

# AARNews



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Ben Self presents to CAUDIT members via ozeconference

## CEO's Report

2009 year is a special year for the AARNet community - we celebrate our 20th birthday signifying 20 years of Internet in Australia. I will keep you informed of further developments on this milestone in upcoming issues of AARNews.

Although we are only several months into the year, traffic levels for 2009 show the positive effects of peering initiatives and their absorption into the On-Net membership formula. On-Net traffic has increased by over 200%, including domestic peering, with total traffic growth year-to-date in excess of 40%. For the first time, On-Net traffic now represents more than 50% of total traffic.

There have been many activities so far this year; following are some of the highlights.

AARNet kicked off the "Year of Astronomy" in early January with an e-VLBI demonstration that included 3 telescopes in Australia linking with 14 other telescopes around the world in real time for a 33 hour observing period. AARNet also held a cocktail party/demonstration at the University of Western Australia entitled "Towards SKA Readiness" along with the CSIRO, UWA and Curtin University.

For the first time, a sector wide video conference was held for all CAUDIT CIOs presented by Ben Self, the Web Campaign Manager for President Barack Obama. Twenty-one Universities attended, including Auckland University with over 40 participants in total.

An Australian Access Federation (AAF) pilot has been established with CAUDIT taking responsibility for ensuring that an AAF will be available to the Australian research and education community. A pilot AAF technical infrastructure is being deployed at QUT and ARCS and this platform will be operational in 2009 - AARNet has been actively involved in this initiative.

AARNet, in combination with leading Universities, submitted two bids for the \$1 billion in funding in the second round of the Education Investment Fund. The bids included a replacement of the

Sydney Basin Fibre network (led by the Australian Catholic University), and an extension of the network in WA (including a Perth fibre ring, fibre from Perth to Geraldton and Bunbury, lighting the second fibre to Adelaide, and fibre from Ceduna to the Nullarbor link).

AARNet has begun to develop its first National Collaborative Network extension for the ARCS members. This entails a dedicated virtual private network linking iVEC, eRSA, VPAC, TPAC, NCI, Intersect and QCIF. ARCS plans to conduct grid computing and similar experiments not previously possible across the conventional AARNet3 shared backbone.

It is again shaping up as a significant year for AARNet with the culmination of the Bradley Review, the National Review of Innovation, the National Broadband Network roll-out and the acceleration of the Digital Education Revolution, as well as standing ready to respond to Government stimulus packages and the next phase of the NCRIS roadmap. I will update you on the further initiatives as the year unfolds.

Chris Hancock  
*Chief Executive Officer*

## FOCUS ON...

### EVO: A new communication and collaboration tool for researchers

The Australian Research Collaboration Service (ARCS) with the support of AARNet recently launched a cutting-edge communications tool called EVO (Enabling Virtual Organisations) that has been designed for use by the education and research sectors. Connected to their backbone AARNet initially installed two EVO servers and is in the process of installing another two servers to assist ARCS in providing researchers with this robust and reliable video collaboration system.

EVO is the only Desktop Video Conferencing system that can be run on Windows, Macintosh and Linux operating systems. The new service provides video conferencing, file sharing, instant messaging, desktop sharing, whiteboard and provides telephone bridge access at a local call rate from anywhere in Australia.

EVO provides a one-to-one, one-to-many or many-to-one video conferencing system that makes it highly adaptable for many requirements. It runs on the average desktop, turning PCs into video conference systems.

With increasing demands to reduce our impact on the environment, EVO enables companies and individuals to reduce their impact on



Enabling a virtual organisation on the screen

the environment and their travel costs by enabling researchers at different locations to communicate face-to-face without having to leave their desks.

A number of research organisations have adopted EVO as a preferred collaboration tool to connect to other research colleagues including IMOS, AUSCOPE, Square Kilometre Array, ANDS and many other project groups.

At this stage, approximately 30 researchers at Monash are using EVO on a regular basis within their pilot program creating real time collaboration between internal and external researchers.

Users communicate from their own PC, making the system almost as convenient as using a telephone, but with the added ability to connect more than two people.

Paul Bonnington, Director of eResearch at Monash University has used EVO for almost two years. He said "EVO is a user-driven tool that gives control to the researchers. They are able to manage all the communication elements of a meeting and are not reliant upon facilities or technical resources to enable collaboration".

