



Alfriston College

Aorere College

Botany Downs Secondary College

Bucklands Beach Intermediate School

Destiny School

Drury School

Elim Christian College

Howick College

Howick Intermediate School

Macleans College

Manurewa High School

Manurewa Intermediate School

Maraetai Beach School

Otahuhu Intermediate School

Pukekohe High School

Randwick Park School

Saint Kentigern College

Somerville Intermediate School

Tyndale Park Christian School



## CONVENOR'S REPORT

It gives me great pleasure to be associated with the 2009 MIT Manukau Science and Technology Fair. This is our fifteenth year as a full Regional Fair and we continue the tradition of previous years enthusiastically.

For many students the fair provides a platform outside of the confines of the classroom to explore an area of interest. Past award winning participants all agree that their participation and achievements in the fair have helped them to secure a variety of scholarships and prizes, as well as boosting their applications for places in restricted courses at tertiary institutions.

The successful award winners tonight represent the best of hundreds of projects in our region from nineteen participating schools. The committee and judges have been very impressed with both the high standard of presentation of work and the ingenious and innovative nature of the investigations undertaken by students. Each exhibit represents hours of toil which often extends over a number of weeks. These projects are in most cases the result of considerable input and guidance from parents and teachers. To produce work of this calibre requires a high quality of teaching and learning – I believe that the work shown here tonight reflects very favourably on the sort of good learning that is taking place in Manukau City classrooms.

A successful fair would not be possible without the hard work and support of many people. On behalf of the organising committee we would like to give special thanks to Manukau Institute of Technology who is our major sponsor. We thank them for their continued support and willingness to invest in our youngsters.

We are delighted at the number of businesses and organisations who have supported the students of the Counties Manukau region through the sponsorship of prizes for the eleven categories represented at the fair. This enables us to acknowledge the excellent achievements by many of our students in the many different areas encompassed within Science. A big thank you to all our other sponsors who have contributed so generously, allowing us to make this fair a success.

Many people have freely given their time and expertise to judge the exhibits and to help in many other ways. Thanks, too, for the catering provided by the Kiwanis Clubs of Papatoetoe and Pakuranga.

To the committee members, who organise both their own school fairs as well as the regional fair, we extend our personal thanks for their initiative, enthusiasm and teamwork. We recognise that their commitment has involved careful planning and hours of extra work. Thanks to the Science support staff at Manurewa High School, whose tireless efforts were responsible for the majority of the logistics in setting up and running the fair at Manurewa Intermediate School. Special thanks to Lee and John Bell who have put an enormous amount of effort into the MIT Manukau Science and Technology Fair for the last fifteen years.

Thank you parents and teachers of all exhibitors for the support and encouragement that you give to these young people. To the exhibitors, a very big thank you. The quality of your investigations and your enthusiasm makes the work of everyone involved so very worthwhile. Finally, a special thank you to Manurewa Intermediate School for hosting the prizegiving and the Regional Fair.

**Charlie Ahn**  
**Science Fair Co-Convenor**



## REALISE THE DREAM 2009

**National Award for Researchers of Tomorrow**  
**Genesis Energy is proud to be the principal sponsor**

### So what is Realise the Dream?

Realise the Dream is a prestigious six-day event managed by the Royal Society of New Zealand which celebrates, rewards, challenges and showcases the work of extraordinary school students from all over New Zealand who have carried out an excellent piece of research, or technological development. The principal sponsor of this event is Genesis Energy and the support partners are the New Zealand National Commission for UNESCO and DairyNZ.

### Who can attend Realise the Dream?

Students can be nominated for Realise the Dream through several programmes including regional science and technology fairs. Many nominations are received and the Realise the Dream judging panel selects up to 40 students to attend.

### About Realise the Dream

Realise the Dream takes place in Wellington from Sunday 6 – Friday 11 December 2009. Realise the Dream runs over 6 days. The 2009 programme promises to be very exciting and will involve excursions to science and technology organizations, field trips and social events. Massey University has also organised a wonderful programme for the students. Between December and February the participants get out into their community and promote Realise the Dream. Promotion may include talking to a school assembly; talking to service groups; contacting and talking to local radio or local media. All participants will be given media training during the December event to help them prepare for this. A formal celebratory awards dinner takes place in March 2010 where some big awards are presented. Realise the Dream is also supported by



New Zealand National  
Commission for UNESCO  
*Te Kōmihana Matua o Aotearoa mō UNESCO*





## THE ROYAL SOCIETY OF NEW ZEALAND

The Royal Society of New Zealand is the voice of science and technology in New Zealand. We recognise excellence in science and technology, disseminate educational resources on scientific and technological issues, and maintain links with the global scientific and technological communities. In all our work, we aim to bring an informed and scholarly approach to scientific and technological questions, helping to build a community-wide culture that supports and understands science and technology.

