



IEEE

IEEE South Australia Section

Annual Distinguished Lecture and Dinner

The IEEE South Australia Section Committee invites you and your partner to the Annual Dinner and Lecture:

Elves, Spells and White Magic - The Pioneering Days of the Air Force's Electronic Warfare Squadron

Air Vice-Marshal Julie Hammer

National President, Engineers Australia

(see overleaf for details)



Date: 29 October 2008

Time: Pre-dinner Drinks 6:00 pm - 7:00 pm
Dinner & Lecture 7:00 pm - 10:00 pm

Venue: National Wine Centre
Corner of Botanic and Hackney Roads, Adelaide

Three Course Dinner and Drinks

RSVP: Remove the slip below and return completed to IEEE SA Section by 22nd October 2008

Dress Code: Neat Casual

Return to:
IEEE SA Section
PO Box 53
Elizabeth SA 5112

Phone: (08) 8259 5629
Fax: (08) 8259 5616
E-mail: south.australia@ieee.org

Name _____

Address _____

Phone/Email _____

Special dietary requirements _____

Method of payment Cheque Cash Visa MasterCard

Credit Card # _____

Signature _____

2008 Annual Lecture and Dinner

Sign up for:	Price
<input type="checkbox"/> IEEE Member	\$50
<input type="checkbox"/> Members partner. Name: _____	\$50
<input type="checkbox"/> Non-member	\$70
<input type="checkbox"/> Non-members partner. Name: _____	\$70
<input type="checkbox"/> IEEE Student Member	\$30

Total: _____

All prices include GST.

Exp. date _____

IEEE South Australia Section Annual Lecture

Elves, Spells and White Magic— The Pioneering Days of the Air Force's Electronic Warfare Squadron

Air Vice-Marshal Julie Hammer National President, Engineers Australia

In the late 1980s, the Air Force had decided that it needed to enhance its Electronic Warfare capability and had embarked on a very significant programme of investment in equipment, facilities and people to achieve this. The Electronic Warfare Squadron was established in 1989 and when Julie Hammer took over at the end of 1992, she was its second Commanding Officer.

The Squadron was set up to provide the highly critical operational capability to program a range of threat libraries into the software of electronic support measures equipment, radar warning receivers and jammers, and infra-red receivers. Its role also included developing and programming the countermeasures into those same jammers, as well as into flare and chaff dispensers. To support their use in operations, the Squadron devised the associated tactical manoeuvres to be followed by the aircrew to avoid and deceive the enemy.

Electronic Warfare Squadron was growing quickly, but at the time Julie arrived, it was still all theory. The Squadron had a purpose built facility, some of the equipment and the people, but as yet, nothing had actually been produced. It had not yet begun to 'pay its way'. Julie will tell the story of producing that critical first software load, the challenges that were faced and the sense of achievement experienced by all those involved.

Air Vice-Marshal Julie Hammer

Air Vice-Marshal Julie Hammer, an electronics engineer, served in the Royal Australian Air Force for over 28 years in the fields of aircraft maintenance, technical intelligence, electronic warfare, and information and communications technology (ICT) systems. She was the Commandant of the Australian Defence Force Academy during 2002 and 2003. At the time of her transfer to the Reserve in August 2005, she was the most senior woman in the Australian Defence Force. She was the first serving woman in the history of the Australian Defence Force to achieve One Star rank in 1999 and Two Star rank in 2003. She holds a Bachelor of Science with Honours in Physics, a Masters degree in Aerosystems Engineering and a Graduate Diploma in Strategic Studies.

Julie was the first woman to command an operational unit in the RAAF, the Electronic Warfare Squadron, and was awarded a Conspicuous Service Cross for that command. She served for three years from 1996 to 1998 as one of the Prime Minister's representatives on the Governor General's Australian Bravery Awards Council. She was awarded the 2001 Sir Charles Kingsford Smith Memorial Medal by the Royal Aeronautical Society and in 2002, she was appointed by the Government to be one of Australia's Honouring Women Ambassadors. The University of Queensland named her the 2003 Alumnus of the Year and she was appointed a Member of the Order of Australia (AM) in the 2004 Australia Day Honours List. She was the 2005 ACT Australian of the Year.

Within Engineers Australia, Julie was one of the inaugural Board Members of the Centre for Engineering Leadership and Management (CELM) and served as Chair of the CELM Board from November 2005 till August 2007. She led the development of advanced competencies for leadership, management and business skills. She became National President of Engineers Australia in November 2007.

Julie is also a Director of the .au Domain Administration Ltd, the administrator of the Australian country code top level internet domain.