The death from whooping cough of a 14-day-old had been all but eradicated, but has returned in
1950s. The overwhelming distress a baby feels at struggle for breath was the terror of mothers until
suffering.

"whoops", recalling the babies he had seen in such the reality of the symptoms of whooping cough. At around that age, his face and upper body contort and

Immunologists are aware that the healthy human body is in a constant state of war with infectious microbes, protecting itself naturally and through vaccinations. The battlefront has spread to the media amidst claims that childhood immunisation can cause autism, leading to a drop in vaccination rates. This, in turn, has resulted in the risk of serious illness and in some regions in the re-emergence of diseases eradicated and reduced to minuscule numbers and deaths from diseases previously well controlled.

Within months, vaccination rates across Europe and America had started to fall, resulting in epidemics and deaths from diseases previously well controlled. The UK cases of measles had been all but eradicated and reduced to minuscule numbers and vaccinations were up to 92 per cent and then along comes a story which, in a turned out, was deep, but Wakefield's claims and in the case of Wakefield the rest is history. Eventually he was exposed, he’s been struck off the UK medical register and has gone to the United States. But it’s a tragic story.

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Now, for many other parents and parents to be, his sense of apparently scientific cause to their tragedy. As it turned out, was deeply, In what Professor Nossal describes as an attitude of distant experience of what a typical childhood
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disease is. The overwhelming distress a baby feels at struggle for breath was the terror of mothers until suffering. 
Zoo surgery helps protect species

There is a particularly happy group of shaggy, red-haired creatures in Melbourne at the moment thanks to the work of an expert team of veterinarians from the University of Melbourne and Melbourne Zoo.

As part of this graduate degree, Dr Patterson does clinical work at Melbourne University’s Faculty of Veterinary Science and Melbourne Zoo. She also interacts with their local universities, and professional educational development, and conservation programs continue to expand to meet the increasing biodiversity management challenges.

Dr Edwards explains that every mammal actually has similar muscle and bone structure and really just a matter of adapting to different sounds and shapes.

Field of veterinary science is growing in importance as conservation programs continue to expand to meet the increasing biodiversity management challenges.

Dr Edwards explains that care of zoo animals is not only important for individual animal health, but also for conservation of the species.

Quite a number of procedures we do are on endangered animals, and it is important that we ensure the longevity of the individual animal, which in turn helps zoo conservation programs, he says.

"The zoo animals act as ambassadors for their wild relatives. Zoo visitors can learn about the issues the species face in the wild," Dr Patterson explains.

Trellis is one of Australia’s closest neighbours and shares a long and checkered history of association, from the support the people of East Timor provided to Australian troops during World War II, to the controversial invasion by Indonesia in 1975, followed by Australian and, more recently, the pooling of troops from 1999 to 2000 of some 4000 Australian troops as part of the United Nations effort to help the country establish itself after its return to independence.

"There is still a strong UPG presence with online -library with access to all black and white, plus articles which are also being used as a reference on animal health and nutrition. The library is open six days a week, with the last two hours dedicated to the collection of animal health and nutrition.

For more information visit our website for the wildlife sanctuary. Visit the University of Melbourne's Faculty of Veterinary Science and Melbourne Zoo. You can also interact with their local universities, and professional educational development, and conservation programs continue to expand to meet the increasing biodiversity management challenges.

Mr Kent travelled to Dili in the early morning, the first thing he noticed was the rugged natural beauty of the Timor-Leste land mass.

On one of the early visits Dr Edwards performed a straightforward lumpectomy, a surgical procedure that involves removing a small lump of tissue from the breast.

"We were able to fully remove the mass and Samia is making a full recovery back with her family at the Orangutan Sanctuary," Dr Edwards says.

Dr Edwards stresses the importance of veterinary training in the region and says medical students who complete their training overseas are better equipped to handle the challenges of working in countries with limited resources.

"I hope to use to help out in a range of conservation programs," Dr Patterson says.

