

UNSW@ADFA alumni NEWSLETTER

THE UNIVERSITY OF NEW SOUTH WALES AT THE AUSTRALIAN DEFENCE FORCE ACADEMY

SEPTEMBER 2004

Welcome!

Welcome to the latest issue of the Alumni Newsletter from the University of New South Wales at ADFA. We are very proud of the achievements of our graduates, and we hope to establish more (and more frequent) contact with you over the coming period. We want to let you know what we are doing, and give you a chance of informing your alumni colleagues about your own progress. Inside this issue you will find some of the more formal achievements, including a list of honours awarded to our graduates, and we would be pleased to receive some details of your own careers.

A great deal has happened on our campus since our last newsletter, some of which is outlined in the 'Notes from the Acting Rector'. Our staff continue to win large amounts of external, competitive research funding, and some of their projects are highlighted in the 'Research snapshots' section. For those of you who have graduated with Bachelor degrees from UNSW@ADFA, we have also included some information about our postgraduate coursework programs to whet your appetite for further study. Alongside our wide range of Masters degrees, we are pleased to announce our Master of Arts in Strategy and Policy, a specialisation that has only been offered since 2003 and has already become very popular.

There are opportunities for you to participate in some of our events, such as the University Lecture in September. If you're in Canberra, why not come along and say hello to us.

We would be very pleased to hear from you if you have suggestions for alumni activities; in the meantime, we hope you enjoy this newsletter.

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The Alumni newsletter is edited by Vivienne Zelig. Contributions from our alumni for inclusion in the newsletter are always welcome. Please send us any information that you would like to share with your friends, colleagues and fellow graduates. Perhaps you have married, had children, had an interesting posting, a promotion or news of an amusing incident to share with your fellow Alumni. Send us an email at alumni@adfa.edu.au

Important Contacts

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Student Administrative Services, UNSW@ADFA
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Canberra ACT 2600
Email: alumni@adfa.edu.au
Enquiries: Phone (02) 6268 6000
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Website: www.unsw.adfa.edu.au/student

education FOR leadership

Notes from the Acting Rector

In the last issue of the UNSW@ADFA Alumni Newsletter the Rector, Professor Robert King, explained that the twelve existing Schools had been reorganised and amalgamated into five Schools as of mid-2003. The reorganisation was part of the University's efforts to become more responsive to the needs of Defence, as well as to stimulate cross-disciplinary efforts in teaching and research, and to introduce organisational efficiencies. The last part of the reorganisation of UNSW@ADFA has recently been completed, with a review of the Information Technology Services unit, a part of the Academic Services Group (which includes the Library). Altogether, this restructure has been the biggest change to the University at ADFA since we began in 1986, and it has not been achieved without cost. But while we have lost about 10% of our staff (with many academic staff becoming Visiting Fellows upon their retirement), we have also added a new degree stream (the Bachelor of Business) and directed studies for all undergraduates in 'leadership' and 'strategic studies', and we are beginning to see cross-disciplinary advances. We have now entered a positive and exciting phase of our development.

This new phase is built on a milestone in our relationship with Defence. In December 2003, a ten-year Agreement between the University of New South Wales and the Australian Government was signed. The Agreement sets out the conditions under which UNSW will supply educational services at undergraduate and postgraduate level to Defence. Importantly for the University and its staff, it recognises the need for academic freedom in a balanced and liberal education, the centrality of robust research programs to ensure that staff remain at the cutting edge in their teaching, and the importance of the University being able to offer its postgraduate courses to a wider market than simply Defence personnel. The challenge of the Agreement from the University's side is to demonstrate that Defence is getting the best education for its future leaders, and that the Government is getting value for its money. To that end, the University and Defence representatives will meet annually (with the first meeting held in May this year) to ensure that the contract is being fulfilled.

The University has a very positive view of our relationship with Defence, and issues of all shapes and sizes are discussed (and generally and quickly resolved) on an everyday basis between the Commandant, Commodore James Goldrick, and me. The new Academy Consultative Council, which meets at least twice a year, is another avenue for dealing with issues that arise within our cooperation, and for accounting for the results of that cooperation.

