Martin	Gina Szklarz
Tim Durham	Heather Huddleston	Marko Rubels	Peter Winson
		Tamara Spreckic	
Guest Program	Local Arrangements	Douglas Visnus	
Jane Brockman	Laurie Dunn	Weishu Zhou	
Chris Rizzo	Daniel S. Dunn	FIT Students	Orlando Visitors Bureau
Helen Wiltse	Rick Akins	Lee Caraway	Judy Lilge
	Keith Huddleston	Thomas Hazlett	Chris Riedel
Awards Banquet	Special Events	Heriberto Delgado	Gwyn Voges
Norma Montgomery	Rick Akins	Verlin Hibner	Laura Hutchinson
		Rockwell Hsu	Patty Canfield
		Widad Rafie	Connie McConnell
			Richard Geiger