

**IMPI MEETING REGISTRATION FORM**

Name \_\_\_\_\_

Affiliation \_\_\_\_\_

Street Address \_\_\_\_\_

City \_\_\_\_\_ State or Province \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_

I will be accompanied by my spouse \_\_\_\_\_ First name \_\_\_\_\_

and children \_\_\_\_\_ Name \_\_\_\_\_ Age \_\_\_\_\_

\_\_\_\_\_ Name \_\_\_\_\_ Age \_\_\_\_\_

Please register me for the following:

- IMPI Short Course (\$125 members; \$150 non-members) Includes luncheon. \$ \_\_\_\_\_
- IMPI-CAS Short Course (\$125 members; \$150 non-members) Includes luncheon. \$ \_\_\_\_\_
- IMPI Annual Symposium (\$125 members; \$150 non-members) Includes luncheon. \$ \_\_\_\_\_
- Special package of Short Course and Symposium (\$225 members; \$275 non-members). \$ \_\_\_\_\_

**Note:** If you are a non-member and register as such, you can become an IMPI member and pay no dues for the remainder of 1981 by checking the box below. You will receive all services for the remainder of the year.

- Please enroll me as a member of IMPI.
- Dow Boat Cruise and Dinner, Tuesday, June 9 \$ FREE
- Lunch in the Exhibit Hall, Wednesday, June 10 (\$12.00 per person) \$ \_\_\_\_\_
- IMPI Banquet, Wednesday, June 10 (\$27.50 per person) \$ \_\_\_\_\_

**Add late fee of \$25 to registration if sent in after May 7, 1981.**  
Check must accompany registration form. Make check out to IMPI and return with registration form to: International Microwave Power Institute, 211 East 43rd St., Suite 1601, New York, New York 10017

**HOTEL RESERVATION FORM**

**Royal York Hotel. International Microwave Power Institute  
June 9 - 12, 1981**

Please Reserve:  1 Single \$60  1 Twin \$74

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_ Zip Code \_\_\_\_\_

Company \_\_\_\_\_ (Phone) \_\_\_\_\_

Arrival (Date) \_\_\_\_\_ (Time) \_\_\_\_\_

Departure (Date) \_\_\_\_\_

Sharing room with \_\_\_\_\_

Reservations are held until 6 pm unless hotel is otherwise advised. RESERVATIONS MUST BE RECEIVED BY MAY 7, 1981. After that date room availability may be limited.

RETURN THIS FORM DIRECTLY TO HOTEL.  
DO NOT SEND IT TO IMPI. Reservation Manager The Royal York 100 Front Street West Toronto, Ontario M5E 1E3 Canada

**5 Good Reasons Why  
You Should Attend IMPI's  
Annual Symposium in Toronto**

**1.** The program offers outstanding short courses, general sessions and submitted papers, integrated into four days that cover microwave ovens and cooking, nutrition, industrial applications of microwave and RF heating, engineering and scientific aspects, and new biomedical applications to such fields as hyperthermia.

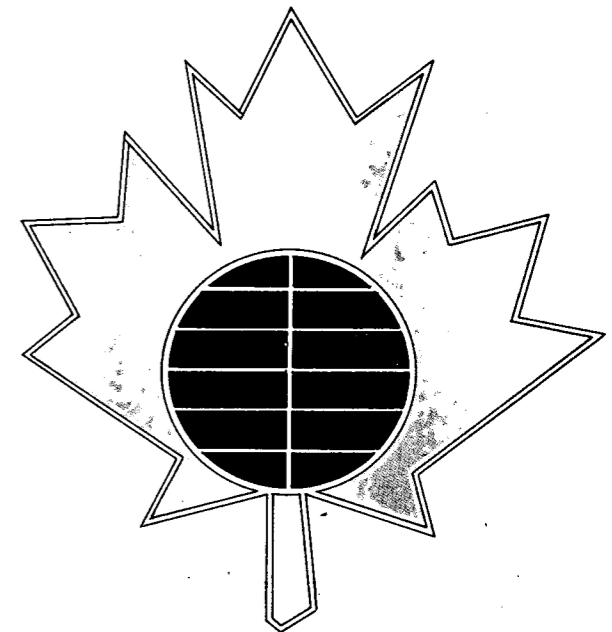
**2.** The outstanding social program includes a President's Welcome Reception, an evening boat trip with dinner and dancing compliments of Dow Chemical, and the traditional Gala IMPI Banquet.