That I am writing to you as 'Acting Rector' also needs some explanation. The former Rector, Robert King, was appointed Deputy Vice Chancellor (Academic) at the UNSW campus at Kensington earlier this year. With the support of the senior staff I became Acting Rector at the beginning of March. I had been Head of the School of Politics until it was merged into the new School of Humanities and Social Sciences in mid-2003. I will continue in my current position until the new Rector—Professor John Baird, whose appointment was announced recently—arrives to take up the position. This will be later in 2004.

It is a great privilege to be Acting Rector because the vantage afforded by this position has allowed me to see, and praise, and represent to others, the amazing achievements of our academic and support staff, as well as the achievements of our students. Our undergraduate student intake this year was the highest since 1998; of those coming from secondary school, almost 30 had UAI scores of 98 or higher (out of a possible 100), and the proportion of our students with a UAI of 95 or higher was larger than at our main campus in Sydney. Our outstanding students are matched by outstanding staff, winning millions of dollars in research funding, and embracing the University's efforts to encourage the very best teaching and learning. I hope this Alumni Newsletter



will convey some of the confidence and excitement with which we are facing the new challenges.

*Associate Professor
David Lovell
Acting Rector*

Alumni Successes

2004 Australia Day Honours

CDRE James Goldrick, AM, CSC, RAN
Commandant ADFA
Member of the Order of Australia

AVM Julie Hammer, AM, CSC
Former Commandant ADFA
Member of the Order of Australia

Ms Crystal Condous, OAM
Former Registrar and
Deputy Principal of UNSW
Medal (OAM) in the General Division

Graduates of UNSW from RMC Duntroon and ADFA

BRIG Gary Bornholt, AM, CSC
Member of the Order of Australia

BRIG Douglas Tyers, AM
Member of the Order of Australia

CMDR Richard Leahy, CSC, RAN
Conspicuous Service Cross

LTCOL Andrew Sims, CSC
Commendation for
Distinguished Service

LTCOL Gregory Bilton, CSC
Conspicuous Service Cross

BRIG Vincent Williams, CSC
Commendation for
Distinguished Service

SQLDR Andrew Doyle, CSC
Conspicuous Service Cross

SQLDR David Roger, CSC
Conspicuous Service Cross

CAPT Allan Du Toit, AM, RAN
Member of the Order of Australia

RADM Kevin Scarce, AO, AM, CSC, RAN
Officer of the Order of Australia



The Chief of the Defence Force, General Peter Cosgrove, AC, MC reviewing the 2004 CDF Parade

ADFA welcomes highest number of recruits in six years

Prepared by Ms Jo Button, Public Affairs Officer

308 new recruits commenced their three years of training at ADFA on 22 January this year. This represents the highest number of recruits to enter ADFA since 1998.

These new recruits have come from all states and territories, as well as four from New Zealand, three from Singapore and one from Thailand, with one-fifth of the new recruits being female.

While ADFA has transformed 256 of these new recruits from civilians to military members, 52 Navy Midshipmen entering ADFA this year had already made the transition after completing six months of initial Naval Officer training at HMAS Creswell, followed by six months in the fleet.

Upon commencing at ADFA, these new recruits undertake five weeks of intensive military training where they learn all aspects of military life including dress and bearing, uniform maintenance, marching drill, fieldcraft, weapons handling, military law, military communications, physical training, adventure training and equity and diversity.

To celebrate these newcomers successfully completing their initial military training, over 790 Midshipmen and Officer Cadets, as well as ADFA military staff, marched before dignitaries, family and friends in the Chief of the Defence Force Parade, held on 28 February this year. This represents the newcomers' first sense of belonging to both ADFA and to the ADF.

After being introduced to military life, these first year Midshipmen and Officer Cadets commenced their academics through the University of New South Wales on 2 March 2004.

