

Professor Ian Warrington (left) and Slipstream Automation CEO Mike Cook (right) in the lab with scholarship recipient Kristin Sze Mei Tham.

New scholarships for technology entrepreneurs

The University is funding three new scholarships, with the support of the Bio Commerce Centre, to encourage the entrepreneurial spirit of science and technology students in the Manawatu region.

Applications for the Bio Commerce Centre/Massey University Commercialisation Scholarship are open to postgraduate students undertaking a one-year, full-time research project with commercial potential at the Palmerston North campus.

The purpose of the scholarship is to promote commercialisation of technology and encourage entrepreneurial activity among Massey postgraduate students. The University's Deputy Vice-Chancellor (Palmerston North) Professor Ian Warrington says it is critical that students are aware of the interface between research and

commercialisation of emerging discoveries.

"We're in a global economy and our students have to be ready to work in any environment in the world. The Bio Commerce Centre has been a very good initiative in focusing on that interface and has been critical in providing integration between the various research and tertiary institutions in the region," Professor Warrington says.

The \$15,000 scholarship is funded by Massey, and the Bio Commerce Centre will provide commercial guidance and the opportunity for the recipient to base themselves in the centre's business incubator.

Two Summer Scholarships have also been established to build relationships between Massey, the Bio Commerce Centre and local industry. Massey will fund two \$5,000 scholarships a year for three years, aimed

at undergraduate or postgraduate students undertaking practical work experience in their summer break.

The inaugural recipients of these scholarships are Kristin Sze Mei Tham and Yin Zhang.

Ms Tham, a third-year Bachelor of Engineering (Biotechnology) student, is working with the Bio Commerce Centre resident company Slipstream Automation to finalise development of a robotic plant-DNA extraction kit to speed up DNA analysis in laboratories.

Ms Zhang recently enrolled in a Masters of Technology and will work with contract beverage-manufacturing company Xenos, another Bio Commerce Centre resident company, on bottle-sterilising technology.

Five new members on University Council for 2007

The University Council has five new members following Court of Convocation and staff elections and changes in student appointments.

The two new members elected by the Court of Convocation are Susan Baragwanath, of Auckland, and Bruce Ullrich, of Christchurch.

Dr Baragwanath is a former Massey extramural student and research affiliate and was awarded an honorary doctorate by Massey in 2005. She was founder of the chain of 35 He Huarahi Tamariki Schools for teenage parents.

Mr Ullrich, OBE, is an accountant who runs an international business firm with close links to the Chinese education sector. He has been Chef

de Mission of three New Zealand Olympic and Commonwealth Games teams, has an accountancy degree from Canterbury and an MBA from Massey.

Colin Anderson, from the School of Language Studies in the College of Humanities and Social Sciences, is the new academic staff member. Andrea Davies, Regional Director of the Auckland Campus was re-elected by the general staff for a further four year term.

The new student members are Students Association president Paul Falloon and Veronica Tawhai who was nominated by the Māori Students' Association.

Seal of approval for Health and Counselling

The Health and Counselling Centre at the Auckland campus has come through a stringent appraisal process with flying colours. It joins the ranks of general practices that have been acknowledged for their provision of the highest standard in patient care. The seal of approval comes in "Cornerstone" accreditation from the Royal New Zealand College of General Practitioners.

Revamped Ruawhoro classes under way

The first students to study at the relocated Ruawhoro centre were welcomed on (date). The College of Education's Hawke's Bay site moved to its new premises at the Eastern Institute of Technology in Taradale late last year. Pro Vice-Chancellor Professor James Chapman says the move to improved facilities, along with the retention of the site's name and identity, is an important reflection of the College's ongoing commitment to the Hawke's Bay community.

New students get going

New students who will live on the Palmerston North campus spent the day settling into the halls of residence before being officially welcomed with a commencement ceremony and dinner on 19 February.

More than 1200 first-year students and their families attended the dinner and for many, the procession by senior staff in formal regalia was their first glimpse of traditional academia.

They were welcomed by Professor Ian Warrington, Deputy Vice-Chancellor (Palmerston North), and Mayor Heather Tanguay.

The ceremony was part of the *Let's Get Going* programme for all first-years, which features informative activities designed to make the transition to university life easy and enjoyable.

Teaching games across the Tasman

When it comes to teaching youngsters sport tactics Australians don't seem to mind if they get ideas from the opposition. A new teaching resource by Dennis Slade in the School of Arts, Development and Health Education is now used in five Australian universities for teaching the teachers how to teach games to children. The University of South Australia is the latest to order copies of *Attack and Defence in Team Games: A TGFU (Teaching Games for Understanding) Approach* for its undergraduate programme. The text is based on a culmination of Mr Slade's own research and work with children.



Professor Mason Durie, Professor Geoff Jameson and Gordon Suddaby.

Massey teams to head three national education projects

Massey University will lead three of the 11 tertiary education projects to receive \$9.7 million Government Innovation and Development Funding in the latest round.

They are:

1. Establishment of an inter-university Māori academic network to be led by Professor Mason Durie.
2. Creation of a New Zealand synchrotron support programme led by Professor Geoff Jameson.
3. Co-ordination and implementation of e-learning guidelines across the tertiary sector led by Gordon Suddaby.

Professor Durie, the University's Deputy Vice-Chancellor (Māori), says academic leadership is under pressure due to demand by government agencies and other organisations for qualified Māori staff.

He says universities are finding it hard to replace senior Māori staff in leadership roles, despite increasing numbers of Māori obtaining degrees and other tertiary qualifications, partly because the pay rates for academics cannot match either the private or public sector.

Funding, the amount still to be finalised, has been offered by the Tertiary Education Commission for a project to be known as MANU-AO (Māori Academic Network across Universities in Aotearoa), which Professor Durie chairs. It may include a virtual marae for academics to share teaching and research ideas.

Professor Jameson says the successful application Massey made on behalf of Auckland, Waikato, Victoria, Canterbury, Lincoln and Otago universities will facilitate New Zealand scientists' access to the \$A220 million Australian synchrotron facility, to be

launched this year in Melbourne.

A synchrotron is a huge machine about the size of a football field that creates beams of extremely intense light a million times brighter than the sun.

These are channelled into workstations and can be used simultaneously.

The Melbourne synchrotron will feature 10 beams that will benefit many areas of research across the University, including structural biology, nanomaterials research, soil science, and medical imaging in the veterinary school. He says it is very complementary to Massey's Nuclear Magnetic Resonance suite and x-ray crystallography facilities.

"It's a truly multi-use piece of equipment. It will transform basic science and applied science as well. It can be used not just for blue skies research but also in fields like engineering and technology. With any process which needs light, the synchrotron will do it better – from hard x-ray light through to infrared."

The e-learning guidelines project will cost about \$930,000 and involves 20 collaborative partners from across the tertiary sector, including four other universities, 12 polytechnics, Te Whare Wānanga o Awanuiāraangi, and private training providers including the New Zealand Tertiary College.

Mr Suddaby says the initiative is innovative and important and, because of its sector-wide involvement, probably unique in international education terms. It would build on earlier work, also led by Massey.

"The project provides a mechanism for introducing, developing, trialling, evaluating, and sharing exemplars of e-learning guidelines developed in the New Zealand context."

3D car design takes US top prize

Tim Renton, a Bachelor of Technology graduate who majored in product development, has won a United States design award for three-dimensional modeling. Mr Renton, aged 22 from Auckland, has been named winner in the first of what will be an annual competition run by Spatial, of Westminster, Colorado, a world leader in the creation of computer-aided design (CAD) packages.

He took the US\$5000 cash prize for his model Toyota GTi race car. Judges were impressed with the accuracy and detail of his entry in a competition which aims to demonstrate the innovative use of CAD system's design and documentation capabilities.



First meeting for college advisory board

The new advisory board for the College of Business held its first meeting on 1 February at the Auckland campus.

The board, chaired by Business New Zealand chief executive Phil O'Reilly, was set up last year by Pro Vice-Chancellor Professor Lawrence Rose. Shown above at the first meeting are Professor Rose left foreground, with Rodney District Council chief executive Vijaya

Vaidyanath on the right.

Other members and senior College of Business staff pictured are: Carmel Fisher, Dr Roger Wigglesworth, Edwina Neilson, Keith Wedlock, John Heng, Doug Matheson, Greg Smale, Dorenda Britten, Annah Stretton, Alistair Davis, Tom Quelch, David Frith, Paul Hocking, Fraser Bell, Dr James Lockhart, Alan Cassidy and David Ritchie.

New head of Commerce appointed

Professor Ben Jacobsen has been appointed as Professor and Head of the Department of Commerce in the College of Business.

The position was left vacant after the appointment last year of previous head, Professor Lawrence Rose, as Pro Vice-Chancellor of the College of Business.

