



Massey News

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ki Pūrehuroa



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An automated system provides detailed data on every fruit packed.

Kiwifruit packer bolsters industry capability

An automated kiwifruit packing system developed at the University means buyers will receive exactly the grade of kiwifruit they require at the right stage of ripeness.

The system, designed by Dr Rory Flemmer of the School of Engineering and Technology, has been developed with kiwifruit marketing organisation Zespri, after recognition that a lack of labour to pick and pack kiwifruit was hurting the industry.

An estimated \$19million is lost each year in exported fruit that reaches markets damaged or over-ripe.

Dr Flemmer says the new machine can grade to within 0.1 gram, using artificial vision to grade to Zespri standards, including blemishing, determine soft spots, label and pick and pack complex orders.

"The robot will not only reduce packing costs but will inspect and pack more consistently for 24 hours every day. It will also collect data that will enable coolstore operators to decide which fruit to market and at what time."

Information gathered can be used to provide custom-packed fruit for each market, and also to provide data on the kiwifruit as picked.

"For example, we will know how many fruits are coming in too large or small, too ripe or too blemished."

Dr Flemmer and students from the school custom-designed and built the machine, drawing from Dr Flemmer's international

experience automating production at companies including Bausch & Lomb, Nissan and General Motors.

One lane is being used at present, although the plant can run up to four lanes in each machine, packing 250 to 400 trays per hour. The next step is production of an automated robot, which will be able to pick the kiwifruit, Dr Flemmer says.

"We expect to have the picker robot running in a couple of months. It will be able to follow instructions to which part of the orchard to pick and will also store data – adding a whole new dimension to the traceability trend we are seeing.

"We also hope to use that robot for pollinating in the future, ensuring the robot is fully occupied in the different picking and pollinating seasons, and of course in different hemispheres as demand grows."

The kiwifruit packer is adaptable to pack almost any type of fruit or vegetables, Dr Flemmer says, and will be operated by about 1.5 staff each shift. He believes that a return to the "number eight wire" attitude in building tools to suit the environment may enable New Zealand to better compete and perhaps stem the flow of manufacturing plants heading overseas.

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Correction: Karen Kahukoti was incorrectly as Kim Rongonui in a photograph in issue 17.



Automation specialist Dr Rory Flemmer watches as the kiwifruit packing system picks fruit.

Kiwifruit packer boosts industry capability

from page 1

"Automation can substantially reduce labour costs to the point where New Zealand manufacturers can outperform Chinese manufacturers in terms of quality and cost and beat them at their own game.

"However, bringing in automation consultants or buying off-the-shelf machines are at best stop-gap measures – everyone can benefit from the advantages offered by systems freely available.

"The solution is to develop in-house capability to build intelligent machines with highly sophisticated vision systems working in conjunction with robots that can perform complex tasks very accurately and reliably. By increasing the technical level of a company, it will just keep winning."

Textile design industry top students

Top graduating textile design students were recognised this month with awards from the industry.

Senior Lecturer in textile design Dr Sandy Heffernan says the awards are an opportunity for the textiles industry to celebrate the achievement of outstanding fourth-year students.

Esther Bryant-Lindsay collected three awards.

The students' work is on show at Exposure, the College of Creative Arts' annual design exhibition in the Museum Building on the Wellington campus.

Awards:

Purfex Excellence in Textile Design for Apparel Award – Esther Bryant-Lindsay, \$500.

Bernina Excellence in Embroidery Award – Phillipa Cowdrey, Bernina overlocker.

Woolyarns Limited Jim Wood Memorial Scholarship for Innovative use of woollen yarn in viable commercial application – Kate Neeley, \$2500.

Blue Print Imaging Excellence in Textile Print Award – Cara Hunt, \$500.

Resene Best Use of Colour Award – Esther Bryant-Lindsay, Colour Match Pencil Set.

John Rainger Textile Interlining Award – Cate Busby, \$250.

Big Image Print Portfolio Award – Madeline McGregor, \$200.

MSO Design and Art Production Best Portfolio Presentation Award – Esther Bryant-Lindsay, \$250.

Digitex Most Innovative Digital Design Award – Louise Young, \$750.



Esther Bryant-Lindsay.

Massey News Readership survey

Massey News is produced and published by Communications and Marketing staff both on-line and also in print. Regular newsletters are sent by email highlighting stories in the latest print issue, with links to the website versions of those stories and others.

The Massey News website is about to undergo a significant upgrade and redesign that will make it more accessible, navigable and searchable for readers but we are keen to know what you think

of the content we are delivering, the method of delivery and how we could improve the products to better meet your requirements.

To assist us, would you please take a few minutes to complete the following on-line survey. To thank you for your time, completed surveys submitted by 10 December go into a draw to receive one of four \$100 book vouchers.

<http://news.massey.ac.nz/survey.html>

Virtual Eve: first in human computer interaction

The near-human performance of a virtual teacher called Eve created by Massey researchers has drawn the attention of scientists across the computing world.

Eve is what is known in the information sciences as an intelligent or affective tutoring system that can adapt its response to the emotional state of people by interaction through a computer system.

The system "Easy with Eve" is thought to be the first of its type.

The ability of virtual Eve to alter her presentation according to the reaction of the child facing her at the keyboard has been hailed as an exciting development in the \$25 billion e-learning market.

The Massey scientists, led by Dr Hossein Sarrafzadeh at the Auckland-based Institute of Information and Mathematical Sciences, tell the story of creating Eve and the teaching system in the latest issue of the leading international journal on information sciences, *Elsevier*.

Because one-to-one teaching is known to be the most effective teaching method, Dr Sarrafzadeh says the researchers wanted to create a virtual teacher that could pick up body language and facial expressions – like a real teacher – to interact and to ensure they are holding the attention of students.

He says the realisation that software systems would significantly improve performance if they could adapt to the emotions of the user has spawned research and development in the field of affective or intelligent tutoring systems.

"With rising demand for long-distance learning and online tutoring, a computer programme capable of detecting human emotions may become a critical teaching tool."

Although Eve was developed for one-to-one maths teaching with eight-year-olds, she

Class is in session for a virtual teacher capable of reading your body-language – and she's attracting world-wide attention.



is a significant new character in the future of human computer interaction and could be a personalised virtual tutor by any name.

Linked to a child via computer, the animated character or virtual tutor can tell if the child is frustrated, angry or confused by the on-screen teaching session and can adapt the tutoring session appropriately.

The animated Eve (with a human-sounding voice) can ask questions, give feedback, discuss questions and solutions and show emotion. To develop the software for this system the Massey team observed children and their interactions with teachers and captured them on thousands of images.

From these images of facial expression,

gestures and body movements they developed programs that would capture and recognise facial expression, body movement, and (via a mouse) heart rate and skin resistance.

The system uses a network of computer systems, mainly embedded devices, to detect student emotion and other significant bio-signals.

"When we interact with people we expect them to take note of our feelings and reactions. Soon we will be able to expect the same from a computer," says Dr Sarrafzadeh.

The introductory video of virtual Eve is available online: <http://news.massey.ac.nz/quicktime/eve-intro.mov>

Another record number for November graduation

A record number of doctorates will be awarded in November graduation ceremonies this year, with a total of 26 to be conferred on 30 November in Palmerston North.

Of the 26 new Doctorates, 20 will be awarded during the morning ceremony, the highest number awarded in a single ceremony.

Twenty-three will be new Doctors of Philosophy, two Doctors of Education, and one Doctor of Business Administration.

The morning ceremony will also see six

doctorates awarded to College of Education graduates, the largest number awarded in a single ceremony for the college, which has

a total of seven doctorates this month.

Three of those are staff, bringing the total percentage of academic staff at the college who have completed their doctorates to 80 per cent.

Education Pro Vice-Chancellor, Professor James Chapman is delighted to see the number increase, and says it reflects the maturity of the college's

merger into the university sector.

He also says it strengthens the quality of research and teaching.

"The feedback we receive from staff is that they find the experience of completing their doctorates incredibly valuable for their teaching," Professor Chapman says.

"Linking research to teaching leads to better results for students, and success in research for staff, particularly during PBRF."

Unlike the May ceremonies which are campus-specific, November graduation is nationally-focused and will see more than 470 graduates converge in Palmerston North for two ceremonies on Friday 30 November, and a ceremony for graduates of Te Aho Tatairangi at Hokowhitu on Saturday 1 December.



Successful bid brings conference to New Zealand

Associate Professor Subhas Mukhopadhyay, of the Institute of Information Sciences and Technology, has successfully bid to bring the 2009 United States Institute of Electrical and Electronics Engineers, "Sensors" conference to New Zealand.

The institute is the largest body of professional engineers, with about 300,000 members. Since its inception in 2002, the conference has enjoyed an atmosphere of high quality technical presentations on a broad range of multi-disciplinary topics related to sensors and their applications.

The conference will be held at the Christchurch Convention Centre during the last week of October.



Professor Tony Vitalis.

Award honours ergonomics expert

The New Zealand Ergonomics Society has honoured Professor Tony Vitalis for his services to the advancement of ergonomics with a special award.

If New Zealanders are all sitting a little more comfortably these days they may have Professor Vitalis to thank for it.

He started the University's ergonomics programme in the early 1980s and has supervised many of the postgraduate students now putting ergonomics into practice in industry. He has also taken an active role in the industry organisation.

Professor Vitalis came to Massey in 1980 with a PhD in ergonomics from London University. For more than 20 years he has headed what is widely acknowledged as the country's premier programme in this field and established the only dedicated programme available at postgraduate level.

