

APPENDIX VIII
INTERSOCIETAL RELATIONS
APPENDIX VIII.A
Chairman's Report --- Perlman

IEEE MTT-S
Intersocietal Liaison

Barry S. Perlman, Chairman

ADCOM MEETING
January 11-12, 1997

Intersocietal Liaison Committee - 1997

Aerospace Policy	W.C. Brown
Communications and Information Policy (CCIP)	F. Ivanek
Defense & Engineering R&D	D.N. McQuiddy, Jr.
Energy Policy	W.C. Brown
GaAs IC Symposium	P.W. Staecker
Medical Technology Policy	R. Peterson/A. Rosen
International Microwave Power Institute (IMPI)	J. M. Osepchuk
Instrumentation and Measurement Society	S.F. Adam
PACE	J.M. Owens
Steering Committee of Journal of Lightwave Tech.	N.R. Dietrich/P.J. Stabile
Solid State Circuits Council	J. Goel/R. Sudbury
Superconductivity	M. Nisenoff/A. Silver
URSI US National Committee	A.A. Oliner

Committee Activity

International Microwave Power Institute - IMPI (J. Osepchuk)

- World Congress on Microwave Processing held on January 5-9, 1997 at the Hilton, Disney Village, FL. Meeting was sponsored by EPRI with endorsement of 10 societies. Over 180 papers were presented on uses of microwave power (from ceramics to waste remediation).
- Work continues on "athermal" effects of microwaves. There is concern about scientific validity and inadequate peer-review of reports leading to unfounded quotations by opponents of all type of microwave technology relative to safety questions.
- Chairs of various Commissions were elected for 3 year periods. MTT members are prominent in this capacity:
 - Commission A: Dr. M. Kanda (NIST)
 - Commission B: Prof. C. Butler (Clemson)
 - Commission D: Prof. R. Sorrentino (Perugia)
 - Commission K: Prof. J. Lin (Illinois)

(Handwritten note: Commission B: Prof. C. Butler (Clemson))

Committee Activity

Communications & Information Policy (F. Ivaneck)

- Meeting held on Nov. 20, 1996 to discuss draft High-Definition Television Standards. There does not appear to be substantial interest by either broadcasters or public in the rapid introduction of HDTV, but more so in improved resolution via digital TV.
- The greatest beneficiary of the increased spectral efficiency resulting from the bandwidth compression associates with digital TV is the Broadcasting Satellite Service which is growing rapidly in the 12 GHz band.

Committee Activity

Communications and Information Policy (Cont'd.)

- IMPI continues to pressure FCC against use of ISM bands for telecommunications. Concern is possible RFI incidents which could lead to further tightening of ISM radiation specs on ISM devices (at least at 915 MHz, 2450 MHz and 5800 MHz).
- Next Microwave Power Symposium will be held in Ottawa, July 14-16, 1997.

Committee Activity

URSI US National Committee (A. Oliner)

- General Assembly was held in 1996 in Lille, France (Aug 28-Sep 5, 1996). There were 108 technical sessions organized by 10 Commissions, three General Lectures and various Tutorial Lectures. Over 1200 attendees from 42 countries participated.
- URSI overlaps with MTT but with more focus on research. Many MTT members are active in URSI and vice versa.
- The Issac Koga Gold Medal was awarded to Prof. Z. Popovic (Colorado) for "Contributions to the Field of Active Microwave Circuits."
- Chairs of various Commissions were elected for 3 year periods. MTT members are prominent in this capacity:
 - Commission A: Dr. M. Kanda (NIST)
 - Commission B: Prof. C. Butler (Clemson)
 - Commission D: Prof. R. Sorrentino (Perugia)
 - Commission K: Prof. J. Lin (Illinois)

Committee Activity

Instrumentation & Measurement Society (S. Adams)

- Technical Committee reorganization ongoing for the last year and a half. Twenty one subcommittees have been identified.
- ADCOM summer meeting held in Brussels Belgium at the Instrumentation and Measurements Technology Conference, IMTC96. Fall meeting was held in Denver, CO, Nov. 8-9, 1996.
- Workshop planned for May 97 to focus on measurements made on Virtual Systems and Emerging Technology issues.

