

## Faculty of Computing Health and Science

### secau Security Research Centre Annual Report

RESEARCH UNIT NAME:

RESEARCH UNIT LEVEL (tick):

- Level I Research Group       Level II Research Centre  
 Level III Research Institute       Centre of Excellence

YEAR:

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**BRIEF OVERVIEW** (1-2 paragraphs outlining major activities conducted in past year)

#### ***SImPLE Engagement with Police***

Following on from 2009 and the recognition of the benefits that the SImPLE tool will bring to the community, the project was nominated at the Innovator of the Year Awards and was in the top 5 finalists.

#### ***secau Conferences***

##### **1<sup>st</sup> International Cyber Resilience Conference**

2010 saw the introduction of the International Cyber Resilience Conference. This conference was formed to discuss and explore issues relating to cyber resilience of information systems and critical infrastructures. The first conference saw an attendance of 80 delegates and attracted Mercury Technologies as its major sponsor.

##### **2010 secau Security Congress**

The annual secau Security Congress was attended by 120 guests from local, national and international destinations. There were 85 papers submitted to the Congress and 60 were accepted for presentation. The congress incorporated 5 conferences, these being:

- 11th Australian Information Warfare Conference
- 8th Australian Information Security Management Conference
- 8th Australian Digital Forensics Conference
- 3rd Australian Security and Intelligence Conference
- 1st Australian Counter Terrorism Conference

#### ***ACS Centre of Expertise – Security (formerly Centre of Excellence in Security)***

secau continues to work with ACS in collaboration on building the Centre of Expertise – Security. ACS has been a sponsor of our conferences and secau undertook a Road show in the second part of the year which visited Sydney, Melbourne and Canberra with secau guest speakers. secau have also provided a speaker to undertake the 'Education across the Nation', an initiative developed by ACS to educate ACS members and local communities.

### **Community Engagement**

secau maintained the successful series of Special Interest Group Seminars held monthly with ECU staff and industry guests presenting one hour talks on their areas of expertise. These are attended well, normally between 30-40 people.

### **secau Profile**

secau continued to raise awareness of the centre and the research undertaken and to promote secau objectives nationally and internationally by taking part in the below events:

#### **Australian New Zealand Forensic Science Symposium in Sydney (ANZFSS)**

secau had a exhibitors stand at ANZFSS from 5-9 September. secau took part in the Trade Exhibition and promoted the Centre's annual Security Congress, research, courses and industry engagement, together with raising awareness of the impact secau has in the wider security arena. There were approximately 1000 delegates at the Symposium with representation from a variety of international countries including New Zealand, Belgium, Brazil, China, Denmark, Fiji, Germany, Iran, Netherlands, Singapore, UAE, UK and USA. Attendees included Government Agencies, law enforcement, lawyers, scientists, pathologists, academics and students. The contacts gained and the awareness of the Centre's push to fight to secure Australia's Security Future proved to be an invaluable experience.

#### **IFIP World Computer Congress in Brisbane (WCC2010)**

secau had an exhibitors stand at WCC2010 from 20-23 September, 2010. There were approximately 2000 people at the Convention, including local, national and international delegates and tradefair exhibitors. secau were the only Western Australian Representatives to have a stand at the Congress.

Professor Craig Valli was asked to be a guest speaker at WCC2010 however, due to work commitments was unable to attend, David Cook presented for Craig, the topic entitled "Unholy Convergences".

#### **Univation - Perth**

secau had an exhibitors stand at Univation in Perth which enabled secau to showcase research at the event.

#### **IASP-ASPA - Perth**

secau had an exhibitors stand at the 2010 IASP-ASPA Joint Venture Conference, this was an opportunity to showcase secau's research.

### **MEMBERSHIP** (Full Title of Researchers, including staff, research students, adjuncts in the past year)

#### **Staff**

Professor Craig Valli (Director)  
Professor Tony Watson (Director, ACS Centre of Excellence)  
Professor Narayana Srinivasan  
Professor Murray Lampard  
Dr David Brooks  
Dr Patricia Williams  
Dr Andrew Woodward  
Dr Anne Aly  
Dr Geoff Swan  
Dr Christopher Bolan  
Mr Jeff Corkill

