



Australian Institute of Energy

2014 Postgraduate Student Energy Awards

At All-Energy Exhibition & Conference,
Melbourne, 15th & 16th October 2014



The AIE National Postgraduate Student Energy Awards for 2014 were hosted by the AIE Melbourne Branch in conjunction with the All-Energy Australia Exhibition and Conference on the 15th and 16th of October 2014 at the Melbourne Convention and Exhibition Centre. The Awards poster competition was coupled with an AIE booth in the Exhibition, next to the Student Poster Display area. With free registration, over 5,000 attended the All-Energy Exhibition & Conference, keeping our students extremely busy explaining their projects to the energy community.

The students (and delegates) were also able to attend sessions of the multi stream conference and visit the over 200 stands in the Exhibition.

The All-Energy provided AIE with an exhibition booth and an adjacent spacious poster display area, sufficient for 25 Student posters to be displayed. This was the first time the national awards had been held at All-Energy, although it has been a regular feature of the AIE Melbourne Branch calendar for several years.

Nine student finalists were selected and supported by interstate AIE branches, leaving 16 places to be filled by local students (in 2012, the AIE Melbourne Student Awards at All-Energy attracted 30 entries).

We particularly wish to thank our sponsors for this event. Without the support of our sponsors, the AIE would not be able to stage these events which are of great benefit in the development of our postgraduate students.

Platinum Sponsors:



DEPARTMENT OF
STATE DEVELOPMENT
BUSINESS AND
INNOVATION



Gold Sponsor:



Silver Sponsor:



Bronze Sponsor:



Thanks to the generosity of these sponsors, nine students received awards ranging from \$500 to \$1,000. The winning students were also presented with commemorative plaques. All the students participating in the National Awards will receive free Student Membership in AIE for this financial year.

The students were divided into three similar sized groups, based on their research topics. The groups were designated 'Carbon Reduction', 'Renewable Energy' and 'Future Energy' (covering a wide range of other leading edge projects).

Judging took place on the first day of the All Energy Exhibition with a panel of 5 industry representatives from the sponsors and AIE, coordinated by Professor Sandra Kentish, assessing the students and their posters. The judges commented on the high standard of the posters and student explanations of their projects as the students' skills in preparing and presenting posters continue to improve.

The prizes were presented on the second day in an All-Energy Conference session. Representatives of the sponsors assisted in the presentations for each award.

		Topic (Short)		Prize	Sponsor
ALL PROJECTS					
1 st Prize	Benjamin Yap	University of Melbourne	Algal Biodiesel: Role of cell disruption in lipid recovery	\$1,000	Dept of State Development, Business & Innovation
Highly Commended	Simon Takouridis	University of Melbourne	Elite Algae for biofuel & feed	\$800	AGL Energy
RENEWABLE ENERGY PROJECTS					
1 st Prize	Surya Karthik Mukkavilli	UNSW	Effect of bushfires & desert storms on solar power integration	\$750	DNV GL
Highly Commended	Eshan Ahuja	ANU	Assessment of Waste-to-Fuel processing in ACT	\$500	CSIRO Energy Flagship
CARBON REDUCTION PROJECTS					
1 st Prize	Adam Rady	Monash University	Brown coal in Direct Carbon Fuel Cells	\$750	Brown Coal Innovation Australia
Highly Commended	Frank Wu	University of Melbourne	K ₂ CO ₃ precipitation columns for carbon capture	\$500	Brown Coal Innovation Australia
FUTURE ENERGY PROJECTS					
1 st Prize	Lu Xia	University of Melbourne	Demand Side Management for Smart Grid	\$750	AGL Energy
Highly Commended	Christopher Bartley	UCL (Adelaide)	Can you measure a social licence?	\$500	DSDBI
ENCOURAGEMENT AWARD					
Pouya Ghadimi Karahrodi		UNSW	Energy monitoring & Smart Grid Apps in manufacturing	\$500	AIE & All-Energy

Without the support of our sponsors, the AIE would not be able to stage these events which are of great benefit in the development of our postgraduate students.

The handbook illustrating the full range of projects and including their one page summaries is available with this report. Some photographs taken will also be uploaded in due course.

For more information contact David Allardice on 0418 100 361 or allad@bigpond.net.au.