To sign up for a free EVO account, simply log on to [www.arcs.org.au](http://www.arcs.org.au).

## Towards SKA Readiness

ICRAR (The International Centre for Radio Astronomy Research) was officially launched on 11 March 2009 with a demonstration of a real time e-VLBI correlation conducted in Perth from data transferred from radio telescopes located in New South Wales and Tasmania. The results of the 3.2Gbps sustained throughput was displayed to the audience and conclusively demonstrated Australia's ability to perform real time trans-continental radio astronomy, an important step in Australia's bid to host the Square Kilometre Array (SKA).

Prof. Brian Boyle, CSIRO SKA Director said, "Western Australia is an excellent location for future large scale radio astronomy infrastructure because of its remoteness and the clear, noise-free view of the rich Southern Hemisphere skies it offers astronomers. The extensive national collaboration that has wrought this technical advance, not only highlights our capabilities in this domain, but also points the way towards SKA readiness for Australia."

Prof. Steven Tingay, ICRAR Deputy Director said, "The transfer speeds achieved during last night's demonstration were close to 500 times faster than consumer broadband speeds. The SKA will require an improvement multiplied by a factor of several hundred on this data transfer speed, to support the science goals of the SKA".



(left to right) Greg Wickham (AARNet), Tasso Tzioumis (CSIRO), Chris Phillips (CSIRO), Prof. Brian Boyle (CSIRO), Brett Rosolen (AARNet), Shaun Amy (CSIRO), Ivan Phillips (AARNet), Mike Groeneweg (AARNet), Prof. Steven Tingay (ICRAR), Guido Aben (AARNet)



Professor Steven Tingay

## SPOTLIGHT ON...

### ARCS

The Australian Research Collaboration Service (ARCS) offers a range of cutting-edge eResearch tools and services. The ARCS Mission is to enable and enhance research through the provision of long-term eResearch support, services and tools for the Australian research community. ARCS is a collaborative venture of ANU, CSIRO, eRSA, Intersect, iVEC, QCIF, TPAC and VPAC, referred to as the Member of ARCS (MARCS), with a particular focus on interoperability, collaboration and authorisation infrastructure. As a result, ARCS is increasingly being promoted as the preferred vehicle for coordinating national eResearch support services.

ARCS operates through coordinated national teams delivering high quality, reliable,

standardised, hardware infrastructure and enhanced software tools and solutions to national research groups such as AuScope, ABIN, TERN, IMOS and many others. These teams work in close collaboration with the staff in the "MARCS" as well as other NCRIS capabilities and discipline-based communities.

The ARCS teams offer services in video-collaboration; shared web workspaces, data sharing and transfer through the ARCS Data Fabric; remote access to computing through the ARCS Compute Cloud; authorisation and access management; and special projects with specific discipline-based communities. These teams have built, and continue to form alliances with international cognate organisations that contribute to the development of international standards and activities in eResearch.



Professor Tony Williams, Executive Director ARCS

There is no charge for the use of generic ARCS Services by legitimate members of the Australian research community. For more information about ARCS and its services, please visit [www.arcs.org.au](http://www.arcs.org.au).

## Pilot Australian Access Federation leaps ahead

CAUDIT, under the leadership of Neil Thelander, has taken responsibility for ensuring that a fully functional Australian Access Federation (AAF) will be available to the Australian research and education community and service providers. Neil will chair the Pilot AAF Steering Committee, and a pilot AAF technical infrastructure is being rapidly deployed at QUT and ARCS. This pilot platform will be operational early in March 2009.

In parallel, the Pilot AAF Policy Group chaired by Paul Sherlock, Deputy Chair of CAUDIT, is developing the AAF Rules of Membership, Operator Procedures and Draft Constitution.

The Pilot AAF Steering Committee comprises the foundation members who have contributed \$50,000 or equivalent each in seed funds with support from DIISR, AeRIC and AARNet. The foundation members are: Edith Cowan, Griffith, Macquarie, Monash, QUT, UniSA, UQ, UTas, ARCS and CSIRO.