**3.** U.S. residents will find the American dollar worth \$1.18 in Canada, and there is no hotel tax in Toronto. Thus money goes farther in this time of inflation for U.S. attendees.

**4.** The bill signed by President Carter in December revokes the restrictions that have existed on tax deduction for U.S. residents traveling to Canada to conventions. Now Americans can attend the symposium in Toronto and enjoy the same tax deduction privileges they do in attending conventions in the United States.

**5.** Toronto is an exciting, sophisticated, and international city. Easy to get to, it lies within 500 miles of 60% of the population of North America. Many airlines have special excursion fares and IMPI is arranging special group fares to save you travel money.

211 East 43rd Street, Suite 1601  
New York, New York 10017



**16th Annual  
International  
Microwave Power Symposium  
and Short Courses  
June 9-12, 1981**

**DEADLINE EXTENDED  
REGISTER NOW!**

**Royal York Hotel  
Toronto, Ontario, Canada**

**IMPI SHORT COURSE  
MEASUREMENTS FOR MICROWAVE SAFETY  
AND COMPLIANCE**

**Tuesday, June 9, 1981, 9 am to 4 pm**

IMPI's one-day short course addresses the theory, hardware, and techniques of making measurements for microwave safety and compliance. Industrial and government experts from the United States and Canada will discuss such topics as the difference between precision and accuracy, sampling techniques, and how to determine the uncertainty of your measurements. You will learn what modern field survey instruments are available today, how they work, what they measure, and what they don't. Experts will show you the procedures needed to demonstrate compliance (a) with radiation exposure standards in both the general and occupational environments, (b) with product emission standards such as those dealing with microwave ovens and diathermy equipment, and (c) with electromagnetic interference standards such as those of the FCC. The problem of measuring radio frequency fields around video display terminals and the use of inexpensive microwave oven probes will also be covered. The short course will close with a general review of the measurement techniques used to determine biological effects of radiofrequency and microwave radiation.

**MEETING AT A GLANCE**

**Sunday, June 7, 1981**

8 am to 4 pm IMPI-CAS Board Meeting  
12 pm to 6 pm Industrial Section Steering Committee Meeting  
12 pm to 6 pm Biomedical Section Committee Meeting  
4 pm to 10 pm IMPI Executive Directorate Meeting

**Monday, June 8, 1981**

8:30 am to 5 pm IMPI Board Meeting  
6:30 pm to 8 pm President's Welcome Reception

**Tuesday, June 9, 1981**

8 am to 5 pm Registration  
9 am to 4 pm IMPI Short Course  
9 am to 4 pm IMPI-CAS Short Course  
12:15 pm to 4 pm Exhibits Open  
12:15 pm to 1:30 pm Short Course Lunch  
4:30 pm to 5:30 pm IMPI-CAS Annual Business Meeting  
4:30 pm to 5:30 pm Industrial Section Business Meeting  
4:30 pm to 5:30 pm Biomedical Section Business Meeting  
6:30 pm to 10 pm Boat Cruise and Dinner—Courtesy of Dow Chemical

**Wednesday, June 10, 1981**

7:30 am to 5 pm Registration  
8:15 am to 12:30 pm Opening Ceremony and Plenary Session  
10:30 am to 7 pm Exhibits Open  
12:30 pm to 2 pm Lunch in the Exhibit Hall  
2 pm to 5:30 pm Simultaneous Paper Sessions  
2 pm to 7 pm Public Day in Exhibit Hall  
7 pm to 8 pm Cocktail Reception  
8 pm to 10 pm IMPI Banquet

**Thursday, June 11, 1981**

8 am to 4 pm Registration  
8:30 am to 4 pm Simultaneous Paper Sessions  
10 am to 4 pm Exhibits Open  
12 pm to 2 pm COMAR Lunch  
4 pm to 5:30 pm IMPI Business Meeting  
5:30 pm to 6:30 pm IMPI Board Meeting  
Evening Free for Individual Activities

