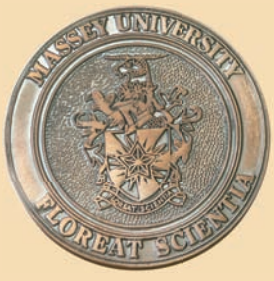
Massey University

Massey News

Auckland • Palmerston North • Wellington • Extramural

24 Mahuru, September 2007 Issue 14

Te Kunenga ki Pūrehuroa



Massey University Research Medals 2007

Individual, Supervisor - Page 3

Early Career - 5

Oustanding research team celebrates

Page 4

Awards for Māori researchers

Page 6

E7 returns on schedule

Page 14

College of Creative Arts College award recipients Dr Claire Robinson, Jacqueline Naismith, and Professor Donald Maurice in Wellington.

Massey celebrates world-class research

Massey researchers have this year again proved themselves of national and international standing, reflected by their achievements in boosting the University's profile and world ranking.

For the fourth year *Massey News* devotes an issue to acknowledging and celebrating the individual and collaborative efforts of staff whose research work is making vital contributions across a wide range of disciplines and those younger academics already receiving recognition as rising stars of research.

In May the Tertiary Education Commission announced results of last year's Performance-Based Research Fund quality evaluation, which saw the University's score increase 45 per cent over the inaugural 2003 PBRF result – the biggest increase of any university.

Its PBRF-based funding, now $34.7 million, is the third highest in New Zealand, while the results also saw a 52 per cent increase in the number of A-ranked researchers and a 27 per cent overall increase in A, B and C-ranked researchers.

Massey is ranked first for research in Design, Nursing, Veterinary Science and in the top three in New Zealand for Agriculture and Applied Biological Sciences, Public Health, Pure and Applied Mathematics, Visual Arts and Craft, Clinical Medicine, Engineering and Technology, other Health Studies, Physics, Sport and Exercise Science, and Statistics.

Earlier this month Massey recorded the biggest gain of the New Zealand universities in the annual Shanghai Jiao Tong University ranking of the world's top 500 universities, moving from a ranking of between 401 and 500 last year to between 305 and 401 this year.

It now ranks second-equal with Otago, behind only Auckland, and ahead of Canterbury and Victoria, the only other New Zealand institutions to make the 500. Of the universities in the Asia-Pacific region, it is ranked between 43 and 64, compared with 64-92 last year.

The research medals are to be presented at a dinner at Parliament Buildings on 25 October, hosted by Education Minister and Palmerston North MP Steve Maharey with Vice-Chancellor Professor Judith Kinnear.

The team medal has been won by the Research Centre for Māori Health and Development from the College of Humanities and Social Sciences; the individual medal goes to Professor Neil Pearce from the same college, and the supervisor's medal to Professor Barry Scott from the College of Science.

Early career research medals have gone to Dr Ajay Awati, College of Sciences, Dr Ben Marshall, College of Business and Dr Glen Pettigrove, College of Humanities and Social Sciences.

Their stories and those of the other winners – of college research awards, technicians' awards, Māori and women's awards, postdoctoral fellowships – are here, as well as the recently-announced Marsden funding of close to $6 million for a dozen Massey staff.

Massey University **Research Medals 2007**

Professor **Neil Pearce** founded the Centre for Public Health Research in Wellington, when he joined Massey University in 2000, with the centre awarded the Massey Research Award for a team last year.

Professor Pearce has made significant discoveries relating to public health not only in New Zealand but also worldwide; his contribution spanning several decades. During the 1980s Professor Pearce showed there were strong socio-economic differences in mortality in New Zealand, leading to a number of confirmatory studies and incorporation of this knowledge into health policy. Also in the 1980s research led by Professor Pearce found that the high mortality rates for Māori were not due solely to socio-economic factors but were also due to problems of access to health care. In 1988 Professor Pearce showed that meat workers have an increased risk of some types of cancer, work which has been confirmed overseas igniting interest in the likely aetiological mechanisms.

In 1990 and in 1995 Professor Pearce studied the role of Fenoterol in the New Zealand asthma mortality epidemic of the 1970s and 1980s, with the Government ultimately acknowledging the role of Fenoterol in many deaths and restricting its availability.

Asthma has been an area of sustained research, and Professor Pearce was one of the founders of the international Study of Asthma and Allergies in Childhood, involving more than two million children in 250 centres in 100 countries. He also published a series of reviews and commentaries that have questioned the importance of allergic mechanisms for asthma, stimulating interest in non-allergic mechanisms.

Individual: Professor Neil Pearce

University Technicians Award: Professor Neil Pearce

College of Sciences Award - Individual: Professor Neil Pearce

In 1998 Professor Pearce was awarded a Silver Medal from the Royal Society of New Zealand, and in 2005 he was elected a Fellow. He is serving as president-elect of the International Epidemiological Association from 2005 and will serve as president from next year until 2011.

Professor Pearce's first degree was a BSc in mathematics, followed by a DipSci mathematics and later a PhD in epidemiology, all at the University of Otago. A DipORS was completed at Victoria University in 1978 and in 2003 Professor Pearce completed a DSc in epidemiology at Massey. Prior to joining Massey, Professor Pearce was professor and director of the asthma research group at the Wellington School of Medicine. He is an honorary research fellow at the Ministry of Health's Public Health Intelligence Unit.

Professor Pearce was successful this year in applying for a Massey University technician's award for the project *Balancing Innate Immunity in Asthma.* The funding for a full-time technician will allow establishment of a research programme into the immunological mechanisms of asthma, which will be developed in collaboration with the Malaghan Institute of Medical Research.

Professor Pearce also receives a University Technicians Award and a College of Sciences individual award.

Supervisor: Professor Barry Scott

Since his appointment as Professor of Molecular Genetics at Massey in 1985, Professor **Barry Scott** has supervised 21 doctorates and nine masterates, including 17 doctorates as first supervisor.

After completing a BSc (Hons) and a PhD in biochemistry at the University of Otago, professor Scott worked as a research scientist at DSIR before being appointed professor.

Professor Scott has set a high academic standard for research, with highlights including a PBRF A rating, many invited presentations at international conferences including the plenary lecture at the 2007 Fungal Genetics meeting, and six invited reviews. Much of his research has been collaborative, with New Zealand's AgResearch and overseas academics and organisations.

Recent scientific successes include molecular cloning and genetic analysis of the first gene cluster for the biosynthesis of indole-diterpenes, the molecular cloning and genetic analysis of two additional indole-diterpene gene clusters, new insights into the process of concerted evolution through the study of inter-specific hybrids of grass endophytes, important insights into the mechanisms of plasmid integration in fungal genomes and identification for the first time of the evolutionary origins of non-culturable fungal endophytes of grasses. Professor Scott has also demonstrated for the first time that a fungal metabolite can provide protection to a plant host from insect herbivory and identified a novel role for reactive oxygen species in maintaining a mutualistic interaction between a fungus and a plant.

The core of Professor Scott's success as a supervisor is two-fold: a passion and enjoyment for excellent research, and a careful and explicit management policy applied to all students. The passion for research means projects selected by Professor Scott are ambitious and always at the leading edge of the interface of microbiology, genetics and biochemistry. Professor Scott's approach includes requiring each student to write a research proposal, a schedule of regular meetings and a defence of their PhD topic at the end of year one.

2007 **Outstanding Research Team**

Oustanding Research Team: Te Pūmanawa Hauora, Research Centre for Māori Health and Development

The mission of the **Research Centre for Māori Health and Development** is to improve Māori health through research and scholarship, and the centre has an outstanding record of both research and team development.

Formally established as a research centre in 2003, its origins are in the health programme established a decade earlier by Professor Mason Durie at the School of Māori Studies. Two seminal research programmes were established: Te Pūmanawa Hauora (Māori health research unit) and Te Hoe Nuku Roa, a longitudinal survey of Māori households.

The programmes grew and, in 1996, Dr Chris Cunningham was appointed as director of health research and the consolidation of both programmes. In 2000 the University's Wellington campus was opened and Te Pumanawa Hauora established a second office within the Research School of Public Health.

In 2003 establishment as an independent research centre saw Dr Cunningham promoted to Professor. The centre is co-located with the Research Centre for Public Health and enjoys strong links with Professor Neil Pearce and his team.

Since its inception as a research programme, the centre has secured more than $25 million in external funding, and now holds both Health Research Council and Foundation for Research, Science and Technology programmes. Projects range from mental health to diabetes and insulin resistance, to the health of older Māori and the health of children. Significant aspects of health policy are also addressed.

Professor Cunningham says the medal is acknowledgement of the very sound base put in place by Professor Durie.

"And it's really about the ongoing commitment to workforce development – that's probably our biggest contribution, followed by the programmes of research themselves.

"While everything in the area of Māori health is a priority, the plans we have around exercise science and diabetes are exciting. This really draws upon the University's talent in the exercise sciences and the talents within the Research School of Public Health."

College of Humanities and Social Sciences Pro Vice-Chancellor Professor Barrie Macdonald says that as well as making its own contribution in research, the centre has provided an exemplar as to how research capacity can be built and critical mass achieved.

Since its inception, the centre has produced 10 Māori PhD graduates, six post-doctoral fellows and currently has 18 doctoral students.

"The nurturing of postgraduate and early career researchers has been a distinct feature," Professor Macdonald says.

"In a field where researchers are hard to find, and the research questions are pressing, the centre has made a major contribution to addressing these key questions, influencing policy and building the research capability that would allow research in this area to grow.

"This is a contribution that has gone well beyond the University and is of national importance."

The work of the centre is acknowledged both nationally and internationally. Professor Durie was named a Companion of the New Zealand Order of Merit in 2001 and elected a Fellow of the Royal Society of New Zealand.

Professor Cunningham is also an Honorary Professor at the Wellington School of Medicine and a Visiting Research Fellow and Associate at the University of Sydney.

