

THE STANSW YOUNG SCIENTIST AWARDS 2009

ANNOUNCED IN THE IAN AND NANCY TURBOTT AUDITORIUM, UNIVERSITY OF WESTERN SYDNEY
MONDAY, 26 OCTOBER 2009

MAJOR AWARD WINNERS YEARS K-2

Alex Hayston, St John Bosco Primary School, *Science of paper airplane flight*

Demian Eberding, Rosabella Stephen, Stella Rees & Tomas Pocilujko, Bellingen Public School, *Rainy days*

Ethan Teber-Rossi, Kinross Wolaroi Preparatory School, *Drivers' distractions*

Lachlan Hore, Lane Cove West Public School, *A wrinkle in bathtime*

Molly Knight-Hannen, Kinross Wolaroi Preparatory School, *Optical illusions*

Rachael Jones & Suzanne Jones, Redeemer Baptist School, *How bright will they be?*

MAJOR AWARD WINNERS YEARS 3-6

Aditya Pillai & Jamie Llewellyn-Roux, Quakers Hill East Public School, *Compressed united rockets*

Andrea Burns, Redeemer Baptist School, *Curly or straight: Which hair will break?*

Anna Stewart-Yates, Alodia Gonida & Lily Gosbell, Beecroft Public School, *Naturally nastursiums*

Christina Petherick, Penrith Christian School, *The Effect of salt and fertiliser on mung beans*

Felix Mak, Beecroft Public School, *Brick pattern stability in earthquakes*

Giselle Pettigrew, Abbotsleigh Junior School, *Science by candlelight*

Ian Garth, Redeemer Baptist School, *Reflections on solar energy*

James McEwan, St Aloysius, Cronulla, *Raising agents in cakes*

Macinley Butson, Wollongong West Public School, *Can I make my own sunglasses?*

Martyn Poyitt, Redeemer Baptist School, *Blow wind, blow!*

Matthew Clifford, Our Lady of Fatima, *Salinity*

Richard Garth, Redeemer Baptist School, *Trombone tune up*

William Garth, Redeemer Baptist School, *Mighty mulch*

MAJOR AWARD WINNERS YEARS 7-9

BIOLOGY 7-9

First Place: Roseanna Raymond, Macarthur Anglican School, *Do fingered pairs share a fingerprint pattern?*

Second Place: Bo Seo, Barker College, *Tall strides: Leg length and leg stride*

Third Place: Nathan Booth, Barker College, *Environmental pH preference for earthworms*

CHEMISTRY 7-9

First Place: Benjamin Gibson, Redeemer Baptist School, *Pollution solution: Clean, efficient biofuels*

Second Place: Jerome Samir, International Grammar School, *Space food*

Third Place: Jeffrey Gregory, Barker College, *Light fastness of dyed paper*

EARTH & ENVIRONMENTAL SCIENCE 7-9

First Place: Daniel Caine, Cranbrook School, *Amphipod populations in NSW coastal waters*

Second Place: Mitchell Ford, Barker College, *Freezing rate versus salinity*

Third Place: Karina Leung, Kirrawee High School, *Recycled water*

PHYSICS 7-9

First Place: Ethan Butson, The Illawarra Grammar School, *A new film detector for UVB exposure measurement*

Second Place: Ellenore Forrester, Redeemer Baptist School, *Hot plus cold equals electricity: Peltier heat pump diode as a power source*

Third Place: Rebecca Dawkins, Sydney Girls High School, *Effect of colour and roofing material on house temperature*

MAJOR AWARD WINNERS YEARS 10-12

BIOLOGY 10-12

First Place: James Francis, Shore School, *A study of worm resistance to drenches*

Second Place: Chloe Wilson, PLC, Sydney, *Flower preservatives*

Third Place: Silvia Kovacs, Kincoppal - Rose Bay, *Yeast reproduction using sugar substitutes*

CHEMISTRY 10-12

First Place: Emily Waight, PLC, Sydney, *Vitamin C in orange juice*

Second Place: Jonathan Chan, Baulkham Hills High School, *Rusting and salt*

Third Place: Stella Modyanto, Bethlehem College, *Kimchi pH and glucose level during fermentation at different temperatures*

EARTH & ENVIRONMENTAL SCIENCE 10-12

First Place: Rachel Woodhouse, Roseville College, *Flood levees*

Second Place: Noah Stutchbury, Shore School, *Fire resistance of building timber*