The Society has been involved in the organisation of National Science and Technology Fairs since their inception and has been committed to the support of regional fairs for over 30 years. The science and technology fairs serve as an ideal vehicle for the development of investigative skills and innovative practices by young people. By encouraging young people in scientific and technological pursuits we are increasing New Zealand's human capital in research, science and technology – and helping to build a thriving knowledge-based society. We support and promote a wide range of activities for students and teachers.

### **Crest**

Opportunities for years 7-13 students to work with technologists or scientists on a project of their own design.

### **Teacher Fellowships**

Enables up to 45 teachers each year to develop their understanding of science, mathematics or technology by participating in projects with industry or research organisations.

### **Alpha**

The ALPHA educational series provides students with topical and up-to-date information on New Zealand and international issues.

### **Science and Technology Fairs**

Recognise and celebrate the achievements of young New Zealanders. Science and technology fairs involve at least 50,000 students – at class, school, regional and national levels.

### **Student and Teacher Scholarships**

Students and teachers can take part in exciting and stimulating overseas activities such as the US Space Camp, London International Youth Science Forum, APEC Youth Science Forum, Singapore Science School amongst others.

The Genesis Energy National Science and Technology Fair celebrates the efforts of our young people and recognises their excellence. The Society records its appreciation of the commitments shown by Genesis Energy to the future of our young people.

*Visit our website: [www.rsnz.org](http://www.rsnz.org)*





## PREMIER AWARD WINNER – 2008

### Aloysha Yashin – Macleans College

Last year I was sitting where you are right now listening to Amy McDonald the previous Premier Award winner making her speech. I could have only dreamed of winning such an award. But for me that night dream came true.

My project "How Lucky was Robin Hood?" won several awards including the premier award at the Manukau City Science & Technology Fair. Along with the prize money the premier award winner and the runner up got nominated for Realise the Dream in Wellington. I was one of the 29 students selected to go.

Realise the Dream was full of opportunities. Opportunities to learn, try new things, have new experiences and meet new friends. Our week was full of activities. We did a range of media workshops teaching us vital communication skills, ironically for me how to speak to an audience. We attended science institutes like Natcoll Design 3D Design & Animation studio, Massey University, Karori wildlife sanctuary, and the Wellington Genesis Energy building. One of the more peculiar activities was part of a Crime Scene and Forensics Evening with Dallas Bishop which involved looking at a maggot, through a microscope, a different and interesting experience. There were also a host of social events like the UNESCO cocktail function, eating desert at Strawberry fair, and Roger Hall's Red Riding Hood in Circa Theatre. But the biggest highlight for me was meeting all the people. They were so friendly and fun and all shared the same passion for science. Everyone had a great time and made a lot of lifetime friends.

Later in March we got invited to the award ceremony in Te Papa. I was thrilled to see everybody again. It was like we were all from the same college, back for the reunion. On top of that I was awarded the Counting on Data Award sponsored by Statistics NZ.

My life changed after Realise the Dream. I look at things in a new way. It amazes me... One project, studying what you want to study, can change your life. I realised something. My life changed because of all the opportunities I got given at Realise the Dream. And I was able to attend Realise the Dream because I took the opportunity to participate in the science fair. One opportunity can change your life.

Our lives are full of opportunities, and the ones we take will shape us. We seldom miss big opportunities. They are easily recognisable, and are rare. But we miss many smaller opportunities. They become so common, that we forget about them. But these are the ones that will have the most impact. Big opportunities can change and develop us quickly, and so we notice the benefits quickly. But they are harder to come by, where as the smaller opportunities are always there. They cause a gradual change, one that is hard to notice. Hugh Allen an English musician and conductor once said "Jumping at several small opportunities may get us there more quickly than waiting for one big one to come along." And each new opportunity can lead on to others like a chain reaction.

I congratulate you. You all took the big opportunity to participate in the science fair. But you also took the smaller opportunities that lay within the initial opportunity. You put in more time, put in the extra effort. You took every opportunity to improve your project. That has lead to your success. And just from participating you have learned new things. Tonight you are going to reap your rewards.