Mr Peter Hannay  
Mr Patryk Szewczyk  
Mr David M. Cook

**Adjuncts**

Professor William Hutchinson  
Professor Andrew Jones  
Professor Steven Furnell  
Professor Matthew Warren  
Professor Clifton Smith  
Professor Janice Burn  
Associate Professor Gary Kessler  
Associate Professor Ken Fowle  
Associate Professor Nathan Clarke  
Associate Professor Glenn Dardick  
Associate Professor Kerran Campbell  
Dr David Biroš  
Dr Edwin "Leigh" Armistead  
Mr Simon Roberts  
Mr Martin Studdert  
Mr Norman Shanks  
Mr David Campbell  
Mr David Healey

**Research Students (See Later in Document)**

**NEW GRANTS** (Identify Funding Body, Value of grant, Years funded, Chief Investigator, collaborators, title)

1. **NSST**

\$195,723.00

2010 - 2011

Professor Craig Valli

Dr Andrew Woodward, Peter Hannay

Review of vulnerability in smart grid appliances and networks.

The project will investigate vulnerabilities of smart electricity grids through examination enabling technologies such as meters and controllers.

2. **NSST**

\$49,930.00

2010-2011

Dr David Brooks

Building management systems security vulnerabilities: An investigation into current threats

3. **NSST**

\$20,000

Professor Craig Valli

Dr Chris Bolan

Update on Investigation into RFID Threats and Vulnerabilities.

The project will investigate RFID (Radio Frequency Identification) vulnerabilities and countermeasure requirements Total project value:

## **PUBLICATIONS, REFERRED BOOKS, CHAPTERS, JOURNAL ARTICLES, CONFERENCE PAPERS, REPORTS**

### **Books**

1. Aly, Anne (2010) A Study of Audience Responses to the Media Discourse About the 'Other': The Fear of Terrorism Between Australian Muslims and the Broader Community. Lampeter: Edwin Mellen Press
2. Clark, N (2010) Computer Forensics: A Pocket Guide. IT Governance Publishing.
3. Armistead, L (2010) Information Operations Matters: Best Practices. Potomac Books, Inc.

### **Book Chapters**

1. Aly, Anne (2010). "Fear, Victimisation and Identity: The Community Victimisation Perspective and Social Inclusion of Australian Muslims." Muslims in Australia. Yasmineen, S (Ed). Melbourne: Melbourne University Press

### **Refereed Journals**

1. Aly, Anne.(2010) "Shifting Positions to the Media Discourse on Terrorism: Critical points in Audience Members' Meaning Making Experiences." Media International Australia incorporating Culture and Policy.
2. Aly, Anne & Lelia Green (2010) "Fear, Anxiety and the State of Terror." Accepted for publication in Studies in Conflict and Terrorism
3. Alghafli, K., A. Jones, et al. (2010). "Forensic Analysis of the Windows 7 Registry." Journal of Digital Forensics, Security and Law 5(4): 5-30.
4. Chipperfield, C. and S. Furnell (2010). "From security policy to practice: Sending the right messages." Computer Fraud & Security 2010(3): 13-19.
5. Brand, M., C. Valli, et al. (2010). "Malware Forensics: Discovery of the Intent of Deception." Journal of Digital Forensics, Security and Law 5(4): 31-42
6. Brooks, D. J. (2010). "Security risk management: A psychometric map of expert knowledge structure". International Journal of Risk Management, 00(00), 1-15. doi: 10.1057/rm.2010.7.
7. Furnell, S. (2010) "Jumping Security Hurdles". Computer Fraud & Security 2010(6): 10-14.
8. Hutchinson, W. (2010) "New technologies: dissonance, influence and radical behaviours". Journal of Information Warfare 9(3): 14-25.
9. Jali, M., S. Furnell, et al. (2010). "Assessing image-based authentication techniques in a web-based environment." Information Management & Computer Security 18(1): 43-53.
10. Jones, A. and T. Martin (2010). "Digital forensics and the issues of identity." Information Security Technical Report 15(2): 67-71.
11. Jones, A., C. Valli, et al. (2010). "The 2009 Analysis of Information Remaining on Disks Offered for Sale on the Second Hand Market." Journal of Digital Forensics, Security and Law 5(4): 43-64.