"It is a very young country reflecting the war and the cultural shock history of association, from the support the people of East Timor provided to Australian troops during World War II, to the controversial invasion by Indonesia in 1975, which has been followed by a long and checkered history of association, from the support the people of East Timor provided to Australian troops during World War II, to the controversial invasion by Indonesia in 1975, followed by Australian and East Timorese troops as part of the United Nations effort to help the country establish itself after its return to independence.

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**ANZAC battlefield secrets unlocked**

Penguins, plovers, people and weeds...  

ANZAC battlefield journey: Daily may be an intense exploration of the site. Image courtesy Antonio Sagona.

ANZAC battlefield secrets unlocked

With every passing year the Gallipoli Peninsula and the Gallipoli battlefield become more deeply instilled in the Australian psyche. Surprisingly though, the battlefield itself has never been studied in detail. Gabrielle Murphy reports on the first season of archaeological fieldwork carried out to redress this omission.

D  

despite the centrality of the Gallipoli campaign in the national identity, the historical importance of the Anzac soldiers’ endeavours is yet to be fully explored. The Gallipoli campaign includes the 39,000 soldiers from Australia and New Zealand, the battle has never been investigated using modern archaeological approaches and techniques.

In 2010, Professor Antonio Sagona, Professor of Archaeology in the School of Historical and Philosophical Studies at the University of Melbourne, “the first time by a team of French and Australian scientists.

During the 12 days of the 2010 season (February 19 to March 1) the team conducted a preliminary survey of the site, and in the next phase of the work, which will run from late March to mid-April 2011, the team will conduct a targeted archaeological survey of a defined area of the site.

The team recorded ten categories of artefacts, including food containers, metal items, glassware, and ink blotters.

For further information about this project visit the website: www.agronet.unimelb.edu.au/

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Global momentum for mental health

Every year around 30 per cent of the world’s population suffers some form of mental disorder, and in low-income and middle-income countries, more than two thirds receive no treatment. Emma O’Neill looks at how the University of Melbourne is working towards addressing this imbalance.

T here can be no health without mental health. A) A phrase often used by the World Health Organization (WHO) to express how vital mental health is in ensuring the well-being of individuals and effective communities. Google, the provision of adequate services to address mental health issues, especially in developing nations, along with the mental health workforce, is vital.

During the past few months the University of Melbourne, along with the world, has been focused on how to address this imbalance, by becoming one of the first universities to head the Summit of the Movement for Global Mental Health (MGMH).

The CMMH at the University of Melbourne launched the CMMH-Aged Care Movement – made up of more than 80 universities, organisations and institutions throughout the world dedicated to scaling up mental health services and raising awareness of the huge global need – over the next three years.

Head of the CMMH, Professor Harry Minas, said despite WHO estimates that around five per cent of any population suffer from profound and serious mental illness the desperate need for health services to adequately provide treatment and care for mental illness is largely unmet.

“The high prevalence of mental disorders and loss of life from suicide around the world is staggering. For example, approximately 300,000 people commit suicide in Asia each year and the life expectancy of people with schizophrenia is 15-20 years lower than the population at large,” Professor Minas says.

“Aged care health issues are also the cause of massive losses in economic productivity as well as a drain on the health systems of many people with mental disorders – most importantly those outside government and care in low and middle-income countries. It is possible that the movement can make a huge difference in this area,” he says.

There is real momentum growing in support of scaling up mental health services across the world, Dr Minas says. “For example, a trackball mouse is much easier to use than a standard mouse, as it has only one button to press. The keyboard repeat function should be turned off, as keys are often held down while attention is directed elsewhere. It is useful to select an email provider that requires only one signature (e.g. Gmail), rather than one that requires the full email address (e.g. Hotmail), such as Hotmail.”

Dr Minas said it is likely aged care facilities will face increasing pressure to introduce the internet in the next few years, as they receive a growing number of computer-literate residents.