Recent Events

The UNSW@ADFA University Lecture – A Proud Tradition

The University Lecture at UNSW@ADFA forms part of a proud tradition of public engagement for the University College. Previous University Lecturers have included The Hon Kim Beazley Minister for Employment, Education and Training (1992); Ms Quentin (Alice) Bryce Federal Sex Discrimination Commissioner (1993); Ms Janine Hayes, first female Leader of the Democrats (1994); Emeritus Professor Geoffrey Blainey, Historian (2001); and Mr Paul Kelly Editor-at-large, *The Australian* (2002).

In 2003 the University Lecture was delivered by The Right Honourable Malcolm Fraser AC CH and was incredibly well received. In his lecture, 'Which Way Forward for Australian Foreign Policy', Mr Fraser spoke of moving into this century with the hope for international peace and goodwill, the pushing aside of these hopes by the War Against Terror, major divisions between democratic states and a focus on issues of security. He spoke of the challenge, in times of international unrest, for nations to work together to create peace and stability for the future.



*The Right Honourable Malcolm Fraser AC CH,
UNSW@ADFA University Lecturer, 2003*

In addition to speaking broadly about matters of Australian Foreign Policy, Mr Fraser also spoke of the 'enormous importance' of ADFA as an institution for Australia and the pride all Australians can take in the way in which members of the Australian Defence Force conduct themselves, with 'great bravery and distinction' when carrying out overseas assignments. Details of the upcoming 2004 University Lecture can be found later in this edition of the Alumni Newsletter.

Keep in Touch!

UNSW@ADFA wishes to stay in touch with you. Please complete and submit the following contact details so we can update our database. We look forward to helping you to keep in touch with the UNSW@ADFA, friends and colleagues.

Title / Rank	_____	Previous Address	_____
Given Names	_____	_____	Postcode _____
Surname	_____	Date of Graduation from UNSW@ADFA:	____/____/____
Date of Birth	_____	Degree Awarded:	_____
Service No	_____	Current Appointment / Position:	_____
Student No	_____	Email:	_____
Spouse Name	_____	Address:	_____
Surname when at ADFA (if changed)	_____	_____	Postcode _____
Post -Nominals	_____	Signature:	_____ Date: ____/____/____
Current Address	_____	RETURN TO: Alumni Office, Student Administrative Services, UNSW@ADFA, Australian Defence Force Academy, Canberra ACT 2600. Email: alumni@adfa.edu.au	
_____	_____	Fax: (02) 6268 8666 or complete the form online at	
_____	Postcode _____	www.unsw.adfa.edu.au/student/alumni	

The above details will only be used by UNSW and the UNSW Foundation to distribute information about the University and alumni activities.

Defence Studies at UNSW@ADFA

The UNSW Defence Studies Forum was created in 2004 through the merger of the Graduate Program in Defence Studies with the Australian Defence Studies Centre. The UNSW Defence Studies Forum provides a new organisational focus for our mission of promoting the academic study of defence issues at the Australian Defence Force Academy and within the wider defence and public communities.

Defence studies as an academic discipline is broadly conceived to encompass all issues—both domestic and strategic—that affect Australia's defence and national security interests. The UNSW Defence Studies Forum seeks to bring together students, academic staff, scholars, and all other members of the community concerned with defence issues through three main programs:

- Master of Defence Studies, a cross-disciplinary postgraduate coursework program with specialisations in (a) strategic policy and intelligence, (b) military history and operations, and (c) regional strategic and security assessment.
- Visiting Fellows program to attract noted specialists to complete research and publication on defence and strategic studies topics and to make the results of this research available to the public.
- Public Outreach on defence issues through seminars, workshops, lectures, conferences and other public forums.

Defence Studies Forum — Inaugural Seminar

The new UNSW Defence Studies Forum held its inaugural event on 24 May 2004. The seminar examined the 2004 State Department report on 'Patterns of Global Terrorism', and was presented in conjunction with the Public Affairs Office of the Embassy of the United States. It was well attended with over 100 participants and attracted positive media coverage.

