

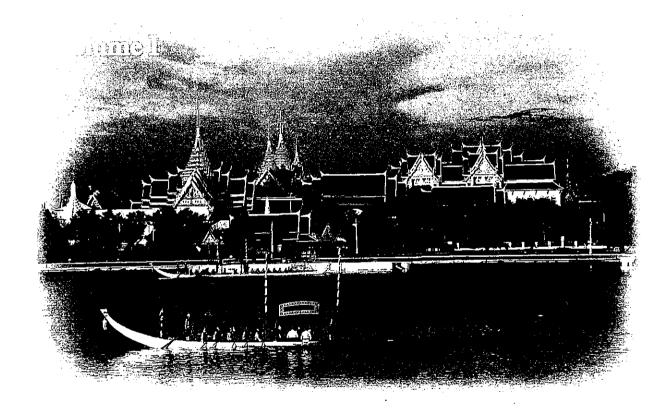
APMC 2007

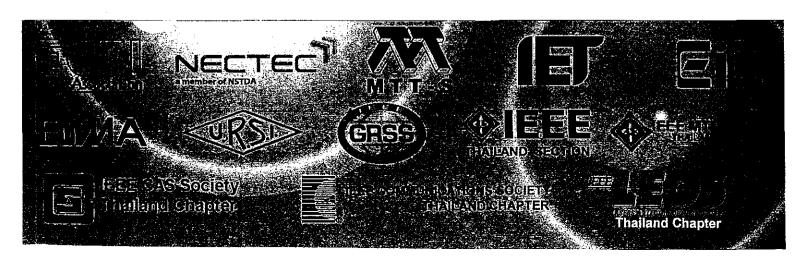
December 11-14, 2007 Bangkok, Thailand

2007 Asia-Pacific Microwave Conference

PROCEEDINGS

"Technology Convergence: Microwave for Life Sciences"





The APMC 2007 has been supported in part by:

Telephone Organization of Thailand (TOT), Communications Authority of Thailand (CAT), Petroleum Authority of Thailand (PTT), National Electronics and Computer Technology Center (NECTEC), National Telecommunications Commission (NTC), Electricity Generating Authority of Thailand (EGAT).

The Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI) Association of Thailand, IEEE Microwave Theory and Techniques Society (MTT-S), The Institution of Engineering and Technology (IET), The Institution of Electronics, Information and Communication Engineers (IEICE), European Microwave Association (EuMA), International Union of Radio Science (URSI), IEEE Geoscience and Remote Sensing Society (GRSS), IEEE Thailand Section, IEEE MTT/AP/ED Thailand Chapter, IEEE CAS Society Thailand Chapter, IEEE Communication Society Thailand Chapter and IEEE LEOS Thailand Chapter.

Copyright and Reprint Permission: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Operations Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331. All rights reserved. Copyright ©2007 by the Institute of Electrical and Electronics Engineers

IEEE Catalog Number:

07TH8926

ISBN:

1-4244-0748-6

Library of Congress:

2006935489



<u>Home</u>

Submission

Webboard

About us

Contact us





MENU

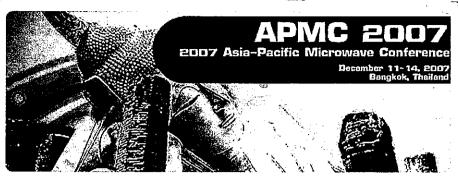
About APMC Call for Papers Message from General Chair Message from TPC Keynote Speakers Organizing Committee Awards Committee International Advisory Committee Technical Program Committee Registration Technical Program Tutorial Exhibition Venue & Transportation Accommodation Banquet Special Session

Instructions

Author Instructions
Author Information
Final Submission

IET Special Issue

Bangkok & Tour



Message from the Technical Program Chairs



Prayoot Akkaraekthalin



Taptim Angkaew



Athikom Roeksabutr

The APMC 2007 Technical Program Chairs

It is our great pleasure to welcome you to the 19th Asia-Pacific Microwave Conference (APMC 2007). The objective of the APMC 2007 is to continue and accelerate the momentum of researching in microwave areas and bring together researchers from Asia-Pacific region as well as other parts of the world to discuss and exchange experiences. The conference theme of Technology Convergence: Microwave for Life Sciences reflects microwave technology usages in our ways of live through consumer products and advanced communications.

