

Annual Report

2011 Engineering Aid Australia



“Helping to build our Nation.”

The Hon RJL Hawke AC,
Patron



EngineeringAid Australia
Building futures



▼ IAESS 2011 Curtin University students

▲ Jemilla Darr, student IAESS 2011 UNSW being presented with her Graduation Certification by the Governor of NSW, Her Excellency Professor Marie Bashir, Companion of the Order of Australia



▼ IAESS 2011 UNSW students at Graduation Ceremony at Government House, Sydney

▲ Site Tour of the Sydney Opera House, IAESS 2011, UNSW students



Report by the CEO

Two Summer Schools for selected Indigenous high school students were once again held in January this year. These live-in Summer Schools have grown in popularity and acceptance since their inception in 1998, when the late Jeff Dobell, an engineer and visionary, decided something should be done to encourage Indigenous students to pursue careers in engineering. The Summer Schools were held at the University of NSW and Curtin University where students were exposed to various aspects of engineering by way of lecture room and laboratory activities followed up with visits to engineering sites. These activities were all aimed at raising the students' awareness of engineering, raising their career aspirations and inspiring them to consider engineering as a profession.

At UNSW there were many activities. The most memorable included a visit to the University's Biomedical Laboratory to see demonstrations in nerve stimulation used to help with spinal injuries and the bionic eye's development (application possibly only two years away), followed by a visit to the Cochlear Implant Laboratories where students assembled a cochlear device. A journey in a personnel carrier in the semi-darkness of the virtual underground coal mine and operating the aircraft flight simulator also gave the students plenty to talk about.

“There is no doubt that each student benefitted from the experience and raised their career aspirations.”

At Curtin University students were kept busy with structural projects, such as building balsa wood bridges and testing them to failure; hydraulics lab demonstrations; making circuits using hydrogen cells to propel robots; and setting up solar voltaic panels to pump water. An exercise in water purification and water conservation kept students engrossed and was appropriately followed by a visit to the

desalination plant at Kwinana. The petroleum session was followed by a visit to the BP Kwinana Oil Refinery. It was a very busy week.



Sarquinn Hunt (left) and Ashleigh Hyland (right) in the Biomedical lab at UNSW, IAESS 2011

At the Summer Schools, each morning students attended university demonstrations and laboratory classes with group activities. These activities included photo-electric cell assembly and remote control device assembly. In the afternoons students were taken on site visits. (A full report is available on the EAA website — www.engineeringaid.org).

Post-Summer School interviews and completed student questionnaires established that the students had enjoyed the school activities enormously and found it very instructive. Most said they would now seriously consider engineering as a career. There is no doubt that each student benefitted from the experience and raised their career aspirations.

All of these activities were made possible by the generous financial assistance provided by our sponsors. The money Engineering Aid Australia (EAA) receives to fund these all-expenses-paid Summer Schools has been most gratefully accepted and, as you can see, has been put to good use.



Student group at Victoria Barracks, Sydney for Networking Function IAESS UNSW 2011

In the financial year just ended, as well as funding the two Summer Schools for **40** Indigenous students at

a cost of **\$160,063**, EAA has awarded **57** Continuing School Scholarships, **2** Leadership Scholarships, **5** Women's Scholarships (total cost **\$19,654**) and **5** Jeff Dobell Memorial Undergraduate Scholarships (total cost **\$15,000**). The total cost of all scholarships was **\$34,655**. The total cost of all Summer School activities and scholarships was **\$194,718**, an average of **\$4,868** per student.

Detailed accounts for the financial year 1/07/2010 through 30/06/2011 are shown on the back page of this report. These show a total income of **\$241,083**, direct expenditure on Summer Schools of **\$194,718** and EAA administration expenses, including insurance, accounting and legal costs, of **\$23,767**, (10%), leaving a surplus of **\$20,990**. Taking into account all costs, the average cost per student to attend the live-in Summer Schools funded by EAA and hosted by each university, is **\$5,502**.

From the group of students who attended the 2011 Indigenous Australian Engineering Summer Schools, we expect to see more undergraduate scholarship winners after they complete their year 12 in 2011 or 2012. Further fundraising will be needed to meet these scholarships.

The **five** Jeff Dobell Memorial Undergraduate Scholarships of **\$3,000** were individually presented, one by the Governor of Western Australia, Dr Ken Michael AC at a reception at Government House in Perth last year, one by the CEO, Peter Berry, at the Parsons Brinckerhoff RAP launch and the three others by the EAA Patron, the Hon RJL Hawke AC, in Sydney following



Presentation of the three Jeff Dobell Memorial Undergraduate Scholarship winners by Bob Hawke. Left to right, Peter Berry CEO, Jesse Vinson, the Hon RJL Hawke AC, Patron, Edward Hyland and Nathan Smith

2011 Activities at a glance

- 2 Summer Schools for 40 Indigenous Students
- 57 Continuing School Scholarships
- 2 Leadership Scholarships
- 5 Women in Engineering Scholarships
- 5 Jeff Dobell Memorial Undergraduate Scholarships
- 2 Scholarship Awards presentations
- 1 Networking Cocktail Party

an EAA Board meeting at Parsons Brinckerhoff. Of the five students on scholarship, three are at UNSW, joining an EAA 4th Year Electrical Engineering student, one is at UTS and the other is at Curtin University. Four are studying civil engineering and one urban and regional planning. Two of the students are brothers and have a sister who attended the Summer School at UNSW this year as a year 11 student. We hope to see her on the scholarship list in 2013.

In addition, we have a number of other past students at various universities studying a variety of disciplines: electrical engineering at UNSW, business studies at UTS, visual communications design at Newcastle, biomedical science at QU, architecture at RMIT, psychology at ECU, arts at ANU and science at the University of Melbourne. Of the other alumni we have contact with, one has joined the NSW Police Force, one has joined the Armed Forces, one works with the Department of Defence and one is a technician in the Royal Australian Navy.

As a footnote, EAA was awarded the 2011 Engineers Australia President's Prize for Excellence for the contribution the Indigenous Australian Engineering Summer Schools make to the community and to the engineering profession in this, the Year of the Humanitarian Engineer.

Peter Berry, CEO
Engineering Aid Australia



IAESS 2011 UNSW students – site visit – Engineering Tour Climb of Sydney Harbour Bridge

Financial Statement for Financial Year

1/07/2010 through 30/06/2011

Income	\$
Gifts & Donations	231,251.00
Interest Income	9,831.39
Total Income	241,082.39
Cost of Sales	Nil
Gross Income	241,082.39

Expenses	\$
Administration Expense	
Bank Fees	80.00
Computer Expenses	2,278.95
Insurance	4,406.56
License	52.00
Printing, Stationery, Postage	3,048.03
Staff Catering	14.80
Telephone	587.00
Travel Expenses	4,263.65
Accounting, Legal & Consulting	
Accounting Fees	300.00
Registration Fees	41.00
Search Fees - Police Checks	52.00
Total Accounting, Legal & Consulting	393.00
Audit Fees	8,250.00
<i>(In-kind donation by Ernst & Young)</i>	
Scholarship	
Donator Gifts	845.00
Curtin University	12,200.00
UNSW	11,100.00
Student Gifts	9.99
Other Scholarships	10,500.00
Total Scholarship	34,654.99
Summer School Expenses	
Curtin University	76,583.15
UNSW	83,480.16
Total Summer School Expenses	160,063.31
Mentoring Fees	2,000.00
Total Expenses	220,092.29
Net Surplus / (Deficit)	20,990.10

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