

REPORT TO THE 2001 REGION 10 COMMITTEE MEETING

MARCH 2001

DR MICHAEL E. EVANS

SECTION CHAIRMAN

SOUTH AUSTRALIA SECTION

PART A: SECTION SUMMARY

A-1 EXECUTIVE SUMMARY

The South Australia Section has continued to be active in organising and promoting technical activities for the benefit of its members. Highlights of 2001 included the windup of the Asia Pacific Microwave Conference (Dec 2000), and preparations for IDC 2002. The IEEE South Australia Student Awards program completed its tenth year, and a number of distinguished speakers participated in the technical activities program.

The Section remains sound financially and continues to expand its range of technical activity.

A-2 FINANCIAL REPORT

As at 1 January, 2002, the Section/Chapter finances were dispersed as follows:

Cash Assets

SA Section	
Cheque Account:	\$54,259.92
Term Deposits:	\$60,000.00
Signal Processing and Communications Chapter	
Cheque Account:	\$5,703.42
Term Deposits:	\$5,000.00
Artificial Neural Networks Regional Interest Group	
Cheque Account:	\$6,632.48
Term Deposits:	\$5,000.00
Antennas and Propagation/Microwave Theory and Techniques Chapter	
Cheque Account:	\$2,697.06
Term Deposits:	\$5,000.00
Control, Aerospace and Electronics Chapter	
Cheque Account:	\$655.29
Term Deposits:	\$5,000.00
Computer Chapter	
Cheque Account:	\$1,555.84
Term Deposits:	\$5,000.00
U of SA Student Branch	
Cheque Account	\$5,474.67

Loans, Advances, Borrowings

IDC 2002 Conference	\$5,000.00
ANZIIS \$5k held in trust	(\$5,000.00)
Accounts Payable	(\$300.00)

TOTAL SOURCES OF FUNDS **\$161,678.68**

A-3 SECTION COMMITTEE OFFICERS FOR 2000

Chairman: Dr M. E. Evans

Vice Chairman: Dr M. Kraetzel

Secretary: Dr T. Ferris

Treasurer: Dr A. Piotrowski

Chair SP/Comms Chapter: Dr P. Shoubridge

Chair AP/MTT Chapter: Dr A. Kulesa

Chair CAES Chapter: Dr M. Pszczel

Chair Computer Chapter: Dr T. Nguyen

Chair UofSA Student Branch: Mr Zhen-Dan BAO

School of Electrical and Information Engineering

The University of South Australia

Mawson Lakes, South Australia 5095

Chair UofA Branch: Mr Leonard Hall

Electrical and Electronic Engineering

The University of Adelaide 5005, Australia

PART B: ORGANISATIONAL ACTIVITIES

B-1 MEMBERSHIP DEVELOPMENT PROGRAMS

Membership has declined in the student and affiliate categories. Consideration has been given to establishing a GOLD Program and it is hope that this can be established in 2002.

Membership at December 2000		Membership at December 2001	
Members	394	Members	393
Affiliates	60	Affiliates	50
Students	92	Students	65
TOTAL	546	TOTAL	508

B-2 PROFESSIONAL AND CONTINUING EDUCATION ACTIVITIES

The Section shares the responsibility for a Joint Technical Program with the Institution of Engineers Australia (IEAust), the IREE Society of IEAust, and the Institution of Electrical Engineers. The program consists of monthly meetings and visits on a range of topics. The 2002 program comprises 12 activities. Other activities were organised primarily by the chapters including Distinguished Lecturer visits and short courses.

B-3 RECOGNISED EDUCATION PROGRAMS

The three South Australian universities all offer Bachelor degrees in Electrical and Electronic Engineering and related fields. These are accredited by the Institution of Engineers Australia and are thereby accorded status by the IEEE.

B-4 STUDENT ACTIVITIES

The Student Branch at the University of Adelaide continues to be active. The Branch is affiliated with the University's Clubs Association and as well as holding technical and social meetings, has conducted short courses on LaTeX and Matlab.

The Student Branch at the University of South Australia continues to operate a Centre of Excellence established with funds from the IEEE Foundation, the Section and the University. The Branch organised a visit to Cisco Systems which was attended by 20 undergraduate and postgraduate students.

B-5 AWARDS

The Section annually presents an award (a certificate and cheque) to a student from each university who has demonstrated outstanding performance at second-year level in a practical subject relevant to IEEE fields of interest. This program was established in 1992 and 2001 marked the tenth year of this program. The prize amount has been raised to \$500.