12. Jones, A. (2010) "How do you make information security user friendly?" Information Security Technical Report 14(4): 213-216.
13. Kessler, G. and D. Haggerty (2010). "An Online Graduate Program in Digital Investigation Management: Pedagogy and Overview." Journal of Digital Forensic Practice 3(1): 11-22.
14. Lessard, J. and G. Kessler (2010). "Android Forensics: Simplifying Cell Phone Examinations." Small Scale Digital Device Forensics Journal 4(1): 1-12.
15. Mislán, R., E. Casey, et al. (2010). "The Growing Need for On-Scene Triage of Mobile Devices." Digital Investigation 6(3-4): 112-124.
16. Szewczyk, P. S. (2010). "The ADSL Router Forensics Process." Journal of Network Forensics 2(1): 4-13.
17. Tjhai, G., S. Furnell, et al. (2010). "A preliminary two-stage alarm correlation and filtering system using SOM neural network and K-means algorithm." Computers & Security 29(6): 712-723.
18. Valli, C. (2010). "Developing VoIP Honeypots: a Preliminary Investigation into Malfeasant Activity." Journal of Digital Forensics, Security and Law 5(2): 35-44.

### Refereed Conference Papers

1. Aly, A. (2010). The Internet as Ideological Battleground 1st Australian Counter Terrorism Conference. A. Aly. Duxton Hotel, Perth, Western Australia, secAU - Security Research Centre, Edith Cowan University: 1-6.
2. Bailey, W. J. (2010). Hearts and Minds, Psuedo Gangs and Counter Insurgency: Based Upon Experiences from Previous Campaigns in Kenya (1952-60), Malaya (1948-60) & Rhodesia (1964-1979). Proceedings of the 1st Australian Counter Terrorism Conference. D. A. Aly, secAU, ECU: 7-14.
3. Barker, J. E., Hannay, P., Bolan, C.M. (2010). Using Traffic Analysis to Identify Tor Usage – A Proposed Study. Proceedings of the 2010 International Conference on Security & Management, SAM 2010. K. D. Hamid R. Arabia, Michael R. Grimaila, George Markowsky, CSREA Press. 2: pp.620-623.
4. Beard, B., Brooks, D.J. (2010). A comparison of laboratory and vulnerability evaluation methods for the testing security equipment. Proceedings of the 3rd Australian Security and Intelligence Conference. D. Brooks, Edith Cowan University: 1-13.
5. Bhamra, S. S. (2010). The 2010 Personal Firewall Robustness Evaluation. Proceedings of the 8th Australian Digital Forensics Conference. D. A. Woodward, secAU-Security Research Centre: 18-30.
6. Braes, B., Brooks, D.J. (2010). Organisational resilience: A propositional study to understand and identify the essential concepts. Proceedings of the 3rd Australian Security and Intelligence Conference. D. Brooks, Edith Cowan University: 14-22.
7. Brand, M.W., Valli, C., Woodward, A.J. (2010). Lessons Learned from an Investigation into the Analysis Avoidance Techniques of Malicious Software. 8th Australian Digital Forensics Conference. Dr Andrew Woodward. Duxton Hotel, Perth Western Australia. secAU Security Research Centre Edith Cowan University. pp 31-38.