Announcing Professor Jacobsen's appointment, Professor Rose noted his distinguished academic career and the international recognition that his research on investments has received.

Professor Jacobsen's academic work has been discussed in major international magazines and newspapers including *The Economist*, *The Wall Street Journal*, *The Financial Times* and *The New York Times*. His most recently published research,

on how factors like the change of seasons or an outbreak of war impact on the stock market, was also featured in the high profile Dow Jones business newsletter, *Market Watch*.

Professor Jacobsen has worked as a consultant for a large number of financial institutions and as a stock market expert and adviser to the media. He has written several books on investments and has been a columnist for Dutch magazines and newspapers. He ranks in the Social Sciences Research Network (SSRN) top 50 of the most downloaded business authors worldwide, with almost 15,000 downloads of his papers.

Professor Jacobsen was previously with the University of Amsterdam and Erasmus University in Rotterdam in the Netherlands.



Professor Ben Jacobsen.

Professor takes up prestigious role

Professor Janina Mazierska has been elected to a two-year term as Director of the Institute of Electrical and Electronics Engineers (IEEE) for the Asia Pacific region.

Professor Mazierska, head of the Institute of Information Sciences and Technology at the Palmerston North campus, is the first woman to lead more than 66,000 IEEE members in the Asia Pacific region.

The IEEE is a non-profit, professional association of more than 353,000 members in 150 countries, with a budget of \$US500million governed by 31 directors.

Through its members, the IEEE is an authority in computer engineering, biomedical technology and telecommunications, electric power, aerospace and consumer electronics among other areas.

It produces 30 per cent of the world's literature in electrical engineering, computers and control technology,



Professor Janina Mazierska

holds more than 300 major conferences annually and has more than 860 active standards with 700 under development.

Professor Mazierska completed her PhD at the Warsaw University of Technology in Poland and before joining Massey, she held various roles at James Cook University for more than sixteen years. She was also a Stanford University Visiting Scholar (Ginzton Laboratory) in 1991 and 1996.

Professor Mazierska is well known for her research into precise microwave characterisation of low loss materials (especially High Temperature Superconductors for which she has been elected an IEEE Fellow Class 2005, and for her service to the engineering profession worldwide.

Hydrogen energy research gets \$260,000 boost

A Massey scientist working on the development of nano-materials that could reduce global reliance on oil has been awarded a postdoctoral fellowship from the Foundation for Research, Science and Technology.

Dr Aaron Marshall, a researcher in the Institute of Technology and Engineering at the Palmerston North campus, has been awarded \$260,000 to carry out the three-year study.

Dr Marshall's research has the potential to place New Zealand as a world-leader in the production of nano-materials used in hydrogen energy technology.

His aim is to prepare nano-sized (dimensions of around 100,000 times smaller than the thickness of a human hair) particles for use inside water electrolyzers. Water electrolyzers make hydrogen and oxygen by splitting water molecules, which is normally a slow process

requiring large amounts of power.

These nano-sized particles can speed up this process and reduce the amount of power required. Dr Marshall says the process is the reverse of that used in fuel cells, with water and electricity used in the cell to produce hydrogen gas.

"Natural gas is the most common source of hydrogen used in fuel cells, which of course is not sustainable. Water electrolysis is a clean and simple way to produce hydrogen gas from electricity," he says.

The electrolyzers he is developing will



Dr Aaron Marshall

compete in supplying hydrogen gas for industry and automotive fuel cell applications.

If hydrogen is produced in electrolyzers using electricity from renewable sources, the gas is a completely clean and renewable energy carrier with the potential to replace oil as a main fuel source.

Dr Marshall developed chemical processes to produce nano-sized particles as a PhD student at the Norwegian University of Science and Technology in Norway.

In May 2006 he was awarded the Exxon Mobil Prize for his doctoral research and returned to Massey to take up a post-doctoral position.

Eighteen New Year honours

Three senior academics at Massey University – Professor Robert Anderson, Distinguished Professor David Parry and Dr Farah Palmer – received awards in the 2007 New Year's Honours list.

Former staff member Emeritus Professor Graeme Fraser and 14 alumni were also honoured in the list.

Vice-Chancellor Professor Judith Kinnear congratulated all staff members, former staff members and alumni who were acknowledged in the list. "Such honours are a mark of significant achievement in their academic fields as well as in their contribution to the community."

Professor Anderson, Pro Vice-Chancellor of the College of Sciences, became an Officer of the New Zealand Order of Merit, for services to science, education and cricket. He is also a Massey alumnus.

Distinguished Professor Parry became a Distinguished Companion of the New Zealand Order of Merit for his contribution to biophysics. The former head of the Institute of Fundamental Sciences, he is a world-ranked researcher in fibrous proteins.

Dr Farah Palmer became an Officer of the Order of Merit, for services to women's rugby and sport. Dr Palmer is a senior lecturer in coaching and sport management in the College of Business.

She has taken a one year research contract with the Ministry of Maori Affairs. Dr Palmer is former captain of the Black Ferns.

Professor Graeme Fraser became a Distinguished Companion of the Order, for his services to education and the community. He was Foundation Professor of Psychology at Massey, later becoming Assistant Vice-Chancellor (Academic), and is currently Chair of the Health Research Council.

Alumnus Lieutenant Commander Wayne Burton of the Royal New Zealand Navy became an Additional Officer of the Order.

Other University alumni whose contributions were acknowledged in the New Year Honours list were: Raewyn Clark for services to the community, Raymond Clarke for public services, Nicolette Dallow for services to the community, Rae Julian for public services, Peter Kerridge for services to rugby league and the community, Neville Mosley of the Corp of Royal New Zealand Engineers, Philip Palfrey and Kevin Reilly, both for public services, Mary Schnackenberg for services to people with visual impairments, Darryl Tracy from the Royal New Zealand Infantry Regiment, and Mark Wheeler and Mathew Williams from the Royal New Zealand Navy.

Power imbalance in health services planning

New research has identified problems with community participation in planning and setting up primary health services.

Community participation is a government requirement in the development, governance and monitoring of health services. But research by Dr Jan Lockett-Kay, from the Department of Management, suggests the traditional model of involving communities is not working.

"Health strategy implementation in New Zealand is prescriptive and centrally driven, yet requires community input," she says. "This should enhance the likelihood of health services reflecting the unique needs of the community it serves."

"But the challenge for health service planners is to manage the contradictions and tensions which emerge as a result of both centrally determined and community determined expectations."

Dr Lockett-Kay used as a case study the

establishment process for the Horowhenua Primary Health Organisation, which she observed over a nine-month period.

She found the effectiveness of community involvement is diminished by factors that include a power imbalance between the bureaucrats and community representatives, a lack of knowledge and understanding on both sides, and inadequate resourcing.

Her study suggests that power imbalances should be addressed, "Bureaucrats, health professionals and other experts must work with and along-side communities."

"All stakeholders, community, health professional and bureaucrat, have valuable knowledge to contribute to the planning process."

"The knowledge brought by community representatives is important and legitimate. Experts and community representatives must learn from each other."

"The unique needs of a community must

be incorporated in planning, and community representatives are very well positioned to take leadership in this.

Community participants should be involved in all decision-making processes and not excluded at various stages of the planning process simply because they do not have the knowledge and skills.

She says although the way the experts treated community people was not intended, "it sent a clear signal of disempowerment".

Dr Lockett-Kay says policy makers are aware that primary health services will not work in the longer term if they do not meet the needs of their communities and are not run in line with the community's "way of doing."

She says health service funders and providers are continually looking at ways to make community participation more effective. "New relationships and partnerships that challenge and modify existing networks are essential," she says.

New fine arts and music partnership established

New Zealand music and fine arts students will benefit from a new exchange programme with a leading British arts college.

The programme is being set up by Professor Matthew Marshall, who has been appointed to a one-year position as Acting Director of Music at Dartington College of Arts in Devon, England.

He has taken a year's leave of absence from his position as Interim Co-Director of the New Zealand School of Music.

A wide range of artists has been attracted to Dartington over the years, notably tenor Peter Pears, musician Ravi Shankar, and composers Igor Stravinsky, John Cage, and Benjamin Britten.

Dartington offers five fields of study: music, theatre, art, choreography and writing. Students are able to combine study in more than one field and gain a broader understanding of contemporary arts practice and research.

Since his appointment in August last year, Professor Marshall has been involved in contextual enquiry project supervision, music performance and teaching, and cross-disciplinary performance.

"The ability to work within and between different contemporary arts disciplines has a

particular attraction for me," he says.

"I've been fascinated by the fact that arts disciplines are often allowed to develop quite separately from each other, yet when they are combined, the creation of unique and novel concepts becomes possible."

Professor Marshall says the student exchange programme will give fine arts and music students from each institution the opportunity to experience an alternative context for their development as artists.