New fellows to Royal Society

Two of 10 new fellows elected to the Royal Society of New Zealand are Massey professors.

Professor Peter Lockhart, of the Institute of Molecular Biosciences and the Allan Wilson Centre for Molecular Ecology and Evolution, and Professor Paul Rainey of the New Zealand Institute for Advanced Study were formally elected at the annual general meeting of the Academy of the Royal Society in Palmerston North earlier this month.

Professor Lockhart has research interests including plant species radiation, Pacific biodiversity, endosymbiosis and organelle evolution and evolutionary properties of DNA and protein sequences.

He is in England until Christmas, a Microsoft research fellow at the Isaac Newton Institute for Mathematical Sciences in Cambridge.

Professor Rainey, who joined the NZIAS at the Auckland campus earlier this year, has interests in ecology and evolution, particularly, but not exclusively, evolution by natural selection.

His team makes use of microbial populations in order to observe and dissect evolution in real time.

Professor Rainey says he has a growing

fascination in the evolutionary origins of multicellularity.

Other interests include the ecological significance of diversity in natural microbial populations; evolutionary processes determining patterns of diversity in space and time; and the genetics and fitness consequences of traits that enhance ecological performance in populations of plant-colonising bacteria.

Professor Marston Conder, president of the Academy of the Royal Society, says election as a Fellow is a mark of high distinction, reflecting many years of dedication, creative thinking, and world-class research and innovation.

"The Fellowship selection process is comprehensive, involving discipline-specific selection panels and independent international review, and only a small number of those nominated ever get through."

Three new honorary fellows were also elected.

The society now has 340 fellows and 48 honorary fellows.

Fellows are involved in providing expert advice, promoting scientific best practice, and disseminating scientific information.



Professor Peter Lockhart.



Professor Paul Rainey.

Key British agriculturists briefed on climate change

A return invitation to brief a key group of British influencers on impacts and opportunities around climate change saw Deputy Vice-Chancellor (Palmerston North) Professor Ian Warrington visit historic St George's House at Windsor Castle last week.

The session was probably best described as a "think-tank", Professor Warrington says. St George's House was built as a retreat for British clergy, with the modern church now allowing the venue to be used by others to address contemporary issues in a retreat environment operating under Chatham House Rules.

As well as senior British Government officials, major commercial interests and Sir Donald Curry, chairman of the British Policy Commission on the Future of Farming and Food, attended the session.

"It's a chance to pick up on a topic of considerable concern to the sector," Professor Warrington says. "For them to get their heads around what it means in order to provide a vision, a strategy and scope for moving forward."

Professor Warrington was first asked to present in 2002, when he spoke at the briefing



Professor Ian Warrington.

titled *Establishing a Future for Agriculture: Reconnecting Agriculture with its Public*.

The group then wanted to learn of the New Zealand experience of the removal of subsidies.

A former chief executive of Hort Research, Professor Warrington was able to give an overview, including talking about the transformation of the sheep industry, the emergence of horticultural industries including wine and the growth in diversity in the apple and kiwifruit sectors.

An environmental health specialist says noisy toys are still being sold on shelves, despite warnings seven years ago of the danger they pose to children's hearing.



Stuart McLaren with noisy toys, a hazard to children's health.

Noisy toys damage children's hearing

An environmental health specialist says noisy toys that could damage children's hearing are still being imported into New Zealand and sold in shops despite a warning seven years ago of the danger.

Stuart McLaren, a senior lecturer in the Institute of Food, Nutrition and Human Health at the Wellington campus, says many toys on the market are potentially damaging to sensitive little ears.

"Parents and childcare workers should stop to think about the noise that toys make, and how this noise could be causing injuries to babies and toddlers – those who don't or can't automatically pull away from a painful sound," says Mr McLaren.

"New toys come on the market every year. To test the container loads that pour into New Zealand in the lead up to Christmas is impossible without a huge increase in resources."

Mr McLaren says another issue is that many toys default to the loudest volume every time

they are turned on.

"You have to manually reduce the volume every time the toy is turned on. When it is turned off you are back to square one."

Mr McLaren says the worst toy he ever tested was an air horn toy for toddlers that produced more than 112dB at a distance of half a metre.

While these have not been seen in shops recently, he says a request to the Ministry of Consumer Affairs will be lodged if they or any toys like them return to the shelves.

A 30-second exposure to such noise amounts to the legal limit at an industrial site over an eight-hour day.

Toys in Mr McLaren's "bag of shame" include toy ghetto blasters, toy musical instruments, cap pistols, whistles, clackers, clickers, toy cell phones and some train sets.

He says the squeaks, bangs, ringing, whistles and clicks these toys produce could all be dangerous. Loud music and sirens could also cause problems.

Toys producing sharp, impact sounds are potentially the most hazardous.

"Parents and child care-givers are buying such toys in good faith, with the belief that they are safe. I suspect many are unaware that these toys could be damaging to young ears.

"If parents think a toy is too loud, then it probably is."

Exposure to excessive or unwanted noise affects our health and well being. The result may be significant hearing loss, with the accompanying trauma of social isolation later in life.

An estimated 6–10 per cent of children are suffering hearing damage by the time they reach school.

Mr McLaren says there is no legislation specifically covering noisy toys, nor is there mandatory testing of toys prior to going on sale.



Dr Chris Wilkins.

Smoking up in drug and alcohol trends

Smoking among young New Zealanders has risen slightly in the latest survey of household drug use carried out by Massey researchers for the Ministry of Health. Overall, the data from last year shows more people are drinking than in 2003 while the numbers who report using cannabis and amphetamines declined slightly.

The survey is led by Dr Chris Wilkins, from the University's Centre for Social and Health Outcomes Research and Evaluation, who analysed data collected from national household surveys carried out to survey drug use in 1998, 2001, 2003 and last year.

Dr Wilkins presented his findings on changes in trends this week to the combined Australasian Professional Society on Alcohol and other Drugs and Cutting Edge Addiction conference in Auckland.

Falling smoking trends were reversed by the 15 to 45-year age group where 35.8 per cent said they had smoked at least once in the previous year compared with 31.1 per cent in 2003. Overall a lower proportion of the population smoked tobacco last year (57.6 per cent) compared with 63.9 per cent in 2001 and 64.4 per cent in 1998.

Other key findings were an increase in the proportion of the population that had drunk alcohol last year, which rose to 85.1 per cent compared with 82.2 per cent in 2003. The researchers say this increase in the number of people drinking alcohol is consistent with the liberalisation of drinking laws.

Fewer people reported using cannabis last year – 17.9 per cent compared with 20.3 per cent in 2001. The number who reported using amphetamines had dropped but current users report they are using more. Researchers say that although use of amphetamines peaked in New Zealand in 2001 it is still high by international standards.

The survey sample size was 5475 in 1998 (with a 79 per cent response rate), 5504 in 2001 (80 per cent), 3042 in 2003 (68 per cent) and 1902 last year (69 per cent).

Nutritionists debate what to eat

What to eat, how much and why are issues to be addressed at major nutrition conference at the Auckland campus next month, where a key question will be whether having an abundant food supply is in fact a health hazard.

With an emphasis on questioning how much of a good thing is too much, the joint New Zealand and Australian Nutrition Societies' conference and annual scientific meeting from 5 – 7 December will bring together a host of international nutrition experts to share their latest research on everything from vitamin D and omega-3 to lifestyle diseases such as diabetes and cancer.

About 300 nutritional scientists, academics and practitioners from throughout the world are attending.

The conference theme, *Is the Quest for the Idyllic Lifestyle Killing Us?*, will see many of the presentations explore contradictions between the popular perceptions about the idealised healthy lifestyle of New Zealand and Australia and the reality of health statistics on obesity, heart disease and cancer.

"Both New Zealand and Australia are sold overseas to prospective immigrants and visitors as having the 'idyllic lifestyle' for living and bringing up children," says conference co-chair Welma Stonehouse, an Associate Professor in Nutrition at the Institute of Food, Nutrition and Human Health.

Research from both countries reveals that the image is not altogether true, she says.

"Although we have a bountiful supply of fresh foods and excellent opportunities for physical activity, these are not accessed by everyone."

As well as research on diseases, food and body chemistry by scientists from here, Australia and the United States, issues relating to the marketing of food and lifestyle as well

as the psychology of healthy eating are also on the agenda.

Keynote speakers include Associate Professor Lynn Moore, from the Boston University School of Medicine, and Professor William Harris, from the Nutrition and Metabolic Disease Research Institute, University of South Dakota.

Dr Moore will discuss the role of diet and activity during childhood, and Professor Harris will present the latest evidence on omega-3 health claims.

Food insecurity and its relationship to obesity is the theme of a presentation by Dr Cate Burns, of Deakin University, Melbourne.

Fellow Australian Heidi Auman, University of Tasmania, reveals whether seagulls scavenging on leftover junk food are fatter and unhealthier than gulls living off more natural fodder.

Massey Professor of Health Psychology Kerry Chamberlain takes an adversarial role in pondering the complexities of what constitutes a healthy lifestyle in the context of gender and culture, as well as within in medical framework, suggesting that the term "healthy" has a range of interpretations.

Other recent research projects from Massey include studies on the nutritional value of packed school lunches in New Zealand primary schools (see page 9), vitamin D deficiency and its health implications for South Asian women in New Zealand, women's beliefs about diet and health in the pre-conception period, and iron levels of young New Zealand women.