8. Brand, M.W., Valli, C., Woodward, A.J. (2010). Malware Forensics: Discovery of the Intent of Deception. 8th Australian Digital Forensics Conference. Dr Andrew Woodward. Duxton Hotel, Perth, Western Australia. secAU Security Research Centre Edith Cowan University. 39-45.
9. Brooks, D. J., Corkill, J., Pooley, J., Cohen, L., Ferguson, C., & Harms, C. (2010). National security: A propositional study to develop resilience indicators as an aid to personnel vetting. Paper presented at the 3rd Australian Security and Intelligence Conference, Perth.
10. Brooks, D. J. (2010). Assessing vulnerabilities of biometric readers using an applied defeat evaluation methodology. The Proceedings of the 3rd Australian Security and Intelligence Conference. D. Brooks, Edith Cowan University: 23-34.
11. Cheng, T. C., Woodward, A.J. (2010). An investigation into the efficacy of three erasure tools under Windows 7. The Proceedings of the 8th Australian Digital Forensics Conference. D. A. J. Woodward, secAU Security Research Centre Edith Cowan University: 162-168.
12. Cook, D. and Smith T "The Malarkey of Money Transfers: Overlooking E-Bay whilst the Hawaladars are Hunted", 1st Australian Counter Terrorism Conference, Dec 1st secAU Security Congress.
13. Cook, D.M. (2010) "Mitigating Cyber-Threats Through Public-Private Partnerships: Low Cost Governance with High Impact Returns," in The 1st International Cyber Resilience Conference, Perth, Western Australia: secAU - Security Research Centre, Edith Cowan University, 2010, pp. 22-30.
14. Cook, D.M. (2010) "The Use of Governance to Identify Cyber Threats Through Social Media," in The 1st International Cyber Resilience Conference, Perth, Western Australia: secAU - Security Research Centre, Edith Cowan University, 2010, pp. 31-40.
15. Dardick, G (2010) Cyber Forensics Assurance, 8th Australian Digital Forensics Conference. Dr Andrew J Woodward. Duxton Hotel, Perth, Western Australia. secAU Security Research Centre Edith Cowan University. 57-64
16. Fowle, K. G. (2010). The Science, The Technology, The Law. Proceedings of the 8th Australian Digital Forensics Conference. A. Woodward, secAU Security Research Centre, ECU: 65-74.
17. Griffiths, D., James, P.A. (2010). Fireguard - A secure browser with reduced forensic footprint. Proceedings of the 8th Australian Digital Forensics Conference. D. A. Woodward, secAU, ECU: 75-91.
18. Griffiths, M., Brooks, D. J., & Corkill, J. (2010). Defining the security professional: Definition through a body of knowledge. Paper presented at the 3rd Australian Security and Intelligence Conference, Perth.
19. Hannay, P. & Bolan, Christopher (2010) The 2010 IDN Homograph Attack Mitigation Survey Proceedings of the 2010 International Conference on Security & Management, SAM 2010, Las Vegas Nevada, USA
20. Harris, K. J. (2010). Review: Disillusionment with radical social groups. Proceedings of the 1st Australian Counter Terrorism Conference. D. A. Aly, secAU, ECU: 31-39.
21. Hearn, K., Williams, P.A.H. & Mahncke, R.M. (2010). International relations and cyber attacks: Official and unofficial discourse. In P.A.H. Williams (Ed.) Proceedings of the 11th Australian

Information Warfare and Security Conference, secou- Security Research Centre, Edith Cowan University, Perth, WA

22. Hocking, C., S. Furnell, et al. (2010). A distributed and cooperative user authentication framework. Sixth International Conference on Information Assurance and Security (IAS). Atlanta, USA, IEEE: 304-310.
23. Hutchinson, W. E. (2010). Influence Operations : Action and Attitude. 11th Australian Information Warfare Conference. P. Williams. Duxton Hotel, Perth, Western Australia, secou - Security Research Centre: 13-17.
24. Hutchinson, W. E. and M. J. Warren (2010). Influence operations and behavioural change. 9th European Conference on Information Warfare and Security. J. Demergis. Thessalonica, Greece, Academic Publishing Limited: 116-119.
25. Ibrahim, T., S. Furnell, et al. (2010). Assessing the Usability of End-User Security Software. TrustBus 2010 - 7th International Conference on Trust, Privacy and Security in Digital Business S. Katsikas, J. Lopez and M. Soriano. Bilbao, Spain, Springer-Verlag. LNCS 6264: 177-189.
26. Johnstone, M. N. (2010). Threat modelling with Stride and UML. 8th Australian Information Security Management Conference. C. Bolan. Duxton Hotel, Perth, Western Australia, secou – Security Research Centre, Edith Cowan University: 18-27.
27. Jones, A. and T. Martin (2010). Making Information Security Acceptable to the User. 2010 International Cyber Resilience Conference. C. Valli. Duxton Hotel, Perth, Western Australia, secou - Security Research Centre, Edith Cowan University: 51-57.
28. Jones, A., C. Valli, et al. (2010). The 2009 Analysis of Information Remaining on Disks Offered for Sale on the Second Hand Market 8th Australian Digital Forensics Conference. A. Woodward. Duxton Hotel, Perth, Western Australia, secou - Security Research Centre, Edith Cowan University: 92-105.
29. Kerai, P. L. (2010). Remote Access Forensics for VNC and RDP on Windows Platform. 8th Australian Digital Forensics Conference. A. Woodward. Duxton Hotel, Perth, Western Australia, secou - Security Research Centre, Edith Cowan University: 106-116.
30. Kerai, P. L. (2010). Tracing VNC and RDP protocol artefacts on Windows mobile and Windows smartphone for forensic purpose. The 1st International Cyber Resilience Conference. C. Valli. Duxton Hotel, Perth, Western Australia, secou - Security Research Centre, Edith Cowan University: 58-68.
31. Krey, M., B. Harriehausen, Knoll, M. Furnell, S. (2010). IT Governance and its impact on the Swiss Healthcare. 12th International Conference on Computer Modelling and Simulation (UKSIM 2010). Cambridge, UK: 340-345.
32. Li, F., N. Clarke, et al. (2010). Behaviour profiling on mobile devices. 2010 International Conference on Emerging Security Technologies (EST) IEEE: 77-82.
33. Masek, M., A. Boeing, et al. (2010). Critical infrastructure protection risk modelling with games technology. What kind of information society? Governance, Virtuality, Surveillance, Sustainability, Resilience. J. Berleur, M. D. Hercheui and L. M. Hilty. Brisbane, Australia, Springer. 328: 363-372.