The Defence Studies Forum has had initial discussions with the Acting Rector on the content of a five year plan, on a publications and seminar program, on visiting fellows, and on the matter of an advisory board.

International Students

In Session 1 this year, 32 new Defence Cooperation Program scholarship students began their studies at UNSW@ADFA. These students from Indonesia, Malaysia, the Philippines, Thailand and Vietnam joined ten of their compatriots in studying for their Masters in Arts, Defence Studies, Engineering Science, Science and Management Studies. The latter ten have now left and been replaced by seven Filipinos and a Thai who have been fortunate in being able to take over some of the accommodation and possessions of their colleagues. At least three research students will be graduating with their doctorates in December, whilst several research students, mainly from a variety of Asian countries, have begun their studies during 2004.

About 90 people attended a Celebration of Completion on 1 July to honour and say farewell to those postgraduate international students who had completed the requirements of their degrees at the end of Session 1. Most were Defence Cooperation Program scholarship students about to return to their home countries and not able to attend the Conferring of Degrees Ceremony in December.

International students and their families, the Commandant and academic staff together with several Defence Attaches from South East Asia, staff from International Policy Division of the Department of Defence and from IDP Education Australia, enjoyed a farewell afternoon tea. Professor David Lovell congratulated the fifteen potential graduands and presented each with a letter of completion. One of the Filipino students gave an amusing reply of thanks on behalf of his colleagues.

Research Snapshots

UNSW@ADFA is a research-intensive university, with many continuing research projects. Listed over these pages are four current research projects with a Defence focus.

For more information about these and other research, contact the Research Office on (02) 6268 8497.

1. Hypersonics Research Speeds Up

US/Australian collaborative research into Mach 10 scramjet technology.

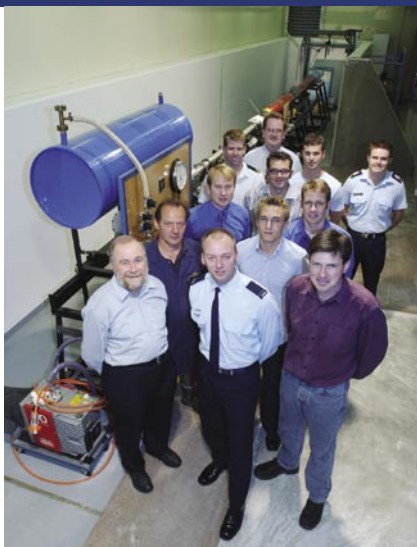
The world's fastest air-breathing engine will fly in Australia in 2005 in a collaborative two-nation experiment that is expected to provide a major boost to the fledgling scramjet technology. Scramjets are air-breathing supersonic combustion ramjet engines. They are set to make possible two-hour flights from Sydney to London and revolutionise the launch of small space payloads, such as communications satellites, by substantially lowering costs.

Australian and US defence interests have signed a \$4.6 million contract to conduct a controlled scramjet experiment at Mach 10, or about 11,000km an hour, at Woomera, South Australia, possibly in the second half of next year. Partners in the new project are the US Defense Advanced Research Projects Agency (DARPA) and the Australian Hypersonics Initiative (AHI) represented by the Defence Science and Technology Organisation (DSTO), the University of Queensland, the University of New South Wales at the Australian Defence Force Academy, and the Australian National University, together with the State Governments of South Australia and Queensland.

The project will include a large element of collaboration with a consortium of US universities; hence the project is being referred to as HYCAUSE, derived from Hypersonic Collaborative Australian/United States Experiment. The AHI was primarily established to promote a collaborative approach to research into scramjet propulsion technologies, and to facilitate an Australian position when it comes to working with international agencies.