The pilot project includes the selection of and transition to a production service provider within twelve months. The notes of the Pilot AAF Steering Committee meetings will be circulated promptly to ensure that all CAUDIT members are fully informed of progress towards the production AAF in 2010.

*(with thanks to CAUDIT for allowing this article to be reprinted)*

## EDUCAUSE comes to WA

Perth, Western Australia will be host to the EDUCAUSE Australasia Conference to be held 3-6 May 2009 at the Perth Convention Exhibition Centre. This is the premier event for professionals working in higher education who manage technologies to advance scholarship, learning and teaching. With the theme Innovate, Collaborate & Sustain, this conference will explore the challenges in areas such as how to innovate in the knowledge economy, collaboration with virtual teams and the ever present green agenda and action.

EDUCAUSE is a non-profit association whose mission is to advance higher education by promoting the intelligent use of information technology. Without doubt, EDUCAUSE Australasia is the premier event for key decision makers managing knowledge technologies in tertiary education. EDUCAUSE Australasia is the only event sanctioned by the parent body to be held outside the United States, with the last in Melbourne in 2007. EDUCAUSE Australasia is unique in that it attracts a comprehensive range of senior decision makers across the whole spectrum of Information Technology, Teaching and Learning, Library and Knowledge Management. It is the one "must attend" event for in excess of 500 key decision

makers from the higher education section throughout Australia, New Zealand and the Asia Pacific Region.

Chris Foley

Conference Chair, EDUCAUSE Australasia 2009  
<http://www.caudit.edu.au/educauseaustralasia09>



Chris Foley, IT Director, Murdoch University

## CAUDIT Ozeconference

AARNet OzeConferences in 2009 started with a bang – on 17 February we had the pleasure of hosting a CAUDIT OzeConference featuring Ben Self, Barack Obama's online campaign technology director. On his visit to Australia as a special guest of the Internet Industry Association (IIA), Ben Self outlined the power of social media channels such as YouTube, Facebook, Twitter and email in driving participation and feedback from local communities and grassroots organisations during the recent US Presidential campaign.

Using the NVCS MCU booking and bridging service, and with significant involvement from all members of the Applications and Services team, AARNet played host to a record number of CIOs at 22 universities across Australia and New Zealand and utilised the full capacity of the NVCS bridging services. The conference was chaired by QUT ITS Director Neil Thelander and showcased the power of high definition video communications in linking together these disparate sites on many different mediums from high end fully integrated video conferencing systems to PC based desktop video conferencing software.

## John Mullarvey

John Mullarvey, former CEO of the Australian Vice Chancellors Committee, passed away in Canberra in February this year aged 58. John joined the AVCC from the Commonwealth Department of Employment, Education and Training in 1989; the same year that AARNet was established. He worked for the AVCC until his retirement in 2006, just prior to the creation of Universities Australia. The staff of AARNet would like to acknowledge the significant contribution made by John towards the creation and early development of AARNet.



John Mullarvey

## AARNet-K12

### Ruby Moon.

An exciting new collaboration with Msquared Productions, Stellar Marist Catholic School in Manly (NSW) and AARNet will see the theatre production of the HSC text 'Ruby Moon' delivered to remote schools via High Definition Video Conferencing.

Key outcomes of this project will be the translation of high quality production values from the stage to the classroom, and the opportunity for remote students to interact with the characters of the play in a 15-minute student participation session at the conclusion of each performance.



Life appears to be picture perfect in Flaming Tree Grove. That is at least until little Ruby Moon sets off to visit her grandma and is never seen again...

### AARNet-K12: A National Network of 'Well Connected' Schools

AARNet is continuing its engagement with a range of schools, and special education content providers across Australia to bring together a national network of 'Well connected' schools; the first of its kind in Australia. Another six schools in NSW, Queensland, South Australia and Tasmania will connect to AARNet via fibre optic cable at a speed of 1 Gigabit per second. Providing schools with this level of capability ignites a paradigm shift in the way teaching and learning is provisioned and accessed.

### K12/Vocational Stream at Questnet

Held in early July, this year's Questnet conference will herald the inaugural K12 and Vocational Education and Training Stream and will explore the opportunities for strategic collaboration across the international academic and research network infrastructure.

