

# THE STANSW YOUNG SCIENTIST AWARDS 2011

ANNOUNCED AT THE UNIVERSITY OF WESTERN SYDNEY, PARRAMATTA CAMPUS  
FRIDAY, 28 OCTOBER 2011

Keynote Address: Professor Roy Tasker, School of Natural Sciences, University of Western Sydney

## MAJOR AWARD WINNERS YEARS K-2

Edward Garth, Redeemer Baptist School, *Are we getting taller?*

Ella Broome, Glenhaven Public School, *Effect of colour on temperature*

Jayden Helm, St John Bosco Primary School, *Does a metal or a wooden baseball bat hit balls further?*

Raymond Leslie, Hayley O'Connor, Vijay Saravanan, Brooklyn Williams, Quakers Hill Public School, *Which liquids produce energy?*

Seth Coppock, St John Bosco Primary School, *When is the next full moon?*

William Burns, St John Bosco Primary School, *Do plants help to improve water quality in fish tanks?*

## MAJOR AWARD WINNERS YEARS 3-6

Alexander Kaczynski, Angus Tyson & Jack Nolland, Quakers Hill East Public School, *Crazy coins*

Andrew Virgona & Luke Stewart-Yates, Beecroft Public School, *Do you count in colour? A study of colour-grapheme synaesthesia*

Ben Mould, Glenhaven Public School, *Comparison of two types of compost*

Hannah Loh, Abbotsleigh, *Washed out: Relationship between the cleaning power of laundry detergent and water temperature*

Hannah Solari, Kinross Wolaroi, *The effect of wind speed and blade angle on a turbine*

Harry Bain & Owen Thomas, Beecroft Public School, *Does age affect the ability to resist temptation?*

Jasmin Cvetkovski, Abbotsleigh, *Can you C what I C? Vitamin C content of supermarket and organically grown oranges*

Julia Tran, Abbotsleigh, *Effect of coloured mulch on growth rate of alfalfa*

Juliette Napton, Abbotsleigh, *Rocks are oresome and chemicals are reactionary*

Liam Callahan, St John Bosco Primary School, *Does organic fruit last longer than supermarket fruit?*

Richard Garth, Redeemer Baptist School, *Scissors, paper, rock: A study in predator-prey relationships*

Taya Michel, St Francis de Sales Primary School, *Testing vitamin C in oranges*

## **MAJOR AWARD WINNERS YEARS 7-9**

### **Biology 7-9**

First Place: Aki Flame, Newington College, *Microbial growth in the inner ear canal with frequent use of inner earphones*

Second Place: Natalie Zhen, Sydney Girls High School, *Hot or cold: Effect of temperature on the rate of petal abscission*

Third Place: Zoe King, Roseville College, *Death of an orange*

### **Chemistry 7-9**

First Place: Marcus Berkley, Barker College, *Does temperature affect battery voltage while under load?*

Second Place: Andre Pearce, Macarthur Anglican College, *Vitamin C content over time in bottled orange juice*

Third Place: Daniel Feng, James Ruse Agricultural High School, *Vitamin C in oranges over time*

### **Earth & Environmental Science 7-9**

First Place: Seungyup Baek, Barker College, *Effect of tinted windows on temperature*

Second Place: Will Smith, Barker College, *Effect of the position of the Sun on solar power production*

Third Place: Eklavya Wangoo, James Ruse Agricultural High School, *Magic microbes*

### **Physics 7-9**

First Place: Ethan Butson, The Illawarra Grammar School, *Invention and characterisation of UVview protector badge*

Second Place: Kyle Willimott, Barker College, *Performance characteristics of a thermoelectric generator: A green energy alternative*

Third Place: Ben McGrath, Cranbrook School, *JPEG image compression*

## **MAJOR AWARD WINNERS YEARS 10-12**

### **Biology 10-12**

First Place: Christina Sara, Roseville College, *Autonomic responses to music people like and dislike*

Second Place: Lisha Lobo, Hornsby Girls High School, *Effectiveness of disinfectants*

Third Place: Rohan Gibbs, Corpus Christi Catholic High School, *Poppy seed positive*

### **Chemistry 10-12**

First Place: Ira Fung, St Pius X College, *Leidenfrost effect*

Second Place: Abdallah Abdallah, Al Amanah College, *Effectiveness of different types of bleach in removing ink stains*