2. The Tale of the Speckled Chopper....

A Research team in the School of Aerospace Civil and Mechanical Engineering was approached a year ago by the Navy Aviation Systems Program Office (NASPO) with a problem that has been plaguing the maintenance engineers on the Sea Hawk and Black Hawk platforms in the ADF for a considerable time: the detection of "working rivets". Since helicopters are subjected to very high levels of vibration, the fasteners in them tend to work themselves loose much more quickly than those in their fixed wing counterparts, presenting a perennial challenge to the maintenance crew, who have to inspect them regularly and replace them when necessary. The present methods, recommended by the Original Equipment Manufacturers (OEM), for inspecting for "working rivets", are visual inspection for the presence of black residue around the fastener and twisting the rivet tail manually to check whether the fastener is loose. Both of these methods are less than satisfactory, both in terms of reliability and effort involved, since each aircraft has thousands of rivets in it. The team at UNSW@ADFA, consisting of Andrew Neely, Bob Clark and Krishna Shankar, together with some undergraduate Honours students, have been tasked by NASPO to develop a more reliable, cost effective and easy-to-use non-destructive technique for inspection of working rivets in the field or the hangar. The technique being developed is based on speckle pattern photography and digital correlation. The application of speckle motion photography to the detection of loose or "working" rivets is based on the principle that, when subjected to in-plane or bending loads, a working rivet is likely to have out-of-plane rotations which are out of sync with the rotations of the skin or plate material surrounding the fastener, whereas if the fastener is tightly clamped, the two will deflect in unison. The development of a compact inspection unit comprising the laser source, illumination optics and a digital motion camera and the optimisation of the software for digital correlation of the images are currently ongoing.

The Hypersonics Team

3. Application of high-resolution laser spectroscopy in the investigation of the electronic structures

Dr Hans Riesen's group from UNSW@ADFA's School of Physical, Environmental and Mathematical Sciences (PEMS) applies high-resolution laser spectroscopy in the investigation of the electronic structures of a wide range of systems in the solid state. Vastly different systems, ranging from emerald (yes, the gemstone) to photosystem II (the primary system responsible for photosynthesis), are investigated. The group has pioneered applications of diode lasers (semiconductor lasers used in laser pointers, CD burners etc) in spectral hole-burning spectroscopy of coordination complexes and inorganic materials in general.

In spectral hole-burning, a subset of optical centres is selectively bleached at the laser frequency, leading to a dip in the absorption spectrum. This technique overcomes the so-called inhomogeneous broadening in the solid state: the frequency of electronic transitions is highly sensitive to the local environment of the optical centres and is thus, in general, subject to a broad distribution. Spectral hole-burning at low temperatures can enhance the spectral resolution by factors of up to 10¹² and has many potential applications. In particular, frequency or time domain optical storage remains the prevailing driving force behind many studies: spectral holes can be used to encode binary numbers and storage densities at lowest temperatures already exceed 100 Terabyte/cm³ (1 Terabyte=1000 Gigabyte). The challenge is to find materials that exhibit these gigantic storage densities at temperatures above 78 K (=liquid nitrogen temperature).

Very recently, in the pursuit of optical properties of nanoparticles, Dr Kaczmarek and Dr Riesen have discovered a highly efficient X-ray storage phosphor that may allow medical diagnostics at dramatically reduced X-ray dosages. A review of recent hole-burning results by Dr Riesen's group will appear as a chapter in the prestigious book series "Structure and Bonding" (Vol 107, 2004, 179-205).

4. Quantum Information Technologies

The Quantum Electronics Group in the School of IT&EE comprises two academics, one full-time research assistant, two full-time postgraduate students as well as an average of three fourth-year students per year. The Quantum Electronics Group has two main research themes:

- The development of novel Chaotic Semiconductor Laser systems for secure communications
- The development of robust Quantum Information Technologies with a particular focus on Quantum Computer Technologies

The research program is underpinned by funding from the ARC Centre of Excellence for Quantum Computer Technology and maintains active collaborative research links within UNSW as well as the University of Queensland, Macquarie University, the University of Erlangen-Nurnberg, Griffith University, the Australian National University and the Defence Science and Technology Organisation.