Third Place: Benjamin Watt, Shore School, *Mulches: Fire retardant and moisture saving ability*

PHYSICS 10-12

First Place: Emily Esposito, Mount St Joseph, Milperra, *Accuracy at a cost: Ammunition cost and shot accuracy*

Second Place: Jonathan Sapolinski, Redeemer Baptist School, *An improved metric for visual differentiation using colour-modified clinical eye charts*

Third Place: Melinda Blake, Hornsby Girls High School, *Celestial poles*

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SPECIAL AWARDS YEARS 7-12

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

Alannah Newton, Southern Cross School K-12, *Effectiveness of various brands of paracetamol*

Alec Abotomey & Calum Gemmell, Bowral High School, *Testing the DET School Policy*

Hugh Millar, International Grammar School, *Finding fabric for space suits*

Juliette Talj, Mount St Joseph, Milperra, *Caffeine and its effect on blood pressure*

Natalie Tridgell, The Hills Grammar School, *Comparison of AC and DC motors*

Stathi Weir, International Grammar School, *Suitable space food*

SPONSORED AWARDS

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

Winner: Ethan Butson, The Illawarra Grammar School, *A new film detector for UVB exposure measurement*

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

Winner Primary Division: Oscar Tierney, Kinross Wolaroi Preparatory School, *Egg protection*

Winner Secondary Division: Arlene Dowling, Macarthur Anglican School, *Moon gardening: Fact or fiction?*

LANE COVE RIVER TOURIST PARK ECOTOURISM AWARD

Winner: Noah Stutchbury, Shore School, *Fire resistance of building timber*

High commendation: Benjamin Watt, Shore School, *Mulches: Fire retardant and moisture saving ability*

High commendation: Daniel Caine, Cranbrook School, *Amphipod populations in NSW coastal waters*

High commendation: Rachel Woodhouse, Roseville College, *Flood levees*

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NATIONAL MEASUREMENT INSTITUTE (NMI) MEASUREMENT PRIZE

First Place: Ethan Butson, The Illawarra Grammar School, *A new film detector for UVB exposure measurement*

Second Place: Owen Forbes, Baulkham Hills High School, *Boxing gloves*

Third Place: Ellen Newsom, St Ursula's College, *Effect of shine on the swing of a cricket ball*

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

Winner Primary Division: Laura Gibson, Redeemer Baptist School, *Acid oceans*

Winner Secondary Division: Jerome Samir, International Grammar School, *Space food*

SCIENCE IN A BOX EXCELLENCE AWARDS

Earth and its Surroundings: Sophie Spencer, Abbotsleigh Junior School, *Fog on a river*

Living Things: Callum Bailey, Redeemer Baptist School, *Chicken eggs*

Physical Phenomena: Blake Toohey, Our Lady of Fatima, *Momentum and passing a ball*

STEP ENVIRONMENT AWARD

Winner: Rebecca Dawkins, Sydney Girls High School, *Effect of colour and roofing material on house temperature*

UNIVERSITY OF SYDNEY SCHOOL OF PHYSICS ENCOURAGEMENT AWARD

Winner: Ethan Butson, The Illawarra Grammar School, *A new film detector for UVB exposure measurement*

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GRAND AWARDS

BUDDING YOUNG SCIENTIST 2009, SPONSORED BY THE SCHOOL OF EDUCATION NSW, AUSTRALIAN CATHOLIC UNIVERSITY

Ethan Teber-Rossi, Kinross-Wolaroi Preparatory School, *Drivers' distractions*

PRIMARY YOUNG SCIENTIST 2009, SPONSORED BY THE SCHOOL OF EDUCATION NSW, AUSTRALIAN CATHOLIC UNIVERSITY

Martyn Poyitt, Redeemer Baptist School, *Blow wind, blow!*

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

Roseanna Raymond, Macarthur Anglican School, *Do fingered pairs share a fingerprint pattern?*

THE YOUNG SCIENTIST OF THE YEAR 2009

Ethan Butson, The Illawarra Grammar School, *A new film detector for UVB exposure measurement*

OPPORTUNITY TO ATTEND INTEL INTERNATIONAL SCIENCE AND ENGINEERING AWARDS 2010

Ellenore Forrester, Redeemer Baptist School, *Hot plus cold equals electricity: Peltier heat pump diode as a power source*

Rachel Woodhouse, Roseville College, *Flood levees*