"Dartington College of Arts received a high rating in the last UK Research Assessment Exercise and this connection will provide the New Zealand School of Music and Massey's College of Creative Arts with an important and influential partner in the UK. It will also enable opportunities for staff exchange and research collaborations.

"The College is a vibrant community of artists who are at the cutting-edge of contemporary arts practice and research. It will be wonderful for Massey students to have the opportunity to be inspired by the progressive and radical approach that is part of the Dartington ethos," he says.

"I look forward to bringing my experiences back to Massey and the New Zealand School of Music."

Biochemist to join National Panel



Dr Mike Boland has been appointed to the National Science Panel, established by the Royal Society of New Zealand late last year.

One of 12 prominent science leaders appointed,

Dr Boland joined the Riddet Centre last year after 15 years in the dairy industry, first with the New Zealand Dairy Research Institute and then with Fonterra. He headed a group involved in protein research and was general manager for strategic research. He was also global programme leader for the New Zealand Dairy Board's "Milk Characteristics" programme, running a research portfolio with an annual budget of around \$8 million.

Professor Paul Moughan, co-director of the centre, says the appointment demonstrates Dr Boland's considerable standing in the scientific community.

The science panel will engage with science and business organisations, government and the public, and seek opportunities to optimise the value of science to New Zealand.

Do milkshakes fill the gap?

A Massey PhD student is looking for participants for her research into the effects of dairy proteins and peptides on satiety.

Based in the University's Riddet Centre in Palmerston North Ms Sylvia Chung is researching the theory that protein is more filling than either carbohydrate or fat, which may help facilitate weight loss over time. She says protein, and its relationship with satiety, is gaining more interest with the re-emergence of the popular high protein diets.

"Dairy product consumption has been associated with the maintenance of healthy body weight in humans," Ms Chung says. Her research will investigate the effects of whey protein, naturally present in milk, and a popular dietary protein supplement, on satiety and weight management.

Ms Chung requires 50 healthy volunteers between the ages of 18 and 40, and based in Palmerston North, to drink four different types of milkshake followed by a lunch meal, on four different days, and then answer questions regarding their sense of satiety.

The Riddet Centre is a partnership between Massey University and the universities of Auckland and Otago, with core strengths in nutrition, food functionality and food processing.

Where serial killers operate

Serial killers target victims from areas where more divorced people, single parents and unemployed live, new research shows.

The study, which explored variations in rates of male serial killers in different states of the United States, was led by University of Connecticut Emeritus Sociology Professor James DeFronzo working with researchers from Northeastern University in Boston and Villanova University in Pennsylvania, and Dr Jane Prochnow from Massey's College of Education.

Their report notes that the incidence of male serial killers varies widely among states but there has been little effort to attempt to explain the reasons for these differences. The new study is believed to be the first to show that both cultural and social structural factors play a role in the incidence of serial killing.

The researchers examined male serial killers in the United States from 1970 to 1992 using sociological perspectives identified in earlier research by Professor DeFronzo and Dr Prochnow.

They found that social structural factors, such as the percentage of a state's population living in urban areas, the percentage of divorced residents, one-person households and unemployed residents, helped to explain why some regions are home to more male serial killers. The study also found that cultural

factors, such as a high ratio of executions to homicides per state, hunting licences, subscriptions to magazines, enlistment in the National Guard and violent television viewing, also correlated with a higher rate of male serial killers.

Dr Prochnow says psychiatric analyses have been used to understand male serial killer activity, but this has not explained the considerable geographic differences that exist. "Many serial killers have had typically traumatic childhoods and childhood behavioural problems like abusing little animals and younger children. We were interested in the relation of structural and cultural variables as opposed to explaining the brutal actions of these killers simply in psychological terms."

The study focused on the United States because of regional subcultures and state differences in laws, including the death penalty, but Dr Prochnow says the findings are relevant elsewhere. "The structural variables which are indicators of vulnerable targets for serial killers are relevant to most societies, especially more developed societies. You would expect that other places, including in New Zealand, Australia, Britain, or Canada, which have higher percentages of one person households, divorced people and unemployed, would also have higher rates of male serial killers."



Dr Roger Lentle demonstrates human digestion

Animal digestion study may aid human obesity

A study of the ways in which different feed types and pasture cultivars mix and flow in the digestive tracts of sheep has applications to the development of nutritional treatments for human obesity.

Associate Professor Roger Lentle is collaborating with visiting French researcher Associate Professor Karim Bekkour to design a system to measure the extent to which feed mixes and flows through the digestive tracts of ruminants.

"By looking at what happens to different types of feed in the digestive tract, we will find which ones mix best in the rumen, and which animals consequently spend less energy digesting," Dr Lentle says.

He says although animal scientists have previously focused on feed conversion rates (how quickly the nutrients are accessed) not much is known about the influence of feed varieties on the mixing of digesta (food in the process of being digested). They will also investigate the effect of additives to feed, in particular the effect of additives that encourage large particles to slide over each other and mix more efficiently in digestion.

He says the results of this project will have applications for human health and the development of treatments for obesity.

"The flipside of knowing how to increase the digestibility of feeds for animals is knowing which materials decrease digestibility, and this can be applied to human nutrition and the development of food additives which may slow the digestive process, meaning people feel fuller for longer."

Dr Lentle is an internationally leading specialist on digestive tracts and rheology (the flow and morphology of materials) in the Institute of Food, Nutrition and Human Health at the Palmerston North campus.

Dr Bekkour is a petroleum engineer from the Louis Pasteur University, Institute of Fluid and Solid Mechanics, Strasbourg, France, who specialises in the rheology of drilling fluids. Dr Bekkour's visit to Massey is funded by the Royal Society of New Zealand.

Study traces the origins of the kumara

Genetic analysis of kumara by a Massey PhD student will determine whether they are varieties cultivated by Māori in pre-European New Zealand or varieties descended from those that travelled with early 19th Century whalers and sealers.

The question of their origin is at the heart of a Waitangi Tribunal claim to flora and fauna, and Andrew Clarke will be able to provide an answer within the year.

A researcher in the Allan Wilson Centre for Molecular Ecology and Evolution at the University's Palmerston North campus, Mr Clarke is analysing the DNA of the Polynesian kumara to trace the movements of pre-European Polynesians.

Using DNA fingerprinting, he is testing the theory that the kumara was introduced to Polynesia from South America about 1000 years ago. His research, supervised by Biology Professor David Penny, demonstrates how DNA from plants and animals that Polynesians took with them on their voyages can be used to reconstruct patterns of human movement in the Pacific.

Mr Clarke is studying the leaves of three varieties of kumara (Hutihuti, Taputini and Rekamaroa) that are not grown commercially but are maintained by the Government's Crop and Food Research Institute and Māori groups. He says the Owairaka Red, the most common variety on supermarket shelves, is definitely related to a type introduced by Europeans in the 1860s.

"It's clear that Māori had some kumara varieties before European arrival but it is also clear that American varieties were introduced. So we are looking to find exactly when this happened," Mr Clarke says.



Andrew Clarke

"It's a case of answering ethno-botanical questions with genetic tools."

He says the historical evidence of the kumara's journey currently being presented in the Tribunal case, gathered through written material such as shipping records, complements evidence based on genetic research.

The Allan Wilson Centre is a government-funded Centre of Research Excellence directed by Massey professors David Penny and Mike Hendy and which combines expertise from Massey, Auckland, Victoria, Canterbury and Otago universities.

From molecules to mozzarella

Milk proteins, and their roles in complex food systems such as cheeses, were the focus of a symposium hosted by the Riddet Centre at the University's Palmerston North campus.

Milk Proteins II: From Molecules to Mozzarella considered a range of key topics, including the nutritional attributes of milk proteins and the benefits they offer in food products.

Symposium organiser and Riddet Centre researcher Dr Abby Thompson says the presentations offered insights and opinion from internationally renowned experts, as well as the latest findings from talented emerging scientists.

Keynote speakers included Professor Patrick Fox, who delivered live presentations via a video link from the University College in Cork, Ireland. Professor Fox gave an overview on the origins of dairying, the evolution and classification of mammals and the evolution of lactation.



The symposium was organised by the Riddet Centre, Massey University, and Fonterra. The Riddet Centre is a partnership between Massey and the universities of Auckland and Otago, with core strengths in nutrition, food functionality and food processing.

A symposium programme can be read at: <http://milkproteinsymposium.massey.ac.nz>

Code-cracking adventures for kura kaupapa kids

Children returned to Kura Kaupapa Māori schools this month to the final book in a trilogy of space-adventure, code-busting chapter-books written in Te Reo Māori.

Darryn Joseph, a lecturer in Te Pūtahi a Toi (School of Māori Studies) at the Palmerston North campus, says the third book in the RT3 series stands alone, but also builds on the stories and characters developed in the first two.

