PRIZES FOR AWARD CATEGORY Years K-2

SPECIAL AWARDS K-2

Ken Le Sage Encouragement Awards

- Lachlan Bluett, Jeremy Brown, Joseph Hedley & James Macaulay, Pymble Public School, *Effect of surface area on freezing time*
- Matthew Clifford, Our Lady of Fatima School, *Materials that magnets attract*
- Finn McNamara, Our Lady of Fatima School, *The growth of seeds from budgie seed*
- Tom White, Our Lady of Fatima School, *The food ants like the best*

MAJOR AWARD WINNERS K-2

- Ian Garth, Redeemer Baptist School, *Ways to make cut flowers last longer*
- Chanum Torres, Redeemer Baptist School, *Air quality in the area where I live*

PRIZES FOR AWARD CATEGORY Years 3-6

MAJOR AWARD WINNERS 3-6

- Jessica Campbell & Miranda Schembri, Abbotsleigh Junior School, *Dogs' sense of smell*
- Cassandra Cordero, Wollongong Public School, *Determining the presence of rare earth metals and possible heavy metal pollutants in Illawarra coastline soil*
- Ciaran Frame, Newington College, Wyvern House, *The colour of light that affects growth of plants*
- Phillip Garth, Redeemer Baptist School, *Identification of colour blindness by comparing yellow lights with a mix of red and green lights*
- William Garth, Redeemer Baptist School, *Vibration of a glass of water struck with a spoon*
- Benjamin Gibson, Redeemer Baptist School, *The mulch that is the best for plant growth in my garden*
- Lawrence Kwan, Steven Mansour & Liam O'Doherty, Quakers Hill Public School, *Response times of athletes*
- Anand Madan, Beecroft Public School, *A comparison of cloud cover in different parts of Sydney*
- James Palmer, Newington College, Wyvern House, *Absorption of milk by cereals*
- Melinda Sun & Alexandra Volk, Beecroft Public School, *How various substances in water affect its temperature*

Best Team Entry of a scientific investigation, K-6

- Melinda Sun & Alexandra Volk, Beecroft Public School, *How various substances in water affect its temperature*

PRIZES FOR AWARD CATEGORY Years 7-9

Two of the best investigations demonstrating concepts/processes of design and/or engineering, 7-9

- Joseph Firriolo, Freeman Catholic College, *Effect of air temperature on the intensity of sound*
- Amanda Pitrans, Roseville College, *Assessing the strength of eggs*

Two of the best investigations demonstrating effective communication of the investigation through creative expression, 7-9

- Sarah Beale, Roseville College, *Effect of different types of water on the germination of seeds*
- Lisa Close, Macarthur Anglican School, *The relationship between the bounce of a tennis ball and its price*

Two of the best investigations demonstrating effective application of information technology, 7-9

- Hamish Love, Barker College, *Effect of nutrient concentration on algal bloom growth*
- Jacqueline Madsen, Roseville College, *The health of water from a stormwater pipe*

One of the best investigations demonstrating effective communication of the investigation through a 3D display, 7-9

- Daniel Hewson, Macarthur Anglican School, *Effect of fungicides in the control of Schlerotina minor in lettuce*

MAJOR AWARD WINNERS 7-9

Best Team Entry of a scientific investigation, 7-9

- Sanju Selvakumar & Swarnalakshmi Saikumar, Strathfield Girls High School, *Effect of the type of music on the mathematics performance of girls*

Biology 7-9

- Third place: Justin Chen, North Sydney Boys High School, *Hand dominance and laterality*
- Second place: Luke Shakespeare, Hunters Hill High School, *How mathematics can help in the ongoing assessment of cerebral palsy*
- First place: Thomas Brereton, North Sydney Boys High School, *Effect of essential plant oils on bacteria and fungi*

Chemistry 7-9

- Second place: Amy Ward, Macarthur Anglican School, *The relationship between effectiveness of stain removers and their price*
- First place: Andrew Perulero, Albion Park High School, *Effect of electrodes in improving the efficiency of a saltwater electrical cell*

Earth & Environmental Science 7-9

- Third place: Jacqueline Madsen, Roseville College, *The health of water from a stormwater pipe*
- Second place: Hamish Love, Barker College, *Effect of nutrient concentration on algal bloom growth*
- First place: Thomas Williamson, Barker College, *Feasibility of rainwater tanks in suburban areas*

Physics 7-9

- Third place: Joseph Firriolo, Freeman Catholic College, *Effect of air temperature on the intensity of sound*
- Second place: Amanda Pitrans, Roseville College, *Assessing the strength of eggs*
- First place: Guy Winnall, St Columba Anglican School, *Factors affecting the breaking strength of fishing line*

PRIZES FOR AWARD CATEGORY Years 10-12

Two of the best investigations demonstrating concepts/ processes of design and/or engineering, 10-12

- Arun Agranat, Masada College, *Blade efficiency of wind turbines*
- Andrew Lyall, Shore School, *The reasons for and prevention of dam failure*

Two of the best investigations demonstrating effective communication of an investigation through creative expression, 10-12

- James Daniel, William Clarke College, *'Mythbusters'-type analysis of speed cameras - The effect of different materials covering a number plate on the visibility of that plate*
- Emily Minard, Kincoppal Rose Bay, *Effect of mouthwash on bacterial growth*