Pictured above are: Dr Steve Stannard (Hon Research Fellow); Dr Maureen Holdaway (Deputy Director); Prof Mason Durie (DVC, Māori); Prof Chris Cunningham (Director, RCMHD); Mr Isaac Warbrick (TPH Doctoral Scholar); Dr Janice Wenn (TPH Post Doctoral Fellow); Mr Eljon Fitzgerald (Research Officer); Dr Amohia Boulton (HRC Post-Doctoral Fellow); Mr Bevan Clayton-Smith (TPH Doctoral Scholar); Ms Hope Tupara (TPH Doctoral Scholar); Mr Brendon Stevenson (Research Officer); Ms Victoria Simon (TPH Doctoral Scholar); Mr Will Edwards (TPH Doctoral Scholar); Ms Kelly Rongonui (Administrator); Mr John Waldon (TPH Doctoral Scholar)

2007 **Early Career Medals**

Since embarking on his academic career just five years ago, Dr **Ben Marshall** has had a string of papers accepted for publication in top ranking finance journals and has received numerous prizes and awards.

He completed his PhD in 2005 and has already had papers accepted by 15 international journals. The calibre of some of these publications has contributed to the high international ranking in finance that Massey currently has.

Most recently Dr Marshall's research work now in progress has gained acceptance for presentation at the top three finance conferences globally in the face of strong international competition.

That his research attracts a lot of attention is proven by the high number of downloads from business working papers on the social science research network. Based on the number of times his papers have been downloaded, he is already ranked in the top 3.4 per cent of the world's academic finance authors. His research has also attracted the interest of the financial media.

Dr Marshall is known for his ability to articulate the latest finance theory in a way that is relevant to those with less knowledge of the subject. His research expertise is highly valued among students and he is sought after to provide research supervision to students at masters level.

As well gaining rapid acceptance from international conferences and publications so early in his career, he has had considerable success in attracting funding for his research. He has been awarded a Pricewaterhouse Coopers Global Competency Grant of $4000 and last year he received a grant of $14,000 from MURF.

Dr Marshall also receives a College of Business Early Career Award.

Early Career Medalist: Dr Ben Marshall

College Of Business - Early Career Award: Dr Ben Marshall

Early Career Medalist: Dr Ajay Awati

College of Sciences - Early Career Award: Dr Ajay Awati

An expert in mammalian digestion and gut microbial fermentation, Dr **Ajay Awati** is a postdoctoral fellow at the University's Riddet Centre.

He was awarded his PhD at Wageningen University in 2005, after completing a BVSc at the MP Agricultural University in Rahuri, India in 1998 and an MSc at Wageningen University, The Netherlands, under Nuffic University Fellowship Program in 2001.

Dr Awati has published 16 scientific papers in leading peer-reviewed journals, one invited book chapter and several industry reports and scientific abstracts.

Co-director of the Riddet Centre Distinguished Professor Paul Moughan says that Dr Awati is clearly an up-and-coming young researcher with excellent prospects.

"Dr Awati has had a prolific publishing output, has been a frequent invitee to present at local and overseas conferences and workshops and is increasingly being recognised by his peers as an invited journal referee."

Dr Awati says he was pleased to join the Riddet Centre, a Government-recognised Centre of Research Excellence hosted by Massey University. He has particularly appreciated the ability to work with Professor Moughan and the progressive nature of the Riddet Centre, allowing strong team interaction and exposure to a range of projects.

"Winning the research medal as a person who has just been around for a couple of years and being recognised by the University for the work you do is very encouraging.

"Certainly the environment created within the Riddet Centre plays a major part in making that possible."

Dr Awati also receives a College of Sciences Early Career Award.

Dr **Glen Pettigrove** completed his PhD at the University of California at Riverside in 2003 and has been a lecturer in the philosophy programme at Massey since 2005.

Dr Pettigrove has had 10 sole-authored articles published in peer-reviewed journals, and has a further three currently under consideration. He has also contributed a chapter to a book and has presented many papers to professional audiences.

The award earlier this year by the American Philosophical Association of the Baumgardt Memorial Fellowship was an indicator of the calibre of his work. The award, made every five years, is usually awarded to academics at a later stage in their career.

Dr Pettigrove says he is interested in two key areas. The first is the role of emotion in our judgement of right action.

"You don't just want your friends to be in the right places at the right times doing the right things, you also want them to be caring in the right kind of way."

The second area concerns the ways in which groups can be held morally responsible.

"There has been an interesting change over the past 15 years as nations, corporations, and other groups have acknowledged moral responsibility for their actions.

"For example the US apologised to Japanese Americans for how they were treated in World War II. In many cases the wrong was done prior to any current member of the group's existence.

"It's also interesting that 50 years ago this was barely conceivable that a group could apologise or offer forgiveness to another group. The idea that a nation could do moral wrong to a group of people who were not its citizens became salient after World War II due to the treatment of Jews in the Holocaust."

Dr Pettigrove also receves a College of Humanities and Social Sciences Early Career Award.

Early Career Medalist: Dr Glen Pettigrove

College of Humanities and Social Sciences - Early Career Award: Dr Glen Pettigrove

2007 **Māori Awards**

Three Māori academics from Te Uru Māraurau have been awarded research funding through the annual University Māori Awards. These awards provide up to $10,000 to enable researchers to take time away from administrative and teaching duties to write up research results or to collect and analyse further data.

James Graham, Ngāti Kahungunu, Ngai Te Whatuiāpiti.

James Graham's research explores the role of Te Aute College in Hawke's Bay and its contribution to Māori development.

It is envisaged that a range of personal experiences and influences through stories, and various literature will contribute to Te Aute's story and hence its contribution to Māori advancement since the latter stages of the 19th century.

The research will explore how Te Aute might maintain its unique Māori focus and character, while assisting with possible strategies to assist transition into the 21st century.

Mr Graham is based at the College of Education's Ruawharo Centre in Napier.

Pani Kenrick, Ngāti Kahungunu ki Te Wairoa

Based on a qualitative Māori-centered approach, College of Education lecturer **Pani Kenrick's** study titled *He Ahi Kā, He Pōkai Rānei* examines the provision of a total immersion Māori pre-service teacher education programme.

The study focuses on the ways in which the induction process, self-efficacy and professional development programmes within various classrooms and educational settings contribute to supporting beginning teachers.

Issues related to access and participation in such support programmes and contributions of key personnel to the provision of beginning teacher support are also explored.

Peti Kenrick, Ngāti Kahungunu, Muaupoko, Ngai Tahu

Diversity and disparities within New Zealand society raises the question as to whether beginning teachers have been prepared successfully to cater for the environment into which they are entering.

Peti Kenrick's EdD thesis focuses on beginning teachers' perceptions of their preparation for teaching Māori children and the basis of these perceptions. It also aims to ascertain if teachers can identify why they may believe they can or cannot teach Māori pupils.

Miss Kenrick is based in Napier at the College of Education's Ruawharo Centre.

2007 **Technicians Awards**

These awards provide for an annual salary of up to $35,000 to be paid for two years to provide technical support and assistance for a specific research project undertaken by the recipients. This year's recipients are:

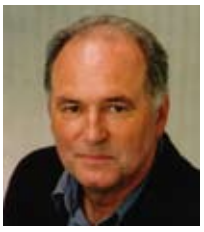
Gareth Rowlands of the Institute of Fundamental Sciences receives a technician's award for research that aims to study alternative forms of chirality in the development of novel organocatalysts, with a goal to improve the efficacy of these catalysts.

Organocatalysts is the pre-eminent method to achieve enantioselective synthesis due to its numerous advantages over its metal-based counterparts, particularly in the area of waste control.

The first stage of the current project will be to complete preliminary studies; synthesis of the catalysts by a technician, to resynthesize catalysts first prepared in Britain.

A senior lecturer from the Institute of Molecular Biosciences, Dr **Jan Schmid** receives a technician's award for a project on candida contingency genes.

Dr Schmid, working in collaboration with Dr Barbara Holland from the Allan Wilson Centre, Dr Mark Patchett from the Institute of Molecular Biosciences and an Otago researcher, has discovered that two hypermutable surface proteins in Candida albicans, the most important fungal pathogen of humans, are pathogenicity determinants and that more such proteins may exist. The finding resulted in a hypothesis, which will now be tested.



Professor **Neil Pearce**, director of the Centre for Public Health Research receives an award for the centre's project *Balancing Innate Immunity in Asthma* will receive a Massey University technician's award.

The funding for a full-time technician will allow establishment of a research programme into the immunological mechanisms of asthma, which will be developed in collaboration with the Malaghan Institute of Medical Research.

This study will be the first of its kind to examine interaction of different cells derived directly from the airways. Eighty asthmatic children and 40 control children will be recruited.

Professor Pearce also receives the individual research medal, page 3.

2007 **Women's Awards**

University Women's Awards enable staff involved in teaching or administrative work to take time out to write up research results for publication, or to collect and analyse further data. Each award is worth up to $10,000.

Kylie Foster is a lecturer in the Institute of Food, Nutrition and Human Health. Her research project is a study of human mastication, chewing trajectories and jaw shape. The human chewing process is highly variable depending on numerous factors including the individual, food properties and circumstances.

For the study Ms Foster will recruit subjects according to strict dental and health criteria, measure each subject's jaw and trajectories of the jaw while chewing. From data gathered from the study subjects she will explore the correlations between jaw properties, food properties and chewing trajectories.

The project is an extension of mastication research which investigated the relationships between food properties and chewing behaviour. She expects the project to be of particular interest to research groups looking at modelling and reproducing human chewing trajectories.

Liqiong Tang is a member of the Institute of Technology and Engineering research team investigating the use of computer technologies to assist medical surgery.

Research will first focus on understanding the requirements of medical professionals and learning how to couple engineering techniques and skills with medical requirements in order to solve particular medical problems. Subsequent research will focus on software and hardware interface development, programming modelling and individual case study.

This project is in the new but very active field of computer assisted surgery (CAS), which is currently attracting the attention of both engineering researchers and medical professionals.

CAS has the potential to improve surgical outcomes through the combined application of safe, non-contact data collection, accurate and fast data processing, precise medical models, virtual surgery simulation, rapid tooling for implants and surgery jigs, and real time surgery monitoring.