In the third book, *Ki Tua o Tāwauwau*, Mr Joseph (who writes under the pseudonym Tākuta Hōhepa) includes a second point of view – that of Hinewai. He says Hinewai's gutsy character, and the fact that she piloted a spaceship in the first two books, proved popular with young readers, girls particularly.

"A second point of view makes for a more challenging read, which is the intention of this series – to extend kids' reading skills," he says.

The books contain themes children can identify with. The little hero, Rangi Tautoru, is brought up by his eccentric grandfather and goes on a space adventure with Hinewai, his best friend.

All three books feature the illustrations of award-winning illustrator Ali Teo and a major theme in the series is code language. The first book featured rhyming riddles, the second used illustrated riddles and the third features a code-wheel designed by Mr Joseph using a combination of numerical code, alien code, morse code and code made from traditional Māori motifs.

"The codes are like a secret language that readers can engage with and they add a fun challenge to the stories."

Mr Joseph has also included kiwaha (idiomatic expressions) to engage readers, and



Darryn Joseph

he invented a new genre of numerical rhyming karakia (like a cross between a sports chant and a karakia).

The books are written for 10-12-year-olds, and kohanga reo teachers have been reading them aloud to their younger pupils.

Mr Joseph was a finalist in the 1999 and 2001 Huia short story competition and in 2003 won the Huia short story competition with *Tama Tāhae, Tama Ora*.

He will finish his doctoral thesis on Māori literature this year, under the supervision of Professor Tai Black. He learnt Te Reo Māori as an undergraduate student at the University of Waikato and has fine-tuned his fluency through an honours year at Massey.



Dr Te Kani Kingi

New head for Māori research unit

A top academic and researcher of Māori health and social issues has been appointed director of Te Mata o te Tau, the Academy for Māori Research and Scholarship.

Inaugural director Dr Te Kani Kingi (Ngāti Awa, Ngāti Pukuko) says the academy aims to encourage greater research collaboration among Māori academics across Massey's three campuses.

The academy was founded in 2003 by Mason Durie, Professor of Māori Research and Development and Deputy Vice-Chancellor (Māori). It serves as an umbrella for existing Māori research units already operating at the University with the intention of forging stronger links and promoting more interdisciplinary contact between Māori academics.

Professor Durie and Dr Kingi also want to create better links between academics and external institutions and organisations with an interest in Māori development.

"If we want to further develop and build Māori research capacity, a comprehensive and more integrated approach is needed," says Dr Kingi.

The academy will provide a forum for Māori academics to meet and exchange ideas, through regular video-conferencing sessions, seminars and publication of research monographs.

"We've had very good growth in the number of Māori PhD graduates in the past few years," says Dr Kingi. "We want to ensure that this growth continues and that opportunities for ongoing development continue."

The name of the academy relates to Matariki, the star constellation known also known as Pleiades, and symbolises the promise of a fruitful year, and advancement of knowledge.

Dr Kingi was recently chosen as one of six people to represent New Zealand at this year's Commonwealth Study Conference, to be held next month in Delhi, India.

The conference is designed as a forum for top-level academics and researchers to exchange ideas in a quest to find solutions to pressing health and social problems.

Te Kaiwawao appointed

Te Tumatakuru O'Connell (Ngāti Raukawa, Ngai Te Rangi, Te Ati Awa, Ngai Tahu, Airani) has been appointed to the position of Te Kaiwawao at the Wellington campus.

He has been working as a Maori language lecturer for the School of Māori Studies for the past two years.

Te Kaiwawao assists in making the University accessible for all Maori by offering academic and personal advice that can assist students to achieve their academic potential.

Deputy Vice-Chancellor Professor Andrea McLlroy says Mr O'Connell brings considerable experience and knowledge to the position and will be a great asset to the campus and the University.

"As a member of my senior management team, he brings an important Māori perspective to our decision making and I welcome him to the team."

Mr O'Connell hit the ground running in



Te Tumatakuru O'Connell

January, when he was interviewed by Maori Television for a story about the quality of roof-collected drinking water.

Young designer wins NY trip

Fashion design graduate Sarah Smeath has jetted off to the Big Apple with Auckland designer Karen Walker.

Ms Smeath, of Wellington, is the recipient of the Air New Zealand Inspiring New Zealanders in Fashion scholarship, which includes a 12-week work experience programme and a trip to New York Fashion Week.

Her entry, an outfit inspired by an onion, caught Walker's eye, but the deciding factor was her drive and the experience she had already garnered in the industry, including an internship with Australian magazine *Rush*, work experience as an assistant stylist for *The Dominion Post* Fashion magazine, and writing for Wellington fashion magazine *Lucire*.

"She is a really busy girl and the ability to get off your arse and get out and do it, and do it a bit harder than everybody else, is a really important attribute in this business," Ms Walker says.

Originally from Kawakawa, Ms Smeath has called Wellington home for the past five years, during which she has completed a Diploma in Fashion and Technology, and a Bachelor of Design.

"I'm so lucky the internship is with Karen because so many of the people she has worked with and helped out are real success stories now," Ms Smeath says.

Memorial service for poet and teacher

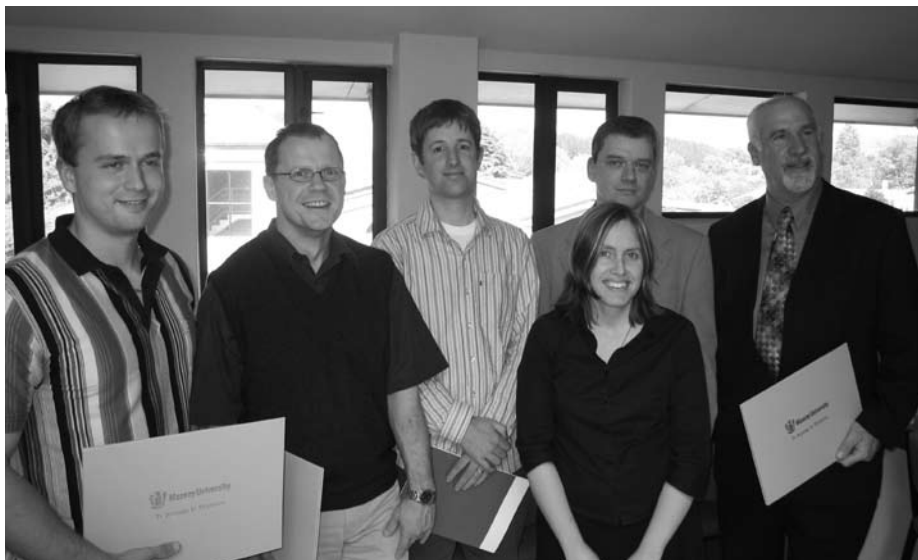
Staff of the Auckland campus will hold a memorial service next month for English tutor and poet Dr Theresia Liemlienio Marshall, who died suddenly on 1 January, aged 66.

Dr Marshall taught written communication for the School of Social and Cultural Studies and combined her academic career with writing and publishing poetry.

Longtime friend and colleague Dr Jack Ross says Dr Marshall made a significant contribution to multicultural writing in New Zealand and "was a unique voice in Pacific poetry".

A book of her poems, *The Pohutukawa-Beringin Tree*, was published by Griffin Press in 1993, with a second edition in 1997. She formed the Pohutukawa Press after Apirana Taylor, then writer-in-residence on Massey's Palmerston North campus, told her he could not find a publisher and Pohutukawa Press published his book, *Soft Leaf-falls of the Moon*, in 1996.

The school's Auckland campus administrator, Leanne Menzies, says Dr Marshall was "like a grandmother to the students. She loved them all".



Excellence in Business research

The rapid growth in the productivity and performance of College of Business researchers has been recognised, with Pro-Vice-Chancellor Professor Lawrence Rose and Director of Research Professor Anne de Bruin celebrating research achievements in 2006, at each of the three campuses.

Professor de Bruin acknowledged the College's success in the University Research Awards: Professor Rose was awarded the College of Business Outstanding Supervisor Award, Professor Klaus Dieter Schewe received the College Distinguished Research Award and a University Research Fellowship, and Dr Sebastian Link received an Early Career Research Award.

The ceremony also recognised researchers who were awarded 2006 College of Business Research Awards. Associate Professor Sven Hartmann, of the Department of Information Systems, received the Advanced Researcher Award and Dr Ben Marshall, from the Department of Finance, Banking and Property,

and Dr Nikki Hessel, of the Department of Communication and Journalism, were named Emerging Researchers.

Professor de Bruin also acknowledged staff who had received external awards. They included Dr Ian Laird, Centre for Ergonomics, Occupational Safety and Health, who received a prestigious Fulbright New Zealand Fellowship, and Qing Wang, Department of Information Systems, who was awarded a Bright Future Top Achiever Scholarship.