34. McDermid, D. C., R. J. Mahncke, et al. (2010). An Information Security Governance Encounter for Australian Primary Care Health Providers. 2010 International Conference on Security & Management. H. R. Arabnia, K. Daimi, M. R. Grimaila et al. Las Vegas, Nevada, USA, CSREA Press, USA: 637-643.
35. McDermid, D. C., Mahncke, R.J. and Williams, P. A. H. (2010). An information security governance framework for Australian primary health care providers. In C. Bolan (Ed.) Proceedings of the 7th Australian Information Security Management Conference, secAU - Security Research Centre, Edith Cowan University, Perth, WA.
36. Mahncke, R. & Williams, P.A.H. (2010). Small Business - a cyber resilience vulnerability? In C. Valli (Ed.) Proceedings of the The 1st International Cyber Resilience Conference. Duxton Hotel, Perth, Western Australia, secAU - Security Research Centre, Edith Cowan University:
37. Nur-E-Alam, N., Vasiliev, M., Alameh, K. and Valli, C.(2010) "Magneto-Optical Visualisation for High-Resolution Forensic Data Recovery Using Advanced Thin Film Nano-Materials," in The 1st International Cyber Resilience Conference, Perth, Western Australia: secAU - Security Research Centre, Edith Cowan University, 2010, pp. 78-82.
38. O'Rourke, S. J. (2010). The emergent challenges for policing terrorism: Lessons from Mumbai. 1st Australian Counter Terrorism Conference. A. Aly. Duxton Hotel, Perth, Western Australia, secAU - Security Research Centre, Edith Cowan University: 45-53.
39. Patel, N. and Williams, P. A. H. (2010). Breaches in medical information security: The problem of reporting. 2010 International Conference on Security & Management. H. R. Arabnia, K. Daimi, M. R. Grimaila et al. Las Vegas Nevada, USA, CSREA Press. II: 633-636.
40. Pung,W. and Woodward,A.J. (2010). Does the use of MIMO Technology used by 802.11n Reduce or Increase the Impact of Denial of Service Attacks?. 8th Australian Digital Forensics Conference. Dr Andrew J Woodward. Duxton Hotel, Perth, Western Australia. secAU Security Research Centre Edith Cowan University. 135-141.
41. Sargent, R. A. and D. J. Brooks (2010). Terrorism in Australia: A psychometric study into the Western Australian public perception of terrorism. 3rd Australian Security and Intelligence Conference. D. Brooks. Duxton Hotel, Perth, Western Australia, secAU - Security Research Centre: 63-72.
42. Shauchenka, H., Bleimann, U., Knoll, M., & Clarke, N. (2010). Service Quality Assessment in Distance Learning. Paper presented at the Eighth International Network Conference, Heidelberg, Germany:269-277
43. Sutherland, I., Davies, G., Jones, A., & Blyth, A. (2010). Zombie Hard Disks - Data from the Living Dead. 8th Australian Digital Forensics Conference, Duxton Hotel, Perth, Western Australia. Western Australia. secAU - Security Research Centre, Edith Cowan University:156-161
44. Szewczyk, P., Valli, C. (2010). Ignorant Experts: Computer and Network Security Support from Internet Service Providers. IEEE 4th International Conference on Network and System Security, Crown Conference Centre Melbourne, Victoria:323-327
45. Szewczyk, P. (2010). Security Information Supplied by Australian Internet Service Providers, 8th Australian Information Security Management Conference, Duxton Hotel, Perth, Western Australia, secAU - Security Research Centre, Edith Cowan University:138-143