Dr Doreen D'Cruz, of the School of English and Media Studies, is working in collaboration with Dr John Ross on the project *Sad, Mad or Bad: Isolates in New Zealand Fiction*. The project explores some major texts and authors in New Zealand fiction using the topos of the 'man alone', most famously exemplified by John Mulgan's book *Man Alone* as a starting point for the enquiry.

A recent survey of this topos within New Zealand fiction by Lawrence Jones has not only listed recurrences of it but has also shown the parallel development of the woman alone as a strong motif. The study seeks to interpret this aspect of New Zealand fiction using a multiplicity of critical methodologies that will assist in facilitating an understanding of the various ways in which isolation works textually.

College of Creative Arts researcher Dr **Sandra Heffernan's** research interest is in textiles. Her project aims to analyse and document socio-cultural aspects of textiles and dress through material culture research. It will focus on 1930s depression era to 1940s utility era textiles owned by Wellington-based textile collector and author, Rosemary McLeod.

These textiles will be examples of ordinary clothing from every day life in the eras such as mended and re-mended knitted clothes, dresses and textile designs both typical and atypical of the depression and utility era.

Dr Heffernan intends to curate an exhibition and produce a catalogue of the textiles and garments.

She says both Auckland Museum and the National Museum of New Zealand, Te Papa Tongarewa, have expressed interest in exhibiting the items following the completion of the project.

Dr **Marie Wong** of Institute of Food, Nutrition and Human Health, is researching healthy edible oils, and for the past five years she has been carrying out collaborative research on avocado oil with Dr Allan Woolf at HortResearch.

Her research team is now well recognised internationally as experts in avocado oil extraction, composition and quality. Ongoing research aims to define maturity indices for olives and their influence on oil composition and quality. This research will start next autumn at harvest. Dr Wong now intends to write up all her research on avocado oil for publication.

Dr **Margaret Walshaw's** project focuses on the work of French philosopher Michel Foucault and explores how his thinking might be applied within mathematics education.

Dr Walshaw, of the School of Curriculum and Pedagogy, plans to write a text for the mathematics education community that challenges traditional thinking.

Her text will attempt to capture the potential of Foucault's philosophy to move current understandings within the mathematics discipline forward. She says Foucault's system of ideas will present a different way of looking at practices and processes such as teacher education and mathematics classroom teaching and learning.

Dr Walshaw says the timing of this project is opportune as the discipline is currently searching for new directions to explain phenomena in a way that is not tied to conventional thinking.

2007 **College Research Awards**

College of Creative Arts - Individual:
Professor Donald Maurice

The Research Award to Professor **Donald Maurice** recognises a combination of traditional academic publications and a sustained career as a performing and recording artist.

Professor Maurice was appointed Professor of Music with the College of Creative Arts in 2004 and is now with the New Zealand School of Music.

He has an international reputation as a viola player and has played with major orchestras in Europe, Britain and New Zealand. He taught viola at Cambridge University.

His academic interest in the music of Bela Bartok and his revision of the Viola Concerto earned him invitations to give seminars in Switzerland, the United States and Australia.

Professor Maurice's current research projects include the editorship and annotation of the Leipzig Diary of Alfred Hill, New Zealand's first professional composer, and recordings of his 17 string quartets.

His transcription for viola of George Enescu's Third Violin Sonata will be premiered at next year's International Viola Congress in the United States.

College of Creative Arts - Supervisor:
Jacqueline Naismith

Jacqueline Naismith is programme leader for the Master of Design Programme, and programme leader in History Theory and Research for the Department of Two Dimensional Design in the College of Creative Arts.

Her specialist teaching areas are visual communications design studies, theory, history, and visual research methodologies, and she teaches in the Master of Design programme.

Her recent research includes projects that examine relationships between mass media design languages, social formation and identity construction; design languages and their technologies of production; visual communications design pedagogy, and visual research methodologies.

Her research was cited in a recent paper published in the *Journal of Communication,* Oxford University Press.

Ms Naismith has played a leading role in establishing a culture of research in the School of Design and the Institute of Communication Design.

She is completing a PhD in Sociology titled *Destination, locality and design; consuming and performing places through tourism imagery in New Zealand 1955-2004.*

College of Creative Arts - Early Career:
Dr Claire Robinson

Dr **Claire Robinson** is head of the Institute of Communication Design in the College of Creative Arts.

Her research interests include political marketing, political communication and electoral studies, with specific emphasis on the visual communication of political messages.

In 2006 she completed a PhD in politics, examining the political advertising messages of the seven major parties contesting the 1999 and 2002 New Zealand general elections. She examined the associations between demonstration of market orientation and political gain.

Dr Robinson is often called upon for comment on radio and television on political advertising and political marketing.

In 2004 she was awarded a Wallace Electoral Award for her CD-ROM contribution to the book *New Zealand Votes*. The award is made by the New Zealand Electoral Commission for the scholarly work considered to have best promoted public understanding of electoral matters.

In 2004 Dr Robinson was also the recipient of a College postgraduate research excellence award.

College of Business - Individual:
Professor Janet Hoek

Professor **Janet Hoek's** research has appeared in leading business and marketing journals. In the past decade she has initiated and developed four research programmes, all of which examine issues in marketing regulation.

These research initiatives have involved numerous colleagues and attracted substantial grants, directly strengthening the research environment.

She is widely known for her work in the regulation of tobacco marketing. She has contributed to the development of government policy on this issue and played a large role in developing tobacco research in New Zealand.

She has had international recognition for her research into consumer understandings and responses to tobacco related messages and warning labels on cigarette packs.

Professor Hoek has more recently been researching food marketing and exploring the relationships between food promotions directed to children and obesity.

In this area too her findings have played a role in health policy development and to her appointment as an expert adviser to the Select Committee enquiry into obesity and Type 2 diabetes.

Professor Hoek has also been an active researcher into the marketing of medicines direct to consumers and consumer deception issues related to marketing and advertising.

Her work has also encompassed alcohol marketing to young people and her reputation as a social marketing researcher led to a relationship with the Centre for Social and Health Outcomes Research and to further work in this area with a million dollar Health Research Council grant.

2007 **College Research Awards**

New Zealand's only Chair in Education History, Professor **Roger Openshaw** receives the individual research award for the College of Education.

He has consistently employed the skills and perspectives of a historian to his work in which he has placed a strong focus on curriculum issues and development.

In the past two years he has co-written and co-edited eight books which are relevant to the entire education field, including curriculum, policy, pedagogy, administration, and the critical study of culture.

Each of the volumes illustrates, and gives insight to, methodologies and skills to be gained from education history.

In 2002, Professor Openshaw was awarded his personal chair and a Claude McCarthy Fellowship.

His research and expertise is internationally recognised and last year he received an American Educational Research Association Outstanding Book Award, together with successive Visiting Senior Scholar appointments from the Open University, Milton Keynes, England. Professor Openshaw also receives a University Research Fellowship.

See page 10.

College of Education - Individual: Professor Roger Openshaw.

Associate Professor **Keith Tuffin** of the School of Psychology receives the supervisor's award from the College of Humanities and Social Sciences, with Dr Glen Pettigrove the recipient of the early career award and Professor Neil Pearce the individual research award.

Dr Tuffin, an experimental social psychologist, has a successful supervision record stretching from 1986, when he first began supervising graduate research.

His supervision has covered areas from racism, emotion, grief and suicide to clinical psychology and disabled people online.

Dr Tuffin says his approach is one of working with students, guiding them through the research process and balancing praise with critique. "As a graduate student I was very fortunate to have supervision of the highest quality," Dr Tuffin says.

"I now provide my own research students with high quality professional supervision, helping them through the challenges and complexities of conducting original research.

Dr Tuffin also serves as a mentor to Te Rua Puawai scholarship students, acts as an external PhD examiner and as a journal referee for several publications.

College of Humanities and Social Sciences - Individual: Associate Professor Keith Tuffin

Professor **Harjinder Singh**, Fonterra Chair in Dairy Science and co-director of the Riddet Centre, He is considered a world authority on milk proteins and their relationship to dairy technology and processing.

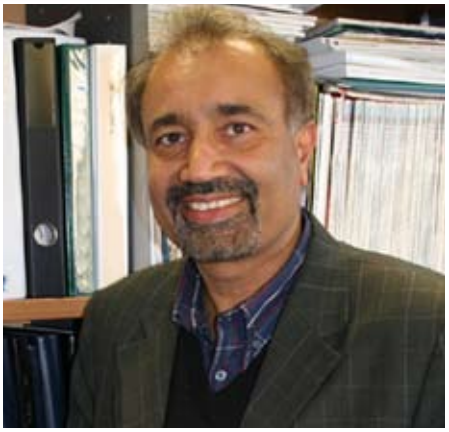
Professor Singh's early research focused on understanding the chemical and physical changes in the structures of milk proteins, in particular casein micelles and why proteins during heat processing.

After moving to Massey in 1989, Professor Singh broadened his interest to investigate structure-function relationships of milk products in food colloids, providing many new insights and new measurement techniques.

This work has had a major international impact and has also allowed the New Zealand dairy industry to develop new protein products with highly enhanced functionality.

The international standing of Professor Singh's contribution has been recognised by an industry sponsored Chair at the University since 1998, Fellowship of the Royal Society of New Zealand, the Marshall Rhodia International Dairy Science award and Professor Singh's recent fellowship to the International Academy of Food Science and Technology.

Since taking up the chair, Professor Singh has published 120 papers, 12 book chapters, 10 referred conference papers and has authored four patents.



College of Sciences - Individual: Professor Harjinder Singh

Professor **Tom Barry** has served as first supervisor for 11 bachelors honours theses completed, 11 Masters and 14 PhDs, as well as co-supervising others.

He has contributed to building a strong research environment by playing a major role in the building of the nutrition laboratory and expanding the deer unit and has since 2000 been responsible for the Riverside Farm field laboratory.

He has worked in collaboration with external agencies including AgResearch, HortResearch and the Commonwealth Scientific and Research Organisation plant division (Australia). Professor Barry is regularly asked to act as an examiner both at Massey and externally, and as a reviewer.