### **Earth & Environmental Science 10-12**

First Place: Max Connor, Edmund Rice College, *Don't give weeds a free ride*

Second Place: Hilary Knowles, Chevalier College, *Filtering water*

Third Place: Karishma Madan, Hornsby Girls High School, *Soil liquefaction*

### **Physics 10-12**

First Place: Patricia Varela Diaz, Redeemer Baptist School, *Does one bad battery spoil the bunch?*

Second Place: Aidan Hammerschmid, The Armidale School, *Model bridges and their structures*

Third Place: Stefani Grossi, Mount St Joseph Milperra, *Effect of household materials as sound barriers*

**SPECIAL AWARDS YEARS 7-12**

Presented for entries that demonstrate high proficiency in a particular area of the investigation.

Adam Solomon, Moriah College, *Effect of water velocity on electrical resistance*

Angela Ni, Hornsby Girls High School, *Eggshell strength*

Avan Zeng, James Ruse Agricultural High School, *Testing lift and drag of airfoils*

Daniel Dell'Armi, De La Salle, Revesby, *Effect of mass of a toy car on its speed*

Joseph Daneile, Freeman Catholic College, *Effect of heating a bar magnet on the amount of current produced as a result of electromagnetic induction*

Maddie Bailey, Roseville College, *Thermal performance of rooves*

Sean Hendricks, St Pius X College, *Solar hot water*

Tim Berney-Gibson, Barker College, *Effect of different materials as personal body armour*

## **SPONSORED AWARDS**

### **Australian College of Physical Sciences & Engineers in Medicine (ACPSEM) Medical Physics Award**

Ethan Butson, The Illawarra Grammar School, *Invention and characterisation of UVview protector badge*

### **Educational Assessment Australia UNSW (EAA) Most Promising Young Talent Awards**

#### **Primary Division**

Macinley Butson, Mt Keira Demonstration School, *Improving solar panel performance and the REFLECTACON 3000*

#### **Secondary Division**

Nicole Sung, PLC Sydney, *Best aeroplane wingspan to fuselage ratio*

### **Lane Cove River Tourist Park Ecotourism Award**

Winner: Macinley Butson, Mt Keira Demonstration School, *Improving solar panel performance and the REFLECTACON 3000*

High commendation: Maddie Bailey, Roseville College, *Thermal performance of rooves*

High commendation: Sean Hendricks, St Pius X College, *Solar hot water*

### **National Measurement Institute (NMI) Measurement Prize**

First Place: Ethan Butson, The Illawarra Grammar School, *Invention and characterisation of UVview protector badge*

Second Place: Kyle Willimott, Barker College, *Performance characteristics of a thermoelectric generator: A green energy alternative*

Third Place: Macinley Butson, Mt Keira Demonstration School, *Improving solar panel performance and the REFLECTACON 3000*

### **Royal Australian Chemical Institute (RACI) Research Project in Chemistry Encouragement Awards:**

#### **Primary Division**

Shehani De Silva, Michelle Tan, Vicky Tan, Quakers Hill Public School, *Phenomenal pH: Decomposition of organic matter*

#### **Secondary Division**

Marcus Berkley, Barker College, *Does temperature affect battery voltage while under load?*

**Splash Into... Young Marine Scientist Award**

Robert Napoli, Glenhaven Public School, *Grey Nurse Sharks: Feeding versus water temperature*

**STEP Environment Award**

Hilary Knowles, Chevalier College, *Filtering water*

**University of Sydney School of Physics Encouragement Award**

Kyle Willimott, Barker College, *Performance characteristics of a thermoelectric generator: A green energy alternative*

*STANSW Young Scientist Awards 2011 announced at the University of Western Sydney on Friday, 28 October 2011*

**GRAND AWARDS**

**Budding Young Scientist 2011, sponsored by the School of Education NSW, Australian Catholic University**

William Burns, St John Bosco Primary School, *Do plants help to improve water quality in fish tanks?*

**Primary Young Scientist 2011, sponsored by the School of Education NSW, Australian Catholic University**

Andrew Virgona & Luke Stewart-Yates, Beecroft Public School, *Do you count in colour? A study of colour-grapheme synaesthesia*

**The Young Scientist of the Year 2011**

Ethan Butson, The Illawarra Grammar School, *Invention and characterisation of UVview protector badge*