"Opportunity is often difficult to recognize; we usually expect it to beckon us with beepers and billboards." This was said by William Arthur Ward a famous writer. I want to challenge you, find new opportunities and take advantage of them even if they are small. Each one has the potential to change and improve you. Take as many as you can find. You don't know how far they will take you until you take them.

I want to thank MIT for sponsoring this event. Without them this prizegiving would not be what it is now, and the prizes wouldn't be as generous as they are now. I wish you luck for your future science endeavours.

Aloysha Yashin



## Prize Giving Programme

**Wednesday, 26 August 2009**

**Masters of Ceremonies** *Charlie Ahn, Co-Convenor*  
*Carol Duffield, Committee member*  
MIT Manukau City Science and Technology Fair

**Welcome** *Charlie Ahn*

**Mayor's Address** *Len Brown, Mayor of Manukau*

**Convenor's Address** *Charlie Ahn*  
Macleans College

**Guest Speaker** *Alyosha Yashin*  
Premier Award Winner 2008

**Guest Speaker** *Emily Cole, St Cuthberts College*  
International Science Camp in Japan

### Presentation of Category Prizes

- 1. Years 7 & 8 – Living World** *Wellington Wai Shing, Managing Director*  
On behalf of Wai Shing Ltd
- 2. Years 7 & 8 – Physical & Material World** *Neil Allan, Club President*  
On behalf of the Kiwanis Club of Waiau Pa-Clarks Beach
- 3. Years 7 & 8 - Environmental Science/Planet Earth and Beyond** *Joan Ransom, Past President*  
On behalf the Kiwanis Club of Manukau
- 4. Years 7 & 8 Intermediate Consumer Science** *Lynne Jackson, Club President*  
On behalf of the Kiwanis Club of Drury
- 5. Years 7,8,9 & 10 Technology/Innovations** *Neil Pemberton, Managing Director*  
On behalf of the K P Sweeping Ltd
- 6. Years 9 & 10 Living World** *Joan Proffit, Club President*  
On behalf of the Kiwanis Club of Papatoetoe
- 7. Years 9 & 10 Physical World** *Bob Hudson, Central Workshop Superintendent*  
On behalf of NZ Steel Ltd