The program brings together thought leadership and expertise from both Australia and overseas with the confirmed keynotes including: Michael Foley (World Bank) a leading distance learning specialist, who designed and implemented the pedagogical and technical approach of the Global Development Learning Network; and Dr Larry Fruth, Executive Director of the Schools/Systems Interoperability Framework (SIF) Association.

## TAFE Pilot

Stone masonry has existed since the dawn of civilisation and now it will be taught using VetVirtual, the latest in digital integrated technologies. AARNet will host VetVirtual as an on-net application under the Australian Government's TAFE Proof of Concept Project.

The Australian Government is collaborating with the governments of SA, Victoria and the ACT to test the concept of a vocational education and training network. AARNet is keenly interested in the outcomes of this proof-of-concept, and will support this process where it can, for example by providing access to its network and connected content sources.

AARNet has been a longstanding proponent of the concept of an Australia-wide TAFE network, believing that an asset-based networking approach is as applicable to the VET sector as it has been for the R&E sector. AARNet participated in the Australian Flexible Learning Framework's "Access to Bandwidth" programs in 2006 and 2007, which tested the introduction of gigabit broadband into selected TAFE colleges and the effects on cross-jurisdictional teaching and learning in the VET sector (see AARNews 4/2006 and 9/2007). VetVirtual, the video conferencing and electronic whiteboarding application was developed under this Access to Bandwidth Project.

In parallel, AARNet has also been encouraging more TAFE colleges to connect, and is pleased to welcome William Angliss TAFE and Wodonga TAFE (both in Victoria).



Teaching the oldest craft of stone masonry with HD video-conferencing

## Monash Students present Cyberinfrastructure Research via AARNet Videoconference

Four Monash University students have just completed their eight week research experiences at the University of California San Diego (UCSD). They each gave presentations from the UCSD division of the California Institute for Telecommunications and Information Technology's (Calit2) during a live high definition videoconference back to Australia over AARNet. Live video of the audiences in both locations was also streamed back to the studio.

The interactive set-up enabled the students to present their research projects to both their Monash and UCSD mentors simultaneously. Their UCSD mentors included researchers affiliated with Calit2 and the San Diego Supercomputer Center (SDSC).

The students are the first to come to UCSD to do a summer of research under a new initiative at Monash – the Monash Undergraduate Research Projects Abroad (MURPA).

MURPA is modeled on UCSD's highly successful Pacific Rim Experiences for Undergraduates (PRIME) program which provides UCSD undergraduates with the unique opportunity of doing real research while living in one of several Pacific Rim countries for the summer. Students are placed for a period of eight weeks, which allows them to integrate into research groups as team members and work with mentors at both the host institution and at UCSD.

Monash University has been involved in PRIME since it first started, hosting projects across a

wide range of subjects. MURPA also introduced an advanced seminar scheme in which students can attend seminars given by world leading experts by using a high definition interactive video link to the University of California making it possible to attract some of the world's best researchers "virtually" to Monash. These seminars allow students to meet potential UCSD mentors and get some information about potential projects.

"Both the MURPA and PRIME students are learning far more than the specific science or technology around their science," concluded Peter Arzberger of PRIME, "they are learning about working in a multidisciplinary, multicultural team of researchers."

*(Original text by Maureen C. Curran at UCSD)*

<https://messagelab.monash.edu.au/MURPA>  
<http://prime.ucsd.edu>



Presenters could see and interact live with the Australian audience (on large 50" plasma screen, top of photo) and the participants from Japan (on the laptop monitor, under the plasma screen). In the left corner of the view from Japan (laptop), the inset image is the speaker at the podium with slide on speakers' left.



(left to right) Monash students Hoang Nguyen, Peter Serwylo, Guanghua (Aimee) Li and Nicholas Barnes

## New Chair of the AARNet Advisory Committee (AAC)

AARNet would like to welcome Richard Constantine, the CIO of the Swinburne University of Technology, as the new Chair of the AAC. Richard has been a member of the AAC for several years representing the Victorian universities.

Richard replaces John Parry from the University of Tasmania who will continue to represent Tasmania on the AAC. John's contribution as a member of the AAC for over ten years, its Chair for the past four years, as well as a member of the Board, have all been very greatly appreciated.