The conference offers special master classes for students and young researchers to network with experts in their field, including a breakfast where participants can discuss specific topics of interest with senior scientists.

Ako Aotearoa launched

Ako Aotearoa, the \$20 million national tertiary teaching excellence centre headed by Massey, was formally launched on the Wellington campus on 1 November.

Centre Director Peter Coolbear says the centre's cross-sector approach to boosting teaching quality includes all tertiary teaching and training – at universities, polytechs, wananga, private training businesses, in workplaces and in the community.

Speakers at the launch included Dr Karl Dodds of Christchurch Polytechnic Institute of Technology, winner of the Prime Minister's supreme award for teaching excellence last year; and Joey Randall, co-president of the national University Students' Association.

The launch was followed by a public lecture by Dr Coolbear on fostering the best possible educational outcomes for learners in the tertiary education sector.

"Good teaching is often hidden," says Dr Coolbear. "Ako Aotearoa aims to get good teaching out of the closet and grow New



Chair of the Board of Ako Aotearoa Professor Bryan Gould, Director Dr Peter Coolbear and Minister for Tertiary Education Dr Michael Cullen at the launch of Ako Aotearoa this month at the Wellington campus.

Zealand's educational capability. Our vision is the best possible educational outcomes for all learners and we look to achieve this by working in partnership with all those interested in enhancing the effectiveness of tertiary teaching and learning."

The launch followed a powhiri and site blessing on 4 July.

Why men are making career changes for teaching

The prospect of having more fun on the job and better work-life balance - despite the drop in pay - has been enough to motivate several men with well-paid professional careers to throw caution to the wind and go teaching.

A quarter of this year's post-graduate primary teaching diploma graduates at the University's Auckland campus College of Education

post-graduate primary teaching diploma are men - the highest number of men in one intake to date. This compares with the estimated 10 per cent of male teachers currently found in primary school classrooms nationwide, with some schools having no male teachers at all.

Three of the nine men from this year's class of 36 who are about to join the teaching workforce

have bucked the trend and ditched well-paid careers in engineering, law and telecommunications in exchange for the demands of the classroom.

John Sadler, aged 52, a drummer and former telecommunications technician who completed a music degree at Otago University before enrolling at Massey, believes teaching is one of the few "honourable" professions because to teach means you are not driven by money.

With a son aged 30 and daughter aged 29 (a teacher), Mr Sadler feels older teachers - male or female - have the life experience to better equip them for the demands of school. Teachers, above all, need plenty of patience - an attribute that tends to be well-honed with years, he says.

Craig Watson, a 35-year-old Briton who worked as an engineer for 15 years, agrees that experience outside teaching is an advantage when entering a classroom. "There a lot of pressures on kids these days," says Mr Watson, a father of two preschoolers. "I think when you go in with a bit more life experience you have a lot more empathy towards the students. You know things aren't straightforward in life and you know some of the problems they have aren't their fault."

Stephen Brady, a 36-year-old former chef who completed a law degree in England before moving to New Zealand with his wife and two children, says he always swore he would never become a teacher. He

jokes that his wife and his parents are teachers, and he objected to their "teacherly tones" outside the classroom. But the experience of mentoring students at a high school in England made him rethink his opposition.

The men say a drop in pay will be compensated for by having more time with their families after school and during school holidays. None

of them are complacent that the man drought in primary schools will mean they have an automatic advantage when it comes to job seeking.

"It doesn't matter what sex you are," says Mr Sadler. "If you're a good teacher, you're a good teacher."

And they are all aware of, but not deterred by, social anxiety regarding child abuse. Fear of sexual abuse accusations is widely thought to be



Dreams of better work-life balance prompted Craig Watson, John Sadler and Stephen Brady to quit well-paid jobs and train as primary school teachers.

one of the reasons men are reluctant to become teachers.

The rule of thumb is to ensure they are never alone with a child.

Job satisfaction, they agree, will come from seeing students progress and evolve over the course of a year, with getting to learn new things themselves as they are teaching, and contributing to children's overall learning.

Mr Watson: "We've learned from the course that teaching is not just about English and maths, it's about teaching kids' classroom management, respect and life skills.

"Coming from my career, although it had an interesting side to it, I could almost predict what my day was going to be like. Teaching isn't like that - that's the beauty of it. It keeps you on your toes.

"There might be some frustrating times, but you have to be flexible and ride with it. Training to be a teacher has been a breath of fresh air for me."

Michael Irwin, senior lecturer at the Auckland College of Education and expert in boys and education, says many of the men who opt to go teaching later in life have "had teaching in the back of their minds for long time."

It was vital to have a balance of good male and female teachers in schools, he says."

Secondary teacher pay ratification brings benefits

College of Education academics have welcomed the recent news of a pay ratification for secondary teachers that will give them a four per cent pay rise annually over the next three years.

Director of Teacher Education Dr Mary Simpson says it is pleasing to see settlement of the Post Primary Teachers' Association pay claim.

"Teaching is a challenging profession and the demands on teachers are increasing. It is important to support teachers in all sectors and at all stages of their careers as well as attracting and retaining quality teachers.

"A quality education system where teachers are well-regarded and adequately rewarded for their work benefits everyone."

Dr Simpson says the move will benefit more than just the secondary sector.

"Primary school teachers will also benefit from this settlement because of pay parity. Combined with the recent announcement of new scholarships from the Government, it helps enhance teaching as a rewarding and attractive career option."

Dr Simpson also says that with the need to enter more teachers into the teaching profession, comes a need to ensure that teachers are best prepared for the demands of the modern classroom.

While the pay settlement reflects the challenges teachers face, Massey academics believe it's vital that their preparation does too. A new four-year programme has been launched by the University, that combines a dual qualification and recognises that graduates

will enter a specialist profession which brings many challenges.

"The programme is designed to ensure beginning teachers develop depth in key areas such as literacy and numeracy as well as future-focused skills in ICT and understandings of biculturalism and inclusion," Dr Simpson says.

"These are some of many key areas identified by researchers as being priorities to enhance and grow the education standards in New Zealand."

The new programme will be available internally at Palmerston North and Napier and extramurally by distance education from next year.



Dr Mary Simpson.

Student designers dazzle

Devices to cool drinks, help diabetics and sort junk mail were among the innovative design gems at an expo of projects by top students from the Auckland-based School of Design recently.

Kent Hodgson's Huski beverage cooling system has attracted media attention nationwide and in Australia with its simple method of instantly cooling a warm beer in seconds.

The gadget – which does the job of a cumbersome chilly bin but in a fraction of the time – consists of a cooling cell, or rod, filled with liquid carbon dioxide from a replaceable carbon dioxide canister.

As the carbon dioxide enters the cooling cell, it expands and is transformed into dry ice in a second. When placed into a tepid bottle of beer, juice or wine the cell rapidly cools the drink.

It was one of 30 designs showcased at the Britomart Pavilion in an exhibition of research projects by students in their final-year of a four-year degree majoring in either transport, industrial or visual communication design.

Other highlights included an E-Box – a unique, stylish green letterbox designed to minimise paper waste by accepting downloads of junk mail advertising in digital form and eliminating the need for traditional paper brochures and leaflets.

Designer Neeam Al-Haseny says her project arose from an observation that most people are interested in some advertising, but were not able to select what came through their ordinary letterboxes. Her E-Box enables people to choose what advertising they wish to view.

The Quash Board, which resembles a boogie board but for use on land, was designed by Deborah Mortensen. It promotes exercise while managing glucose levels for children who have diabetes.

Fine Arts award

Fine arts student Samantha Wallis has won this year's Harry van Der Lecq scholarship, worth \$4000.

Head of the School of Fine Arts Professor Jeremy Diggle presented the award at the opening of the annual Fine Arts exhibition on the Wellington campus.

The award is for the leading student in painting at third-year level.

To read the latest in news from Massey, complete with colour pictures and video clips, or to sign up for one of an expanding range of e-mail newsletters, visit us online: <http://news.massey.ac.nz>



Representatives of the Len Lye Foundation Evan Webb and Roger Horrocks.

Creative festival winds up

The fresh winds of creative arts blew through Wellington and Auckland this month at the College of Creative Arts' inaugural festival, Blow – Ngā hau e whā.

Creative artists and designers from around the world took part in 24 exhibitions, screenings, fashion shows, public lectures and symposia.

Head of the College Professor Sally Morgan says the college acts as an ideas factory, producing some of New Zealand's best-respected artists and designers.

"Many of these have been instrumental in shaping our national identity through iconic imagery, or contributing to economic growth through the creation of original and desirable designs," she says.

Head of the Institute of Communication Design Dr Claire Robinson says she was delighted at the success of Blow, starting with the Hall of Fame dinner. Three distinguished graduates of the School of Design were inducted into the Hall of Fame.

They were Richard Taylor, Director of Weta Workshop; New York-based fashion designer Rebecca Taylor; and (posthumously) sculptor

and filmmaker Len Lye.

"It was well attended by senior members of Wellington's design and arts community, local and central government and friends of the College of Creative Arts," says Dr Robinson.

The evening featured a screening of Mr Lye's first movie *Tusalava* (1929). Ms Taylor, sent a video from New York accepting the honour. Roger Hart, a past teacher of Mr Taylor, showed an image of a magazine cover created by Mr Taylor while at Design School in 1986.