Other causes for celebration were the growth in the number of scholarships available to College students, the growing number of staff PhD completions, several external research grants, a large number of Best Paper awards, and a number of successful conferences hosted by the College.

Pictured above are Dr Sebastian Link, Professor Klaus-Dieter Schewe, Dr Ben Marshall, Associate Professor Sven Hartman, Professor Lawrence Rose and (front) Dr Nikki Hessel.

Massey lecturer wins UK award



Dr Madhumita Bhattacharya

College of Education researcher Dr Madhumita Bhattacharya is the inaugural New Zealand recipient of a Researcher Exchange Programme (RXP) award from the British Council. The award is designed to develop research links between Britain and other countries.

Dr Bhattacharya is a senior lecturer in the School of Curriculum and Pedagogy at the Palmerston North campus. The funding will allow her to collaborate with Dr Jon Dron at Brighton University, England. Their research looks at online learning environments for multicultural audiences.

"The globalisation of education cannot be achieved without adapting resources to different cultural values and ways of thinking," Dr Bhattacharya says.

"The UK and New Zealand are similar in their multicultural make-up, which is why this collaboration has come about."

This research area is particularly important for Massey, which has the most extramural students in New Zealand. The area is also a priority research topic for the Tertiary Education Commission and its British equivalent, the Higher Education

Funding Council.

The British Council is the British government's agency for cultural relations. It has awarded 70 grants to international researchers under the RXP awards scheme. New Zealand researchers



Dr Kerry Gibson.

Psychologists reach out to local community

The Centre for Psychology at the Auckland campus is opening its doors to the community, offering treatment and consultation.

"We have so many resources to offer, we can play an important role working with the many organisations and services that are already out there doing a very good job," says the new director of the centre, Dr Kerry Gibson.

The move to bring psychology to the community has been planned since the University established the centre – one of the largest in the country – a year ago. It is a centre for research and teaching but also for treatment and consultation across the community. The staff includes clinical psychologists, organisational psychologists, healthy psychology consultants and therapists.

Already the centre is reaching out to school counsellors across the

region to support them in their work. Dr Gibson comes to the centre with an extensive background in working with children and families and is driving the move to work more closely with the community and boost support resources in the region.

At the centre in Albany the services offered include psychological assessment and testing, psychotherapy, workplace counselling and support and a range of training options for psychology professionals working in the field.

"We are here to assist with the common psychological problems like depression and relationship difficulties to families and to individuals, and to offer our services, resources and expertise to organisations."

"This is an invitation to organisations to come and knock on our door," says Dr Gibson.

Gay churchgoers abandon mainstream religions

New Zealand lesbian, gay and bisexual Christians have quit mainstream religion at two-and-a-half times the rate of the general population, according to a Massey study.

"Christian religions by and large have done an excellent job in communicating that a Christian identity and a homosexual identity are incompatible, or at least difficult to reconcile," says report author Dr Mark Henrickson.

"A large number of raised Christians appear to have resolved the dissonance between their identities and their religion by leaving their religion."

The senior lecturer in social work at the Auckland campus has been working on *Lavender Islands: Portrait of the Whole Family* since 2004. It is the first national, strengths-based study of New Zealand's lesbians, gays and bisexuals.

The just-released study on gay spirituality and religion is a part of this broad survey, which also investigated well-being, politics, income and spending, careers, leisure and families.

Of the 2269 participants in the survey, 73 per cent said they were raised as Christians, with 22.5 per cent not raised in any religion. But only 15 per cent of raised Christians were currently practicing their religion, while 73 per cent of the gay, lesbian and bisexual participants were currently non-religious.

Buddhism, Islam, Hinduism and "other" religions accounted for only a small percentage of responses.

The difference between the 73 per cent raised Christian and the 15 per cent who are currently Christian "is a remarkable 80 per cent decline", Dr Henrickson says.

He compared the figures to those of the 2001 census, which revealed that people identifying themselves as Christian dropped from 90.1 per cent to 59.8 per cent – a decline of 33.6 per cent in 35 years when compared with figures from the 1966 census.

The results of the study showed that "for most people, if they are forced to make a choice between their religious faith and their personal identity, they'll choose their personal identity".

"What we can say is that whatever negative messages that organised religions want to communicate – they're working.

"They're not working to change gay people, they're working to drive them away," says Dr Henrickson, who is himself an Anglican priest, but stresses he is not speaking in his role as a clergyman.

While mainstream Christian denominations such as Anglican, Presbyterian and Methodist churches refrain from overtly preaching an anti-gay message, some individual congregations – particularly in Auckland – actively welcome the gay community. But there remains a perceived unease felt by many gays towards them from the church, the survey shows.

"In an era of declining mainstream church participation, churches may want to examine the way they're coming across, the way they're being heard," Dr Henrickson added.

Uncovering kiwi secrets

A Massey researcher camped out over summer with a brown kiwi population on a Hauraki Gulf island to find answers to some little-known kiwi secrets.

PhD student Birgit Ziesmann is studying the mating system and the social organisation of the North Island brown kiwi.

Ms Ziesmann is amongst a high density population on privately owned land on a Gulf island, just half an hour from Auckland city.

The larger number of birds in one place increases the opportunity for contact between birds and Ms Ziesmann has fitted tiny radio transmitters onto 38 kiwi to track their movements and contacts.

Typically there are two hatchings of young a year, the first in August and the second lot of chicks appearing around December. The large eggs take up to 85 days to hatch, solely incubated by the male. Until now, scientists have not known where the female parent goes or what she does while her egg is incubating.

"The females, just sort of wander off, unaccounted for during this time," says Ms Ziesmann who may be the first researcher to go in pursuit.

"It's been assumed that kiwi formed long term bonds but the data we've collected it reveals that female kiwi could be mating with a different male while her first partner incubates. This increases the likelihood of these kiwi having a polyandrous mating system where the female has chicks to more than one male partner," says Ms Ziesmann.

She expects genetic evidence may confirm this from analysis she is doing back at the laboratories on the Auckland campus.

Massey chair for Vision Manawatu

The Head of the Graduate School of Business, Dr James Lockhart, has been appointed as the new Chair of the Vision Manawatu Board of Trustees.

Dr Lockhart has been Acting Chair since former Chairman John Heng resigned in November last year and has been a Vision Manawatu Trustee since 2005.

Appointments chairman Paul O'Brien says Dr Lockhart is ideally qualified to chair the Board: "He teaches governance to post-graduate students, has been involved in strategic reviews for large New Zealand companies, and manages a farming business of his own.

"I am delighted that James has agreed to take on the role. He has a firm grounding in both theory and practice of governance and he has our full confidence."

The chief executive of Vision Manawatu, Andrew Powrie, said he was excited by the new appointment and by the dynamic nature of the refreshed board – four new trustees have been appointed since October last year.

Education is sweeter than a ban

Are negative effects from food and drink bans outweighing the gains? Health Education senior lecturer Kama Weir thinks so, and says they may actually be doing more harm than good.

She says there are more constructive ways to deal with youth obesity and health issues than banning the sale of 'bad' foods and fizzy drinks in schools, such as is happening across the country as the first term is under way.

A recent agreement between schools and soft-drink manufacturers has effectively banned the sale of full sugar beverages in schools, and will see them phased out over the next three years – something Ms Weir believes only addresses the cause and not the problem.

She says it's better to invest in programmes for health education rather than prohibition.

"The debate is over right of choice versus the right of state to make our decisions for us," Ms Weir says. "We need to educate children to make the right decisions, and they're more capable of it than perhaps we give them credit for."

Ms Weir believes that better resources are needed to educate both students and teachers to make their own healthy choices, and that even foods we consider to be 'bad' are healthy in moderation, if not for our bodies, but for our minds.

"Children need to feel empowered to make the right decisions about what, when, and how much they eat," Ms Weir says. "As educators, we have a responsibility to develop their critical thinking and encourage them to use their own initiative, based on the information we give them.

"This is why teachers need resources too. They're not nutritionists and rarely have a way to validate the messages they receive. We need to equip them to deliver healthy advice with regards to food choices.

"It's all too easy to say no." Ms Weir says,



"But the easiest solutions are not always the healthiest."

Ms Weir says that banning food and drink options within a controlled environment such as a school sends children the wrong message, and can lead to them having an 'anything goes' attitude outside of the classroom.

"Messages about food and nutrition are simple in biological terms, but in fact, are far more complex. People tend to apply very simplistic solutions to matters of diet."

The danger here is that food becomes associated with feelings of guilt and rebellion," she says.

"Food plays a significant role in our social and cultural lives. It is emotionally laden and for that reason, better health education is vital."

Ms Weir says she doesn't support the presence of corporations in schools, and believes that options for fundraising (other than selling chocolate bars) can be explored.