The AAC represents the interests of AARNet's customers and is a principal source of considered advice on policy and business matters. The AAC also provides advice and makes recommendations on technical and operational matters to the Chief Executive Officer and the AARNet Board. The Chair of the AAC is also a member of the AARNet Board, ex officio.

<http://www.aarnet.edu.au/about-us/aarnet-advisory-committee.aspx>

[http://www.its.swinburne.edu.au/about\\_us/its\\_directorate](http://www.its.swinburne.edu.au/about_us/its_directorate)



Richard Constantine

## BITS AND BYTES

### » National Video Conference Service update

In late February, there were 332 users of the AARNet online conference booking system. The NVCS Quality Assurance scheme has assured 13 sites to date. <http://www.nvcs.edu.au>

### » New Gatekeeper service

AARNet recently upgraded its VoIP and video gatekeeper hardware. Customers will experience a single gatekeeper that centrally makes call routing decisions between endpoints from AARNet and peering partners. This will not only improve performance, but also troubleshooting activities. [http://www.aarnet.edu.au/Projects/2006/01/01\\_RTC-Infrastructure-Refresh.aspx](http://www.aarnet.edu.au/Projects/2006/01/01_RTC-Infrastructure-Refresh.aspx)

### » Video Collaborations Day at Monash University, 25 May 2009

AARNet is supporting a "video collaborations" event at Monash University. The event includes a range of talks about the next generation of video conferencing and the importance of 'ease of use' for users. To register for this free event go to <http://tinyurl.com/catn6q>. For more details contact [penelope.goward@its.monash.edu.au](mailto:penelope.goward@its.monash.edu.au).

### » Telepresence/High Definition product assessment report now available

A High Definition Video and Telepresence product assessment paper has been developed and is available to AARNet customers and

participating vendors by registering at <http://tinyurl.com/NVCSHDReport>.

### » Streaming Media Project Group Update

The Streaming Media Project Group will act as a self-support community to assist in the greater deployment and use of video streaming and content delivery services across the network. Roy Meuronen from the ANU has been elected Chairman. More information is available at <https://wiki.aarnet.edu.au/display/MediaStreaming/Home>.

### » Eduroam Project Group Update

Conrad Dare-Edwards from CSU was elected Chairman of the new group which met for a two-day workshop at Swinburne University in February. The group successfully completed a real time monitoring solution for eduroam services and a Google Maps platform to publish eduroam coverage and support information. More information is available at <http://www.eduroam.edu.au>.

### » Desktop Video Project Group Update

The Desktop Video Project Group (DVPG) is evaluating desktop-based video conferencing solutions in Australian Universities and Research institutions. Hans Schafer from UNE is the Chairman. The group's main aim is to deliver ad hoc video conference services to both on campus and off campus users. More information is available at <https://wiki.aarnet.edu.au/display/DesktopVCGroup/Home>.

## CineGRID Workshop

The CineGRID Workshop was held at Calit2, San Diego from 7-10 December 2008. This workshop provides a forum where members can discuss and demonstrate video technologies. The event was hosted by the California Institute for Telecommunications and Information Technology (Calit2) at the University of California, San Diego.

A core theme of the workshop is the practical application of technologies with many presentations stretching the boundaries of what is currently possible in the digital media space. Of the presentations a '4K' (video with a resolution of ~ 4096 x 3072 pixels) was streamed between sites in San Diego and Japan while the workshop auditorium also projected in.

Other presentations included: Mixing a film sound track using data networks to deliver audio, video and telemetry; an 8K resolution monitor; content from the CineGRID exchange; 4K DXT compression; 4K JPEG2000 compression; and updates over other relevant applications and technologies.

For more information on CineGRID refer to either <http://cinegrid.org> or contact the AARNet eResearch team.

## CUBIN Symposium on Sustainability of the Internet and ICT

The CUBIN Symposium on Sustainability of the Internet and ICT was held at the University of Melbourne on 25-26 November 2008. The main message was that data centres must become more energy efficient. 'PUE' (Power Usage Effectiveness) is a simple metric to describe the total power efficiency of a data centre. (In the US the EPA has set an indice of 1.2 as the current standard). Up to 50% of data centre power is wasted in cooling and distribution, with the remaining 50% available for servers. Therefore computers consuming 30Kw actually require a total energy input of 60Kw.

