

**Recognition for C2C**

As in 2009, the C2C program was again one of three finalists in the prestigious SA Science Excellence Awards.

This provides considerable affirmation by South Australia's educational and industry communities that the program is contributing to the STEM and Workforce Development strategies of the State.

In addition, NAMIG's general manager, Bernie Fitzsimons, has also been selected as one of nine South Australians to receive a Churchill Fellowship. Bernie will undertake a study tour of USA and Canada in mid 2011 to study Project Based Learning programs that are similar to Concept2Creation.

**Funding**

NAMIG greatly appreciates the decision by the Department of Further Education, Employment, Science and Technology (DFEEST) and the Department of Trade and Economic Development (DTED) to jointly fund the program in 2011.

NAMIG continues to seek longer term commitment for the program by expanding and refining the popular C2C program, plus seeking greater coordination with complementary outreach programs and government strategies.

One example of this is NAMIG's collaboration to provide support for the three lead schools of the DMO-funded Advanced Technology Industry Pathways Program. These are Valley View Secondary School, which is already a strong participant of C2C, Henley High School and Aberfoyle Park High School.

**NAMIG Welcomes Clipsal – Schneider Electric**

Although Clipsal have been a minor partner of NAMIG in recent years, the consolidation of their operations at Gepps Cross and the opportunity to assess the potential for a range of forms of engagement with NAMIG has produced some exciting opportunities for C2C participants.

One particular feature of this strengthened relationship is the appointment of Jayne Elms to the NAMIG Board. Jayne is the Continuous Improvement Leader at Clipsal and her experience and enthusiasm has already impacted upon the Board and the development of C2C programs.

Given her title, it is no surprise that Jayne has offered access to 6SIGMA training as an option for the professional development of C2C teachers.

**RAAF Leadership**

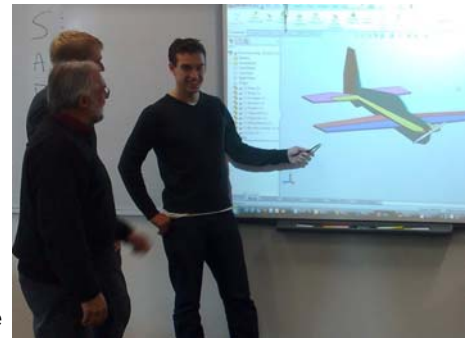
Our industry and tertiary partners continue to note that young people who are transitioning from school, not only require good results but a good grasp of employability skills and attitudes. These include communication, teamwork, problem solving, organisation and initiative.

So it was very greatly appreciated when staff at RAAF Edinburgh offered to provide the opportunity for local Year 12 students to develop an awareness of these skills and what strengths and challenges they had in being able to apply these to their future learning and work. Some thirty Year 12 students from C2C schools have piloted the program and we look forward to providing other opportunities in the future.

**Mentoring And More**

The union of a student who is undertaking his Honours in Aerospace Engineering within another who is completing his Honours in Design and Technology Education, has presented some great mutual benefits for several parties.

As a consequence of their work Jonathon Dansie and Joel Phillips have not only mentored some teachers through the assembly component of a design package but they have developed UAV models and teaching materials that will create a Year 9/10 component for an aviation pathway that could be followed through the middle and secondary years of schooling.

**BAE Systems C2C Scholarships**

An information session for the 2011 Tertiary Scholarships will be staged at Innovation House, Mawson Lakes on Friday 17 September. This will be the third year where three C2C students will be given the opportunity to undertake a TAFE or university engineering course that aligns with BAE's skills needs. Current recipients are thriving on the combination of cash support, paid work placement and the important influence of mentoring and buddying from BAE Systems and NAMIG.



## Expo 2010

The major celebration of 1600 students undertaking Concept2Creation projects will be staged on Wed 10 November 11.00/1.00 at Golden Grove Arts Centre.

His Excellency Rear Admiral Kevin Scarce AC CSC RANR, will visit this dynamic event in his capacity of patron for the C2C program.