Committee Activity

Journal of Lightwave Technology (N. Dietrich)

- Steering committee for IEEE/OSA Journal of Lightwave Technology met on Oct. 15, 1996 in Piscataway, NJ.
 - A budget surplus was reported for FY95. The MTT share is \$3120. A very small surplus is projected for FY96 due to significant drop in Journal subscriptions which is projected to result in an operating loss for FY97. Losses, if any, will be absorbed by a carry over of surplus funds.
 - The special issue of MTT Transactions on Optical/Microwave Interactions sponsored by MTT-3 will be distributed 3Q, 1997.
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Date: January 2, 1997

Dr. Barry S. Perlman, Chairman
MTT Intersocietal Liaison Committee

Dear Barry:

I attended the November 20 meeting of the CCIP. Most of the discussion focused on the proposed draft of Position Statement on High-Definition Television Standards.

You must have read or heard about the disagreement between the FCC Advisory Committee on Advanced Television Service (ACATS) and the Computer Industry Coalition on Advanced Television Services (CICATS). It resulted in an official agreement to disagree. The majority of the CCIP leaned in favor of the ACATS position, apparently persuaded that the rapid introduction of HDTV is of utmost importance.

Personally, I see neither the broadcasters nor the public genuinely interested in the rapid introduction of HDTV, but I see real immediate interest in digital TV at somewhat improved resolution over the present analog TV. The decisive advantage consists in substantial bandwidth compression that results in higher spectral efficiency, e.g. 4 or more digital signals in the same r.f. bandwidth as a single analog TV signal.

The greatest beneficiary of this technology is currently the Broadcasting Satellite Service which is rapidly growing in the 12 GHz band. This naturally benefits the microwave industry. I see these developments as an important fringe benefit of the effort directed at digital HDTV which is more a matter of the future.

I am leaving tomorrow for a 3-week series of International Telecommunication Union meetings in Geneva, which prevents me from attending the ADCOM meeting in Denver.

I have made flight and hotel reservations for the January 29 meeting of the CCIP, just in case I am reappointed as MTT-S representative. Please let me know by January 25 when I am scheduled to return from Geneva.

With my best wishes for a Happy New Year!



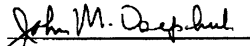
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Liaison Report to MTT-S from IMPI

Since the annual Symposium in July, 1996 IMPI projects include the following:

1. Endorsement of the World Congress on Microwave Processing which is being held on January 5 - 9 at the Hilton at Disney Village in Florida. The meeting is sponsored by EPRI but about ten societies are endorsing the meeting. Over 180 papers on various microwave power applications will be presented, from ceramics to waste remediation.
2. Continued work on a monograph on "athermal" effects of microwaves. Such reports continue to appear in a wide array of publications, including the MTT-S Transactions. For the most part the reports are not well-based on science. The range of explanations ranges from subtle artifacts to semantics. Their wide publication often reflects inadequate or no peer-review. Such publications are of concern because they are quoted by opponents of all type of microwave technology relative to safety questions.
3. Preparation for the next Microwave Power Symposium, to be held in Ottawa, on July 14 - 16, 1997.
4. Continued negotiations with FDA on the FDA Food Code which mandates excessive temperatures for microwave heating (cooking). The FDA has informally acknowledged that the cited numbers are inappropriate but rationalizations for their publication are being sought.
5. IMPI continues to pressure the FCC against proposed rules encouraging use of ISM bands by telecommunications applications. The concern is that eventually there will be considerable RFI incidents which then might be used as a means for further tightening of ISM radiation specs on ISM devices, even in-band, which up to now is a "free radiation" band for ISM, at least at 915 MHz, 2450 MHz and 5800 MHz.