Mr Taylor said that coming to Design School was the best decision he could have made. He dedicated his award to another of his former teachers, Ron Burt, who recently died. Dr Robinson says Blow was a great opportunity to put the work of talented students and staff in front of a wider audience.

"We are really pleased at the public's response, as indicated by enthusiastic attendance at events." The festival wrapped up in style at Wellington's Museum Building last weekend with the Inno/vision fashion show, where fashion and textile design graduates showed their best.



Rebecca Taylor's family with Dr Claire Robinson. From left: Simon Taylor, Dr Claire Robinson, Bridget Kerr, Nikki Taylor and Todrick Taylor.

Research shows few children get a healthy lunch

Only one in 10 school lunch boxes contains food that meets nutritional guidelines for children, new research has found. And bad news for parents who do make the effort to provide healthy food is that the study found 80 per cent of the food thrown into school rubbish bins is the sandwiches, fruit and yoghurt children should be eating.

A survey of more than 900 lunchboxes was carried out by a team of Massey academics specialising in marketing, health sciences and human nutrition. Researcher Dr Emma Dresler-Hawke says that the packed lunch policy at most schools means that the content of the lunch box is a significant proportion of a child's nutritional uptake.

"One lunchbox had no fruit, no sandwiches, no yoghurt, just three packets [containing convenience snacks]. We don't know why, if it's because children are making lunch themselves, perhaps parents aren't seeing lunches as important?"

The research was undertaken at six Manawatu primary schools, covering both the most and least deprived as determined by the Education Ministry's decile rating. Dean Whitehead, of the School of Health Sciences, and Jane Coad, of the Institute of Food, Nutrition and Human Health, joined the project to work on policy recommendations and nutritional analysis.

Contents of lunchboxes were photographed at the start of the day to accurately capture contents and to ensure the children were anonymous. The contents were categorised by portion size and food group according to guidelines. While fruit or vegetables were present in 70 per cent of lunchboxes, only 32 per cent contained the recommended two servings.

Most food found was moderate to high fat, salt and sugar, with 15 per cent including sweets and 57 per cent containing potato chips. The typical lunch box contained three items of junk food.

Dr Dresler-Hawke reported that there was no significant difference in the lunchbox content from different decile areas. Sandwiches were most common, found in 71 per cent of lunchboxes, with 37 per cent containing dairy items and protein items were found in 5 per cent. Almost half (44 per cent) of the children had been given cakes, biscuits or muffins, while 45 per cent had muesli bars of varying nutritional value. The average lunch contained a white bread sandwich, a packet of potato chips and a biscuit or chocolate bar.

Worse news was to come after lunchtimes, when Dr Dresler-Hawke emptied all the rubbish bins in the schools to assess what was actually being thrown away. More than 80 per cent of the unconsumed items were sandwiches, fruit and dairy products.

"We collected all the unconsumed food, spread it out – it was incredible, the amount of healthy food like sandwiches, not even unwrapped. Good, nutritious fillings including tomatoes, cucumber and cheese sandwiches. Bananas never peeled, yoghurt not even opened – a real waste."

One class from each year (one to six) was assessed for the study. A follow-up with one school last week showed little had changed, Dr



Dr Emma Dresler-Hawke investigates a healthier lunch option.

Dresler-Hawke says, but she hoped to be able to assist by developing some policy recommendations which would provide guidance for parents and caregivers.

"A question raised here is 'how do well-meaning parents ensure the healthy lunch they prepare does not get thrown into rubbish at school?'. One option would be a zero-waste policy, whereby parents can monitor what their children consume."

Improving nutrition in children is one of our most pressing public health challenges, Dr Dresler-Hawke says. She suggests that a partnership approach is needed, between schools, parents and children, in order to develop a healthy lunch and overall food policy, within the school environment.



Lunchbox contents photographed during the research.

Wellington to host international conference

The University's Department of Communication and Journalism will host leaders in communication and journalism theory at the conference of their professional body in Wellington in July next year.

The annual conference of the Australian and New Zealand Communication Association attracts leading educators in communication, public relations and journalism from both countries.

The theme is "Power and Place", with an emphasis on politics. This will be the first time Massey has hosted it, bringing international specialists to Wellington.

Keynote speaker Professor Maxwell McCombs is famous for his development of agenda-setting theory. Professor McCombs has a chair in communication at the University of Texas and is author of numerous texts on democracy, media, power and communication research.

Other top speakers are: Jennifer Craik, Professor of Communication and Cultural Studies at the University of Canberra; Karen Ross, Professor of Media and Public Communication at the University of Liverpool; and Nicky Hager, researcher and author and member of the International Consortium of Investigative Journalists.

The Department of Communication and Journalism is now calling for papers for the conference.

College of Business completes operational structure review

The College of Business has recently completed a review of its operational structure.

The review considered the need for a flexible internal structure that recognised the needs of different campuses and disciplines, says Pro Vice-Chancellor Professor Larry Rose. The outcome of this review is a reconfiguration of the College structure through the amalgamation and renaming of departments. The restructure also saw six new heads of department appointed.

The restructure and renaming of the units reflects a move away from the advertising of academic units to the marketing of programmes, says Professor Rose. The changes to the names of units in the College of Business are as follows:

The Auckland-based Department of Management and International Business has been renamed Department of Management (Auckland) to take effect in 2009. The Department of Commerce at the Auckland campus, becomes the Department of Economics and Finance (Auckland) from 2009.

In Palmerston North and Wellington the newly formed Department of Management incorporates the former unit of the same name and now includes the Department of Management and Enterprise Development and the Department of Human Resource Management.

Also in Palmerston North and Wellington the newly named Department of Economics and Finance now incorporates the Department of Applied and International Economics and the Department of Finance, Banking and Property.

The Department of Communication and Journalism is now combined with marketing under the new structure as the Department of Communication, Journalism and Marketing (Palmerston North and Wellington).

The new Heads of Department are:

School of Accountancy, Professor Fawzi Laswad; Department of Management (Auckland), Associate Professor John Monin; Department of Economics and Finance (Auckland), Professor Ben Jacobsen; Department of Management (Palmerston North and Wellington), Professor Claire Massey; Department of Economics and Finance (Palmerston North and Wellington), Associate Professor Martin Young; Department of Communication, Journalism and Marketing (Palmerston North and Wellington) Associate Professor Frank Sligo.

The Graduate School of Business has been dis-established. Executive Education is now under the mainstream activity of the college, led by an Associate Pro Vice-Chancellor (Executive Education) Dr James Lockhart. Dr Lockhart was formerly head of the School.

Survey shows corporate commitment to sustainability

Auckland's bulk supplier of water and wastewater services, Watercare, leads the way in environmental responsibility in a survey of New Zealand's top companies by a University researcher.

The annual survey of corporate environmental and social responsiveness is carried out by the University's College of Business through its Programme for Business and Sustainable Development

The results show a greater awareness of sustainability issues and an increasing commitment by corporates to environmental management, says survey leader Dr Delyse Springett. She launched the first survey in 1999 to raise awareness of environmental issues and to set benchmarks for corporate responsiveness in New Zealand.

This year 15 companies that had been identified in previous years as wanting to improve their performance against sustainability criteria took part in Dr Springett's Leadership Survey – a measure of how top companies perceive environmental management as a strategic planning issue.

The participating companies provided data on their policies and practices relating to corporate governance, environmental targets, employee education, environmental objectives, environmental management systems and environmental supplier programmes.

A strategic approach to environmental responsibility forms the basis of the survey and provides guidance for those who are unclear about the processes that make up an environmental management system.

The results from this survey show progress has been made and sets new goals for conducting business in sustainable ways, says Dr Springett. Watercare Services came out top in the survey.

Next in the survey's ranking order based on environmental parameters were: Downer EDI Works, Vodafone NZ, Mighty River Power, Coca Cola Amatil NZ, Toyota NZ, Solid Energy, Mobil Oil NZ, Ravensdown



Fertiliser Cooperative, ASB Bank, and Sanford (equal ranking), ANZ Bank, Ballance Agricultural Nutrients, Fulton Hogan, British American Tobacco.

"These companies have shown a willingness to be accountable for their actions by taking part in this survey. They should be congratulated for helping to pave the way to a more sustainable New Zealand," says Dr Springett.



Gunhild Litwin and Adele Scott with copies of the New Zealand Curriculum. Second language learning is now a compulsory offering for schools.

Lecturer spreads word on maths

Watching her Cook Island mother making traditional tivaevae quilts prompted an early interest in patterns and a lifelong passion for maths for senior mathematics lecturer Bobbie Hunter.

She has just been named the Bevan Werry Memorial Speaker by the Association of Mathematics Teachers at its biennial conference to one of its members in recognition of her contribution to maths teaching.

Mrs Hunter was one of the keynote speakers at this year's event in September in Auckland. She is the first primary school maths teacher to receive the award. She says her love of numbers and mathematics was partly stimulated by her mother's tivaevae patterns.

"I'd always loved playing around with numbers and patterns," she says. "The tivaevae patterns are very symmetrical and complex."

Her penchant for numbers led to a primary school teaching career starting in Auckland and taking her to England and Papua New Guinea as well as schools throughout New Zealand.

She has been a senior lecturer in education at the College of Education in Auckland for the past four years and is currently completing her doctorate, in which she examines how teachers developed a community of mathematical inquiry to encourage students from diverse backgrounds (Māori, Pacific Islands and other cultures).

The award funds travel throughout New Zealand for two years to enable her to speak to maths teachers and maths associations.



Bobbie Hunter.