"Health education needs to be delivered in an impartial capacity, rather than with the outside influence of corporations, government, and lobbyists. It's all too easy to pollute educational resources with political agendas," she says.

How the world has changed

As a new class of students enters university this month, a team of New Zealand academics is helping their colleagues understand the historical, social, economic and cultural mindset of their students. The 2007 New Zealand Mindset List provides academic staff with insight into the events incoming first-year students have experienced, or not. The list captures a picture of New Zealand and the world in 1988, the year most first-year students were born.

"The principal purpose of the New Zealand Mindset List is to raise the awareness of our fellow academics that our students have grown up in a world that is different from our own. Their mindset is different, and we need to be aware of this in our teaching and our interaction with them" says team leader Dennis Viehland, an Associate Professor of Information Systems at Massey University's Auckland campus.

Most items reflect New Zealand events, such as the passage of the introduction of Fast Post or the vast economic changes brought on by "Rogernomics". Other items are derived from global events such as the end of the Iran-Iraq war and the Soviet withdrawal from Afghanistan, both events that are still very pertinent given today's headlines.

The 2007 New Zealand Mindset List is published on the Web at mindset.massey.ac.nz. Academics and others who want to contribute to the 2008 list are invited to contact Professor Viehland at d.viehland@massey.ac.nz

The term "Mindset List" is a registered trademark of Beloit College and is used with permission. All rights reserved.

The 2007 New Zealand Mindset List is copyright 2007 by Dennis Viehland. All rights reserved.

State house sales boost home affordability

Professor Bob Hargreaves, director of the University's Property Foundation, has a solution to the increasing problem of high rents and low home affordability.

He notes that the current debate about the lack of affordable housing in New Zealand has put the spotlight on the supply side of the housing equation. "Logically, increasing the supply of houses will moderate price increases. The big question is how to best achieve this."

His proposed solution would involve the Government taking a lead role in increasing the supply of affordable housing within the confines of our existing cities. He says by international standards, New Zealand towns and cities have a very low density of population per square kilometre. The internet encyclopaedia Wikipedia shows that these densities are generally less than half those found in Australian capital cities and a quarter of densities in many North American and European cities.

Professor Hargreaves' plan would increase the supply of housing at no cost to the taxpayer.

He says Housing New Zealand (HNZ) currently rents out around 66,000 state houses. "Using conservative values, we can assume these houses will be worth on average \$200,000 each, giving a total value of \$13.2 billion. Let us say for each year over the next five years the government sells 10 per cent of its rental houses at market value. First option to buy would be given to the existing HNZ tenants and the next option to other first-time buyers. For HNZ, the sale proceeds would come either directly from the purchasers' deposits and private sector mortgages or the HNZ could offer vendor financing and then secure the debt."

Sale proceeds of \$1.32 billion per annum would then be applied to building 6600 new medium-density rental units (preferably a maximum of two-storey) in areas of greatest need. "This is likely to mean building more medium-density units in Auckland and having a wider range of bedroom types to cater for the increasing number of small families," he says.

"The land costs for each new rental unit would be minimised by

clever infill, the rearrangement of existing state-owned houses on land owned by the Crown, and some comprehensive redevelopment of prime sites. The net result might be that instead of adding, say, 1500 units to the housing stock each year, HNZ could add around 8000 units."

Professor Hargreaves says this creates a clear win for the 6600 tenants who become home owners in well-built houses: they don't have to move and without the need for real estate agents their transaction costs would be minimised.

"There is a win for other would-be first time buyers, with 6600 additional houses added to the housing stock each year. People on the HNZ waiting lists also win because the construction of new rental units would target localities in greatest need.

"The taxpayer wins because income from property sales would balance expenditure on building new units. The building industry wins because guaranteed HNZ work would help to smooth out market fluctuations. The environment wins because with medium density housing the residents "footprints" are minimised in terms of land usage, energy efficient housing and commuting costs. The convenience of being able to walk to work and shops also offers a health benefit for residents in higher density areas."

However, he says there may be some losers. "If the plan works, property speculators may not benefit from the sort of increases in rents and prices that we have seen over the last five years."

He says some important questions remain. Could the building industry cope with this additional work? Would the private sector respond by simply reducing supply in other segments of the market, such as city apartments?

Do HNZ and local government have the technical and regulatory expertise to achieve good quality medium density housing outcomes? Is there a case for a public-private partnership?

"The problem of increasingly unaffordable housing is an important one and these are all questions worth answering." Professor Hargreaves says.

Maximising education for stronger primary sector

Massey has been awarded \$100,000 by the Tertiary Education Commission to investigate, develop and promote best-case models of tertiary education in the horticultural and agricultural sciences.

Ewen Cameron, Director of the University's Applied Science Programmes, says the project aims to meet the demand for greater numbers of skilled and qualified people in the primary industries.

He says raising the quality of teaching and learning in the applied sciences at a

tertiary level in New Zealand will result in a greater number of qualified and highly-skilled professionals working in the primary industries.

The results from this study, expected late 2007, will be used to inform and shape educational practice, and case studies in course design, preparation, presentation and maintenance will be available for teachers and course coordinators.

The research team, comprising Ewen Cameron, Dr Tony Morrison, Warren Anderson

and Gordon Suddaby, will also present their findings at conferences hosted by tertiary institutions and through the soon-to-be-established National Centre for Teaching Excellence.

The project fits within the Tertiary Education Strategy of strengthening system capability and quality, under the specific objective of a stronger system focus on teaching capability and learning environments to meet diverse learner needs.

Putting Kiwi authors in cyber-cyclopedia

Literary intellectuals and bibliophiles may bemoan the advent of cyberspace and its perceived threat to reading books in traditional hard copy form, but English lecturer Dr Jenny Lawn says there is immense value in websites such as The Literary Encyclopaedia.

The website, <http://www.litencyc.com> is a comprehensive online literary guide, which for the past three years she and Mark Williams, of the University of Canterbury, have contributed to and edited the New Zealand content for.

Writers such as Janet Frame, James K Baxter and Maurice Gee are among several from a 40-strong "A-List" of New Zealand authors on the site in essay-style entries of up to 2000 words.

Other writers, including Katherine Mansfield, Alan Duff, Keri Hulme and Frank Sargeson, have made it on to the website through contributed essays from overseas academics.

Many more New Zealand writers will be represented on the site as entries are completed with encouragement from Dr Lawn.

Edited by a distinguished international board and owned collectively by its editors and writers, it has since 1999 published more than 3700 profiles written by 1400 contributors and plans to add 900 new ones this year.



Dr Jenny Lawn

Beef and lamb good for your bones

Research shows beef and lamb are rich sources of a type of vitamin D usually absorbed from sunlight.

Associate Professor Roger Purchas, in the Institute of Food, Nutrition and Human Health, says this form of vitamin D, 25-hydroxyvitamin D, is three times more potent than other types. Dr Purchas estimates that one serving of lamb can provide half the daily vitamin D requirement, and beef about a quarter when both forms of the vitamin are taken into account.

"Recognising the contribution beef and lamb can make to our vitamin D intake is both timely and important. Food sources have been limited primarily to oily fish, eggs, and some dairy products. New Zealand beef and lamb can now be added to the list," Dr Purchas says.

A survey of children's nutrition by the Ministry of Health in 2003 identified young New Zealanders, particularly girls, at risk of vitamin D deficiency. Up to a third may have insufficient in their blood. A lack of vitamin D can lead to rickets or long-term health problems, such as osteoporosis.

This research was funded by Meat and Wool New Zealand.

Students gain social worker experience

A memorandum of understanding signed between the School of Sociology, Social Policy and Social Work and the Child, Youth & Family Service (CYFS) will give social work students greater experience before they step into the workforce.

Under the agreement, up to five students in the Bachelor of Social Work and Masters of Social Work programmes in Palmerston North will become involved with the service's lower North Island service centre this year.

Professor Robyn Munford, who coordinates the University's social work programme, says the agreement is a significant event in which both parties will benefit.

She says that as part of the agreement CYFS staff will be invited to attend lectures and workshops from the Massey staff, and there are opportunities for joint research ventures.

Students will work with CYFS staff who have had training in supervising students, and who have had a minimum of three years' social work experience. The school will also ensure students have up-to-date theoretical knowledge and skills before they begin their placement.

Fertiliser workshop explores sustainable farms

The 20th Annual Fertilizer and Lime Research Centre workshop focused on topics of high public interest under discussion again this year, with presentations on water quality, forestry conversions to dairy farming, and carbon credits.

Lance Currie, of the University's Fertilizer and Lime Research Centre, says the two-day workshop examined critical aspects of soil and water management.

Presentations were organised into four sessions – environmental best management, closing the nitrogen cycle, measuring land use impacts, and carbon farming.