Head of the Institute of Veterinary, Animal and Biomedical Sciences Professor Grant Guilford says Professor Barry's passion for research and scientific rigour has inspired a commitment to excellence in numerous young staff."Caring for his students, their day-to-day needs and their future careers is very important to Tom and he works tirelessly to ensure their educational experience is as good as it possibly can be. He sets very high standards and successfully develops an appreciation for scientific rigour, creativity and self-motivation in his students by a skilful balance between supervisory guidance, and respect for his students."

College of Sciences - Supervisor: Professor Tom Barry

2007 **University Research Fellowships**

Dr Rukmani Gounder

An associate professor in the Department of Applied and International Economics, Dr **Rukmani Gounder's** research interest is economic development in Fiji.

The study will investigate a broad range of issues relating to the economic development of the small island state.

These issues include the nature and recent transformation in Fiji for economic growth and development, the reasons for economic growth (or lack of) in small states during the 1990s; the trajectory of economic policy to meet the objectives of growth; and the economic and political dynamics behind policy change.

Along with economic factors that explain growth, other factors that influence economic outcomes such as attitude, social capital and social capability are also being explored in this study.

The study is the basis of a book *Economic Development in Fiji* which is expected to have a significant role in identifying factors that contribute to differentials in growth rates among countries.

Professor Roger Openshaw

Professor **Roger Openshaw**, in the School of Educational Studies, is completing a book for inclusion in an acclaimed international series *Secondary Education in a Changing World.*

Professor Openshaw's book will critically examine the Picot Report and the subsequent Labour government policy document, 'Tomorrow's Schools'. In the late 20th century, the Picot Report brought in the most significant and far-reaching educational reforms in New Zealand's history. These reforms still impact on the theory and practice of education.

This study of a key New Zealand educational reform policy will be situated within multi-disciplinary scholarship in the United States, the UK and Australia and within the broader context of education policy studies internationally.

It is expected to generate interest amongst researchers in social sciences, humanities and professional studies who share common interest in the development of public policy. Professor Openshaw's book is expected to have a broad general readership.

Professor Openshaw also receives a College Research Award.

2007 **Postdoctoral Fellowships**

Appointment of a postdoctoral fellow who has worked in a multi-disciplinary research environment means that the project can be progressed quickly to make significant advances and publish, laying claim to very fertile research territory.

Dr **Glenda Anthony,** from the School of Curriculum and Pedagogy won a fellowship for a project called *Maths Teaching/ Learning Nexus*, a collaboration with colleagues from the College of Education that involves participation of mathematics education researchers from 15 countries in an international video-based study.

Professor **Kerry Chamberlain** from the School of Psychology won a fellowship for a project involving councils, church groups, charitable organisations and international researchers called *The Meanings of Home and Homelessness*.

It will enable additional research to be conducted to assist a project, which already has Marsden funding, on social reintegration and social interaction for homeless people.

Dr **Paul Plieger**, a senior chemistry lecturer in the Institute of Fundamental Sciences, won a fellowship for a project called *Metal Salt Extracts*.

This will enable continuation of research that received Marsden Fast Start funding two years ago to investigate electrochemically-controlled anion encapsulation.

Associate Professor **Max Scott**, from the Institute of Molecular Biosciences, won a fellowship to develop a project on the role of histone modifications in the establishment and maintenance of long-term memories called *Are memories written in the histone code?*

It involves studying the brain of the vinegar fly.

Dr **Shane Telfer** and Dr **Mark Waterland** of the Institute of Fundamental Sciences won a fellowship for a project entitled *Connecting the (Quantum) Dots*, which lies at the cutting edge of research in nanoscience, a competitive and dynamic field.

Gold nanoparticles are very small clusters of several hundred gold atoms, with the aim of the project to tether the nanoparticles together in a controlled way.

Applications may include extremely sensitive censors for both metal ions and biological compounds. The technical difficulty means the team requires an individual with a highly specific skill-set including organic and inorganic synthesis, nanoparticle chemistry, microscopy and spectroscopy.

2007 **Marsden and Fast-Start Awards**

Distinguished Professor **Gaven Martin,** Institute of Information and Mathematical Sciences, Auckland, was awarded $502,400 for a project on modern analysis and geometry.

The work will investigate two central areas of modern mathematics: non-linear analysis and low-dimensional topology linked by conformal geometry.

When deforming an object, including heating or stressing, physical laws state the deformation minimises an energy function and can be found as the solution to a usually non-linear partial differential equation.

This research exploits unexpected connections between minimisation problems for scale invariant measures of energy and distortion and harmonic mappings to give applications in theoretical materials science and critical phase phenomena, and addresses fundamental questions relating to microstructure and length scales in degenerate settings.

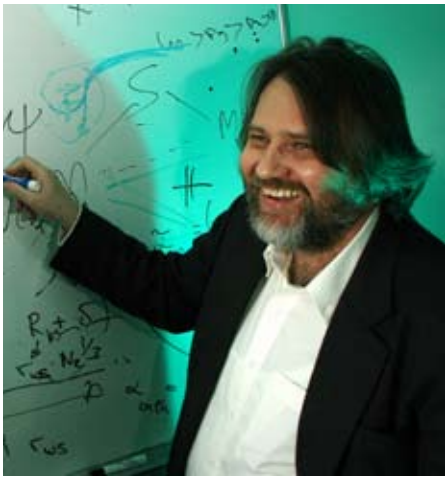
The work also seeks to classify conformal dynamical systems in higher dimensions and to identify the basic fundamental constants of hyperbolic geometry and identify all the arithmetically defined generalised triangle groups – relating geometry and arithmetic.

Dr **Ulrich Zuelicke**, Institute of Fundamental Sciences, Palmerston North, receives $800,000 for the project *Jitterbug on a Chip: Semiconductor Nanospintronics Meets Relativistic Quantum Physics*.

Einstein's laws of special relativity generalise those of Newtonian mechanics, famously predicting new behaviour for fast-moving objects. Conspiring with quantum physics, relativity is ultimately responsible for the phenomenon of spin, which makes electrons behave like tiny permanent magnets.

Dr Zuelicke's research, with colleagues from North Illinois University and the University of New South Wales, will contribute to the effort to ultimate miniaturisation of electronic chips using spintronic devices.

It will also pursue recent theoretical work that has reopened discussion on the jitter of free electrons in a vacuum, by showing that electrons in microchips exhibit an analogous, spin-related jittery motion. The project will also investigate how concepts of relativistic quantum physics may inspire new ways to make spin-electronic devices.



Professor **Peter Schwerdtfeger**, Institute of Fundamental Sciences, Auckland, receives $720,000 for work on chemistry under extreme conditions.

Because life is limited to a narrow range of temperatures and pressures, most modern chemistry and physics is focused around 'normal' conditions.

Recent advances in high-pressure physics however, have made it possible to study materials at ultra-high pressures – outside the laboratory these conditions are only in detonations of high-energy materials, in the interior of planets or in comet collisions.

At such extreme conditions the chemical bonds break and new ones form, leading to interesting new materials or phases. Materials chemistry under ultra-high pressure is an important new research area, opening up exciting new routes for stabilising novel and interesting materials or original structures of different compounds.

Professor Schwerdtfeger's work will address material chemistry under ultra-high pressure by using first-principles relativistic quantum mechanical methods to study new phases and accompanying electronic properties.

Professor **Robert McLachlan**, Institute of Fundamental Sciences, Palmerston North, was awarded $350,000 for a project on geometric integration, a novel approach to simulating the

New methods, inspired by chaos theory but driven by the demands of modern applications, are faster, more reliable and often simpler than traditional approaches.

Although used in diverse areas, these systems have in common features that make them amenable to a new approach – they all preserve some underlying geometric structure which influences the qualitative nature of the phenomena they produce.

In geometric integration these properties are built into the numerical method, which gives the method markedly superior performance, especially during long simulations.

In this new research Professor McLachlan will, with colleagues from La Trobe University, explore the geometric or structural features that systems can have, the implications for their long-time dynamics, and how to design efficient numerical integrators that preserve these geometric properties.

Professor **Barry Scott**, Institute of Molecular Biosciences, Palmerston North, receives $750,000 for a project addressing the biological role for reactive oxygen species. One of the most successful strategies that plants have evolved is the ability to form symbiotic associations with micro-organisms.

Professor Scott and his colleagues recently demonstrated that fungal production of reactive oxygen species is crucial for maintaining a symbiotic interaction between the fungal endophyte Epichloe festucase and its host perennial ryegrass.

- continues page 12

The new project, undertaken with colleagues at Japan's Nagoya University, will test the resultant working model by identifying key fungal proteins required for sensing and transducing the molecular signs that lead to Reactive Oxygen Species production and control of hyphal growth.

The work will provide insights into the molecular and cellular basis for mutualism in fungal-plant interaction.

Dr **Joachim Brand**, Institute of Fundamental Sciences, Auckland, $670,000 for a project studying the dynamics of ultra-cold atoms.

Two people who hate each other are trapped in a room. As both try to exit quickly, will they end up taking more time than people with less sentiment acting independently? What happens when three, or more, people are involved?

Replacing people with atoms, and cooling them to ultra-low temperatures, the world of quantum mechanics is entered, leading to discovery of counter-intuitive behaviour like reflection from attractive surfaces or that independent atoms leak from a box more slowly when their number is counted repeatedly.

This phenomenon is known as the quantum Zeno effect.

This project, with collaborators from Massey University and the University of Heidelberg, will address questions including whether interactions between particles will modify or enhance the quantum Zeno effect, computing the exact dynamics of ultra-cold particle systems containing two to 30 interacting atoms.

Dr **Lara Shepherd** receives $596,000 for a project tracing the domestication of history and whakapapa of cultivated New Zealand plants using DNA markers.

The project will be undertaken at the Allan Wilson Centre for Molecular Ecology and Evolution in Palmerston North,

The domestication of plants and animals was the most important development in human history during the past 13,000 years, with most crops thousands of years old and their initial domestication undeterminable.