For this year conference (APMC2007) a large number of 829 contributed papers were totally submitted. The technical program committee, including 12 sub-group chairs and approximately 200 reviewers around the world, has worked very hard in the process of peer review and paper selection to accept papers in the program due to their high professional quality. Finally, an outstanding program of about 624 contributed papers (407 and 217 papers for oral and poster presentations, respectively) from 28 countries is comprehensively offered at the conference. In addition, there are 15 papers being invited and 8 special papers (for special sessions) being offered. Consequently, the conference program is divided into 9 different track fields, which consist of 79 regular sessions, 2 special sessions, and 3 poster sessions. This conference promises to be an inspiring and insightful experience containing a breadth of information on its theme.

We would like to deeply thank all the committee members and chairs who voluntarily invest their own time selecting papers and arranging such a successful and memorable conference. We also thank all keynote speakers as Prof. Sitthichai Pookaiyaudom, Dr. Peter Staecker, Dr. Shingo Ohmori, and Prof. Raj Mittra, to make the conference interesting and colorful. In addition, special thanks must go to Dr. George Heiter and Dr. Jeffrey Pond for managing the TPMS program supported from IEEE-MTT-S, and also thanks to IET for arranging the special issue on APMC2007. We also express our sincere appreciation to all sponsors for their great support. Of course, sincere thanks must finally go to all authors, without whom the conference would not occur, who make contribution of their papers to the conference.

Thank for your participation in APMC2007 and welcome to Bangkok, Thailand. Please have a great time and use this opportunity to meet more people and make yourself known by exchanging experiences and both technical and non-technical information. We finally hope that the conference will acquaint you with the most up to

date of microwave and related technologies.

Prayoot Akkaraekthalin Tuptim Angkaew Athikom Roeksabutr









































For further information, please contact:
Dr.Chuwong Phongcharoenpanich: General Secretary of APMC 2007
King Mongkut's Institute of Technology Ladkrabang, Bangkok 10520, Thailand
Email: kpchuwon@kmitl.ac.th

14:20-14:40	WE- P1-G5	Practical Consideration of Dual-Feed Switched-Beam Patch Antennas in a Phased Array Design Jukkrit Tagapanij, Monai Krairiksh King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand	177
14:40-15:00	WE- P1-G6	New Radio Source Localization using Array Antennas based on Fingerprinting Techniques in Outdoor Environment Panarat Cherntanomwong, Jun-ichi Takada Tokyo Institute of Technology, Tokyo, Japan Hiroyuki Tsuji, Derek Gray National Institute of Information and Communications Technology, Yokosuka, Japan	181
		Session WE-P1-H	
		Front-End and Antenna technologies	
		Room H 13:00-15:00	
		Wednesday, December 12	
Chairs :		J. Mazierska, Massey University, New Zealand, James Cook University, Australia	
		L. Hu, Suzhou Entry-Exit Inspection and Quarantine Bureau, China	
13:00-13:20	WE- P1-H1	Superconducting Technology: Development of a CDMA Base Station Cryogenic Front End Receiver A. Knack Cryoelectra GmbH, Germany Massey University, Institute of Information Sciences and Technology, New	187
		Zealand Townsville, Australia J. Mazierska	
		Massey University, Institute of Information Sciences and Technology, New Zealand	
		James Cook University, Electrical and Computer Engineering, Australia H. Piel Cryoelectra GmbH, Germany	
13:20-13:40	WE- P1-H2	MIM CRLH Series Mode Zeroth Order Resonant Antenna (ZORA) implemented in LTCC Technology A. Rennings, T. Liebig, P. Waldow IMST GmbH, Germany C. Caloz Ecole Polytechnique, Canada	191
13:40-14:00	WE- P1-H3	Interference Analysis of 2.4 GHz RF Transceivers Using ZigBee Standard in Multiple Integrated Laser Engagement System (MILES) Seung-Joo Yee, Sang-Hyun Chun, Jong-Hyun Kim Kwangwoon University, Seoul, Republic of Korea Chan-Joo Lee Shin Heung Colleage, Seoul, Republic of Korea	195