Two of the best investigations demonstrating effective application of information technology, 10-12

- Julian D'Arcy, Chevalier College, *Visual illusions when approaching and landing an aircraft*
- Christopher McGrath, Cranbrook School, *Simulation of a shark ecosystem*

MAJOR AWARD WINNERS 10-12

Best team entry of a scientific investigation 10-12:

- Ian Cannon & Rickystan Savaiko, Redeemer Baptist School, *Versatile colour identification and luminance contrast determination using a triluminate source*

Biology 10-12

- Third place: Hugo Rourke, Shore School, *Effect of grey water use on plants*
- Second place: Andrew Peng, Baulkham Hills High School, *A comparison of the web strength of two different spiders*
- First place: Benjamin Hughes, Shore School, *A relationship between the ecological niche of Australian native plants and the germination of their seeds*

Chemistry 10-12

- Third place: Rhys James Williams, Barker College, *Effect of alcohol on the dehydration of fruit*
- Second place: Kitty Yi, Sydney Girls High School, *Popping ability and preservation of popcorn*
- First place: Alexandra Hahn, Lismore High School, *Fat content of french fries from various food outlets*

Earth & Environmental Science 10-12

- Third place: Jagoda Worotynska, St George Girls High School, *Salinity levels and their effect on plant growth at Scarborough Park*
- Second place: Nicola Du, Sydney Girls High School, *Evaluation of desalination methods*
- First place: Robbie Bishop-Taylor, Forster Campus, Great Lakes College, *Identification of critical salinity thresholds for common upper-estaurine plants*

Physics 10-12

- Third place: Andrew Lyall, Shore School, *The reasons for and prevention of dam failure*
- Second place: James McLean, Shore School, *Effect of noise distractions on tennis serve*
- First place: Ian Cannon & Rickystan Savaiko, Redeemer Baptist School, *Versatile colour identification and luminance contrast determination using a triluminate source*

SPECIAL AWARDS Years 3-12

The Australian College of Physical Sciences & Engineers in Medicine (ACPSEM) Medical Physics Prize

- Sarah Carman, Cheltenham Girls High School, *Effect of various factors on the pitch and quality of sound produced by a reconstructed theremin*

The National Measurement Institute (NMI) Measurement Prize

- Benjamin Hughes, Shore School, *A relationship between the ecological niche of Australian native plants and the germination of their seeds*

The Royal Australian Chemical Institute (RACI) Research Project in Chemistry Prizes:

The RACI Research Project in Chemistry Encouragement Prize

- Mingyue Kardashinsky, Sydney Girls High School, *Effect of magnetism on crystallisation*

The RACI Research Project in Chemistry Prize

- Alexandra Hahn, Lismore High School, *Fat content of French fries from various food outlets*

The STEP Environment Prize

- Robbie Bishop-Taylor, Forster Campus, Great Lakes College, *Identification of critical salinity thresholds for common upper-estaurine plants*

Educational Assessment Australia UNSW (EAA) Most Promising Young Talent awards

The EAA Most Promising Young Talent Award, Primary Division

- Cassandra Cordero, Wollongong Public School, *Determining the presence of rare earth metals and possible heavy metal pollutants in Illawarra coastline soil*

The EAA Most Promising Young Talent Award, Secondary Division

- Robbie Bishop-Taylor, Forster Campus, Great Lakes College, *Identification of critical salinity thresholds for common upper-estaurine plants*

The Pearson Education Award for Creative Expression

- James Daniel, William Clarke College, *'Mythbusters'-type analysis of speed cameras - The effect of different materials covering a number plate on the visibility of that plate*

Nominations for REGIONAL AWARDS provided by sponsors of the Intel International Science and Engineering Fair (ISEF) in the USA:

MU Alpha Theta Society Award, for the most challenging, original, thorough and creative investigation involving mathematics:

- Luke Shakespeare, Hunters Hill High School, *How mathematics can help in the ongoing assessment of cerebral palsy*

American Meteorological Society, Certificates of Outstanding Achievement in the atmospheric and related oceanic and hydrologic sciences:

- Benjamin Hughes, Shore School, *A relationship between the ecological niche of Australian native plants and the germination of their seeds*

Herbert Hoover Young Engineer Award from the Herbert Hoover Presidential Library Association, for an outstanding engineering project. The student should have a good grasp of engineering fundamentals, demonstrate competence in one or more engineering disciplines and good communication skills by effectively explaining their project.

- Andrew Lyall, Shore School, *The reasons for and prevention of dam failure*

International Society for Optical Engineering Award, for the best project in the area of optical science and engineering:

- Ian Cannon & Rickystan Savaiko, Redeemer Baptist School, *Versatile colour identification and luminance contrast determination using a triluminate source*

2007 Regional Ricoh Sustainable Development Award:

- Nicola Du, Sydney Girls High School, *Evaluation of desalination methods*

Intel Excellence in Computer Science Award:

- Christopher McGrath, Cranbrook School, *Simulation of a shark ecosystem*

ASM Materials Education Foundation Most Oustanding Exhibit in Materials Science:

- Guy Winnall, St Columba Anglican School, *Factors affecting the breaking strength of fishing line*

GRAND AWARD

The Young Scientist of the Year 2006

- Ian Cannon & Rickystan Savaiko, Redeemer Baptist School, *Versatile colour identification and luminance contrast determination using a triluminate source*