Considerable international research effort has been focussed on experiments in Quantum Computation. The ARC Centre of Excellence in Quantum Computer Technologies (CQCT) is one of the pre-eminent research organisations working in this field. The UNSW@ADFA group is a participant in the CQCT (please see the CQCT website at <http://www.qcaustralia.org> for more information) and conducts research into photonic quantum computation architectures, one of the two experimental research themes of the Centre. In collaboration with co-workers at the University of Queensland, UNSW@ADFA researchers have proposed a new scheme for encoding quantum information on photons. This novel photonic encoding scheme – the frequency of the photons – lends itself to operation inside optical fibres. Our role within the CQCT is to develop robust and potentially scaleable photonic encoding schemes.

postgraduate study

Postgraduate Research Programs

UNSW@ADFA is a significant research institution which offers a supportive and stimulating environment for postgraduate research. It has a wide range of postgraduate research programs open to all eligible students and welcomes particularly international students. Research degrees require the preparation and submission of a thesis embodying the results of an original investigation or design or, in the case of the Masters by research, a combination of research and coursework or research only. Research programs are available at PhD and Masters level with provision, under certain circumstances, for transfer between the two.

Doctor of Philosophy (PhD)

- All disciplines

Master of Philosophy (MPhil)

- All disciplines

Master of Engineering (ME)

- Aerospace/Mechanical Engineering
- Civil Engineering
- Electrical Engineering

Master of Science (MSc)

- Chemistry
- Computer Science
- Geography/Oceanography
- Mathematics
- Physics

Master of Arts (MA)

- History
- Language Literature and Communication
- Politics

Postgraduate Coursework

UNSW@ADFA offers five different coursework programs at postgraduate level. These programs include Arts, Defence Studies, Engineering Science, Management Studies, and Science. Each program offers different specialisations or plans (as listed below). Provision exists in all programs to articulate through a certificate/diploma/masters sequence. Further details about each program can be obtained at www.student.adfa.edu.au

Arts

The Arts program provides students with the opportunity to acquire high level understanding and advanced analytical skills in key areas of the social sciences and humanities disciplines. Students can combine courses from English literature, history and political science to build expertise in one of the specialisations listed.

Graduate Certificate, Graduate Diploma, Master available with specialisations in:

- War Studies
- Strategy and Policy
- English and Cultural Studies

Defence Studies

Defence Studies is an interdisciplinary program which brings scholarly insight and academic discipline to bear on a wide range of strategic and military issues. It provides high level understanding and advanced analytical skills in relation to the evolving strategic environment, particularly in the Asia-Pacific, the key factors that are shaping defence and security policy and decision making in the 21st century, and the development of military strategy and the conduct of operations.

Graduate Certificate, Graduate Diploma, Master available.

at UNSW@ADFA...

Engineering Science

The Engineering Science program offers the opportunity to pursue graduate level study in the traditional engineering discipline areas. In addition to a broad range of technical and professional engineering courses, there is the opportunity for students to blend that specialist expertise with related courses in the Science and Management Studies programs.

Graduate Certificate available with specialisation in:

- Electrical Engineering

Graduate Diploma available with specialisations in:

- Civil Engineering
- Electrical Engineering

Master available with specialisations in:

- Civil Engineering
- Electrical Engineering
- Project Management

Management Studies

The Management Studies Program addresses the decision-making processes and techniques by which private and public sector organisations make the most effective use of their resources. It draws on a variety of disciplines including economics, engineering, computer science and law and aims to develop skills in quantitative and qualitative analysis relevant to management issues. The program provides students with the opportunity to acquire a high level understanding of the principles and practice of management and to develop expertise within specific areas of the discipline.

Graduate Certificate and Graduate Diploma available. Master available with specialisations in:

- General Management
- Equipment and Technology Management
- Human Resource Management
- Project Management

Science

The Science program provides students with the opportunity to acquire high level understanding and advanced analytical and professional skills in Information Technology, or Operations Research and Statistics. There is a significant emphasis on integrating the various disciplinary approaches that can be applied to particular subject areas and on students acquiring both the concepts which underpin an area of scientific enquiry and an understanding of how they are translated into practical applications.