Other significant messages were that as computers become more energy efficient rather than reducing the power demand we'll end up with more computers (hence no effective drop in energy consumption); data centres located in cities are being forced to consider relocation due to high load on the electricity distribution grid; and statistics indicate that in India and China the utilisation of computers will increase significantly in the near future which in turn will place a greater strain on the environment.

## Conference Report

### AETM 2008 Conference

The annual Association of Educational Technology Managers (AETM) conference, an Audio Visual (AV) technical community event covered the management of lecture rooms/theatres, teaching spaces and learning environments. UQ showcased its teaching space and Flinders University presented its centralised control system to manage multiple AV rooms. Monash and Newcastle Universities gave insights into their audio/video equipped health areas for training purposes. Sony demonstrated their latest ultra high definition projector capable of a 4K (4096 x 2160) resolution.

Key debates covered (a) How to optimise existing buildings? (b) What to invest in the future, traditional teaching rooms, softer collaboration spaces, any time any place virtual collaboration platforms? (c) What applications can support any student device? (d) How can we move video conferencing from administration to teaching and learning use? and (e) How to converge facilities management, IT and AV teams to deliver new teaching spaces?

More details are available from the AETM website at <http://www.aetm.org/conference-2008/>

### Global Photonics Workshop

The 8th Annual International Photonics Workshop hosted by Calit2 in San Diego from 23-24 February 2009.

This workshop brought together leaders in Optical Networking to discuss current developments and to establish plans for collaborative projects. Several projects are leading the way. The most exciting is Project "Prompt" led by Bill St Arnaud in Canada which involves building a network with zero carbon emissions. Second, is Project "Greenlight" from Tom DeFanti at UCSD, which focuses on a low carbon portable data centre. Finally, Project NEDO, run by Satoshi Sekijuchi from Japan, is focused on measuring carbon emissions of server components.

SurfNet, the Research and Education Network for the Netherlands, presented on their use of lightpaths which currently totals about 10% of their traffic. Kees Neggers, SurfNet's CEO indicated they are using a Nortel Optical Modeler which is a very clever weather map of their Optical Circuits; in addition, SurfNet is currently organising its first 40Gbps link from the Netherlands to CERN in Geneva.

KEIO University in Japan has been granted US\$150M to evaluate the development of Next Generation Networking. It is also organising world

collaboration related to the solar eclipse on 22 July in which AARNet intends to participate.

### APAN 27 Kaohsiung Taiwan

The 27th Asia Pacific Advanced Network (APAN) Meeting was held in Kaohsiung Taiwan in conjunction with High Performance Computing Asia 2009 from 2-6 March 2009. Attendance was high with around 200 APAN delegates and 250 HPC Asia delegates. The two conferences held joint plenary sessions then broke into numerous separate streams including Medical Workshop, HDTV, e-Science, Middleware, IPv6 and e-Culture.

A TEIN3 (Trans Eurasian Information Network) reception was held to celebrate the launch of the new TEIN3 network this year and announcements were made of plans to extend TEIN3 to South Asia by the end of the year. This will include new research and education connections to Bangladesh, Bhutan, India, Nepal, Pakistan and Sri Lanka. Plans are also in the preliminary stages to facilitate and connect a new Central Asia Research and Education Network (CAREN). This may include Kazakhstan, Uzbekistan, Turkmenistan, Kyrgyzstan & Tajikistan.

The next APAN meeting will be held from 20-23 July in Kuala Lumpur Malaysia and APAN29 will be held in Sydney from 7-11 February 2010.

### Future Events

**Internet2 Spring Member Meeting,**  
27-27 April 2009, Arlington, Virginia

**Educause Australasia 2009,**  
3-6 May 2009, Perth

**CAUDIT General Meeting,**  
7-8 May 2009, Perth

**TERENA,**  
8-11 June 2009, Malaga, Spain

**QUESTnet2009,**  
7-10 July 2009, Royal Pines Resort, Queensland

**APAN28,**  
20-23 July 2009, Kuala Lumpur, Malaysia

**eResearch Australasia 2009,**  
9-13 November 2009, Sydney

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We welcome your suggestions/feedback.