Keynote speakers included: Robert Brodnax, head of policy and strategy at Environment Waikato, on managing the adverse effects of land-use intensification; Robert Sojka, former President of the American Society of Soil Science, on the management of irrigated agriculture to increase carbon storage; Jim Watson, Genesis Research and Development, on energy farming and bio-refining.

Presentations by Massey researchers included: Mike Bretherton on the variability of soil water and production in hill country pasture; Baisen Zhang and Professor Russ Tillman on pasture responses to nitrogen and phosphorous fertiliser, and Dr Ian Yule and Hayden Lawrence on ground-based fertiliser-spreading vehicles.



After more than 180,000 rotations in 30 years of operation on the University's Number Four dairy farm, this rotary dairy shed platform has a few more years' work ahead of it. The 36-berth platform was recently lifted and shifted to Rongotea to be expanded to 40 berths, and put to work on Andy Rogers' dairy farm. Gareth Evans, Massey Agricultural Services' deputy director, says the \$50,000 rotary shed built in 1973 was replaced in 2004 with a state-of-the-art 50 bail rotary shed worth \$1.1 million.

Lo-fi zine at The Engine Room



Artist Bryce Galloway turns The Engine Room gallery into a reading room for his fanzine, enticing his audience with free coffee, zines and music.

The exhibition, *Mumbling Through to the Chorus*, also launches the 26th issue of *Incredibly Hot Sex with Hideous People*, a non-musical collaboration with Daniel Powell. In cartoon form the pair have diarised the same dates in 2006, from their respective homes in

Wellington, New Zealand and Verl, Germany.

Fine Arts lecturer Bryce Galloway's art delivers a personal politic that is lo-fi, everyday and infused with self-deprecating humour.

The Engine Room is a public art gallery at the Wellington campus, focused on developing an important site for the exhibition of diverse and interesting contemporary art. Gallery hours are Wednesday to Saturday 12–4pm, and the exhibition runs until 16 March.

Māori Television's young rugby stars on campus

The makers of one of Māori Television's most popular programmes, *School of Hard Knocks*, returned to the Palmerston North campus this month to make a second series.

School of Hard Knocks follows the progress of three promising young Māori rugby players as they participate in the International Rugby Academy's annual high-performance players' course at the Sport and Rugby Institute.

The three-week summer course, run each summer, exposes about 30 teenage players – usually two from each position – from throughout the world to some of the best New Zealand and international coaches and former players. They include current All Blacks coaches Graham Henry and Steve Hansen, former Wallabies and current Queensland Reds coach Eddie Jones, and greats of the game such as Frank Bunce, Grant Fox, John Eales, Richard Loe, Sir Brian Lochore, Sean Fitzpatrick, Nick Farr-Jones and John Kirwan.

The academy, headed by former All Black Murray Mexted, is in its sixth year of operation at the Sport and Rugby Institute, where it offers courses for coaches, managers and players.

Māori Television broadcast eight episodes of *School of Hard Knocks* last year, the final of which was its highest-rating programme since the channel's inception, according to Head of Programming Larry Parr.

This year's series, to be screened from 7 June, has been increased to 10 episodes, Mr Parr says.

"We were very happy with the way it went. It was something we funded ourselves."



Māori Television paid the \$7500 fee for each of the three players, Matenga Baker from Otaki, Ariki Henry from Omaio and Turoia Kuka from Tauranga. All have followed similar paths in their plans to become rugby professionals.

Mr Henry (Te Whānau a Apanui), 19, a second five-eighth, who has just finished Rotorua Boys High School and three seasons in the 1st XV, says the academy is "awesome" and the facilities "probably the top in New Zealand". He played for the Bay of Plenty Academy team that came to Palmerston North

to play last year's international academy team. "The coaches are top too – you can't get better."

Mr Kuka (Ngāi Te Rangī), 19, now living and studying in Auckland, plays prop and spent three seasons in the 1st XV at Kings College, Otahuhu. Last year he was in the Auckland Rugby Union Academy.

Mr Baker (Ngāti Toa, Ngāti Raukawa and Te Atiawa ki Whakarongotai) is an openside flanker who played three seasons for Otaki College 1st XV, two as captain.

Mobile learning technology not so far away



Dr Hokyoung Ryu, Aaron Wong and graduate Richard Brown

You are in the quadrangle, your assignment is due tomorrow, you have two missed calls and you have just walked past your lecture theatre ...

The student of the not-too-distant future will know all this with a glance at a little hand-held personal organiser. It's a mobile learning technology now in development at the Centre for Mobile Computing.

The hand held personal learning organiser is designed to help users to navigate their precinct, communicate with others and access a range of information while on the move.

The device was among projects showcased at New Zealand's inaugural conference on mobile learning technology and its applications, hosted by the Auckland-based Centre for Mobile Computing (Institute of Information and Mathematical Sciences). Organiser Dr Dave Parsons says the conference is a milestone for mobile computing research and development. It attracted the core of leaders in the field who presented a range of research now underway at institutions across New Zealand and Australia

In the news

18 January

The Dominion Post, The New Zealand Herald, Bay of Plenty Times, Otago Daily Times, Dannevirke Evening News, Wairarapa Times-Age, Bay of Plenty Times, Manawatu Standard, Waikato Times, Marlborough Express, Nelson Mail, Westport News, Gisborne Herald, Rodney Times, Central District Times, Gulf News, Nor-West News, The Tribune, Wairoa Star, PTVL Prime TV, TV3News, TVNZ TV One News, RLI, RNZ, PhysOrg.com USA: **Stan Abbott**, from the Institute of Food, Nutrition and Human Health, has conducted a five-year study into water collected from home roofs, which has shown that more than half of the samples taken exceed the maximum contamination levels.

27 January

The New Zealand Herald: Professor **James Chapman**, believes between a quarter and a third of New Zealand children are missing out on reading because the wrong methods are being used to teach them.

The Dominion Post: Professor **Kevin Stafford**, from the Institute of Veterinary Animal and Biomedical Sciences, says drugs such as Prozac have been used in animals for as long as they have been used on humans, but there is still very little known about the emotions of animals.

28 January

Sunday Star-Times Education Update: Dr **Dianne Brunton** and Dr **Weihong Ji** from the Institute of Natural Resources will conduct a reptile study that will monitor the rare Duvaucel's Geckos that were released into a new habitat in Auckland's Hauraki Gulf.

30 January

Manawatu Standard, The Guardian: Dr **Aaron Marshall**, from the Institute of Technology and Engineering, has been

awarded a post-doctoral fellowship from the Foundation for Research Science and Technology, to work on the development of nano-materials that could reduce global reliance on oil.

1 February

Newstalk ZB, New Zealand Herald, Manawatu Standard, Otago Daily Times: A study conducted by Dr **Jane Prochnow**, from the Department of Learning and Teaching, with two American Universities, has revealed the geographic factors pointing to where serial killers strike their victims, and that social and cultural structural factors can explain state variations in serial killing.

The Dominion Post, Manawatu Standard, Waikato Times, The Press, Ashburton Guardian: Dr **Andy Shilton**, from the Centre for Environmental Engineering and Technology, says the biogas found in New Zealand dairy farms is a wasted resource, and could be used to lower, on-farm energy costs.

2 February

RNZ Rural Report: **Warren Anderson**, from the Institute of Veterinary, Animal and Biomedical Sciences, is part of a team launching a project to develop the quality of learning in horticultural and agricultural courses, which is being funded by the Tertiary Education Commission Grant.

5 February

Manawatu Standard, National Business Review, Rangitikei Mail, The Tribune, Fielding Herald: Dr **James Lockhart**, from the Graduate School of Business, has been appointed Chairman of Vision Manawatu, and believes the area needs to be jolted out of its comfort zone for it to be able to prosper.

6 February

Rural News: Professor **Ralph Sims**, says New Zealand's bio-fuel production will initially rely on by-products as these are cheaper than growing energy crops.

7 February

The Dominion Post, Manawatu Standard, NZ Education Review: Professor **Mason Durie**, AVC Maori, leads the development of a 'virtual Marae' that will allow academics to share teaching and research ideas, by electronically linking all eight universities.

8 February

North Shore Times, Western Leader, Manakau Courier, A.K City Harbour News: **Pamela Von Hurst**, a PhD Student, will lead a research project which will observe the health and nutrition of more than 300 South Asian women, in an aim to learn more about their health, diet, life-style and genetic characteristics.

Wairarapa News: Dr **Alan Cameron**, from the Department of Management, says that all indications from the around the world about farmers' markets, suggest that they are here to stay.

RNZ Rural Report: Professor **Mike Hedley**, from the Institute of Natural Resources, talks about, the two day fertiliser conference starting in Palmerston north that will focus on reducing agriculture's environmental impact.