46. Talib, S., Clarke, N., Furnell, S. (2010). An Analysis of Information Security Awareness within Home and Work Environments. Availability, Reliability and Security, 2010. ARES '10. International Conference on, IEEE: 196-203.
47. Valli, C. and P. Hannay (2010). Geotagging Where Cyberspace Comes to Your Place. 2010 International Conference on Security & Management (SAM '10). H. R. Arabnia, et.al., Las Vegas, Nevada, USA, CSREA Press. 2: 627-630.
48. Valli, C. and M. H. Al Lawati (2010). Developing VoIP Router honeypots. 2010 International Conference on Security & Management. H. R. Arabnia, et.al., Las Vegas, Nevada, USA, CSREA Press. 2: 615-619. USA
49. Valli, C. (2010) Developing VoIP Honeypots: a Preliminary Investigation into Malfeasant Activity, The 2010 ADFSL Conference on Digital Forensics, Security and Law, May 19-21, 2010:
50. Valli, C., (2010) An Analysis of Malfeasant Activity Directed at a VoIP Honeypot," in 8th Australian Digital Forensics Conference, Duxton Hotel, Perth, Western Australia: secau - Security Research Centre, Edith Cowan University, 2010, pp. 169-174.
51. Valli, C. and Al Lawati, M. (2010) "Developing Robust VoIP Router Honeypots Using Device Fingerprints," in The 1st International Cyber Resilience Conference, Perth, Western Australia: secau - Security Research Centre, Edith Cowan University, 2010, pp. 90-96.
52. Warren, M., G. Pye, et al. (2010). Australian critical infrastructure protection: A case of two tales. 11th Australian Information Warfare and Security Conference. P. Williams. Duxton Hotel, Perth, Western Australia, secau - Security Research Centre, Edith Cowan University: 30-36.
53. Williams, P.A.H. (2010). Improving Medical Information Security using Contextualization Models. In A. Ware (Ed.), Annual International Conference on Infocomm Technologies in Competitive Strategies (ICT 2010), pp65-68. Singapore, Global Science and Technology Forum (GSTF).
54. Williams, P.A.H. (2010). Is cyber resilience in medical practice security achievable? In C. Valli (Ed.) Proceedings of the International Cyber Resilience Conference. pp. TBA Perth: Edith Cowan University.
55. Williams, P. A. H. (2010) An ill-defined problem – effective biomedical informatics curriculum? In D. Hansen, L. Schaper, & D. Rowlands, (Eds.), Proceedings of the HIC2010 Informing the Business of Health Care, International Conference, pp. 101-108. Health Informatics Society of Australia Ltd, Sydney, Australia.
56. Williams, P. A. H. (2010). Medical Information Security: Is it all too hard? In H.R. Arabnia & S. Aissi (Eds.) Proceedings of the 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing – SAM'10 – The 2010 International Conference on Security & Management (2nd edition), pp.TBA. USA: CSREA Press.
57. Williams, P.A.H. (2010). Information Warfare: Time for a redefinition. In P.A.H. Williams (Ed.) Proceedings of the 11th Australian Information Warfare and Security Conference, secau - Security Research Centre, Edith Cowan University, Perth, WA.
58. Williams, P.A.H., Scott, R, and Paine, D. (2010). An Engaging Leadership Framework (ELF) Project investigating how Gen Y students learn, in ECulture 2011: Educating for Employability. 2010, CLD: Edith Cowan University.

59. Woodward, A. and Valli, C. (2010) "Which Organisational Model Meets Best Practice Criterion for Critical Infrastructure Providers: An Examination of The Australian Perspective Based on Case Studies," in The 1st International Cyber Resilience Conference, Perth, Western Australia: secaw - Security Research Centre, Edith Cowan University, 2010, pp. 118-125.

**HIGHER DEGREE BY RESEARCH LOAD** (list name of candidate and degree type)

1. Sunsern Limwiriyakul DIT
2. Nattakant Uttakrit DIT
3. Krishnun Sansurooah DIT
4. Patryk Szewczyk PhD
5. Peter Hannay PhD
6. Marwan Al Zarouni DIT
7. Simon O'Rourke PhD
8. David Shaw PhD
9. David Cook PhD
10. Glenn Thompson PhD
11. Kira Harris PhD
12. William Bailey, PhD
13. Robert Doleman, PhD
14. Bruce Braes, PhD
15. Christopher Phinney, PhD
16. Melvyn Griffith, PhD
17. Olly D'Souza, PhD
18. Jeff Corkill, PhD
19. Michael Coole, MSc

**HIGHER DEGREE BY RESEARCH COMPLETIONS** (List name, degree, title of thesis)

Simon O'Rourke, PhD, An Ideal Police Intelligence Model for Terrorist Incident Prevention: An Exploration of Worldviews of Counter Terrorist Intelligence to Develop a Model for use by Australian Police