Stepping up to curriculum changes

The new New Zealand Curriculum was launched recently and brings new challenges for schools with the inclusion of second language learning as a new learning area.

All schools with students in years 7–10 will offer students the opportunity to learn a second language, but it will not be compulsory for all students to learn a second language.

Schools are expected to be working towards offering students opportunities for learning a second or subsequent language as it is likely that the requirement to offer languages will become mandatory, and in the longer term, the range of years in which languages are to be offered may be increased.

College of Education staff say that better support across the education sector is needed to effectively implement the changes nationwide.

Adele Scott, senior lecturer in the School of Curriculum and Pedagogy says a significant challenge lies ahead to up-skill teachers in schools and raise awareness of the curriculum changes to ensure students and teachers include language learning in their range of abilities.

"People should have the opportunity to learn a second language," Ms Scott says. "Regardless of their academic ability, the learning of a second language develops new skills that can aid in other curriculum areas."

Gunhild Litwin from the Centre for Educational Development is one of two languages advisers who support schools with the development of languages programmes, working with schools providing support for in-service teachers and principals. She says that with schools now working towards offering second language learning, where previously there may have been none, there is a need to ensure the new curriculum is adopted thoroughly and that quality education standards are met.

"While second language programmes will not be compulsory for schools from 2008, there is a clear expectation from the ministry of Education that schools with students in years 7–10 should be working towards including a quality second language programme when

designing their school curriculum," Ms Litwin says.

"We effectively have the next two years to ensure professional development opportunities are made available right across the country."

The Massey staff acknowledge that it is not only the schools that will need to rise to the challenge and say that for the first time all sectors from primary to tertiary will need to support each other in the decisions that are made about the teaching of second languages at school level.

Ministry funding for these initiatives is inadequate, the pair say.

"The support at a national level isn't ready yet," Ms Scott says. "This is why there has been a two-year period set before the second language programmes are made compulsory."

At Massey, the School of Language Studies in the College of Humanities and Social Sciences and College of Education staff have been working together.

"It gives us an opportunity to ensure a quality adoption of the new curriculum can be made, Ms Scott says.

For the primary school level in particular, the College of Education offers a paper entitled Teaching and Learning Languages up to Year-10. It provides an overview of the theory and practice of teaching a second language at years 1–10 in the context of the New Zealand Curriculum Framework.

Other programmes provide opportunities for teachers in training to enhance their skills in the teaching of languages. The Graduate Diploma of Teaching Secondary programme has papers aimed at those wishing to teach languages at Years 9–13 and the Bachelor of Education Teaching (Primary)/Diploma in Education Studies has already incorporated the new learning area next year.

The College also has two languages advisers who support schools with the development of languages programmes. It is one of a number of initiatives offered to support school staff and enhance professional development.

New body launched

About 100 representatives of New Zealand's design, manufacturing and production innovation sector came to the launch of a new industry body, hosted by Massey's Dr Aruna Shekar, a senior lecturer in product development at the Auckland campus.

Dr Shekar took the initiative of establishing a New Zealand affiliate of the Product Development and Management Association after negotiating with the American parent body of this organisation. She says the association provides access to an international body of knowledge and fosters networking between product innovation and management professionals. The organisation also promotes awareness among the business community, academia and government as to the importance of product innovation to the nation's economic wellbeing.

Win for Wellington Engineering grad

Palmerston North Engineering graduate Tom Guan Yu has won the Wellington regional Present Around the World competition, earning him a place in the Institution of Engineering and Technology South Pacific competition to be held in Australia.

Mr Guan Yu presented on a project he undertook for his Honours degree, to develop a robot controlled by mobile phone.

His robot can inspect inside or outside buildings using a camera which relays pictures to the mobile phone. The project was supervised by Amal Punchihewa and Liya De Silva from the Institute of Information Sciences and Technology.

Third-year students fighting crime

Third-year students from the Bachelor of Engineering (Software Engineering) turned to crime-fighting last month, developing an online version of the board game *Scotland Yard*.

The game involves four detectives working together to track down through the streets of London the villainous Mr X, who is fleeing via public transport. The students' challenge was to translate the game to a New Zealand context and implement it using web technology so people can play from remote locations.

The judges were InspireNet general manager Keith Linforth, Nick Evans of Solnet Solutions, and Sarah Cantwell and Mason Pratt of Provoke Solutions.

The winning team comprised: Matt Waldin (team Leader; and game design), Ashleigh-Jane Thompson (Google maps, user interface), Daniel Du Guzman (testing, documentation), James Jones (game engine programming), Laith Molan (web hosting), Michael Phung (architecture design). The team receives \$1000.



The Tree of Life with two of its makers Santos and Canhavato, Mozambique (2004).

Recycled art in public lecture

In the hands of artists, even decommissioned guns can be the raw material for a work of art, says a researcher interested in the anthropology of art.

With increased interest in sustainability, recycled art was the focus of a lecture this month at the Wellington campus.

Dr Patrick Laviolette, a senior lecturer at the School of Visual and Material Culture, says a Holden car made from corrugated iron and a cow made from corned beef cans are other examples of recycled art.

"New Zealand artist Michael Tuffery's sculpture *Pisupo Lua Afe (Corned Beef, 2000)* reminds us that New Zealand grocery exporters sent mixed blessings when they shipped fatty foods to Pacific Islands," Dr Laviolette says.

"My presentation challenges superficial views of 'recyclia' (or recycled art) and examines more conceptual, holistic perspectives. What does recycled art tell us about our society and the things we use and consume?"

"Seemingly un-aesthetic things associated with violence and waste can be transformed into creative messages that are both artistically beautiful and political."

Made by four Mozambican artists, the *Tree of Life* was commissioned by the British Museum and Christian Aid through the Swords Into Ploughshares project. The recycled gun sculpture is made from hundreds of weapons that are the legacy of Mozambique's 17-year civil war.

Unveiled in 2005 in the British Museum's Great Court, the 3m sculpture is on display in the museum's African galleries.

The School of Visual and Material Culture, part of the College of Creative Arts, is a centre of teaching and research excellence that seeks to develop new perspectives between people and things in the images and objects that shape everyday life.

It offers a Postgraduate Diploma in Visual and Material Culture, Master of Arts, Master of Philosophy and Doctorate of Philosophy.

Scientists win chemistry award

Associate Professor Eric Ainscough and Professor Andrew Brodie of the Institute of Fundamental Sciences have been jointly awarded the New Zealand Institute of Chemistry Prize for Excellence in the Chemical Sciences. The prize is \$1000 and a plaque.

Dr Ainscough and Professor Brodie have collaborated for almost 40 years in the area of transition metal chemistry, with recent work focusing on the interaction of metals with phosphazenes. This prize will be presented at the Royal Society of New Zealand 2007 Science Honours in Dunedin on 20 November.

Professor Brodie has also been named as the recipient of a New Zealand Science and Technology Medal.

These medals were instituted by the Royal Society at the request of the Government, which

funds them, to recognise and honour those who have made exceptional contributions to society and culture through activities in the broad fields of science, mathematics, social science, and technology.

They are awarded for conspicuous, continuing contributions to the promotion and advancement of science, mathematics, social science or technology over an extended period, or for an outstanding specific contribution to the advancement of science, mathematics, social science, or technology.

Professor Brodie's award is in recognition of a significant contribution to the promotion of science, in particular through his far-reaching activities at the secondary-tertiary interface. The medal will be presented in Wellington next month.



Virginia Jamieson.

Massey student-staffer wins phonebook art award

Massey University Foundation project analyst Virginia Jamieson has won the Manawatu Yellow Pages Group Art Award with her etch Manawatu Alphabet, which also took out \$5000 third place in the national telephone book art awards.

The etch will feature on the cover of next year's Manawatu telephone book.

Ms Jamieson, who is also studying public relations part-time at Massey, has a Bachelor of Architecture from Victoria University.

The foundation is a charitable trust that funds and supports projects enabling excellence in the delivery of teaching and research at Massey.

Ms Jamieson is also an artist, specialising in print making. Her winning entry is currently exhibiting at Hang Ups Gallery in Russell St, Palmerston North, in an exhibition based on the life of Wilkie Mardon and his sister Winifred, Virginia's grandmother.

Exhibition images include a family flaxmill at Rangiotu, the local school and local marae Te Rangimarie.

Ms Jamieson says she imagined the lives of the Mardon youngsters at Rangiotu and reflected on the past eight years when she has been resident in the Manawatu.

Ms Jamieson spent seven years working with exhibitions and special projects in the museum and art sector, including at Te Manawa from 1999 to 2005.

A printmaker since 2004, she is an active member of the Central Print Council of Aotearoa New Zealand, recently being involved in the 'Endangered Species' poet-printmaker project exhibited and auctioned at Bowen Galleries, Wellington. She illustrated Greg O'Brien's poem *Where You Stand*.

An etching involves zinc metal plates covered in a waxy substance called hard ground, into which the artist draws a reverse image.

After being dipped in an acid bath the zinc reacts, forming grooves in the surface of the plate. Ink is then applied to the surface and cleaned off leaving residue in the grooves. The image is transferred to paper through a



Manawatu Pu (Alphabet).

printing press.

Ms Jamieson believes hers is the first etching to feature on one of the 18 regional telephone books. The Yellow Pages Group Art Awards is one of New Zealand's largest original art competitions and has been held annually since 1990.

Printery wins top Australasian awards



Printery Design Studio Manager Fiona Brown, with Printery Manager Rob Roberts with Printery's two Gold Awards.