John M. Osepchuk
January 2, 1997



MICROWAVE THEORY AND TECHNIQUES SOCIETY



IEEE

Dr. Stephen F. Adam
1980 President

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December 16, 1996

Dr. Barry S. Perlman, Chairman
MTT Intersocietal Liaison Committee
Department of The Army
US Army Research Laboratory
Fort Monmouth, NJ 07703-5601

Dear Barry:

Thank you for your letter of December 9, 1996 dealing with the Intersocietal Liaison Committee Report. I have enclosed my report of the I&M Society activities.

Most of my report deals with the Technical Committee reorganization which we have undertaken for the last year and a half.

The AdCom meets three times a year. Our summer meeting was in Brussels Belgium, at the site of the Instrumentation and Measurements Technology Conference, IMTC96. That is the I&M Societies yearly large meeting, where mostly paper presentations are made. Very seldom do we have any exhibitions. It was tried many times, and was found that within the U.S. we had very limited success, but overseas it is usually well accepted practice, and it is also well attended.

The last AdCom meeting was held in Denver CO, November 8-9, 1996, which was well attended by the AdCom members, and a variety of subjects and standard Society business was conducted.

In May, there will be a two-three days long Workshop held at Niagara Falls Canada, dealing mostly with measurements made on Virtual Systems, and some other Emerging Technology issues will be discussed.

If your need any more information, please don't hesitate to contact me.

Have Happy Holiday Season

Stephen F. Adam
IEEE MTT Liaison to I&M Society

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TC-4 High Frequency Measurement

TC-5 Connectors

TC-6 Emerging Technologies

TC-7 Signals and Systems in Measurement

TC-8 Automated Instrumentation

TC-9 Sensor Technology

TC-10 Waveform Measurement & Analysis

TC-11 ATLAS Coordination

TC-12 USAB R&D Committee Liaison

TC-13 Wireless & Telecommunications

TC-14 Process Control

TC-15 Virtual Systems

TC-16 Laser & Optical Systems

TC-17 Materials

TC-18 Environmental Measurements

TC-19 Imaging Systems

TC-20 Transportation Systems

TC-21 Self Test & Built-In-Test



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MICROWAVE THEORY AND TECHNIQUES SOCIETY

PLEASE REPLY TO:

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Mr. Barry Perlman
US Army Research Lab
Physical Sciences Directorate
AMSRL-PS-E
Ft. Monmouth, NJ 07703

Dear Barry,

The Steering Committee for the IEEE/OSA Journal of Lightwave Technology met on October 15, 1996 at IEEE Headquarters in Piscataway, NJ.

From that meeting I can report that the Journal experienced an operating budget surplus again in the 1995 operating year. The surplus will be divided among the sponsoring IEEE Societies. The MTT share is \$3120, see attached. (Refunds are based upon the sponsoring Society member subscribers. MTT had 186 regular and 15 student subscribers out of totals of 2162, and 141, respectively.) However, due to a significant drop in both member and non-member Journal subscriptions in both the IEEE and OSA during the 1995/1996 time period, a very small (if any) surplus is projected for 1996, and a modest operating loss is projected for 1997. Losses, when they occur, are absorbed by a carry-over of surplus funds rather than charged against the sponsoring Societies.

The special issue of the MTT Transactions on Optical/Microwave Interactions sponsored by MTT-3 is planned for co-distribution to all JLT subscribers in 3Q, 1997.

In general, relations between JLT and MTT continue on a sound cooperative basis.

Best wishes for the New Year!

Sincerely,

A handwritten signature in cursive script, appearing to read "Norman R. Dietrich".

Norman R. Dietrich,
MTT Representative to
the JLT Steering Committee

ps: Please note new address!