If your institution can demonstrate an interesting/innovative use of the network please contact [aarnews@arnet.edu.au](mailto:aarnews@arnet.edu.au)

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### Staff Profile - Maggie Luczyncka

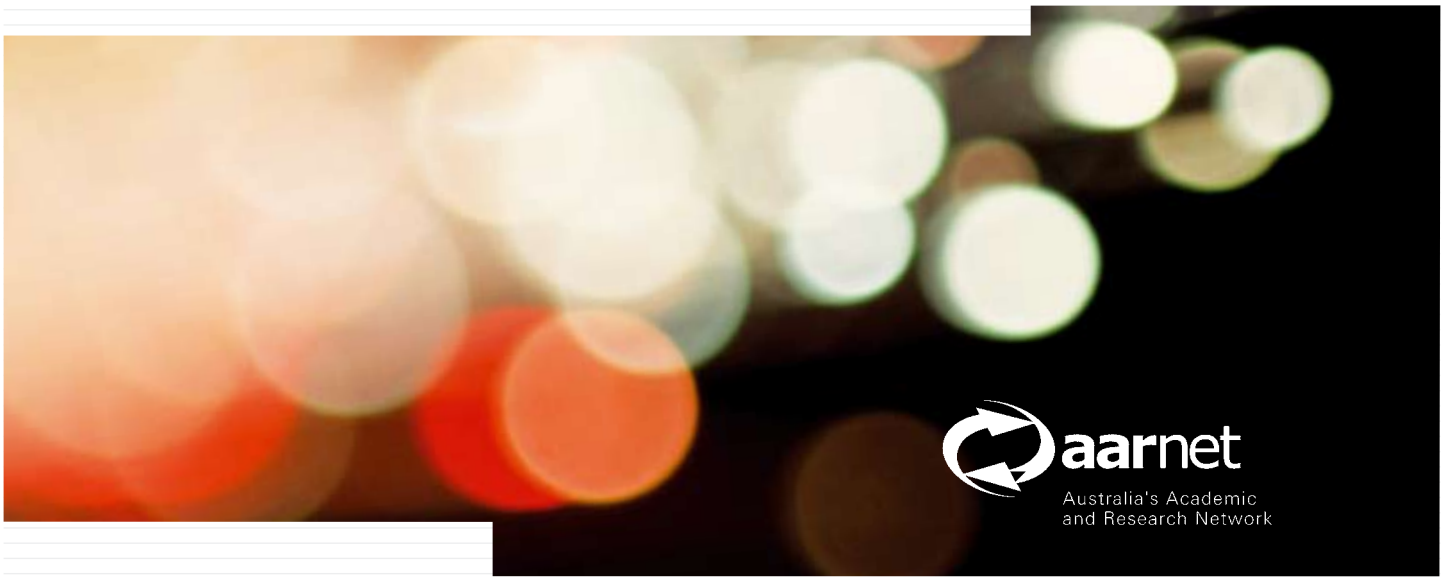
Maggie Luczynska had her first electricity lesson (electric shock) at the tender age of six when installing a wall light switch with her dad in native Poland. This electrifying experience only served to ignite her interest in physics, and after studying Applied Physics (Optoelectronics) she commenced her career in the telecommunication sector holding the position of Application Engineer where she started her journey into the "visual communications world". Maggie later gained her first Cisco certification but decided that her true calling was in video conferencing technologies.

Maggie's core focus within the Applications and Services team is to support video conferencing services for the sector, providing the Quality Assurance Scheme for video conference end-points and event management. She is responsible for the administration of the AARNet/NVCS booking and bridging services and for supporting the



internal standard and high definition VC rooms and desktop VC solutions in a multi-vendor environment.

Maggie lives in Melbourne with her husband Andrew. They enjoy both camping and bushwalking in the Australian outback as it gives them an opportunity to escape the range of mobile phones, emails and video cameras. She tries to maintain a degree of fitness by swimming, walking and cycling on a daily basis and less regularly enjoys scuba-diving and downhill skiing. Maggie loves French movies, especially "The City of Lost Children" which she admits to seeing at least ten times!



[www.aarnet.edu.au](http://www.aarnet.edu.au)