This is a great opportunity for members of industry, education and community to appreciate the mutual benefits of Project Based Learning and to identify how they might join this dynamic partnership. No doubt, many readers will be invitees from previous expos. However, NAMIG extends a cordial welcome to other interested parties. Please feel free to register your interest with the NAMIG office (details below).

**Coming Events** (for full info contact the NAMIG office)

Tues 12 Oct 3.45-5.00  
Teachers Meeting re Expo,  
Valley View Secondary  
School

**Tues 19 Oct 4.30-6.00**  
**Industry Forum, Playford**  
**Civic Centre**

Fri 29 Oct 9.30-11.30  
Annual Review Meeting &  
Tour, Clipsal, Gepps Cross

Wed 10 Nov C2C Expo,  
Golden Grove Arts &  
Recreation Centre

Wed 24 Nov 9.30-11.30  
NAMIG AGM, Mawson  
Centre, Mawson Lakes

Tues 30 Nov 7.30-9.00  
Teachers Breakfast Meeting  
Mawson Lakes Hotel

## NAMIG

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## New Resources

In an effort to assist existing and new partners in becoming more familiar with the C2C program, the Coordination Team has been busy developing some new resources. In addition to the popular Industry and Education Information Packs and our informative [www.concept2creation.com.au](http://www.concept2creation.com.au) website, the following resources have been developed:

- “Concept2Creation - The Story of Success and Achievement” has been produced as an informative video that features footage of student teams with commentary by our patron and manager to provide a succinct introduction to the program.
- “The Journey from Concept2Creation” is a more instructional video that has been produced in collaboration with Valley View High School, to assist teachers with their implementation of the program.
- “Concept2Creation – Teacher Implementation Guide” is available in both print and electronic form to provide teachers with further support in their delivery of the program.

Copies are available from the NAMIG office or can be viewed at [www.concept2creation.com.au](http://www.concept2creation.com.au)

## C2C+



**BAE SYSTEMS**

**UAV Challenge** Highly successful induction and test days at RAAF Edinburgh have student teams tuned for their challenge day on 19 October. This will be the culmination of a project that involves far more than simply flying a model plane. Students need to work with their teachers and industry mentors to create a video navigation system and a drop mechanism, as well as ensuring that their craft has the power and control to perform in accordance with the team's calculations to perform the final challenge.

NAMIG thanks RAAF and our other partners from the aviation and electronics industries for supporting this popular project.

**SWAT Challenge** A visit to the Salisbury wetlands with representatives from BAE has set the scene for C2C students who are undertaking the SWAT challenge. Here they gained a first-hand appreciation of the need for a Suburban Wetlands Acquisition Telemetry vehicle to monitor water across the wetlands, particularly as this water source is developed as an alternative source for commercial and domestic consumption.

What will be the successful vehicle? We wait until teams present their creations and accompanying technical reports and evaluations to the judging panel. Will it be a quad helicopter, hovercraft or some other amphibious solution?



## Engineers Without Borders (EWB)

EWB requires teams to develop a wide range of engineering solutions with Third World communities. Following a successful pilot of the EWB Challenge, which is usually undertaken by engineering undergraduates, NAMIG is currently developing an EWB In Schools program. This has involved some consultation with the EWB office, three other states that have undertaken some EWB activity in schools and local schools that continue to implement this adaptation of the established model.

It is hoped that a more complete resource will assist teams to develop innovative solutions, to gain recognition for this learning within school curriculum and in time perhaps gain some prior recognition in relevant tertiary courses.

## Nanotechnology & Advanced Manufacturing

In May, C2C teachers were provided with a great opportunity to gain an insight into some of the applications of Nanotechnology in advanced manufacturing industries. The session was staged at the Wark Institute on the Mawson Lakes campus of UniSA. Besides gaining understanding of the technology required to work at the nano level, demonstration of a micro simulation of a minerals processing plant certainly provided participants with greater understandings of the interface between research facilities and industry, as well as some ideas for introducing this work to their students. NAMIG thanks the staff of The Wark.



[Northern Advanced Manufacturing Industry Group] Inc