IEEE

JOURNAL OF LIGHTWAVE TECHNOLOGY
A JOINT IEEE/OSA PUBLICATION



PLEASE REPLY TO:

15 October 1996

To: Heidi Zazza-Roth
IEEE Technical Activities
445 Hoes Lane
Piscataway, NJ 08855-1331

SUBJECT: Distribution of 1995 JLT Surplus

Dear Heidi:

The Journal of Lightwave Technology realized at the end of 1995 a reserve of \$160,743 in the Fiber Optics Committee Account, 920. Our reserves exceed the amount permitted by our Letter of Agreement. The excess is \$35,743, and based on December 31, 1995 subscription counts, the excess should be distributed as follows:

Aerospace & Electronic Systems	\$900
Communications	\$9,762
Electron Devices	\$2,250
Instrumentation & Measurement	\$838
Lasers & Electro-Optics	\$18,516
Microwave Theory & Techniques	\$3,120
Ultrasonics, Ferro. & Frequency Control	\$357

Please contact me if there are any questions.

Sincerely Yours,

John N. Lee
Treasurer, IEEE Steering
Committee for JLT

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(202) 767-3100
FAX 767-6370

cc:
Members, JLT Steering Committee
E. Labuda
W. VanderVoort
R. Allerness



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MICROWAVE THEORY AND TECHNIQUES SOCIETY

Dr. Arthur A. Oliner
Tel/Fax: (617) 863-5969PLEASE REPLY TO:
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Lexington, MA 02173 USA

January 1997

REPORT TO THE INTERSOCIETAL LIAISON COMMITTEE

Report on Recent URSI Activities

The International Union of Radio Science (URSI) holds a General Assembly once every three years in a different country. Such a General Assembly was held in 1996 in Lille, France, from August 28 through September 5. During this period, 108 technical sessions were organized by 10 different scientific Commissions, in addition to three General Lectures and various Tutorial Lectures. Over 1200 attendees from 42 different countries participated. It was a major event.

Members of MTT participate primarily in 3 of the 10 Commissions: Commission A (ELECTROMAGNETIC METROLOGY, Electromagnetic measurements and standards), Commission B (FIELDS AND WAVES, Electromagnetic theory and practice, including antennas and waveguides), and Commission D (ELECTRONICS AND PHOTONICS). The technical interests of the MTT-S strongly overlap many of those of URSI, and the principal difference between these societies is that URSI is more strongly research-oriented. Many MTT members served as session chairmen, and/or as invited speakers. In addition, several people active within MTT also serve URSI in important administrative capacities, and another such person received a very important award. The individuals in this latter group of people deserve special mention.

1. The Issac Koga Gold Medal, which is awarded once every three years to a person under 35 years of age, was given to Professor Zoya Popovic of the University of Colorado for "Contributions to the field of active microwave circuits." Professor Popovic, who is Co-Chair of the Technical Program Committee of the 1997 International Microwave Symposium, also received the Microwave Prize in 1993.

2. The International Chairmen of the various Commissions are responsible for the technical programs of their respective Commissions, and are elected for a 3-year period. People active in MTT affairs are also prominent in this capacity.

(a) Commission A: The incoming Chairman is Dr. Motohisa Kanda of NIST, who is also Vice Chair/Special Sessions of the 1997 IMS.

(b) Commission B: The incoming Chairman is Prof. Chalmers Butler of Clemson University, who has been a long-time member of MTT but not active in its administration.

(c) Commission D: The outgoing Chairman is Prof. Tatsuo Itoh of UCLA, who is an Honorary Life Member of MTT, former MTT President, former Editor of the Microwave and Guided Wave Letters, etc. The incoming Chairman is Prof. Roberto Sorrentino of the University of Perugia, who is the current Editor of the MGWL.

(d) Commission K (ELECTROMAGNETICS IN BIOLOGY AND MEDICINE): Although MTT members are less active in this Commission, it is noteworthy that the incoming Chairman is Prof. J. C. Lin of the University of Illinois at Chicago, who has been active technically in MTT.

As we see, MTT members have won a clean sweep in this important category for the next three-year period.

Arthur A. Oliner

Arthur A. Oliner
MTT Representative to the
URSI US National Committee