The relatively recent settlement of New Zealand by Māori, however, provides a unique opportunity to investigate an early phase of crop domestication.

Dr Shepherd, with colleagues from the University's Institute of Natural Resources and the Department of Conservation, will genetically analyse four endemic New Zealand plants cultivated by Māori: karaka, rengarenga, whau and coastal kōwhai.

Genetic data combined with traditional oral histories will reflect and illuminate pre-European Māori settlement routes and mobility.

Associate Professor **Doug Armstrong**, Ecology group at the Institute of Natural Resources, Palmerston North, $791,000 for an experimental investigation of predator-prey dynamics in a fragmented landscape.

A key aspect of predator-prey theory is the functional response of a predator to its prey.

An individual predator may kill a relatively fixed proportion of prey per population time or the proportion killed may decline at high prey densities.

These different possibilities have important implications for conservation of prey populations.

Dr Armstrong, with colleagues from the University of British Columbia, will test the functional response of ship rats (exotic predator) to North Island robins (native prey) in remnant forest fragments.

As the first experimental test of functional response in a wildlife system, the project will have international significance for both population ecology and conservation biology.

Fast start grants of $170,000 each went to:

Dr **Manuhuia Barcham**, Director of the Centre for Indigenous Governance and Development, Palmerston North, to study indigenous corporate structure.

In recent years indigenous groups have begun to establish corporations to manage proceeds of treaty settlements. In order to receive settlement and ensure legitimacy of the claim, indigenous groups are being forced to adopt certain forms of organisational structure.

A problem arises in that the Anglo-American corporate models do not necessarily provide the best vehicle for the provision of the needs and aspirations of indigenous groups.

The adoption of inappropriate organisational structures and processes – and ultimately, values – could be one of the biggest threats facing indigenous groups.

Dr Barcham's project will explore these tensions, and look at what is working and what is not working, and why.

The key question is what are the most appropriate and effective governance structures and processes for indigenous groups in order to manage resources to provide the best possible outcomes for their people?

Dr **Vyacheslav Filichev**, Institute of Fundamental Science, Palmerston North, for the project *Synthetic Probes Yielding*

- continues page 13.

Stable and Selective DNA Triplexes for Gene Visualisation.

Gene visualisation in cells has attracted the attention of scientists due to the intriguing prospect of being able to map the location of genes on chromosomes and directly observe and study chromosome dynamic architecture which can give a better understanding of fundamental native processes like replication, transcription and gene expression.

This may lead to progress in diagnosis of genes associated with diseases and advances in cytogenic research and the development of new drugs.

This project will develop highly efficient and selective triplex-forming DNAs through the chemical modification of nucleic acids with novel type of intercalating moieties, first in vitro and later on living cells using a laboratory at the University of Heidelberg.

Dr **Patrick Bowman**, of the Institute of Fundamental Sciences, Auckland, for a project called *Bondage and Confinement: How Hadrons keep their Quarks*.

The strong force is one of the four fundamental forces of nature; it binds protons and neutrons to form atomic nuclei. These however are just the most common members of a family of strongly interacting particles, the hadrons.

This large family can be understood as a number of small constituent particles called quarks, bound together in twos and threes.

According to the theory of quantum chromodynamics, quarks interact by exchanging another particle, called a gluon.

Dr Bowman, with colleagues from Dublin's Trinity College, plans to study the quark-gluon interaction by calculating the quark-gluon vertex using a numerical method known as lattice QCD.

A precise understanding of the quark-gluon vertex will provide insight into the mechanism of quark confinement and understanding of confinement is central to understanding the structure of matter.

Dr **Phil Battley**, Ecology group, Institute of Natural Resources, Palmerston North, to explore how globally-migrating shorebirds cope with the limitations of their multi-purpose coat, by investigating the roles of melanin levels (which colour and strengthen feathers) and feather wear in shaping the visual signals of the breeding plumage.

The colourful plumages of birds, while fascinating to humans for aesthetic reasons, serve crucial physiological and social roles, and in flight feathers aid thermoregulation and

act as an important signalling agent.

Plumage can tell other birds of the sex, condition, social status and identity of the bird, but they do become degraded over time.

Dr Battley and colleagues from the University of Groningen, Netherlands, will address questions including whether more investment in plumage at the start of migration grows stronger feathers resistant to physical breakdown or if in fact spending a length of time fuelling up for migrations actually allows this luxury.

Royal Society visits campus

Senior academic staff from the College of Science hosted the Royal Society of New Zealand's first visit and council meeting on the Auckland campus recently.

Royal Society President Neville Jordan is pictured at lunch with fellow council member Professor Peter Schwerdtfeger, a theoretical chemist in the University's Institute of Fundamental Sciences.

Health focus for new scholarship

The University has funded a Peter Snell Doctoral Scholarship in Public Health and Exercise Sciences, supporting research aimed at keeping New Zealanders well.

Dr Steve Stannard, of the Institute of Food, Nutrition and Human Health, says applications are being sought for the new award, based at at the Research Centre for Māori Health and Development on the Palmerston North and Wellington campuses, .

"The idea behind this scholarship is to develop research capability at the interface between exercise science and public health," Dr Stannard says.

The scholarship is designed to acknowledge the ongoing and active relationship between Massey researchers and Associate Professor Snell, who was awarded an honorary doctorate by the University earlier this year.

Professor Chris Cunningham, director of the Research Centre for Māori Health and Development, says the successful candidate is likely to have a background in the domains of exercise science, public health, Māori health, physical education or human physiology.

Application forms and further details are available by e-mailing PeterSnellScholarship@massey.ac.nz.

The scholarship includes payment of doctoral fees and a stipend.

Fenoterol story praised in review

Professor Neil Pearce's book *Adverse Reactions: the Story of Fenoterol* is reviewed by *The Lancet* in its September issue.

The prestigious *British Medical Journal* labels the book "compelling" and "wonderfully informative".

It details the events behind and around his identification of fenoterol as the causative agent behind the epidemic of deaths of young people with asthma in New Zealand in the 1980s.

"*Adverse Reactions* should be considered essential reading for anyone interested in epidemiology," reviewer James Butcher says. "It also shows what can be achieved when a researcher with a real talent for writing takes it upon himself to describe his controversial work."

Lecturer selected for Who's Who

Dr Nigel Grigg, senior lecturer in the Institute of Technology and Engineering and co-ordinator of the Graduate Diploma in Quality Systems, has been selected for the 25th silver anniversary edition of *Who's Who in the World.*

The biographical directory will feature 60,000 entries from all fields of endeavor and from 215 countries and territories.

Top prizes for design students

Two students at the University's School of Engineering and Technology won top prizes in the annual packaging design awards.

John Fletcher won the category for student concepts with his design for USB Flash Drive packaging – a product he believes will be commonplace at supermarket checkouts in the future.

The packaging concept was hailed by judges as forward thinking, functional and environmentally sound.

Runner up Mathew Nagel also scored high on meeting environmental concerns with his recyclable oil container featuring an internal disposable bladder.

The awards are run by the Packaging Council of New Zealand. The category for student designers invites environmentally friendly packaging concepts.

Dr Phil Battley

E7 arrives back on schedule

E7 remains the only godwit to have her migration back to New Zealand monitored by satellite, bad weather in Alaska stalling the departure of the four other birds still being tracked by ecologist Dr Phil Battley.

E7 arrived back at her favourite spot on the south side of the Firth of Thames on 7 September, but has confounded attempts to photograph her.

"Unfortunately it's a muddy spot with no access so while it would be nice to have pictures we just haven't been able to photograph her," Dr Battley says.

A group was looking for E7 recently, but were unable to get close to her location as they were searching by boat, impeded by soft mud. E7's roosting flock was seen however.

E7 will stay in the Firth of Thames resting and "refuelling" until about March, when she will make her way back to Alaska to have her chicks.

Data provided by the transmitter means that Dr Battley now knows for sure her route, with her entire migratory journey clocking in at close to 30,000 km, and the southern return leg at more than 11,500km.

"She had the option to fly down to the Alaskan peninsula and take off from about 500 km further south but she didn't do that – this indicates the long journey is not such a problem to her or that she's needing to find a shorter route."

The project saw 16 bar-tailed godwits tagged with a tiny transmitter to identify how they made their way to and from Alaska. Eight birds fitted with backpack tracking devices have not been monitored because the devices appear to have fallen off. The transmitters on three of the eight birds which had the devices surgically implanted also appear to have stopped working.

Dr Battley says it is not known why the godwits migrate to New Zealand.

"It's the riskiest migration they could make. They have no other options en-route but an odd coral atoll dotted around. If things don't go well they are in trouble – we know that from last year when we had a bird who had bad winds a lot of the way.

"It had to change course and flew towards Australia, but it only got as far as New Caledonia where it died so there is a very real risk to doing this."

Dr Battley, who has been working on movements and demographics of godwits for three years, was named as a recipient of a $170,000 Marsden Fast Start grant to continue his research.

Need to review banking systems and practices in risk evaluation

The heavy reliance of banks on credit ratings provided by outside agencies should be re-evaluated says a Copenhagen conference of leading finance professionals, attended by the College of Business head, Professor Larry Rose.

The Shadow Financial Regulatory Committee conference has representation from academic and financial institutions from across the world and meets to discuss trends and identify likely impacts on many sectors from the financial services industry to the wider public interest.

The Copenhagen conference concluded there were a number of lessons to be learned from the financial turmoil of recent times, including the need for banks to also re-evaluate their risk models which had performed poorly and underestimated the degree of risk to which large and sophisticated banks were exposed.

The extremely complex and opaque links between financial institutions were also seen as a key weakness. So too was the fact that in many forms of lending, responsibility for assessing risk has been outsourced to credit rating agencies who do not suffer any losses caused by misjudgment in assessing loan risks.

Professor Rose was an invited participant in the global conference. Closer to home he has highlighted a need for New Zealanders to have a greater understanding of finance and he says the University will have a role in lifting the standard of financial literacy in New Zealand.