The University Printery has won top Australasian awards for excellence – one of only two New Zealand institutions to be recognised.

More than 100 people attended the Network of In-house Print Professionals Australasia awards recently held in Sydney, where The Printery received the Best in Category (Digital Print) Award, and also the Gold Award, which was presented to the highest scoring submission over a range of seven categories.

Printery manager Rob Roberts accepted the award on behalf of staff, saying the awards not only recognise the high level of quality produced by the in-house sector of the printing industry, but also demonstrate what can be achieved by a motivated team.

The Network of In-house Print Professionals Australasia was established in 1993.

Exam tips with a difference

Light-hearted advice for students has resulted in a publication of a different genre for Associate Professor Trevor Kitson. His *Examination Advice for Students of Organic Chemistry* published in the science humour magazine *The Journal of Irreproducible Results*.

Dr Kitson says he drafted the 30-point handout last year for his second-year students. Much of the advice is chemistry-based, and some related to things that many chemistry students actually do in exams – including using indecipherable and very small diagrams.

"Answer booklets are expensive," the advice says, "use the absolute minimum of paper by drawing your chemical structures as small as humanly possible."

Other notes are relevant to often-confused words including conformation and configuration, while other remarks are clearly tongue-in-cheek:

"Examiners enjoy the thrill of deciphering unusual hand-writing and award extra marks in return for the warm glow of satisfaction at having managed to read a particularly challenging example."

Though Dr Kitson has not distributed the advice this year, he does have it pinned outside his office door.

"So a lot of them are well aware of it. About 99 per cent of them clearly see the humour but I have had to explain it to one student."

It was a suggestion from students that saw Dr Kitson send the piece to the *Journal of Irreproducible Results*.

"I thought well I'll send it off and see if I can get it published then."

Public relations students win cycle-friendly national award

A campaign created by public relations students to get more people riding bicycles has won the Cycle-Friendly Award for Best Cycling Promotion sponsored by Sport and Recreation New Zealand.

Transport Minister Annette King presented the award to the Massey team at a cycling conference in Napier recently for their "On Ya Bike" campaign designed for Palmerston North.

The Massey team, from the Department of Communication and Journalism, beat entries from the Auckland City Council and Sport Bay of Plenty for the stylised bicycle bell-shaped trophy.

Mrs King says the students' campaign sent an important message. "One of the most important aspects of meeting New Zealand's goal of reducing greenhouse gas emissions is to initiate behaviour changes and cement the message that leaving the car at home and instead cycling, walking or taking public transport is usually a better and realistic alternative."

"On Ya Bike" was designed as part of last year's course work. The students were responsible for all aspects of the campaign, including research, planning and finding funding.

Public relations lecturer Kane Hopkins says the win is a "stunning achievement" resulting from a really solid campaign. "It is great for the team to be recognised for their hard work," Mr Hopkins says.

"The award is really a testament to some great ideas, hard work, and the ability to address the challenge as a local problem that needed local solutions. What the campaign



Public relations lecturer Kane Hopkins.

also demonstrated was how green issues need to be dealt with locally, as national pro-cycling campaigns don't always offer practical or relevant suggestions."

The students' three key messages – fitter, faster and free – highlighted that cycling is an alternative to driving. They developed eye-catching and innovative tactics to gain media attention. These included taking over a downtown car-park and installing bike stands to show that cycling is more convenient than driving, and organising a race from The Square to the Manawatu River bridge between local sports people and a radio station car, to show that cycling is faster than driving.

The SPARC (Sport and Recreation New Zealand) Cycle-Friendly Awards acknowledge and celebrate some of the most notable achievements that are helping to promote cycling and to create a cycle-friendly environment.

Tertiary Teaching Excellence Awards 2008

Massey University teaching staff are invited to apply for the 2008 Vice-Chancellor's Awards for Excellence in Teaching and for consideration for nomination for the New Zealand Tertiary Teaching Excellence Awards.

The Vice-Chancellor will grant up to four Massey awards of \$10,000 each to an individual or to a team. The awards will be judged within the following categories and according to the national criteria available on the Ako Aotearoa website: <http://ako.aotearoa.ac.nz>

- Sustained Commitment to Teaching Excellence
- Excellence in Teaching First Year Teachers
- The Darrylin O'Dea Award in the Field of e-Learning

To be eligible for nomination for both a Massey and a New Zealand Award, applicants will need to meet the criterion that they must make clear that they have practised and developed their skills, predominantly in New Zealand, over a minimum period of six years. However, for the Massey awards for categories two and three a minimum period is not required.

The University is entitled to submit up to three nominations for the national awards, which will be submitted within the criteria of Sustained Commitment to Teaching Excellence.

Applications for all awards will be by teaching portfolio. Portfolios must be submitted in the first instance to the Massey Teaching Excellence Awards Nominations Committee, Office of the Deputy Vice-Chancellor (Academic and Research) no later than 5pm, Monday 25 February.

This will enable the committee to make its recommendation to the Vice-Chancellor and for national award nominees to respond to committee feedback prior to their portfolios being submitted to Ako Aotearoa by 28 March. There will be up to nine national awards of \$20,000 each and a Prime Minister's Award of \$30,000.

Applications for both the Massey and the National awards will be considered in the first instance by the Massey Tertiary Teaching Excellence Awards Nominations Committee.

Application process

Teaching staff wishing to be considered for a Teaching Excellence Award are required to prepare and submit a portfolio that demonstrates the ways in which the relevant award criteria have been met. Six copies of

each portfolio should be submitted and, with respect to the Vice-Chancellor's Awards, must state the category of award being sought.

The Massey nominations committee will make its selections by the second week of March. It is anticipated that the portfolios selected for national award consideration may require further work including desktop publishing before they are submitted by the Vice Chancellor to the national selection panel. TDU will provide the national award nominees with the support required to undertake this work and engage a desktop publisher.

Please note that the timing of this process is very tight. Staff interested in submitting an application and portfolio should begin to assemble these immediately.

Those seeking further information on the awards scheme or assistance in preparing their portfolios should consult Gordon Suddaby, Director: Academic Development and eLearning (8805); any of the TDU consultants; by contacting the TDUs administrator on ext 8822; or emailing: tdu@massey.ac.nz.

TDU staff are willing to provide advice, support and resource material to assist in the development of teaching portfolios.

Optimisation of Services' Delivery Project update

There was a good attendance at an update of the Financial Services and Student Administration Reviews, currently being progressed, held for Palmerston North staff on 7 November.

Similar updates are to be undertaken at the Auckland campus on 19 November at 11am and at Wellington on 29 November at 9.30am.

Locations are to be advised through campus-all e-mails.

While the focus of the updates are on the two reviews that have commenced, all staff are welcome to attend.

The Review of Financial Services is progressing with processes outlines completed.

Greater engagement with staff involved in finance functions began on 12 November, with interviews and workshops planned on the Auckland campus from 19 to 21 November and the Wellington campus on 29 and 30 November.

Interviews and workshops for the Review of Student Administration will also be conducted on those campuses at the same time.

This is a busy period for all staff and the review teams and the commitment made by staff in agreeing to see the teams at this time of the year is greatly appreciated.

National roles for Massey student leaders

Massey University Students Association president Paul Falloon and long-serving Extramural Students' Society president Liz Hawes have been elected co-presidents of the national University Students' Association.

Mr Falloon and Mrs Hawes will take up the full-time paid positions, based in Wellington, in January.

Both will also step down next month as members of the Massey University Council, a role Mr Falloon has held for the past year; and Mrs Hawes since she became president of EXMSS in 1999. She is the longest-serving of the current councillors.

One of the co-presidents they will replace, Josh Clarke, is also a former Massey University Council member and was president of the University's Auckland campus students' association last year.

The new EXMSS president, when elected, will automatically have a seat on council, while the Auckland, Palmerston North and Wellington students' associations usually have one of their presidents representing the three groups.



Paul Falloon and Liz Hawes.

In the news

31 October

Radio Live: Professor **Peter Lineham**, from the School of Social and Cultural Studies, discusses the history of Halloween and how the holiday has seen a surge in popularity, even in New Zealand

1 November

TV3 Sunrise, tv3news.co.nz: Dr **Claire Robinson**, from the Institute of Communication Design, discusses the recent cabinet reshuffle and the need for it, but she suggests the reshuffle fell short of being a bold statement.

RNZ: Dr **Mike Joy**, from the Institute of Natural Resources, confirms the freshwater algae didymo has reached the North Island, which could severely damage the rivers and trout fishing. He criticises the lack of action taken by New Zealand biosecurity against the problem.

2 November

The Dominion Post, The New Zealand Herald, Waikato Times, RNZ, Marlborough Express, Gisborne Herald, Southland Times, The Daily Post, Nelson Mail: Dr **Chris Wilkins**, from the SHORE Centre, says that recent research has suggested the use of cannabis in New Zealand is falling as many have easier access to harder drugs such as ecstasy and methamphetamine, which they are using as alternatives.

4 November

Radio Live: Dr **Nigel Parsons**, from the School of People Environment and Planning, discusses Pakistan and the wider implications the country will face after the introduction of emergency law.

Sunday Star Times, Marlborough Express: Professor **Philippa Gander**, from the Sleep/Wake Research Centre, says New Zealand is seeing an increase in prescriptions for sleeping pills as people are using them for a quick fix for their exhaustion and stress.