The Section has established a "Travelling Scholarship" fund intended to assist students and others to deliver conference publications at overseas venues. Two awards of \$500 were made in this category in 2001 and the amount set aside annually for this purpose has been raised.

A special Distinguished Service Award (and Past Chair's pin) was presented to Dr Bevan Bates for his significant contributions to the Section over a period of more than 10 years. Dr Bates held both Chair and Vice-Chair positions and was the foundation Chair of the IEEE South Australia AP/MTT Chapter.

B-6 CONFERENCE ACTIVITIES

The Section sponsored the 2000 Asia Pacific Microwave Conference held in the Wentworth Hotel, Sydney from 3 – 6 December, 2000. IEEE NSW Section, IEEE MTT Society and CSIRO were co-sponsors. The conference was wound up in 2001 and a surplus of approximately \$17,000 was returned to IEEE South Australia after the seed funds were repaid.

Planning has continued for IDC 2002 (Information Decision and Control) with a provisional theme of autonomous vehicles to be held in Adelaide, South Australia from 11-13 February, 2002. Approximately 8 distinguished overseas keynote and plenary speakers are part of the advertised program and several tutorials will be conducted in conjunction with the conference.

B-7 CHAPTER ACTIVITIES

The C&SP Chapter held two seminars and hosted one IEEE Distinguished Lecturer, Dr Salah Aidarous who spoke on the "IP Impact on the Evolution of Telecommunications Networks".

The AP/MTT hosted one technical meeting concerning the implications of spectrum allocation regulations in Australia. The meeting was held in September. A seminar was presented in November by Dr Fazal Ali, distinguished IEEE lecturer on the subject of power amplifiers for mobile handsets.

The CAES Chapter held seven technical meetings on topics ranging from GPS to human space exploration, several in conjunction with AIAA and RAeSoc. A highlight of the program was the repeat of the 11th Dr K. Millicer Lecture (sponsored annually by RMIT) by the retiring Director of the DSTO Aeronautical and Maritime Research Laboratory, Dr Bill Schofield.

The Computer Chapter held three seminars on "Cluster Computing: Architecture and Applications", "Future Junction Technologies for Sob 0.1 Micron Silicon Based Devices" and "System on a Chip and Embedded Systems".

B-8 EMAIL AND NEWSLETTER ACTIVITIES

Like many other Sections, the SA Section is moving to rely more on electronic communications, although a printed newsletter is still being produced but less often. Discussions on the most effective way to use email are continuing.

PART C: GOALS AND PLANS

C-1 GOALS

- Sponsor at least one significant technical conference per year
- Support the Electrical Joint Technical Program in conjunction with other technical societies
- Increase the student membership to at least 20 per university
- Establish a Student Branch at Flinders University
- Hold at least two technical meetings or workshops per year per chapter
- Establish a GOLD program
- Increase the level of electronic communication by distributing the newsletter electronically where possible and making greater use of the Web
- Expand the Travelling Scholarship program

C-2 DETAILED IMPLEMENTATION PLANS

Not available

C-3 PROPOSED BUDGET 2002

	Income	\$A
2.5	IDC 2002 (estimated)	
3.1	Section Rebate	\$8,500.00
3.4	Interest	\$3,000.00
	TOTAL INCOME	\$11,500.00
	Expenditure	\$A
4.1	Meetings (Section Committee/AGM)	\$1,000.00
4.2	Publications	
	Newsletter	\$1,500.00
4.3	Advertising	
4.6	Educational Activities	
4.7	Professional Activities	
	Distinguished Lecturers	\$800.00
	Joint Technical Program	\$500.00
4.8	Student Activities	
	Student Recruitment	\$300.00
	Student Branch Support	\$600.00
4.85	Grants/Awards	
	IEEE Student Awards	\$1,600.00
	Travel Grants	\$3,000.00
5	Management&General	
5.2	Travel(R10, Sections Congress)	\$500.00
5.5	Support to Chapters	\$1,200.00
5.52	Support to Regions (Aust Counc)	
5.6	Other Office Expenses(misc. secretarial, audit)	\$500.00
6	Fundraising Expenses	
	TOTAL EXPENDITURE	\$11,500.00

PART D: OTHERS

D-1 RELATIONSHIPS WITH NATIONAL SOCIETIES

The Section works closely with other societies in organising the Joint Technical Program (see B-2 above). Renewal of the Memorandum of Understanding, established between the Institution of Engineers Australia, the Institution of Electrical Engineers (UK) and the IEEE, in 1998 for a three year period, which offers reduced rates for joint memberships and other benefits, is under current discussion.

D-2 SPECIAL EVENTS

Nil

D-3 PROBLEMS TO BE ANTICIPATED

Nil