Master, Graduate Diploma, Graduate Certificate available with specialisations in:

- Information Technology
- Operations Research and Statistics

Combined Coursework/ Research Program

Doctor of Information Technology (DIT)

The DIT degree provides an opportunity to combine a doctoral thesis with the coursework component of an IT-related Master of Science. It allows research into an area of interest developed within the coursework, leading to a significant contribution to professional practice in information technology.

Master of Arts (MA)

The Master of Arts is a research degree comprising either a research thesis of substantial length, or four courses and a research thesis. It is designed to provide the option of formal coursework research training for students wishing to engage in serious research on a project that can be completed in a shorter time than the PhD.

Preparing to lead

Prepared by Ms Jo Button, Academy Public Affairs Officer

As many of our Alumni would know, Navy Midshipmen and Army and Air Force Officer Cadets undertake a practical Leadership Challenge in each of their three years of training at the Australian Defence Force Academy (ADFA). These Leadership Challenges become progressively more demanding each year, with the Leadership Challenge III designed to test the ability of Midshipmen and Officer Cadets to lead a small team in the conduct of a challenging task within a military environment.

248 Midshipmen and Officer Cadets recently donned their camouflage uniform and spent five nights under hutchies in freezing Wee Jasper in order to complete this year's Leadership Challenge III!

Carrying a backpack, webbing and a rifle, these 18 to 24 year old young men and women seized the daylight, starting at 5:30am everyday and 'soldiering on' until 6:00pm.

This year's Leadership Challenge III required the Midshipmen and Officer Cadets to provide goodwill and assistance to the 'Bondoan' locals, as well as be aware of militia in the area, for example, members of the 'Melos'. ADFA military staff and Advanced Students played the roles of other United Nations forces, villagers or members of local militia groups.

Leadership Challenges are based on the collective experiences of overseas deployments and large-scale operations of ADFA military staff. In one exercise scenario, cadets have to set up a vehicle checkpoint, while trying to direct 'overly-helpful' locals and contend with a pregnant woman who is about to give birth.

In another exercise scenario, Midshipmen and Officer Cadets have to set up an Observation Post to monitor any trading activity. After detecting a foreign marketplace, Midshipmen and Officer Cadets have to maintain goodwill with these 'Bondoan' speaking villagers and negotiate with them in order to locate and secure Australian military equipment and uniforms, believed to have been sold from the market.

In another exercise scenario, the Midshipmen and Officer Cadets are required to use their creativity in order to devise a raft, using only limited equipment, to transport the 'Bondo Chief' across the Goodradigbee River, without getting him wet. They are hampered in this task by the locals who are more of a hindrance, than a help! One of the exercise scenarios is shown in the accompanying picture.

Images and video footage of this year's Leadership Challenge III are available by contacting Ms Jo Button on (02) 6268 8623.



ADFA Army Officer Cadet Nicholas Perriman and Navy Midshipman Amber Trebilco trying to negotiate with 'Bondoan' speaking villagers at a foreign marketplace in order to locate and secure Australian military equipment and uniforms. (Image ref #0041)

The Spitfire Memorial Defence Fellowship 2004

The Spitfire Memorial Defence Fellowship was established in the mid 1990s by ex-wartime Spitfire pilots and ground crew, the Australian Spitfire Association and leading private and corporate supporters to create a lasting and dynamic memorial to the important contribution of the Spitfire and its Squadrons during World War II. Since its launch in 1998 the Fellowship has made significant progress thanks to the generosity of donors and management by the University of New South Wales.

To date there have been four recipients of the Fellowship. It was first offered in 2000, with two awards being made that year. Flight Lieutenant Boyd Falconer received an award for a project on "Human Factors Awareness and Development in the Royal Australian Air Force" and Dr Rikard Hesleshurst in the School of Aerospace and Mechanical Engineering of the University of New South Wales at the Australian Defence Force Academy received an award to support a research project on "Jet Fighter Design Evolution – Korean

War to Present". In 2001 Dr John Milthorpe in the School of Aerospace and Mechanical Engineering of the University of New South Wales at the Australian Defence Force Academy received the Fellowship for his project "An Investigation of Thermal Masking in Infra-Red Homing Missiles".