**Friday, June 12, 1981**

8:30 am to 12:30 pm Simultaneous Paper Sessions  
12:30 pm Meeting Adjourns

**IMPI-CAS SHORT COURSE  
Tuesday, June 9, 1981 9 am to 4 pm**

9 am Welcome  
9:05 am A Global Perspective of the Microwave Cooking Market  
Consumer: Harry A. Rubbright, Anchor Hocking Plastic Products Division, St. Paul, MN  
Foodservice: Oscar P. Snyder, Department of Food Science and Nutrition, University of Minnesota, St Paul, MN  
Commercial/Industrial: Dick Edgar, Industrial Microwave Group, Raytheon Company, Waltham, MA  
10:30 am Coffee Break  
11 am What's Cooking in Microwave Ovens Around the World  
Sylvia Schur, Creative Food Service, New York, NY  
11:30 am What's Beyond Talking Microwave Ovens  
Robert F. Bowen, New Product Center, Raytheon Company, Waltham, MA  
12 pm Lunch  
Master of Cermonies: Verle Blaha, Litton Microwave Cooking Products, Minneapolis, MN  
Unicorns, Atlantis and Microwave Pizza . . . Searching for the Dream  
Robert F. Schiffmann, R. F. Schiffmann Associates, New York, NY  
1:30 pm Who Sold You That?  
Oven Manufacturers: Pat Quarles, Swanson Microwave Information Center, Campbell Soup Company, Camden, NJ  
Retail Sales: John Nutbeem, Hotpoint Appliances, Hamilton, Ontario  
Educators: Barb Holland, Freelance Home Economist, Toronto, Ontario  
Service Representatives: George Monroe, Simpsons-Sears, Ltd., Rexdale, Ontario  
Moderator: Irene Gresick, *Wave Lengths* magazine, Yorba Linda, CA  
2:30 pm Coffee in the Exhibit Hall  
3 pm Who Sold You That?  
CAS Short Course Participants' Evaluation of Communications Activities Described in Earlier Session (1:30 to 2:30)  
3:30 pm How Others View the Microwave Cooking Industry  
U.S. Media: Zoe Coulson, Good Housekeeping Institute, New York, NY Canadian Media: Monda Rosenberg, Food Editor, *Chatelaine* magazine Toronto, Ontario  
Results of IMPI-CAS Survey of Food and Equipment  
Editors: Marthajear White, Consumer Products Division, Norelco, Stamford, CT  
4:15 pm Close  
4:30 pm IMPI-CAS Annual Business Meeting

**IMPI 16th ANNUAL PROGRAM SYMPOSIUM**

**Wednesday, June 10, 1981**

7:30 am - 5 pm Registration  
8:15 am - 9 am GALA OPENING CEREMONY  
Welcome - R. Bruce Ireland  
President's Remarks - Robert F. Schiffmann  
9 am PLENARY SESSION  
Walter Wyslouzil  
Medical Applications and Biological Effects of Electromagnetic Energy  
W.A.G. Voss, University of Alberta, Edmonton  
Some Newsworthy Activities in the Industrial and Scientific Uses and Instrumentation of Microwaves  
J.R. White, Microdry Corp., Durbin, CA  
Coffee Break in Exhibit Area  
10:30 am - 11 am Program in Solar Power Satellite Development  
11 am - 12:30 pm Peter E. Glaser, Arthur D. Little, Cambridge, MA  
Three Microwave Markets: Domestic Ovens, Commercial Ovens, and Accessories  
Robert F. Bowen, Raytheon Co., Boston, MA  
12:30 pm - 2 pm Lunch in the Exhibit Hall  
2 pm - 3:30 pm Simultaneous Sessions  
1-A. Industrial Applications I  
1-B. RF and Microwave Hyperthermia I  
1-C. The Consumer Response to Microwaves  
3:30 pm - 4 pm Coffee in the Exhibit Hall  
4 pm - 5:30 pm Simultaneous Sessions  
1-A. Industrial Applications II  
1-B. RF and Microwave Hyperthermia II  
1-C. Food—Applications in Microwave  
7 pm - 8 pm Cocktail Reception  
8 pm - 10 pm Gala IMPI Banquet  
**Thursday, June 11, 1981**  
8 am - 4 pm Registration  
8:30 am - 10 am Simultaneous Sessions  
3-A. Industrial Applications III  
3-B. Biological Effects of RF and Microwaves I  
3-C. Containers and Utensils—Behavior of Microwave Cookware  
10 am -10:30 am Coffee in the Exhibit Hall  
10:30 am - 12 pm Simultaneous Sessions  
4-A. Microwave Power Generation  
4-B. Biological Effects of RF and Microwaves II  
4-C. Advance in Microwave Equipment  
12 pm - 2 pm Lunch  
2 pm - 3:30 pm COMAR Lunch  
5-A. Microwave Ovens

5-B. RF and Microwave Hyperthermia III  
5-C. Food—Basic Properties in Microwave  
3:30 pm - 4 pm Coffee in the Exhibit Hall  
4 pm - 5:30 pm IMPI Annual Business Meeting

