

# IEEE NEWSLETTER KITCHENER-WATERLOO SECTION

April 1992

## Section Officers

Chair: Deborah Stacey, (519)824-4120 ext. 2634  
Vice Chair: Chandra Kudsia, (519)622-2300  
Secretary: Rosalind Hood-Morris, (519)742-1751  
Treasurer: John Mowbray, (519)884-1710 ext. 371

## Chapter Chairs

Acoustics, Speech and Signal Processing: George Freeman, (519)885-1211 ext. 2876  
Computers: Wayne Loucks, (519)885-1211 ext. 3337  
Antennas and Prop., Microwave Theory and Tech.: Len Chow, (519)885-1211 ext. 2822  
Circuits and Systems, Electron Devices: C.R. Selvakumar, (519)885-1211 ext. 3978

## Committee Chairs

Education: Ed Spike, (519)885-1211 ext. 3716  
Program Chair: Ted Swart, (519)824-4120 ext. 2250  
Membership and Transfers: Keith Campbell, (519)884-1710 ext. 281  
Publications (News Letter): Tom East, (519)746-7809  
Awards: Rosalind Hood-Morris, (519)742-1751  
Nominations: Herb Ratz (519)885-1211 ext. 2805

## Student Activities Chairs

Conestoga College: Tim Williams  
Univ. Of Waterloo  
Stream A: Li Deng, (519)885-1211 ext. 6041  
Stream B: George Freeman, (519)885-1211 ext. 2876

## Address

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## Contents

### Meetings

May 27: Annual General Meeting  
1992:  
Living and Working in  
Japan page 2

### Feature Articles

Slate Proposed by the  
Nominating Committee for  
1992-1993 page 2  
New Chairperson for the  
Kitchener-Waterloo Section page 3  
Maintaining our  
Competitiveness in a  
Changing World page 3  
Student Papers Night 1992 page 3  
Conferences in Canada page 3  
IEEE Standards page 3  
Toll-free Toxic Information page 3

The Kitchener-Waterloo Section of the Institute of Electrical and Electronics Engineers serves all members whose mailing address is in Bruce, Grey, Perth, Waterloo or Wellington Counties.



**ANNUAL GENERAL MEETING  
KITCHENER-WATERLOO SECTION  
IEEE**

Date: Wednesday, May 27th, 1992

Time: 7:30 p.m.

Place: University of Waterloo, Davis Centre,  
Room 1302

Spouses are invited to attend the short business meeting and the presentation afterwards.

Dine with the speaker if you wish, 6:00 p.m. at West Side Mario's, University Avenue West, Waterloo.

**Annual General Meeting - K-W Section, IEEE.**

The Nominating Committee (chairman Herb Rats) has proposed a slate of names to serve on the K-W Section's Executive Committee from July 1, 1992 to June 30, 1993.

The names of the individuals are listed below. Members may nominate other members as alternative candidates under the following conditions:

For each nominee

- a) obtain agreement in writing to stand,
- b) obtain supporting signatures of two percent of the voting members,
- c) submit these documents to the Secretary, Rosalind Hood-Morris, 266 Whitmore Drive, Waterloo by May 24th 1992. If alternate nominations are received, elections will be held at the Annual General Meeting.

**Living And Working In Japan  
with Trevor Garrett**

Trevor Garrett is a fourth year coop student in the Department of Systems Design in the University of Waterloo. He has served work terms in industry in Toronto, Calgary and Japan. As an exchange student, he attended Tottori University in Japan, and has worked for urban planning firms in Tokyo, and in Kitakyushu where he lived in a Japanese household. Two weeks of his time in Japan was a reward for winning an essay contest. He will describe his experiences and show us a video of them.

**SLATE PROPOSED BY THE  
NOMINATING COMMITTEE FOR  
1992-1993**

Section Officers:

Chair: Chandra Kudsia, ComDev  
Vice Chair: Raafat Mansour, ComDev

Secretary: Rosalind Hood-Morris,  
Waterloo Board of Education

Treasurer: John Mowbray, NCR

Chapter Chairs:

Antennas and Propagation,  
Microwave Theory  
and Techniques: Len Chow, U. Waterloo

Circuits and Systems,  
Electron Devices: C.R. Selvakumar, U. Waterloo

Computers: Manh Le, NCR

Committee Chairs:

Awards: Rosalind Hood-Morris, WBE

Education: Tim Williams,  
Conestoga College

Membership and Transfers: Keith Campbell, NCR

Nominations: R.H. MacPhie,  
U. Waterloo

Program Chair: Sheshakamel Jayaram,  
U. Waterloo

Committee: Arvind Vyas, Ted Swart,  
U. Guelph

Publications (Newsletter): Tom East, TEES

Publicity: TBA

Student Activities Chairs:

Conestoga College: Tim Williams

University of Waterloo:

Stream A: Daniel Miller

Stream B: George Freeman

**NEW CHAIRPERSON FOR THE  
KITCHENER-WATERLOO SECTION**

Deborah Stacey has resigned as Chair of the section, citing pressure of other commitments. At its last meeting, the executive passed a motion of appreciation for her work for the section.

Chandra Kudsia of ComDev takes the position of Chair for the remainder of the term, moving up from Vice-Chair. He has been nominated as Chair for the new section year (see AGM notice).



## **MAINTAINING OUR COMPETITIVENESS IN A CHANGING WORLD**

by Rosalind Hood-Morris

In a Video Lecture presented by this Section on April 11th, Dr. Lester Thurow, Dean of Economics at MIT summarized many of the ideas that are gaining momentum in North America regarding changes we have to make as a society.

In the last 50 years of cold war, the United States dominated as world leader in economic and military strength with the Warsaw Pact countries as the enemy. In the next 50 years of economic war, the US will be the underdog to Europe and Japan.

Dr. Thurow talked about the football game where all the world powers play by the same rules except the US who were effectively shutting themselves out. The Japanese concentrate on taking a product and perfecting the process rather than putting money into product development. Intel are building a new microchip plant in Japan even though costs are higher, because of the skilled workforce available.

There are four ways that a country can acquire wealth: it could be inherited, or it could be gained by selling natural resources, by cheaper production costs or by a more highly skilled workforce.

Thurow says that to be competitive we should concentrate on the skilled workforce by changing the educational systems of the nation. Business must get involved to help get the right workforce, and the lower levels must be upgraded to meet the analytical and technical skills required by the new jobs.

## **STUDENT PAPERS NIGHT 1992**

by John Mowbray

A good crowd of about 50 showed up at Golf's Steak House on March 23rd for an excellent dinner, and to participate in the Student Papers Contest.

Conestoga College teams presented two papers:

First prize went to Steve Letherland and John Decroos for "A Supervisory Telephone System".

A two line telephone supervisor was described: it will provide normal in and out connections along with automated routing between lines and phases, as well as selective connection to other services and facilities such as a recording or a modem.

Second prize was won by Mark Stafford for "An Active Microstrip Patch Antenna with Injection Lock".

This patch antenna design has a semiconductor feed that is controlled to maintain efficiency.

There were no entries from the University of Waterloo.

The Kitchener-Waterloo Section gratefully acknowledges a financial contribution to the event from Raytheon Canada Limited, and the contribution of the following companies by providing the judges: ComDev, Litton Systems, Sutherland-Shultz and NCR.

## **CONFERENCES IN CANADA**

- May 5-8 IEEE Pacific Test Workshop - Whistler, British Columbia
- June 6-10 Workshop on Computer-Aided Software Engineering - Montreal
- Sept. 27-Oct. 1 ISSLS International Symposium on Subscriber Loops and Services
- Sept. 30-Oct. 2 IEEE International Workshop on Computer Aided Modelling and Design of Communications Links and Networks
- Oct. 3-8 IEEE Industry Application Society Annual Meeting
- Oct. 4-6 IEEE-SP International Symposium on Time-Frequency and Time-Scale Analysis.

## **IEEE STANDARDS**

The complete set of IEEE Standards is available on four compact disk (CD) ROMS. Contact Information Handling Services, Englewood, Colorado 1-800-241-7824 for more details.

For those who wish to buy individual standards from IEEE Canada (where stocks are kept), please note that the 30% member discount only applies to the first copy of each standard ordered, for its lifetime. Those companies who enjoy GST exemption must submit an official copy of the Exemption Statement with each order. Contact IEEE Canada at 416-881-1930, fax 416-881-2057.

## **TOLL-FREE TOXIC INFORMATION**

Access to the International Register of Potentially Toxic Chemicals (IRPTC) database is now available at 1-800-267-3364. Access to the database is currently free.

