

# THE STANSW YOUNG SCIENTIST AWARDS 2010

ANNOUNCED AT THE UNIVERSITY OF WESTERN SYDNEY, PARRAMATTA CAMPUS  
FRIDAY, 12 NOVEMBER 2010

Keynote Address: Dr Jodi Rowley, Australian Museum

## MAJOR AWARD WINNERS YEARS K-2

Ethan Teber-Rossi, Kinross Wolaroi Preparatory School, *Memory and mnemonics*  
Juliette Napton, Abbotsleigh Junior School, *Ready, radish, grow! A radish race*  
Liam Callahan, St John Bosco Primary School, *Effect of sail angle on windmill speed*  
Molly Knight-Hannan, Kinross Wolaroi Preparatory School, *Relaxing music*  
Monique Hore, Lane Cove West Public School, *Rotten eggs!*  
Will Hannelly, Kinross Wolaroi Preparatory School, *Primary molar teeth*

## MAJOR AWARD WINNERS YEARS 3-6

Amelia Rawson, Kinross Wolaroi Preparatory School, *Mass wasting: Soil movement down mountains*  
Anna Stewart-Yates, Beecroft Public School, *Smells like a memory!*  
Celeste Thomson, Abbotsleigh Junior School, *I like my noodles hot!*  
Ethan Westward, St John Bosco Primary School, *Do eggshells have super-strength?*  
Felix Mak & Jason Chen, Beecroft Public School, *Shifty shapes: Strongest shapes in building construction*  
Hannah Solari, Kinross Wolaroi Preparatory School, *Wind turbines*  
Joshua Trethowan & Matthew Kelleher, Beecroft Public School, *Peripheral vision*  
Kaitlyn Sadler & Jordan Considine, St John Bosco Primary School, *What fruits stop jelly from setting?*  
Lily Gosbell & Vivian Lun, Beecroft Public School, *Smell, spit, study!*  
Macinley Butson, Wollongong West Public School, *Reduction of glare and improved vision by polarisers and construction of intensity sunglasses*  
Sophie Spencer, Abbotsleigh Junior School, *Effect of pot type on growth of peas*

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

### **BIOLOGY 7-9**

**First Place:** Attila Simon-Lambert, Pacific Hills Christian School, *Effectiveness of sunscreens*

**Second Place:** Alessandra Bianco, Freeman Catholic College, *How do conflicting mental tasks cause the human brain to react differently?*

**Third Place:** Peter Tryfonopoulos, North Sydney Boys High School, *Plant responses to environmental stimuli*

### **CHEMISTRY 7-9**

**First Place:** Ashley Lee, Freeman Catholic College, *Breathability of synthetic and natural fibres*

**Second Place:** Alex Hagan, North Sydney Boys High School, *Effect of different types of urea on Golden Bantam corn crops*

**Third Place:** Matthew Sias, Wollondilly Anglican College, *Relationship between pH levels and tooth demineralisation*

### **EARTH & ENVIRONMENTAL SCIENCE 7-9**

**First Place:** Sam Paynter, Barker College, *Insulation ability of roofing materials*

**Second Place:** Thomas Chang, Barker College, *Reducing water evaporation*

**Third Place:** Tom McLeod, Barker College, *Fire resistance of hardwoods*

### **PHYSICS 7-9**

**First Place:** Ethan Butson, The Illawarra Grammar School, *Evaluation of desktop scanner uniformity ultraviolet emissions and response uniformity for increased accuracy of UV film dosimetry*

**Second Place:** Jennifer Huo, Sydney Girls High School, *Effect of storage temperature on battery shelf life*

**Third Place:** Tim Leto, Freeman Catholic College, *Impact of keels on the reduction of roll on a boat*

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

### **BIOLOGY 10-12**

**First Place:** Nicolas Johnston, Shore, *Effects of violent media on aggression levels in teenage boys*

**Second Place:** Joseph Brammall, Shore, *Effects of luminance and duration of stimulus on colour afterimages*

**Third Place:** Renee Trevisiol, Mount St Joseph, Milperra, *Additives and plant growth*

### **CHEMISTRY 10-12**

**First Place:** Lauren Meola, Mount St Joseph, Milperra, *Having a tough time: Effect of concrete additives*

**Second Place:** Michelle Henderson, Mount St Joseph, Milperra, *Brand, pricing and permanency of permanent markers*

**Third Place:** Shilpa Kala, Hornsby Girls High School, *Drop size and surface tension of liquids*

### **EARTH & ENVIRONMENTAL SCIENCE 10-12**

**First Place:** Samuel Bishop-Taylor, Great Lakes Campus - Forster Campus, *Tree flammability research and application*

**Second Place:** Daniel Hwang, Baulkham Hills High School, *Epsom salts and plant growth*

**Third Place:** Meena Sritharan, Strathfield Girls High School, *How to toil an oil spill*

### **PHYSICS 10-12**

**First Place:** Will Millard, Shore, *Effect of colour on the evaporation rate of a vessel of water*

**Second Place:** Gloria Giang, Roseville College, *Solar panels*

**Third Place:** Matthew Wong, Baulkham Hills High School, *Winglets and aerofoils*

## **SPECIAL AWARDS**

### **YEARS 7-9**

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

Anais Alonso, PLC, *Ball pressure and bounce height*

Briannan Johnson, PLC, Sydney, *Effect of type of exercise on heart rate*

Christian Whitwell, International Grammar School, *pH levels in tap and rain water*

Eve House, Macarthur Anglican School, *Effects of fertiliser on Cos Lettuce*

Evelyn Bratchford, Roseville College, *How colour affects our senses*

Isabelle Woodforde, Roseville College, *Water quality*

Jordan van den Berg, Barker College, *Magnetic levitation and propulsion*

Kalina Li, Sydney Girls High School, *Effect of music on memory of Year 9 girls*

Madeleine Goodsir, International Grammar School, *No farting: Flatulence and diet*