9 February

The Press, Manawatu Standard, Waikato Times, The Dominion Post, Otago Southland Farmer, Bay of Plenty Times, Dannevirke Evening News, Taranaki Daily News, The Tribune, Wairarapa Midweek, Ashburton Guardian, Southland Times, Gisborne Herald, Rodney Times, TRN Newstalk ZB: **Nick Roskrige**, from the Institute of Natural Resources, says the three varieties of kumara to which a Māori group is claiming the commercial rights to, as one of a number being considered relating to the Wai 62 flora and fauna claim to the Waitangi Tribunal, are all non-commercial kumara.

Southland Times, The New Zealand Herald, Waikato Times, Marlborough Express, Hawkes Bay Today, Bay of Plenty Times: Dr **Tim Bentley**, from the Department of Management and International Business,

conducted a study into ACC claims, that has shown horse riding is New Zealand's most injury-causing sport, contributing to over 20 per cent of all claims.

13 February

The New Zealand Herald, Manawatu Standard, Otago Daily Times, Gisborne Herald, Radio Live; Dr **Mark Henrickson**, from the School of Social and Cultural Studies, conducted a study that has revealed lesbian, gay and bisexual Christians quit mainstream religion at a much higher rate than the general population.

15 February

The Daily Post: Associate Professor **John Kirkland**, from the Department of Health and Human Development, conducted a study into New Zealand school children, which has shown that one in ten are too frightened and exhausted to learn because of a troubled home life.

18 February

Herald on Sunday: Dr **David Tripe**, from the Department of Finance Banking and Property, says New Zealanders have responded well to the online on-call savings accounts launched in the past two years because of the flexibility they allow.

RNZ Insight: Professor **Ivan Snook**, from the College of Education, participates in a discussion into whether New Zealand still provides a free education system.

19 February

TV3 News: Dr **David Tripe**, from the Department of Finance Banking and Property, says Kiwibank has benefited because it has taken over a lot of business from New Zealand Post.

20 February

The Press: Dr **Chris Wilkins**, from the SHORE centre, says the popularity of pill-form drugs like ecstasy means these drugs are perceived as healthier by young people.

General notices

editor@massey.ac.nz

Do you live with your child and a new partner?

Some exciting research on re-partnered families or stepfamilies is underway at the Roy McKenzie Centre for the Study of Families at Victoria University.

PhD student, Rebecca Graham is looking to talk to families with a child between the ages of 7 and 11, who have been together for less than 4 years.

Research like this is important since we still don't know that much about re-partnered families, although more and more children are growing up in them.

To learn more we need to talk to families to learn from their experiences. If this sounds like you, please call Rebecca on (04) 463 6836 or email her at rebecca.graham@vuw.ac.nz

If you know someone who might be interested please let them know. Participating families will receive a \$25 Warehouse voucher to thank them for their participation.

Library opening hours

Library opening hours for 2007 are as follows:

Auckland

Monday – Thursday
8.30am – 10pm
Friday 8.30am – 6pm
Saturday – Sunday 1pm – 6pm

Palmerston North Turitea

Monday – Thursday
8am – 11pm
Friday 8am – 6pm
Saturday – Sunday 1pm – 6pm

Palmerston North Hokowhitu

Monday – Thursday
8.30am – 6pm
Friday 8.30am – 5pm

Wellington

Monday – Thursday
8.30am – 11pm
Friday 8.30am – 6pm
Saturday – Sunday 1pm – 6pm

All libraries will be closed over the Easter period (6 – 10 April) and ANZAC Day (25 April). Please see the Library website

Events

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

AK – Wed 28 Feb

6.30am – 8.30am

Go by bike day
Free bikers breakfast as part of the Bikewise Go by Bike day activities.

Cycle to the University yourself or join an escorted ride leaving from Windsor Park, East Coast Rd Mairangi Bay or Albany Junior High School

Venue: Outside Cafe Massemo at the Recreation Centre – Auckland Campus
Contact Details: Cathy van der Vyver
Ph: 414 0800 ext 9662

PN – Wed 7 Mar

12pm – 4pm

Exchange Expo - Study and

Travel Overseas

Find out how you can travel and study overseas during your Massey degree through the Student Exchange Programme. Collect information from the display tables and chat with students from Canada, Denmark, Japan, Sweden, and USA about studying at their home university.

Scholarships are available, student loans and allowances still apply while you are overseas.

It's an opportunity not to be missed!

Venue: Concourse – Turitea site, Palmerston North

Contact Details: Rachel Fenton

Ph: ext 2159

PN – Sat 10 Mar

8am – 6pm

Massey Sub-Grappling Tournament

NO GI! NO LIMITS!

Palmerston North Ju Jitsu Clubs and Massey University Ju Jitsu Club are hosting the lower north island Sub-Grappling tournament.

Dates & Timings:

Entries/Fees: Friday, 2 March; Weigh Ins: 8am-9pm; Competition: 9:15am; Finals: 4pm; Open: 5pm.

Fees: \$40; Open + \$10; Late (after 2 Mar) \$10

Spectators:

Adult \$5
Child \$2

Venue:

Recreation Centre Orchard Road Turitea site, Palmerston North

Contact Details:

Ian Graham

Ph: (06) 356 9099 ext 8790

Email: info@pnjj.org.nz

Web: www.pnjj.org.nz

Scholarships and Bursaries

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

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

Undergraduate

New Zealand Grassland Trust Levy Student Scholarship – closing 7 March 2007

A suite of **Agriculture / Horticulture scholarships** are available – closing 10 March 2007

Meat & Wool New Zealand Undergraduate Scholarships – closing 17 March 2007

Pacific Island Polynesian Scholarship – closing 18 March 2007

AGCARM Undergraduate Horticultural Scholarship – closing 31 March 2007

Auckland Campus Maori Bursaries – closing 31 March 2007





Massey University

Veterinary Clinic






- Full veterinary services
- Puppy parties and behaviour advice
- Wide range of pet food and accessories
- Staff and student discounts
- Cater for lifestyle blocks and commercial farms
- Convenient drop off service
- All species catered for

Call in and see us over the other side of the duck pond

Conveniently located on the Palmerston North Campus

Phone: 06 350 5329 <http://vethospital.massey.ac.nz> Email: Vetclinic@massey.ac.nz



Massey University



Te Kūmanga ki Pūrehuroa

Centre for Applied Economics & Policy Studies Undergraduate Award in Ag Economics - closing 31 March 2007

IMBS Undergraduate Scholarship - closing 31 March 2007

Pacific Islands Polynesian Education Foundation & Norman Kirk Memorial Trust - closing 31 March 2007

Soroptimist International of PN Scholarship - closing 31 March 2007

Sovereign Business Studies Scholarship - closing 31 March 2007

Sovereign Scholarship for a Student with a Disability - closing 31 March 2007

The Kate Edger Educational Charitable Trust Millennium Undergraduate Award - closing 31 March 2007

ZONTA Memorial Scholarship - closing 31 March 2007

Postgraduate

Fulbright Travel awards - closing 1 March 2007

Patricia Pratt Scholarship in Musical Performance - closing 1 March 2007

Royal Society of NZ Travel Grants - closing 1 March 2007
Shirtcliffe Fellowships - closing 1 March 2007

Andrew Justice Memorial Scholarship - closing 1 March 2007

LB Wood Travelling Scholarship - closing 1 March 2007

Whakatane Historical Society Scholarship Trust - closing 1 March 2007

William Georgetti Scholarships - closing 1 March 2007

A suite of **Agriculture / Horticulture scholarships** are available - 10 March 2007

Meat & Wool NZ Postgraduate Scholarship - closing 17 March 2007

Pacific Island Polynesian Scholarship - closing 18 March 2007

Dan David Prize - Scholarships - 30 March 2007

Whanganui River Enhancement Trust Scholarship - 30 March 2007

AWC Postgraduate Bursary - 31 March 2007

Centre for Applied Economics & Policy Studies Scholarship - 31 March 2007

Coombs Memorial Bursary - 31 March 2007

Goodman Family Scholarships - 31 March 2007

J P Skipworth Scholarship (Ecology) - 31 March 2007

J P Skipworth Scholarship (Plant Biology) - 31 March 2007

Max Chapple Memorial Scholarship - 31 March 2007

NZ Federation of Graduate Women Manawatu Branch Scholarship - 31 March 2007

NZ Federation of Graduate Women North Shore Branch Scholarship - 31 March 2007

Pacific Islands Polynesian Education Foundation & Norman Kirk Memorial Trust - closing 31 March 2007

ZONTA Memorial Scholarship - closing 31 March 2007

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.

See for yourself what makes *Massey News* one of New Zealand's most popular news sites.

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

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 9 March 2007

People in the news

Communications and marketing staff monitor news and media outlets, but do appreciate notification from staff of their media contributions/achievements.

Please email editor@massey.ac.nz with your contribution so that it may be included in Massey News.