The most recent award was made in 2002 to Dr Frances Miley to support her proposed research project to evaluate the recent changes that had occurred within the Department of Defence, and their impact on financial reporting.

Dr Miley recently completed her report, titled "Managing a Minefield: a study of financial management and the Department of Defence".

This year's Fellowship is valued at \$10,000 and is open to Australian citizens who are suitably qualified graduates or who have significant appropriate work experience. Further information, including application details and deadline, is available from the internet www.unsw.adfa.edu.au/news/sfm/index.htm

Alumni Benefits

The Academy Graduates Association

The Academy Graduates Association (AGA) seeks to maintain a link between the Academy and its graduates. Today, the AGA has members all over the world and in civilian and military jobs alike. In 2003, a new committee was established to reinvigorate the Association. As a part of the reinvigoration, the AGA has developed a new website which serves as the primary means of information dissemination throughout the Association. The website is at www.adfagrad.org

Membership of the Association is restricted to ADFA graduates and selected associates (academic and military staff members at ADFA, ADFA sports coaches, etc.). Membership currently costs \$20 for one year or \$50 for three years. As a member of the AGA the following benefits are available:

- Access to the AGA 'Members Only' password-protected website
- Access to our Member Database detailing contact details of all members
- Access to the AGA's quarterly online newsletter, 'Tattoo'
- Access to other online tools including the AGA Business Directory and the 'Facts and Furphs' discussion forum
- Eligibility for AGA giveaways and competitions

...continued from previous page

- Subsidies for AGA functions, including the annual Back to the Academy Weekend and regular Happy Hours throughout Australia
- PLUS an ever-expanding range of other benefits being negotiated

The AGA can only be successful with the support of graduates. If you would like further information, please contact us at contact@adfgrad.org

UNSW Alumni Association Member Benefit Program

All UNSW graduates become UNSW Alumni and are therefore eligible to join the Member Benefit Program which offers exclusive services, activities and discounts for subscribing Alumni to add value to their relationship with UNSW.

Subscriptions and contributions to the Program help the Alumni Association support initiatives such as special events, activities, scholarships and awards.

Members enjoy priority invitations to stimulating talks by high profile speakers, receive discounts for theatre/concerts and University facilities and enjoy important networking opportunities.

The Association's Member Benefit Program is described on the following website: www.alumni.unsw.edu.au



Become Involved

University Lecture 2004

The University Lecture is a public lecture delivered each year at the Australian Defence Force Academy by an individual of real eminence and stature in this country's public life. This year UNSW@ADFA is delighted to be presenting Her Excellency Professor Marie Bashir, the Governor of New South Wales as the 2004 University Lecturer.

Professor Bashir was educated at Narrandera Public School and Sydney Girls High School, gained her bachelor degrees in medicine and surgery from the University of Sydney in 1956 and taught at the Universities of Sydney and New South Wales. At the time of her appointment as the Governor of New South Wales, she held appointments as Clinical Professor of Psychiatry at the University of Sydney; Area Director of Mental Health Services Central Sydney; and Senior Consultant to the Aboriginal Medical Services in Redfern and Kempsey.

Professor Bashir's community involvement and interests have included issues of juvenile justice, research on adolescent depression, health issues in developing countries, education for health professionals and emerging technologies for health service delivery. Along with many professional memberships she has been a member of societies as diverse as Amnesty International and the National Trust. There is no doubt, give Professor Bashir's eminent public standing, her experience in roles as physician, educator and her life as a public figure, that she will have a great deal of wisdom to impart. We expect that this year's lecture will join in value those of previous years.

This year's University Lecture will be held in Adams Hall at 5:30pm on 15 September. Further information will be available closer to the date via the UNSW@ADFA website (www.unsw.adfa.edu.au/). The lecture is free. All UNSW@ADFA alumni and their families are very welcome to attend.

Her Excellency, Professor Marie Bashir, who will be UNSW@ADFA University Lecturer in 2004.