**8. Years 9 & 10**  
**Material World**  
Ltd

*Gerry Mekkelholt*  
On behalf of Gunac South Auckland/GME

**9. Years 9 & 10 – Environmental**  
**Science/Planet Earth & Beyond**

*Amanda Hardy, Manager*  
On behalf of the BNZ Manukau Store

**10. Years 9 - 13**  
**Secondary Consumer Science**

*Geoff Powell, Club President*  
On behalf of the Kiwanis Club of Pakuranga

**11. Years 11,12, & 13**  
**Senior Science**

*Len Brown, Mayor*  
On behalf of the Manukau City Council

***Musical Item performed by Teresa Wojtowicz from Macleans College***

### ***Special Prizes***

**Prize for Best Year 7 Innovation**  
**Invention or Investigation**

*Dr Stuart Middleton*  
On behalf of Manukau Institute of Technology

**Prize for Best Year 8 Innovation**  
**Invention or Investigation**

*Dr Stuart Middleton*  
On behalf of Manukau Institute of Technology

**Prize for Best Year 9 Innovation**  
**Invention or Investigation**

*Dr Stuart Middleton*  
On behalf of Manukau Institute of Technology

**Prize for Best Year 10 Innovation**  
**Invention or Investigation**

*Dr Stuart Middleton*  
On behalf of Manukau Institute of Technology

**Prize for best year 11 Innovation**  
**Invention or Investigation**

*Dr Stuart Middleton*  
On behalf of Manukau Institute of Technology

**Prize for Best Year 12 Innovation**  
**Invention or Investigation**

*Dr Stuart Middleton*  
On behalf of Manukau Institute of Technology

**Prize for Best Year 13 Innovation**  
**Invention or Investigation**

*Dr Stuart Middleton*  
On behalf of Manukau Institute of Technology

**School Encouragement Award**

*Dr Stuart Middleton*  
On behalf of Manukau Institute of Technology



<b>Best Soil Related Project Award</b>	<i>Gary Troup (Deputy Mayor)</i> On behalf of the NZ Society for Soil Science
<b>Best Use of Flour Award</b>	<i>Gary Troup</i> On behalf of the Baking Industry Research Trust
<b>Best Use of Statistics Award</b>	<i>Gary Troup</i> On behalf of the NZ Statistical Association
<b>Special Encouragement Award</b>	<i>Kevin Simpkin</i> On behalf of The Order of St John, Manukau Area Committee
<b>Environment Award</b>	<i>Len Brown</i> On behalf of Manukau City Council
<b>Best Project by a Maori Student</b>	<i>Dr Stuart Middleton</i> On behalf of Manukau Institute of Technology
<b>Best Project by a Pacifica Student</b>	<i>Dr Stuart Middleton</i> On behalf of Manukau Institute of Technology
<b>Award for Best Application of Electronics</b>	<i>Dr Stuart Middleton</i> On behalf of Manukau Institute of Technology
<b>New Zealand Heritage Award</b>	<i>Dr Stuart Middleton</i> On behalf of Manukau Institute of Technology
<b>University of Otago Award</b>	On behalf of The University of Otago
<b>Eric Clague Kiwanis Award</b>	<i>Stella Penn, Past Lt Governor, Division 10</i> On behalf of Kiwanis Clubs of Counties Manukau
<b>Presentation of the Premier Award</b>	
<b>Premier Award for Best Exhibit of the Fair</b>	<i>Dr Stuart Middleton</i> On behalf of Manukau Institute of Technology
<b>Concluding Remarks</b>	<i>Dr Stuart Middleton</i> On behalf of Manukau Institute of Technology





## Prizes and Awards

**Category 1 – Years 7 & 8**  
**Living World**  
**Sponsored by Wai Shing Ltd**

FIRST PRIZE  
**Matthew Cudmore**  
*Worm Farm*  
Buckland's Beach Intermediate School

SECOND PRIZE  
**Michaela Dowdeswell**  
*SILENCE! and not afraid to use it*  
Howick Intermediate School

THIRD PRIZE  
**Sarah McGrath**  
*Good or Bad- You Decide*  
Howick Intermediate School

HIGHLY COMMENDED  
**Lucy Peters**  
*Say Cheese*  
Somerville Intermediate School

**Category 2 – Years 7 & 8**  
**Physical & Material World**  
**Sponsored by the Kiwanis Club of**  
**Waiau Pa-Clarks Beach**

FIRST PRIZE  
**Nick Stanfield**  
*What's hot and what's not*  
Saint Kentigern College

SECOND PRIZE  
**Matthew Warner**  
*Sun Power 2*  
Elim Christian College

THIRD PRIZE  
**Aishwarya Gopalakrishnan**  
*Tough Nut To Crack*  
Somerville Intermediate School

HIGHLY COMMENDED  
**Joshua Kim**  
*Wind Power*  
Buckland's Beach Intermediate School

**Olivia Griffiths**  
*Turn Up The Heat*  
Buckland's Beach Intermediate School

**Jack Varndell**  
*Stressed Out*  
Buckland's Beach Intermediate School



## PRIZES and AWARDS

**Category 3 – Years 7 & 8**  
**Environmental Science/Planet Earth & Beyond**  
**Sponsored by the Kiwanis Club of Manukau**

FIRST PRIZE

**Zanle Louw**

*Death By Stormwater Pipes*

Howick Intermediate School

SECOND PRIZE

**Joshua McDonald**

*Recycled Glass*

Somerville Intermediate School

THIRD PRIZE

**Jack Crenfeldt**

**Casey Winchcomb**

*It's a Stream, Not A Drain*

Howick Intermediate School

HIGHLY COMMENDED

**Niket Shah**

*I'm Breathing Here*

Howick Intermediate School

**Florence Saxer - Tidswell**

*What Type of Grey Water is Best for Plants*

Somerville Intermediate School

**Category 4 – Years 7 & 8**  
**Intermediate Consumer Science**  
**Sponsored by the Kiwanis Club of Drury**

FIRST PRIZE

**Georgia Hanley**

*Stuck On You*

Bucklands Beach Intermediate School

SECOND PRIZE

**Rick Sinclair**

*Bad Bacteria*

Somerville Intermediate School

THIRD PRIZE

**Jessica Kelly**

*The Icing on the cake*

Drury School

**Matthew Twyman**

*Is your tin full of Fruit?*

Somerville Intermediate School

HIGHLY COMMENDED

**Zena Al-Ani**

*Cure That Cold*

Somerville Intermediate School

**David Curtis**

*Germ Busters*

Tyndale Park Christian School



## PRIZES and AWARDS

**Category 5 – Years 7 - 10**  
**Technology Innovations**  
**Sponsored by KP Sweeping Ltd**

FIRST PRIZE  
**Luke Turner**  
*Feed me please*  
Maraetai Beach School

SECOND PRIZE  
**Griffin Hill**  
*How can I guarantee my dog gets clean water*  
Somerville Intermediate School