**Friday, June 12, 1981**

8:30 am - 10 am Simultaneous Sessions  
6-A. Microwave Instrumentation  
6-B. RF and Microwave Safety  
10 am - 10:30 am Coffee break  
10:30 am - 12:30 pm Simultaneous Sessions  
7-A. Dielectric Measurements  
7-B. Microwave Survey Meters  
12:30 pm Adjourn

Sessions A are Industrial and Scientific  
Sessions B are Biomedical  
Sessions C are Cooking Appliance Section

**IMPI Technical Program Committee**

S. Kashyap, Chairman, North America  
W. Schilz, Chairman, Europe

R.G. Bosisio Dixie Trout S.S. Stuchly  
H. Takhashi M. Stuchly W. Wyslouzil

**IMPI-CAS Technical Program**

Dixie Trout, Chairman Zoe Coulson Gay Starrak  
Gertrude Armbruster Alice Hawks Angela J. Williams  
Charles Buggler Betty Lewis Pam Wirtz

**IMPI Short Course**

Howard Clark

**IMPI-CAS Short Course**

Barbara Holland  
Sara Jean Thoms

**SOCIAL PROGRAM**

Toronto offers a wide variety of activities to keep attendees busy when not in sessions. Be sure not to miss these opportunities to meet other attendees during the day and in the evening.

**President's Welcome Reception.** Monday, June 9. 6:30 - 8:30 pm. Here's a chance to meet old friends and new ones on the first night of the meeting. Drop in for a drink, and then go on to dinner with friends.

**Dow Boat Cruise and Dinner.** Tuesday, June 9. 6:30 - 10 pm. Board buses at the Royal York to take you to the Trillium at dockside. Built in 1910, the Trillium is a paddlewheeler that hosted such dignitaries as the Prince of Wales in the early 1900s. Enjoy dinner and music as this delightful paddlewheeler plies the Harbor waters of Toronto.

**Lunch in the Exhibit Hall.** Wednesday, June 10. 12:30 - 2 pm. Take this opportunity to join other attendees for lunch in the exhibit hall. Discuss the contents of the papers with others during lunch and then wander around the exhibits to learn about new products.

**IMPI Banquet and Cocktail Reception.** Wednesday, June 10. 7 pm - 10 pm. Leave the hotel for a quick walk to the Sheraton Hotel where the traditional IMPI Banquet will give you a chance to relax with fellow attendees and enjoy the entertainment provided by Master of Ceremonies Bob Schiffmann and Dave Broadfoot, well-known Canadian comedian.

IMPI SHORT COURSE ON  
MEASUREMENTS FOR MICROWAVE SAFETY AND COMPLIANCE

Tuesday, June 9, 1981

8:00 am - 8:30 am	REGISTRATION
8:30 am - 9:00 am	INTRODUCTION AND OVERVIEW - Biological Perspectives on Standards Setting Dr. Donald Justesen, U.S. Veterans Administration
9:00 am - 9:25 am	FUNDAMENTALS OF ELECTROMAGNETIC FIELD THEORY Dr. Anthony Muc, Ontario Ministry of Labour, Canada
	HARDWARE
9:25 am - 9:50 am	• How Instruments Respond to Electromagnetic Fields Mr. Ezra Larsen, U.S. National Bureau of Standards
9:50 am - 10:15 am	• Review of Commercially Available Instruments Mr. Howard Bassen, U.S. Bureau of Radiological Health
10:15 am - 10:35 am	Refreshment Break
10:35 am - 11:00 am	• Demonstrating Traceability to National Standards Mr. Ezra Larsen, U.S. National Bureau of Standards
	APPLICATIONS - How to Demonstrate Compliance with:
11:00 am - 11:30 am	• Environmental Exposure Standards Mr. Ron Peterson, Bell Laboratories
11:30 am - 12:00 pm	• Occupational Exposure Regulations To be Announced, U.S. National Institute for Occupational Safety and Health
12:00 pm - 1:30 pm	Lunch
1:30 pm - 2:00 pm	• Electromagnetic Interference Standards and Regulations Mr. Michel Mardiguian, Don White Consultants, Inc
2:00 pm - 2:30 pm	• Product Emission Regulations Mr. Howard Bassen, U.S. Bureau of Radiological Health
2:30 pm - 2:50 pm	Refreshment Break
2:50 pm - 3:20 pm	SPECIAL CASE - Measurements near Video Display Terminals Mr. Mike Repacholi and Dr. Walter Zuk, Health and Welfare, Canada
3:20 pm - 4:00 pm	PANEL DISCUSSION