Top trombonist shares jazz genius with Massey students

Top US jazz trombonist, composer and arranger Bill Reichenbach – who has played on albums by Elton John, Frank Sinatra, Barbra Streisand, Aretha Franklin, Ray Charles, Queen Latifah and many more – shared his musical genius with students at Massey last week.

Reichenbach is considered one of the top two base trombonists in the world, says Rodger Fox – also a trombonist, jazz legend, band leader and jazz tutor at the School of Music in Auckland.

The visiting artist shared some of his well-honed guidelines on arranging and composing with Massey's Auckland students. His experience embraces composing, arranging and playing trombone for many of the big names in pop and jazz, including Christine Aguilera, Michael Buble, Tony Bennett and Earth, Wind and Fire.

He once shared a Rolls Royce with Michael Jackson en route to a Los Angeles studio to record a track Jackson was producing for Diana Ross. He's also played on several of Jackson's albums, and describes the controversial singer in person as "very quiet, very shy."

As well as the theoretical session in Auckland, he ran workshops in trombone techniques last week for Massey's School of Music students in Wellington and Auckland. He also performed in Wellington with the New Zealand School of Music Big Band along with Norman Meehan, Paul Dyne and Roger Sellers.

Last weekend he was special guest at the Auckland Trombone Day at the New Zealand School of Music, and which included guest artist Jim Pugh – trombonist with Steely Dan,

Bill Reichenbach.

and later in concert with the Rodger Fox Big Band.

Reichenbach first came to New Zealand in 1983 to tutor jazz musicians through his musical connections with Fox.

He says he started playing jazz drums aged four – his father was a jazz drummer – and the trombone at age of 11 because he was "attracted to the sound, the Dixieland style – it sounded fun."

He is based in Los Angeles where he continues with studio recordings, writing film scores – he's written film music for *The Incredibles, King Kong, The Chronicles of Narnia, Pirates of the Carribean 2* and *Mr and Mrs Smith* – composing and arranging, performing and teaching music.

Book explores work-life balance

Work-life balance – policy buzzword or code for an elusive state of well-being – but what does it really mean and how do we know when we've achieved it?

These issues are explored in a new book of essays penned by Massey academics, which looks at how we define "work" and "life" and how we juggle the often blurred boundary between them.

Managing Mayhem, published by Dunmore, was launched in Auckland recently. It is co-edited and co-authored by Massey Associate Professor of Social Work Christa Fouche and Professor of Public Policy Marilyn Waring from the Auckland University of Technology. Fourteen of the 18 contributors, including Professor Waring, are current or former staff or students of Massey Auckland.

The essays explore what work-life balance means to a variety of New Zealanders, including house husbands, custodial grandparents, unpaid workers, Māori, Pacific Islanders and Asians.

As Associate Professor Ann Dupuis says in her chapter, "At times 'work-life balance' appears to be a very slippery concept indeed and one that defies clear definitions". Dr Dupuis says the phrase is an irrelevant luxury to low-paid workers who struggle to find employment in order to survive.

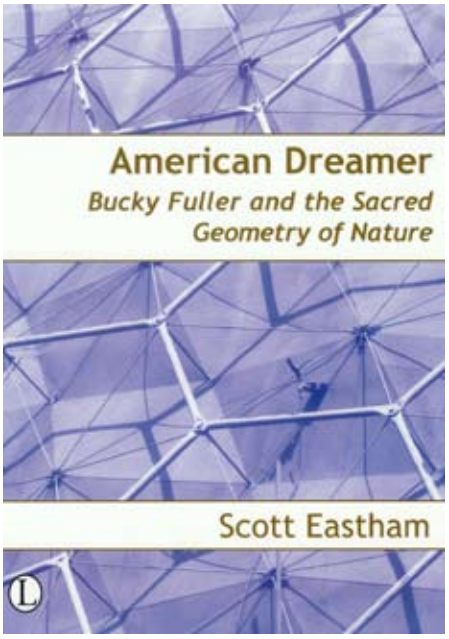
"Those who work at the margins, especially in the low-paid service sector, are more concerned about …finding work and working sufficient hours to support themselves and their families than they are with work-life balance.

"For marginal workers therefore, work-life balance is an irrelevancy."

For others, the lack of clear division between work and life hints at a blissfully satisfying existence, as one interviewee reveals in the book.

"We talked in the beginning about blurring of distinctions and the hardest one for me is actually working out what work is."

Funding for the groundwork leading to the book's publication came from the Auckland campus Strategic Research Fund.



Bucky revealed

The legacy of pioneering environmental designer Buckminster Fuller is explored in a new book by Dr Scott Eastham, senior lecturer in English and media studies.

When Dr Eastham arrived in New Zealand in the 1990s he was surprised to learn nobody seemed to know who Buckminster was – let alone what he had done or built or said.

"Bucky", as he is known to the 60s counter-culture, is the designer of the geodesic domes, and was also famed as a poet, mathematician, scientist, social critic, inventor, and for the many who heard him at the time, perhaps one of the earliest prophets of ecological awareness and the need to save "spaceship earth".

Dr Eastham says he wanted to produce a book that revealed the many dimensions of a man whose character was as multifaceted as the geometric forms he studied.

"Many commentators seem to think Bucky's ideas stand or fall by the success or failure of the dome-building industry. I beg to differ," Dr Eastham says.

"I find his fundamental re-envisioning of technology as 'what nature does' and his deployment of 'nature's coordinate system' to be initiatives more far-reaching and even more durable than the domes themselves."

Dr Eastham's *American Dreamer* is not yet on sale in New Zealand but can be sourced from online booksellers.

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:

http://news.massey.ac.nz

In the news

4 September

The Manawatu Standard: **Simmone LeQuesne**, from the Department of Information Technology Services, is preparing for the New York Marathon in November, which she is using as a fundraiser for the Asthma foundation.
Manawatu Standard: Professor **Steve Morris**, from the Institute of Veterinary Animal and Biomedical Sciences, comments on a Horowhenua beef farmer who had four of his forty one cows produce twins, Professor Morris says that to have so many cows in one herd produce twins is something of an anomaly.

5 September

The Dominion Post: Dr **Greg Clydesdale**, from the Department of Management and International Business, believes the concern Māori have about immigration are legitimate, as immigration continues to effect; the wealth gap, property ownership and job availability.
The Dominion Post: Postgraduate student **Mark Dittmer**, has been awarded a Communication Council research grant, to help with the work he intends to complete on; the scientific and environmental consequences of the March lahar at Mt Ruapehu.
RNZ, West Coast Times, Wairarapa Times Age, Otago Daily Times, Timaru Herald, Taranaki Daily News, Nelson Mail, Ashburton Guardian, Wanganui Chronicle: Professor **Chris Cunningham**, from the Research Centre for Māori Health and Development, says the government need to do more to restrict the supply of cigarettes to Māori who smoke frequently.

6 September

The Dominion Post, Manawatu Standard, TV One News, RNZ, Newstalk ZB, Westport News, Ashburton Guardian, Gisborne Herald: **Jenny Weston**, from the Institute of Veterinary Animal and Biomedical Sciences, monitors a two-year old heifer cow, which underwent surgery to remove a six centimetre bone shard which had broken away from the cows shin.
RNZ: Dr **Jim Hargreaves,** from the Institute of Technology and Engineering, discusses the idea that in a few years power companies will be able to choose whether to supply electricity to people in remote areas.

7 September

The Press, The Dominion Post, Wanganui Chronicle: Dr **David Tripe** and **Claire Matthews**, from the Centre for Banking Studies, in a submission to the finance and expenditure committee, believe the Reserve Bank should continue to focus on inflation rather than a range of issues such as the exchange rate or employment.
The Dominion Post, New Zealand Herald, RNZ, Wanganui Chronicle: **Claire Robinson**, from the Department of Two Dimensional Design, says the current Electoral Finance Bill is both unworkable and unenforceable, and did not reflect the political communication and electioneering of modern MMP campaigns.
The New Zealand Herald, Manawatu Standard, Waikato Times, Wanganui Chronicle, Southland Times; Dr **Phil Battley**, from the Ecology Group, was awarded a fast-start Marsden grant, to study how migrating shore birds, such as the bar-tailed godwits, cope with the limitations of their multi purpose coats on long journeys.

8 September

The Dominion Post, Manawatu Standard, RNZ, Ashburton Guardian: Professor **Neil Pearce**, from the Centre for Public Health Research, leads research into the Asthma epidemic that hit English-speaking countries, the research has revealed that Asthma is decreasing, from 30 per cent to 25 per cent.
The Press, The New Zealand Herald, The Dominion Post, Waikato Times, Newstalk ZB, RNZ, RLI, Nelson Mail, Bay of Plenty Times, Hawkes Bay Today, The Daily Post, Timaru Herald: Dr **Phil Battley**, from the Ecology Group, says a radio-tagged godwit is the first to be tracked on a 30,000 round trip from New Zealand to Alaska.
TV One Business is Booming: Professor **Claire Massey**, Head of the Department of Management and Enterprise Development, discusses research about the importance of good business advice.

11 September

The Dominion Post: Dr **Mike Joy**, from the Institute of Natural Resources, supports Horizons ten year plan to tighten air, water and land rules which would protect waterways, although he questions how the council will enforce the new plan.
Manawatu Standard: **Peter Read**, a Research Fellow in the Institute of Technology and Engineering, says planting is the most meaningful way to not only limit climate change, but will also help Horizons plan to stem steep country hill erosion.
Waikato Times: Professor **Peter Kemp**, from the Institute of Natural Resources, says high sugar grasses that are beginning to appear on Waikato farms showed some promising results, but it is still to early to see enough significant evidence.
Radio Australia: Associate Professor **Glyn Harper**, Director of the Centre for Defence Studies, discusses the unlikely possibility of Australia planning to invade Fiji, as alleged by Commodore Bainimarama recently.