Mathew Chu, De La Salle College, Revesby, *Exercise and heart rate*

Nathan Lok, Pacific Hills Christian School, *Effect of microwave cooked water on plants*

Ronnie Taneja, North Sydney Boys High School, *Effect of concentration on the refractive index of a sugar solution*

Sergio Insuasti, Barker College, *Effect of house insulation on temperature*

Veronica O'Neill, Macarthur Anglican School, *Up in flames: Leaf flammability*

**YEARS 10-12**

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

Aaron Sentis, Moriah College, *A future application for coilgun technology*

Anastasia Efthymiou, Mount St Joseph, Milperra, *Effect of salt content on freezing time of liquids*

Chen Don Loi, Baulkham Hills High School, *Effects of liquid composition on transmission of near infrared radiation*

David Wales, Wollondilly Anglican College, *Resonance of glass*

Elizabeth Weight, Mount St Joseph, Milperra, *Effect of macronutrients on plant growth*

Georgia Pick, Roseville College, *Detergents and plant growth*

Grace Duncan, PLC, *Force degradation of orthodontic fibres*

James Dawson, Shore, *Glycaemic index and its effect on adolescent attentiveness*

Madelon Mills, Mount St Joseph, Milperra, *Bend, stretch and flexibility*

Perri Taylor, Mount St Joseph, Milperra, *Effect of pH levels on plant growth*

Rose Davidson, Roseville College, *Water quality after rain*

Sam Drysdale, Chevalier College, *Reaction times of video game players*

Zoe McLaughlin, Roseville College, *Elevated carbon dioxide levels in the Earth's atmosphere*

## **SPONSORED AWARDS**

### **AUSTRALIAN COLLEGE OF PHYSICAL SCIENCES & ENGINEERS IN MEDICINE (ACPSEM) MEDICAL PHYSICS AWARD**

**Winner:** Ethan Butson, The Illawarra Grammar School, *Evaluation of desktop scanner uniformity ultraviolet emissions and response uniformity for increased accuracy of UV film dosimetry*

### **EDUCATIONAL ASSESSMENT AUSTRALIA UNSW (EAA) MOST PROMISING YOUNG TALENT AWARDS**

**Winner Primary Division:** Ajay Mariswamy, Dillan Kahale & James Lynch, Quakers Hill East Public School, *Wind in narrow and wide spaces*

**Winner Secondary Division:** Michael Jamieson, Shore, *Air gap width in double glazing glass*

### **LANE COVE RIVER TOURIST PARK ECOTOURISM AWARD**

**Winner:** Thomas Chang, Barker College, *Reducing water evaporation*

### **NATIONAL MEASUREMENT INSTITUTE (NMI) MEASUREMENT PRIZE**

**First Place:** Samuel Bishop-Taylor, Great Lakes Campus - Forster Campus, *Tree flammability research and application*

**Second Place:** Ethan Butson, The Illawarra Grammar School, *Evaluation of desktop scanner uniformity ultraviolet emissions and response uniformity for increased accuracy of UV film dosimetry*

**Third Place:** Tom McLeod, Barker College, *Fire resistance of hardwoods*

### **ROYAL AUSTRALIAN CHEMICAL INSTITUTE (RACI) RESEARCH PROJECT IN CHEMISTRY ENCOURAGEMENT AWARDS**

**Winner Primary Division:** Alicja Kaczynska, Celeste Cheung, Inderpreet Singh & Manwah Cheung, Quakers Hill Public School, *Stain removal by the Super Stain Sleuths*

**Winner Secondary Division:** Karina Leung, Kirrawee High School, *To dye for: Colourfast quality of natural and synthetic dye*

### **STEP ENVIRONMENT AWARD**

**Winner:** Meena Sritharan, Strathfield Girls High School, *How to toil an oil spill*

STANSW Young Scientist Awards 2010 announced at the University of Western Sydney, Parramatta Campus on Friday, 12 November 2010

**UNIVERSITY OF SYDNEY SCHOOL OF PHYSICS ENCOURAGEMENT AWARD**

**Winner:** Eden Faithfull, The Hills Grammar School, *Snell's Law and finding sugar concentration*

**Runner-up:** Attila Simon-Lambert, Pacific Hills Christian School, *Effectiveness of sunscreens*

**GRAND AWARDS**

**BUDDING YOUNG SCIENTIST 2010, SPONSORED BY THE SCHOOL OF EDUCATION NSW, AUSTRALIAN CATHOLIC UNIVERSITY**

Molly Knight-Hannan, Kinross Wolaroi Preparatory School, *Relaxing music*

**PRIMARY YOUNG SCIENTIST 2010, SPONSORED BY THE SCHOOL OF EDUCATION NSW, AUSTRALIAN CATHOLIC UNIVERSITY**

Anna Stewart-Yates, Beecroft Public School, *Smells like a memory!*

**UWS GREATER WESTERN SYDNEY SCIENCE AWARD, SPONSORED BY THE UNIVERSITY OF WESTERN SYDNEY**

Heather Jarman, Wollondilly Anglican College, *Relationship between water droplets and their splash range*

**THE YOUNG SCIENTIST OF THE YEAR 2010**

Samuel Bishop-Taylor, Great Lakes Campus - Forster Campus, *Tree flammability research and application*

**OPPORTUNITY TO ATTEND INTEL INTERNATIONAL SCIENCE AND ENGINEERING AWARDS 2011**

Samuel Bishop-Taylor, Great Lakes Campus - Forster Campus, *Tree flammability research and application*

Nicolas Johnston, Shore, *Effects of violent media on aggression levels in teenage boys*