6 November

The New Zealand Herald, Newstalk ZB, RNZ, RLI, Hawkes Bay Today, Greymouth Star, Westport News, Gisborne Herald, Christchurch Star, Bay of Plenty Times, Otago Daily Times, Marlborough Express, Nelson Mail: Dr **Chris Wilkins**, from the SHORE Centre, reveals research into the increasing number of smokers in New Zealand's, which has risen from 31.1 per cent to 35.8 per cent, particularly amongst young people who see smoking as cool.

Prime News, www.stuff.co.nz: Dr **Chris Wilkins**, leads research that has suggested the consumption of alcohol and party pills has risen amongst New Zealanders

Gisborne Herald, Otago Daily Times: **Kay Mathewson**, from the School of Psychology, says myths about obesity surgery need to be dispelled, as many think the procedure will be a quick fix for weight loss when in fact changes to lifestyle and eating habits are needed for weight loss to occur.

7 November

The New Zealand Herald, Gisborne Herald: **Paul Sweetsur**, from the SHORE Centre, has conducted research that has revealed wealthy teenagers are likely to drink more often as they can afford to, whilst less wealthy teenagers are more likely to binge drink once they can get a hold of alcohol.

The New Zealand Herald: Dr **David Chapman**, says a recent curriculum revision will still face the issue of promoting knowledge and economic growth whilst simultaneously promoting economic sustainability.

The New Zealand Herald: Professor **Sally Casswell**, from the SHORE Centre, says the Government's proposed changes towards alcohol advertising would be ineffective because they control only the content of advertising not the volume, as young people in New Zealand are being exposed to the advertising at a higher rate than those in America.

RNZ: Professor **Mason Durie**, Deputy Vice-Chancellor (Māori) says changes outside the health sector will make a huge difference to Māori health

outcomes, as Māori have already made huge progress in dealing with mental health and addiction issues.

www.marketwatch.com: Professor **Ben Jacobsen**, from the Department of Commerce, conducted a study that has revealed changes in oil prices can predict stock market returns throughout the world, where as previous suggestions had been made that there was no connection.

The New Zealand Herald: Dr **Sitaleki Finau**, Pasifika Director, says the Labour Party's decision to sit the Pasifika portfolio outside of cabinet will only work to marginalise any policy and strategy work for Pacific people.

9 November

The Dominion Post, Manawatu Standard, RNZ, TV One News, TV One Breakfast, Timaru Herald, stuff.co.nz, tvnz.co.nz: Dr **Roy Flemmer**, from the Institute of Technology and Engineering, has designed a kiwifruit packing machine controlled by computers, which will replace the unskilled labour used to sort the fruit.

10 November

The Dominion Post: Dr **Sue Cassells**, from the Department of Finance Banking and Property, conducts research into the recycling of end of line cars, suggesting that over 75 per cent of the car is recyclable yet poorly equipped dismantlers are not removing enough of the waste material.

12 November

RNZ: **Stuart McLaren**, from the Institute of Food Nutrition and Human Health, discusses toy safety and suggests that some toys pose a danger to the hearing of young children as certain loud toys can cause permanent hearing damage.





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Te Kūmanga ki Pūrehuroa

13 November

The New Zealand Herald, The Dominion Post, TV3 Campbell Live, RLI, Sunday Star Times: Dr **Emma Dresler-Hawke** conducted a survey into the healthy eating of New Zealand children revealing nine out of ten school lunches do not meet nutritional guidelines, and 80 per cent of food thrown into school rubbish bins was the healthy food children should be eating.

The New Zealand Herald, scoop.co.nz, TV One Tonight: **Kent Hodgson**, a design student, showcases his 'Huski' invention, a gadget that can cool a drink four times faster than regular ice using plastic cooling cells filled with CO₂.

Research Funding News

<http://www.massey.ac.nz/massey/research/fops/fo.cfm>

Contact Information:

For advice and assistance regarding funding applications, please contact your College Research Development Advisor:

College of Business

College of Humanities and Social Sciences

College of Creative Arts

Dr Victoria Bradley, v.j.bradley@massey.ac.nz
ext 81327 or 027 538 5338

College of Sciences

College of Education

Dr Kate Arentsen, k.arentsen@massey.ac.nz
ext 81326 or 027 544 7354

Auckland Adviser

Jo Stone, j.d.stone@massey.ac.nz
ext 9533 or 027 233 6333

Health Research Council – 2007 Round

Eustie Kamath, e.kamath@massey.ac.nz
ext 81344 or 021 387 843

For assistance in accessing funding opportunities or to receive Funding Opportunities Database training, please contact:

Research Funding Co-ordinator

Diana Young, d.m.young@massey.ac.nz
ext. 81341

Funding Opportunities:

International Council for Canadian Studies

Canada – Asia – Pacific Awards
23 November
Up to \$10,000 CAD

Education New Zealand

Export Education Innovation Programme 2007/08
27 November – EO1 to Prof. John Raine
Up to \$125,000

Health Research Council

Prevention of Noise-induced Hearing Loss
29 November
Up to \$500,000

Energy Efficiency & Conservation Authority

Solar Water Heating Innovation Fund
30 November
Up to \$100,000

Ministry of Education

Use of Technology to Improve Student Language Learning Outcomes: Evaluative Report and Case Studies
30 November
\$85,000

Ministry of Education

Teaching and Learning Te Reo Maori Years 7–8
30 November
\$200,000 per year for 3 years

National Occupational Health Safety Advisory Committee

Occupational Health and Safety in Small to Medium Enterprises
7 December
Tender

Foundation for Research, Science and Technology

Geothermal (GEO) 2007/08 Investment
30 January

Up to \$800,000

Creative New Zealand

-Screen Innovation Production Fund
-International Residencies
29 February
Up to \$25,000

Pacific Development and Conservation Trust

Project Funding
1 March
Unspecified

Marsden Fund 2008

The Marsden Fund supports research excellence in science, technology, engineering and maths, social sciences and the humanities.

The Royal Society of New Zealand is launching the 2008 Marsden Fund round with a series of roadshows at NZ universities and Crown Research Institutes. The roadshows are designed to give an overview of the Marsden Fund and advice on writing a successful proposal, as well as important dates for the 2008 round. The roadshows are an invaluable source of information for academics wishing to apply for a Marsden Fund research grant in 2008.

Representatives from the Marsden Fund will be at Massey University on:

27 November 2008 – Albany campus

28 November 2008 – Wellington campus

30 November 2008 – Palmerston North Turitea campus

Times and venues to be advised.

If you are interested in attending one of these events, please contact Kate Arentsen, k.arentsen@massey.ac.nz (x 81326).

Ministry of Women's Affairs' Research Forum

Strong and Safe Communities – Effective Interventions for Adult Victims of Sexual Violence Research Project

The Ministry of Women's Affairs (MWA) will be holding a forum for researchers who might be interested in tendering for research on sexual violence. The forum will be a whole-day workshop

Wharerata

venue • cuisine • events

Wharerata Big Breakfast

Thursday 20 December 8am-9am \$14 pp. Get your workmates together and come over for a tasty breakfast including a complimentary Xmas mince tart.

Homemade Christmas Cakes and Shortbread

Place your order for collection closer to Christmas or come across to the café to purchase now. Cakes are available in two sizes - small \$30 or large \$50. These are un-iced so you can ice with your own favourite recipe. Shortbread \$5 for a bag of 20 pieces.

Christmas Menus

We have a range of Christmas BBQ and buffet menu's to suit your budget.

For information and reservations contact Helen on 350 5088 or email h.poole@massey.ac.nz

held in Wellington on 3 December 2007, at a venue and time to be advised. We anticipate that the Request for Proposals for the research project will be released in early in 2008. Further details can be found on the MWA website.

Ako Aotearoa – New Zealand’s Centre for Tertiary Teaching Excellence

Ako Aotearoa aims to achieve the best possible educational outcomes for learners in the tertiary sector by improving the quality of teaching and learning.

Funding, up to a maximum of \$10,000 per project, for research or activity projects that align with Ako Aotearoa’s vision and priorities is now available. Individuals or groups may apply for funding and cross organisational collaborations are encouraged.

Ako Aotearoa’s Project Priorities for 2008 are:

- (a) Retention
- (b) Employability
- (c) Experiences in the first year of tertiary study
- (d) Contribute to Mātauranga Māori and meeting the needs of Māori learners.

Projects should focus on creating and supporting the best possible educational outcomes for learners in the tertiary sector. Projects should provide examples of good practice, identify the critical success factors and develop practical action-oriented suggestions for enhancing the effectiveness of tertiary teaching and learning practices, or may be action-oriented activities to provide staff development, share experiences or explore existing practice.

For further information, please contact Jo Stone, j.d.stone@massey.ac.nz x. 9533 or 027 233 6333.

Building Research Capability in Strategically Relevant Areas Fund: Veterinary and Animal Science Research Capability

Massey University was recently awarded a grant by the Tertiary Education Commission from the Building Research Capability in Strategically Relevant Areas Fund to enhance New Zealand’s veterinary and animal science research capability. These funds will be spent over two years, and this is the first of two requests for proposals; the second request will be made in September 2008.

Applications are encouraged in particular from veterinary and animal scientists who were classified in the R or C PBRF category in the 2006 evaluation. Collaborative applications across institutions are encouraged, and mentoring by recognised researchers is considered an advantage.