13 September

The New Zealand Herald, RNZ, Bay of Plenty Times: Dr **Tom Nicholson**, from the School of Education, conducted a study comparing low and high decile schools, revealing the education gap has remained similar in the last ten years, and urges students as young as six years-old to attend summer school in a bid to close that gap.
The Dominion Post, Southland Times, Timaru Herald: Dr **Chris Malone**, from the Department of Finance Banking and Property, says finance companies will need to be fairly big to meet some of the new requirements put in place by Finance Minister Dr Michael Cullen.
The Dominion Post, The Press, RNZ, Marlborough Express, Ashburton Guardian: Professor **Steve Morris**, from the Institute of Veterinary Animal and Biomedical Sciences, led a three year trial project which aimed to test if lambing more than once a year is possible and profitable, the project revealed if the pasture was good, and artificial insemination was used, the process would work.

15 September

The Manawatu Standard, RNZ, Timaru Herald: Professor **Roger Moriss**, Director of the Epicentre, says the latest outbreak of Foot and Mouth Disease in Britain comes as a mystery, as it has been 40 days since the last outbreak and the virus cannot survive that length of time without an animal infection.

17 September

The Dominion Post, Manawatu Standard; Professor **Taiarahia Black**, from the School of Māori Studies, believes Māori television is losing its way by not focussing on Te Reo, as Māori Television was established based on the premise that Te Reo would be protected and promoted.
The New Zealand Herald, RNZ, Otago Daily Times: Dr **David Tripe**, from the Centre for Banking Studies, says whilst Kiwibank has offered a new drop in interest rates, he is reluctant to describe it as significant as it is still a lot higher then what it was a year ago.

Research Funding News

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

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

College of Business, College of Humanities & 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 (Albany) Advisor
Jo Stone, j.d.stone@massey.ac.nz
ext. 9533 or 027 233 6333

TEC – Encouraging and Supporting Innovation Fund
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:

Research Programme
Land Transport New Zealand
Closes: 28 September
Amount: RFP

Illustrators of the Future
Author Services, Inc.
Closes: 30 September
Amount: Up to $4,500

Creative Arts Residencies
Rockefeller Foundation
Bellagio Study & Conference Center
Closes: 1 October
Amount: Subsistence allowance

Philip Wrightson Postdoctoral Fellowship
Neurological Foundation of New Zealand
Closes: 1 October
Amount: Salary costs

Facilitation of Workshops on the New Zealand Teachers Council's Code of Ethics for Registered Teachers
New Zealand Teacher's Council
Closes: 1 October
Amount: RFP

Research Awards
C. Alma Baker Trust
Closes: 15 October
Amount: Up to $200,000

Postgraduate Study Abroad Awards
Education New Zealand
Closes: 1 November
Amount: Up to $10,000
Travel Grants

Neurological Foundation of New Zealand
Closes: 1 November
Amount: $4,000
Integration of Mental Health Care within a Primary Health Care Setting
Health Research Council
Closes: 2 November
Amount: RFP

Loeb Fellowship
Harvard University Graduate School of Design
Closes: 3 January
Amount: Up to $27,500

Request for Proposals
New Zealand Flour Miller's Association
Closes: continuous
Amount: RFP

Community of Science Funding Opportunities Database:
The funding opportunities listed 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 organise training sessions contact Diana Young, d.m.young@massey.ac.nz x. 81341.

Accident Compensation Corporation Contestable Funding:
A new contestable research fund has been established to encourage research into a number of key areas that face ACC and the diverse communities it serves, both now and into a rapidly changing demographic and technological future.
Under the new contestable fund ACC has allocated $600,000, and expects to fund a number of small-to-medium sized projects that should be completed by June 2009.

The objectives of the ACC contestable funding in 2007 are to:
Encourage innovative research in core areas of Injury Prevention, Injury Treatment and Rehabilitation;
Provide seed-funding to establish the potential of research projects which may in the future attract funding from major funding bodies; and to
Support research in areas that are relevant to ACC but are poorly funded by other agencies.

ACC has identified three key areas in which it wishes to invest. These areas are:
Rehabilitation and injury prevention in an aging population;
Understanding factors that will reduce disparities in access to the ACC Scheme; and
Development and testing of innovative approaches to the purchasing or delivery of treatment or rehabilitation services.
Please contact Dr Victoria Bradley or Dr Kate Arentsen for further information.

Events

http://events.massey.ac.nz

PN – Wednesday 26 September
3.00pm to 4.00pm
Sociology Programme Seminar
LifeLines: Imagining family, friendship and intimacy across the life-course
Dr Lesley Patterson
In early 2007, 100 Year 13 students from a range of rural, provincial and metropolitan New Zealand secondary schools completed a writing exercise in which they described their imagined futures, with a particular focus on family, friendship and intimacy across the life-course. This seminar presents an overview of the research method and key findings. In particular, the dominant narrative identified through the research – 'A Happy Stable and Contented Life' – is described, as are the different and remarkably gendered ways young women and men achieved this narrative when imagining the place of paid work within their imagined futures.
This research was funded by the NZ Families

Commission Blue Skies Research Fund.
All welcome, Venue: SST 3.45
Contact: Debbie Hill
Ph: ext 2822

Wn – Thursday 4 October
3.00pm to 4.00pm
The Department of Communication and Journalism Postgraduate Research Seminar Series 2007
Jeannie Fletcher
The 'right context' for innovation: the role of organisational structure and communication climate
Tea, coffee and biscuits provided.
Other Seminar sessions held on Aug 16th & 23rd, Sept 6th, Oct 18th & 25th and Nov 1.
http://communication.massey.ac.nz
Venue: Room 6C01 (Block 6, Level C) Massey University, Wallace St.
Contact: Nicky McInnes
Ph: 04 801 5799 x 62280

WN – Friday 5 October
1.00pm to 2.00pm
Colin Hemmingsen Quartet: NZSM Jazz Vocal Ensemble
The bassoon is primarily a classical instrument and rarely used in jazz. This is an opportunity for people to see how traditional instruments can be used in improvisation. Hemmingsen has had a dual jazz/classical career for more than thirty years and until 1992 was New Zealand Symphony Orchestra's principal bassoonist. He is senior lecturer in jazz studies at the NZSM.
Venue: Conservatorium Concert Hall, New Zealand School of Music, Mt Cook Campus, Block 1, Wallace Street.
Contact: Debbie Rawnsley
Ph: 04 463 6050

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 July / August 2007: full information about these scholarships and all others scholarships can be found on http://awards.massey.ac.nz/

Undergraduate

Dorothy L Newman Scholarship – closing 28 September 2007

Health Research Council Summer Studentships Māori Health Research – closing 28 September 2007

Inspiring New Zealanders Scholarships - Olympic Sports – closing 30 September 2007

Institute of Fundamental Sciences Summer Scholarship – Chemistry – closing 30 September 2007

Institute of Fundamental Sciences Summer Scholarship – Mathematics – closing 30 September 2007

Institute of Fundamental Sciences Summer Scholarship - Physics – closing 30 September 2007

The Alex Lindsay Memorial Award – closing 30 September 2007

Exchange Student Scholarships – closing 1 October 2007

Freemasons University Scholarship – closing 1 October 2007

Health Research Council Summer Studentships – closing 1 October 2007

Health Research Council Summer Studentships Pacific Health Research – closing 1 October 2007

North Shore City Council Environmental Services Planning Scholarship – closing 1 October 2007

Postgraduate

Dorothy L Newman Scholarship – closing 28 September 2007

Health Research Council Summer Studentships Māori Health Research – closing 28 September 2007

Postgraduate Field Research Awards – closing 28 September 2007

Inspiring New Zealanders Scholarships - Olympic Sports – closing 30 September 2007

Institute of Fundamental Sciences Summer Scholarship – Chemistry – closing 30 September 2007

Institute of Fundamental Sciences Summer Scholarship – Mathematics – closing 30 September 2007

Institute of Fundamental Sciences Summer Scholarship - Physics – closing 30 September 2007

Quest for Excellence Scholarship – closing 30 September 2007

The Alex Lindsay Memorial Award – closing 30 September 2007

Edward & Isabel Kidson Scholarships – closing 1 October 2007

BING'S Scholarship – closing 1 October 2007

Cambridge Commonwealth Trust Prince of Wales Scholarship – closing 1 October 2007

Commonwealth Scholarship – closing 1 October 2007

Dick and Mary Earle Scholarship in Technology – closing 1 October 2007

Fish & Game New Zealand Research Scholarships – closing 1 October 2007

Freemasons Postgraduate Scholarship – closing 1 October 2007

Freemasons University Scholarship – closing 1 October 2007

Freyberg Scholarship – closing 1 October 2007

Health Research Council Summer Studentships – closing 1 October 2007

Health Research Council Summer Studentships Pacific Health Research – closing 1 October 2007

Henry Kelsey Research Scholarships – closing 1 October 2007

Lovell & Berys Clark Scholarships – closing 1 October 2007

Massey University Vice-Chancellor's Doctoral and Doctoral Scholarships – closing 1 October 2007

Massey University Masterate and Māori Masterate Scholarships – closing 1 October 2007

Pukehou Pouto Scholarship – closing 1 October 2007

Ryoichi Sasakawa Young Leaders' Fellowship – Masterate – closing 1 October 2007

Ryoichi Sasakawa Young Leaders' Fellowship – Doctorate – closing 1 October 2007

The Association of University Staff Crozier Scholarship – closing 1 October 2007

Todd Foundation Awards for Excellence – closing 1 October 2007

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

General notices

editor@massey.ac.nz

ACADEMIC STAFF PROMOTIONS 2007
Review of Decision

Decisions on Academic Staff Promotion Applications up to the level of Associate Professor have now been advised.

Academic staff who wish to seek a review of the decision may only do so on procedural grounds. Such requests must be detailed in writing and must clearly identify any matters of procedure that the applicant wants the Committee to review.
Written requests are to be forwarded to the Director - Human Resources by 4.00 pm Friday, 28 September 2007. Please note that requests received after this date cannot be accepted.
Academic staff who wish to apply for a review are advised to consult with their Head of Department/ Institute/School and Pro Vice-Chancellor in the first instance.
Independent Observers were appointed to four of the College Promotions Committees and a copy of their report for the relevant College Promotions Committee is available to academic staff in that College from either the Pro Vice-Chancellor's Office or the AUS Office, Commercial Complex.