THIRD PRIZE  
**Martin Buys**  
*Cold Play*  
Howick College

HIGHLY COMMENDED  
**Claudia Burke**  
*Way 2 Go*  
Somerville Intermediate School

**Nic Apanui**  
*Cat Toy Box*  
Somerville Intermediate School

**Category 6 – Years 9 & 10**  
**Living World**  
**Sponsored by The Kiwanis Club of Papatoetoe**

FIRST PRIZE  
**Lesley Wild**  
*Remember Me?*  
Pukekohe High School

SECOND PRIZE  
**Angel Nurdjaja**  
*Ripening Ruckus*  
Elim Christian College

THIRD PRIZE  
**Nicholas Voke**  
*A Dose of DNA*  
Manurewa High School

HIGHLY COMMENDED  
**Astha Kantroo**  
*Slow Down, Break Down*  
Botany Downs Secondary College

**Nicole Wiremu**  
*Meaty Moments*  
Manurewa High School

**Choo-Hang Khoo**  
**James Coventry**  
*The Fat Files*  
Macleans College



## PRIZES and AWARDS

**Category 7 – Years 9 & 10**  
**Physical World**  
**Sponsored by NZ Steel Ltd**

FIRST PRIZE  
**Richard Jarvis**  
*It's shocking*  
Pukekohe High School

SECOND PRIZE  
**Winifred Lee**  
*Wooly Warm Winter*  
Howick College

THIRD PRIZE  
**Cynthia Shum**  
*Wind Energy*  
Howick College

HIGHLY COMMENDED  
**Duane Deetlefs**  
*Bridge Buster*  
Howick College

**Category 8 – Years 9 & 10**  
**Material World**  
**Sponsored by Gunac South Auckland**  
**GME Ltd**

FIRST PRIZE  
**Shanita Champion**  
*Bean Bones*  
Elim Christian College

SECOND PRIZE  
**Glen McIntosh**  
*Lemon Dilemma*  
Pukekohe High School

HIGHLY COMMENDED  
**Jonty Birch**  
*Saving Lives with Hot Ice*  
Pukekohe High School



## PRIZES and AWARDS

**Category 9 – Years 9 & 10**  
**Environmental Science/Planet Earth & Beyond**  
**Sponsored by BNZ Manukau Store**

FIRST PRIZE  
**Christopher Ryan**  
*Crystal Clear*  
Howick College

SECOND PRIZE  
**Cheyenne Welham**  
*Undigested*  
Macleans College

THIRD PRIZE  
**Aaron Henderson**  
*Hawking Radiation*  
Macleans College

**Category 10 – Years 9 -13**  
**Secondary Consumer Science**  
**Sponsored by the Kiwanis Club of Pakuranga**

FIRST PRIZE  
**Kelly Stewart**  
*Is Honey, Honey?*  
Manurewa High School

SECOND PRIZE  
**Megan Clark**  
*Hand sanitisers, how effective are they?*  
Pukekohe High School

THIRD PRIZE  
**Saimer Al-Bayati**  
*Farming for the Future*  
Manurewa High School

HIGHLY COMMENDED  
**Kelsey Morgan**  
*How Clean are your Hands?*  
Pukekohe High School