The six research funds are:

- Hopkirk Research Institute Fund - animal health research.
- Animals and Society Research Fund - animal welfare, companion animal and wildlife research.
- Ruminant Nutrition and Sustainability Research Fund - forages, nutraceuticals, and mineral supplements and their impact on animal health, environmental sustainability and product quality research.
- Animal Genetics, Epigenetics and Growth Research Fund - quantitative, molecular and epi- genetics and growth and development across the animal industries.
- Reproductive Management and Diseases Research Fund - reproductive diseases, reproductive performance and reproductive management across

the animal industries. Molecular Epidemiology and Risk Research Fund - biosecurity and food safety.

A copy of the application form can be obtained from the BRCRA Fund Secretary, Mrs Allain Scott, Institute of Veterinary, Animal and Biomedical Sciences, Massey University; email ivabs.postgrads@massey.ac.nz Please note the closing date for the applications is 30 November 2007.

Community of Science Funding Opportunities Database

The funding opportunities listed in this newsletter are only a small extract of available funding for New Zealand researchers. For the largest, most comprehensive database of available funding in all disciplines visit the Community of Science Funding Opportunities Database: www.cos.com/nz

To register for the following training sessions contact Diana Young, d.m.young@massey.ac.nz x. 81341.

- Auckland, 23 November, QB7, 11:00 or 1:30
- 12 December, QB3, 1:15 or 12:30
- Palmerston North 19 November, 3.19 Awanui Bldg, Hokowhitu 10:15, 11:15 or 1:30
- 21 November, BSC 2.02, 10:15, 11:15 or 2:15
- Wellington 27 November, Block 7D 07/09, 10:30, 12:00 or 1:30

Events

<http://events.massey.ac.nz>

PN – Tuesday 20 November 5.30pm to 7.00pm

PNMRF Colloquium: Dr Richard Isaacs and others
An evening of presentations describing current biomedical research taking place in the Manawatu supported by the Palmerston North Medical Research Foundation. Refreshments provided at the completion of presentations
Venue: Aston 1 Lecture Theatre
Contact: Hugh Blair
Ph: ext 5122

Prof Remco C.J. Zwinkels AK – Friday 30 November 12.00pm to 1.00pm

Does Finance Prosper Innovation? A Dynamic Panel Approach
In this paper we empirically assess the relation between financial development and financial structure on the one hand and the magnitude and quality of innovation on the other. Within a GMM dynamic panel approach with a broad range of countries and measures of both finance and innovation, we show that finance does matter, however that it does so in different ways for different aspects of innovation. In general, financial development does not appear to robustly accommodate innovation, or innovative performance. However, a more market based financial infrastructure is found to accelerate innovation, and a more bank-based system to

accelerate the performance of innovation. As such both finance and its structure do matter. <http://www.ru.nl/fm/zwinkels>

Venue: QB8
Contact: Rochelle Hughes
Ph: ext 9176

If you wish to register an event please use the online events submission form at <http://events.massey.ac.nz>. For other event enquiries please contact a campus events coordinator or email events-admin@massey.ac.nz.

Scholarships and Bursaries

<http://awards.massey.ac.nz>

A Snap-Shot of Scholarships Closing November 2007: full information about these scholarships and all others scholarships can be found on <http://awards.massey.ac.nz/>

Undergraduate

Kauri Museum Mervyn Sterling Memorial Scholarships – closing 1 December 2007

Kitchener Memorial Scholarship – closing 1 December 2007

NZ Energy Education Trust Undergraduate Scholarships – closing 1 December 2007

Rotary Club of Port Nicholson Goal Setter Awards – closing 7 December 2007

Postgraduate

JADE Student Scholarship – closing 30 November 2007

McKenzie Music Therapy Scholarship – closing 30 November 2007

Wool Research Organisation of NZ Inc & NZ Wool Industry Charitable Trust Post-graduate Scholarships – closing 30 November 2007

Pipfruit NZ Research Fellowship – closing 30 November 2007

Joe Walding Memorial Bursary – closing 1 December 2007

Kitchener Memorial Scholarship – closing 1 December 2007

Department of Conservation Southland Visitor Research Grant – closing 7 December 2007

Rotary Club of Port Nicholson Goal Setter Awards – closing 7 December 2007

BRCSS Masters Research Awards – closing 10 December 2007

Top Achievers Doctoral Scholarships – closing 12 December 2007

Tourism Research Scholarships – closing 14 December 2007

NOTICEBOARDS ARE AVAILABLE AT THE FOLLOWING LOCATIONS:
SOCIAL SCIENCES LECTURE BLOCK FOYER,
TURITEA SITE AND
IN EACH ACADEMIC UNIT

General Notices

27th Old West Road Race

10.6 Km Handicap Fun Run/Walk

Date Friday, 7th December, 2007

Time: First walker away at 11:30 and first runner away at NOON.

Place: Start BLEDISLOE PARK Finish ALAN JOHNS Building (AgResearch)

Entry: Send NAME, ORGANISATION, ESTIMATED TIME, PHONE No. and for a WFA factor: AGE and WEIGHT (Kg) to.

Mike Christensen (AgResearch 3568019, mike.christensen@agresearch.co.nz) or MATT NICHOLSON (Massey, m.j.nicholson@massey.ac.nz) or DON OTTER (FRC, ext 7043, don.otter@fonterra.com)

Eligibility: The event is open to all staff of the FITZHERBERT SCIENCE CENTRE and MASSEY UNIVERSITY campus.

Handicaps Handicaps based on your estimated time will be posted at start line from 11:30 am on race day. Sealed time percentage limits apply to all times outside of which 'burglars' will be disqualified.

Teams For each organisation the first 4 runners count (Massey teams will be at College level).

If in doubt check with organisers for further information regarding registration of teams.

Note:

Runners and Walkers compete at their own risk and the organisers accept, as usual, no responsibility for bad weather, tough competition, poor times, shortness of breath or wimpish failure.

Prize-giving Results and refreshments at Wharerata at 4:30 pm.

Massey News Online

If you want to read the latest in news from Massey University, complete with colour pictures and video clips, or if you want to sign up for one of an expanding range of e-mail newsletters, visit us online.

@Massey National

A fortnightly newsletter with the latest in news and research from the University's three campuses in Auckland, Wellington and Palmerston North.

@Massey Manawatu

A fortnightly newsletter providing news of interest to the Manawatu community, including cover of events and activities at the Palmerston North campus, as well as wider University news.

@Massey Business

A quarterly newsletter providing a snapshot of business news of value to the business community, from across the University.

@Massey Arts

A quarterly newsletter providing news of events and activities in design, fine arts and music, of particular interest to the Wellington arts community.

Submission of notices and events:

Submission of event notices should be made through the events website: <http://events.massey.ac.nz> by 12 noon Monday prior to publication.

All general notices should be sent to the editor editor@massey.ac.nz
Next deadline: Monday 23 November

The Next issue of Massey News will be the final edition for 2007

To read the latest in news from Massey, complete with colour pictures and video clips, or to sign up for one of an expanding range of e-mail newsletters, visit us online: <http://news.massey.ac.nz>

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Notices: All notices should be sent to editor@massey.ac.nz by Monday prior to publication. Event notices should be submitted to the web - <http://events.massey.ac.nz> and classifieds to <http://ads.massey.ac.nz> (please note that classified advertisements are a service for University staff. These are not published in the print edition of Massey News.

Advertising: All classified advertisements, including accommodation, are now available online at <http://ads.massey.ac.nz>
For paid advertisement enquiries, contact the editor.

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email: d.wiltshire@massey.ac.nz

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George Ivimey in sealskin attire at Bluff, November 1907 (E. Phillips/Elmsley Collection).



Two male models in Auckland, 1956. Sparrow Industrial Pictures (Auckland Museum).

New book opens the wardrobe on New Zealand clothing

A fresh look at the role of clothes in New Zealand history proves that clothing reveals as much as it conceals, says a cultural researcher.

Studying clothes and how they are worn provides a pathway into our history and culture, says co-editor Dr Bronwyn Labrum, a senior lecturer at the School of Visual and Material Culture.

"Despite a reputation for being wary of "looking flash", New Zealanders have not always been dowdy dressers," says Dr Labrum.

Looking Flash, Clothing In Aotearoa New Zealand examines what we wear and what we have worn – from shrinking swimming togs to the black singlet – over the past three centuries.

It is the first edited collection on clothing in New Zealand history and brings together a range of writers, both academics and those in museums and other institutions, to talk about a broad and surprising range of topics.

Dr Labrum says the book is full of unexpected stories.

"The shearer's wool singlet was originally a simple work garment, but was later adopted by cartoonists as shorthand for the good Kiwi bloke. Fred Dagg made it an icon in the 1970s; then women in the 1980s turned it into a fashion item. It now appears in gay nightclubs as dancewear."

The richly-illustrated essays span the clothing of pre-colonial Maori society, marching girls and castaways, and include 18th-century heirloom dresses, hand-me-downs, and wartime garb. There are also extraordinary stories about the fate of a Maori cloak and an Otago farmer's remarkable collection of 1970s high-fashion garments.

The book, published by Auckland University Press, will be launched at 5.30pm on Thursday (15 November) in Massey's Museum Building foyer, Buckle St, Wellington.

The School of Visual and Material Culture, part of the College of Creative Arts, is a centre of teaching and research excellence that seeks to develop new perspectives between people and things in the images and objects that shape everyday life.



Queen Elizabeth II and the Duke of Edinburgh chatting with champion shearers and brothers Godfrey and Ivan Bowen at McLean Park, Napier, 1954. (Archives New Zealand).