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.

24 September 2007 - Issue 14

Publisher: Massey University Communications and Marketing
Printed: Massey University Printery
Next issue: 8 October 2007

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.

Circulation: Please advise David Wiltshire of your circulation and delivery changes.
email: d.wiltshire@massey.ac.nz

Contact:

Director of Communications and Marketing:
Rachel Donald
email: r.j.donald@massey.ac.nz
Tel 06-350-5562 or 027-494-9077

Communications Manager:
James Gardiner (Palmerston North)
email: j.c.gardiner@massey.ac.nz
Tel 06-350-5255 or 021-275-3394

Communications Advisers:
Helen Vause (College of Business)
email: h.e.vause@massey.ac.nz
Tel 09-414-0821 ext. 9421 or 027-540-0701

Jennifer Little (Auckland)
email: j.little@massey.ac.nz
Tel: 09-414-0821 ext. 9331 or
027-453-4562

Lindsey Birnie (College of Sciences, College of Humanities and Social Sciences)
email: l.birnie@massey.ac.nz
Tel 06-350-5185 or 027-534-5622

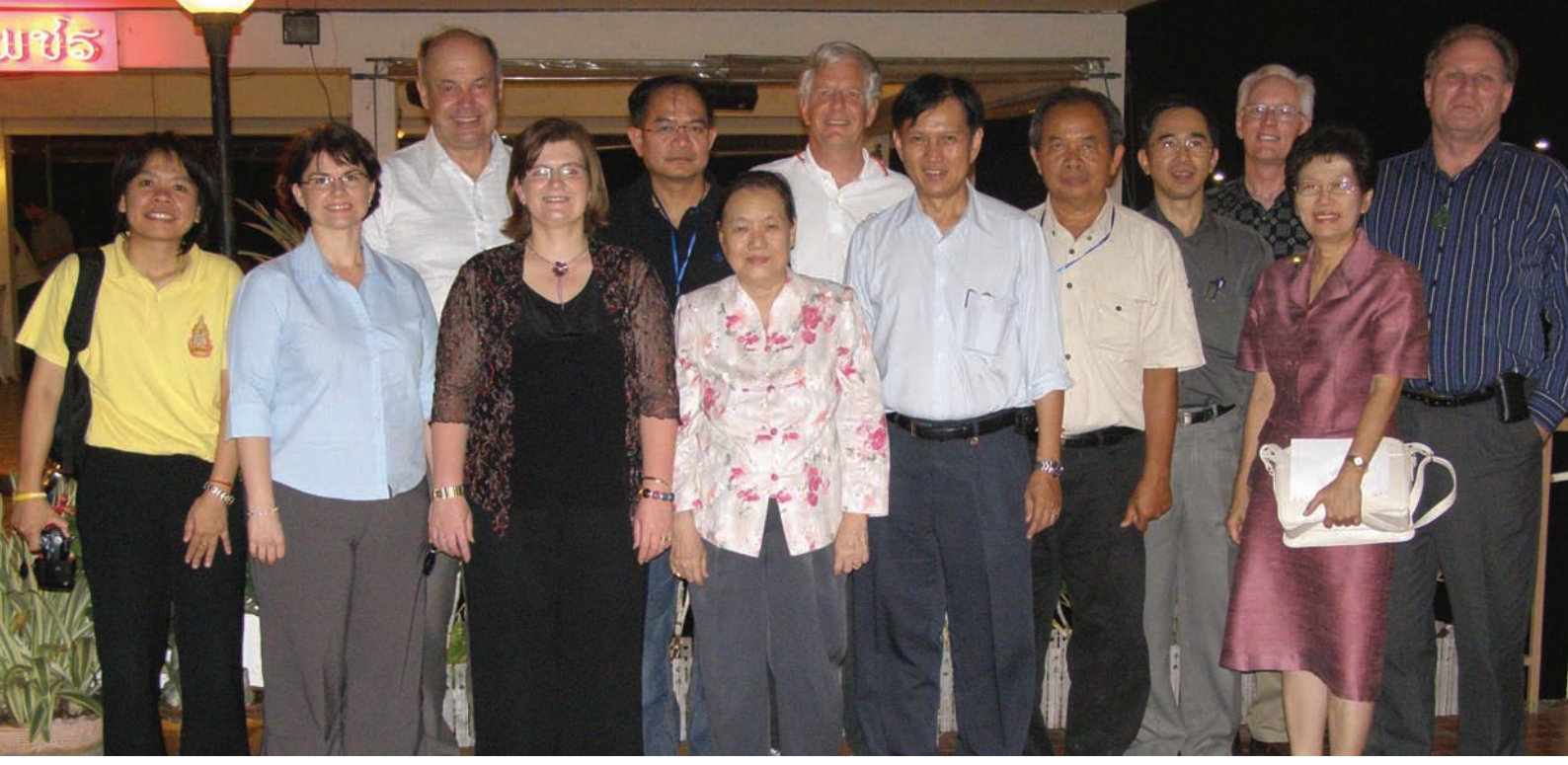
Kereama Beal (College of Education)
email: k.beal@massey.ac.nz
Tel 06-350-5019 or 027-471-8571

Patrick Morgan (Wellington, College of Creative Arts)
email: p.j.morgan@massey.ac.nz
Tel 04-801-5799 ext 6653 or 027-563-4733

Electronic Publications Coordinator:
David Wiltshire
email: d.wiltshire@massey.ac.nz
Tel 06-350-5370

Photo Contest

Entries close at noon on 30 September and are open to all readers of Massey News and subscribers to the @Massey newsletters, including Massey staff and students.
http://masseynews.massey.ac.nz/newsletters/national/NZG-competition.html



Delegation at Alumni function in Khon Kaen – Dr Duangrat Thongphak, Andrea Flavel, Professor Ian Warrington, Leanne Fecser, Dr Prachak Bouphan, Associate Professor Dr Tipvanna Ngarmsak, Professor Ray Winger, Associate Professor Dr Suwit Laohasiriwong, Supachai Ngarmsak, Dr Suthan Kanchanatawee, Professor James Chapman, Dr Sripanya Chaiyai, Professor Chris Moore.

Thai trip encourages new enrolments and partnerships while building bonds with alumni

A delegation of Massey staff has returned from a successful visit to Thailand that is like to boost enrolments as well as cement growing relationships with Massey alumni there and Thai universities.

The trip, organised by staff of Deputy Vice-Chancellor (Palmerston North) Professor Ian Warrington, included Education Pro Vice-Chancellor Professor James Chapman, Professor Warrington, Associate Pro Vice-Chancellor (International and Distance Learning) Professor Chris Moore from the College of Business, Professor Ray Winger from the College of Sciences, Centre for University Preparation and English Language Studies Director Andrea Flavel and Alumni Relations Manager Leanne Fecser.

Seminars were held in the cities of Bangkok, Chiang Mai and Khon Kaen on 27, 29 and 31 August, with alumni functions in the evenings at each venue.

Professor Warrington says the seminars attracted about 170 people and he anticipated more than 10 new PhD enrolments could result immediately, along with several groups and individuals signing up with the English studies and University preparation centre.

Ms Flavel says she returned with two PhD applications in hand and waiting in her office were two requests for proposals for group courses of up to 35 participants, and a request to deliver a block course in Thailand.

"It was a very successful trip from the Centre and the University's perspective."

Professor Chapman concurs. "From the College of Education's perspective, the trip was very fruitful," he says.

"I held individual meetings with a number of prospective doctoral students, two of whom had very well prepared thesis proposals for me to consider. I also had productive meetings with staff from various Thai universities, including Kasetsart University and Sukhothai Thammathirat Open University.

"I anticipate having more post-graduate Education students from Thailand than any other Asian country. A large part of the success of the trip was due to the exceptionally good organisation and format of the seminars. Professor Warrington's arrangements and well developed links in Thailand have served Massey well."

Professor Moore says the trip provided an opportunity to develop "two plus two" partnerships with Thai universities, whereby students study for two years in their own country then carry credits across to Massey for a further two years.

Mrs Fecser says Massey has 229 alumni living in Thailand and this was the first attempt to bring them together at a University function in their country. "It was a tremendously successful trip that has laid the groundwork for future relationship building," she says.

"About 15 per cent of the alumni in the entire country were able to attend one of the three functions, which isn't bad considering the distances involved, how busy people are and, of course, many of them were out of the country anyway. The people we met were great. They genuinely loved Massey and had fond memories of their time here and were keen to maintain those links."

Professor Winger says the College of Sciences will be progressing possible two-plus-two undergraduate arrangements with King Mongkut's University of Technology and Kasetsart University.

"There was strong interest from several universities to develop direct links to Massey with shared masterate programmes in food science and technology," Professor Winger says. "At least three PhD students wish to enrol at Massey in the food area and there was enthusiastic interest in other areas of Science.

"This was a very effective activity for Massey – our presence was widely known throughout Thailand, even by those not attending the seminars."

One alumnus, Associate Professor Suwit Laohasiriwong, who is President of Nakhon Phanom University, has agreed to act as Massey's Alumni Ambassador to Thailand and will help maintain the links that Mrs Fecser hopes will lead to the establishment of networks (equivalent to the New Zealand and Australian Alumni Chapters) in Thailand in 2009.

Professor Moore says he believes the trip lifted Massey's profile in Thailand substantially. "These types of trip are essential to maintaining a profile in countries like Thailand.

"The alumni certainly appreciated the effort Ian and Leanne put into making it a success. Massey has many very loyal and influential alumni around the world and events like this go a long way maintaining and building loyalty to Massey – it pays dividends in the long run through networks that support Massey and encourage students to come to Massey for undergraduate and postgraduate study."

Just prior to this trip, on 18 August, Massey Development and Alumni Director Mike Freeman attended a reunion in the Malaysian capital Kuala Lumpar of about 70 Massey graduates, mostly food technology students in the 1980s, many of whom are now prominent in the Malaysian education, business and political sectors.