**Lara Croll**  
*Sticky Situation*  
Howick College



## PRIZES and AWARDS

### Category 11 – Years 11,12 & 13

#### Senior Science

Sponsored by Manukau City Council

#### FIRST PRIZE

**Anne Sim**

*CO<sub>2</sub> Gobblers*

Manurewa High School

#### SECOND PRIZE

**Vathna Am**

*Mother Nature's Little Helper*

Manurewa High School

#### THIRD PRIZE

**Ying On Chan**

**Sylvia Ma**

*Resilience*

Macleans College

#### HIGHLY COMMENDED

**Yuyun Huang**

*Apple zero*

Manurewa High School

#### **Gemma Wills**

*C How Hot is Healthy*

Elim Christian College

#### **Amy van de Weg**

*Getting into the Swing of Things*

Manurewa High School



## Special Prizes

**Prize for Best Year 7 Innovation, Invention or Investigation**

Sponsored by Manukau Institute of Technology

**Prize for Best Year 8 Innovation, Invention or Investigation**

Sponsored by Manukau Institute of Technology

**Prize for Best Year 9 Innovation, Invention or Investigation**

Sponsored by Manukau Institute of Technology

**Prize for Best Year 10 Innovation, Invention or Investigation**

Sponsored by Manukau Institute of Technology

**Prize for Best Year 11 Innovation, Invention or Investigation**

Sponsored by Manukau Institute of Technology

**Prize for Best Year 12 Innovation, Invention or Investigation**

Sponsored by Manukau Institute of Technology

**Prize for Best Year 13 Innovation, Invention or Investigation**

Sponsored by Manukau Institute of Technology

**School Encouragement Award**

Sponsored by Manukau Institute of Technology

**The Environment Award**

Sponsored by Manukau City Council

**Best Project by a Maori Student**

Sponsored by Manukau Institute of Technology

**Best Project by a Pacifica Student**

Sponsored by Manukau Institute of Technology

**Award for the Best Application of Electronics**

Sponsored by Manukau Institute of Technology

**The New Zealand Heritage Award**

Sponsored by Manukau Institute of Technology

**University of Otago Award**

Sponsored by University of Otago

**The Eric Clague Kiwanis Award**

Sponsored by Kiwanis Clubs of Counties Manukau

**Premier Travel Award for Best Exhibit of the Fair**

Sponsored by Manukau Institute of Technology



## Special Prizes – Award Winners

<b>Prize for Best Year 7 Innovation, Invention or Investigation</b>	<b>Luke Turner</b>
<b>Prize for Best Year 8 Innovation, Invention or Investigation</b>	<b>Michaela Dowdeswell</b>
<b>Prize for Best Year 9 Innovation, Invention or Investigation</b>	<b>Christopher Ryan</b>
<b>Prize for Best Year 10 Innovation, Invention or Investigation</b>	<b>Kelly Stewart</b>
<b>Prize for Best Year 11 Innovation, Invention or Investigation</b>	<b>Amy van de Weg</b>
<b>Prize for Best Year 12 Innovation, Invention or Investigation</b>	<b>Vathna Am</b>
<b>Prize for Best Year 13 Innovation, Invention or Investigation</b>	<b>Anne Sim</b>
<b>School Encouragement Award</b>	<b>Destiny School Alfriston College</b>
<b>The Environment Award</b>	<b>Cheyenne Welham</b>
<b>Best Project by a Maori Student</b>	<b>Nicole Wiremu</b>
<b>Best Project by a Pacifica Student</b>	<b>Alex Whitcombe</b>
<b>Best Application of Electronics Award</b>	<b>Luke Turner</b>
<b>The New Zealand Heritage Award</b>	<b>Susanne Mathews</b>
<b>University of Otago Award</b>	<b>Hannah Wood &amp; Lingliang Zhang</b>
<b>The Eric Clague Kiwanis Award</b>	<b>Luke Turner</b>
<b>Premier Award for Best Exhibit of the Fair</b>	<b>Anne Sim</b>





*Best Soil Related Project*

Sponsored by the New Zealand Society for Soil Science

**Matthew Cudmore**

***Worm Farm***

Bucklands Beach Intermediate School



**Best Project Using Flour**

Sponsored by the Baking Industry Research Trust

**Olivia Griffiths**

***Turn Up The Heat***

Bucklands Beach Intermediate School



Best Use of Statistics Award

Sponsored by The New Zealand Statistical Association

**Aditya Edekar**

***Science? Maths? Magic?***

Somerville Intermediate School



*Special Encouragement Award*

Sponsored by The Order of St John, Manukau Area Committee

**Puawai Felton**

**Havana Fletcher**

***Perfect Poi***

Manurewa Intermediate School





With Special Thanks to

THE SCIENCE FAIR COMMITTEE

Science Fair Co-Convenors	Marilyn Roberts & Charlie Ahn
Secretary	Liz Palmer
Treasurer/Sponsorship Convenor	John Bell
Judging Convenor	Rebecca Provan
Prize giving	Liz Palmer & Beryl McKinnell

And the many other members of the Science Fair Committee.

Special thank you to the Manurewa Intermediate School for hosting the MIT Manukau Science Fair Competition this year and to Manurewa High School Science Technician, Heather Wilson, for her invaluable contribution towards the running of the Science Fair.

Website: [www.sciencefairmanukau.wikispaces.com](http://www.sciencefairmanukau.wikispaces.com)