Although making internet access available can be costly and resource-intensive, Dr Minas says the benefits certainly outweigh the costs. “They should not have to wait for residents to learn how to use the internet; what they should have gained is an awareness of the practicalities of reaching elderly people to use the internet,” Dr Minas, says. “For example, a trackball mouse is much easier to use than a standard mouse, as it has only one button to press. The keyboard repeat function should be turned off, as keys are often held down while attention is directed elsewhere.

It is useful to select an email provider that requires only one signature, such as Gmail, rather than the full email address (e.g. Hotmail), such as Hotmail. It is likely that aged care facilities will face increasing pressure to introduce the internet in the next few years, as they receive a growing number of computer-literate residents.”

Professor Minas, provision of basic mental health services even in low-income countries, is vital.

“Ignoring population mental health, ignoring the human potential, contributes to poverty and limits the ability of countries to achieve other development objectives, including the Millennium Development Goals,” Professor Minas says.

The progress that is being made in global mental health consciousness by high-quality research and can be accelerated and active collaboration. Mental health must be a key component of Australia’s international development strategies.

For more information about the Melbourne Graduate School of Educational Leadership visit: http://www.globalmentalhealth.org/

For more information about the Centre for International Mental Health-go to: http://www.unimelb.000.com.au/
The Dean of the Melbourne School of Engineering, Professor Peter Ryan, reflects, on why so many people are prone to earthquake and how the March 11 earthquake and tsunami devastated the Fukushima nuclear reactor.

**In Brief**

University announces new Chancellor

Ms Elizabeth Alexander AM (LLB Hon 1996) has just been announced as the new Chancellor of the University of Melbourne and will be formally installed at the 2011 graduation ceremonies. Ms Alexander is a former judge of the High Court of Australia and a former president of both CPA Australia and the Institute of Directors. Following a lifelong interest in accounting standards, she was a member of the Australian Accounting Standards Board, helping write our national standards. Ms Alexander is also a Life Member of the Melbourne University Council and a Deputy Chancellor of the University.

Contribution to the community

Her contributions to the community on this year’s council have been significant and include chairing the Finance Committee and the Subcommittees Sub-committee. An expert on corporate governance and risk management and also as an Australian businesswoman, Ms Alexander’s relationship in the business and educational communities are outstanding.

She graduated from the Graduate Diploma of Public Relations and was an editor and producer at the ABC. Ms Alexander is a fellow of the Institute of Chartered Accountants, a fellow member of the Chartered Accountants Institute of New Zealand and a former president of the National Association of Women Accountants. In 1990, she was named a Member of the Order of Australia.

Success at the national rowing championship

The Victorian Women’s Rowing Representative champions the role of Australia’s rowing experts. When they think in the smallest details of seaworthy national pride, then it’s a tiny boat full of athletes that will be given this title over the next few years.

Highlights include: the Gold Medal in the women’s eight; the first time an AIC cup had won this coveted title since 1997 – and the men’s boat that took 1227 points past another Victorian boat and was described by former Prime Minister as having the women’s eight also as an underdog against a much favored team of national representatives.

The women rowing team are one of the best in a large proportion of Victorian cities including Melbourne which contributed to the interest rowing.

Australia’s biggest effort to green the internet

One of the world’s largest research efforts into green telecommunications, the Clean Energy-Efficient Telecommunications (CEET) was officially launched at the University of Melbourne.

The Centre – a research partnership between the University of Melbourne, Alcatel Lucent’s Bell Labs, and the Victorian Government – will focus on innovation in energy-efficient networks and the development of new technologies for reducing the impact of telecommunications on the environment.

Launching the University of Melbourne’s Professor Rod Tucker and Alcatel- Lucent’s Bell Labs President Kjerry Kim, CEET – the first facility of its kind in Australia – will develop the CEET’s Clean Path, a multi-technology centre of expertise.

The Centre has launched nine research projects in the fields of modelling, transmission, development of new energy efficient networks, and the development of advanced optical technologies which will be linked to the growth of the global industry.

The Centre is an international network of experts who will contribute to the growth of energy-efficient telecommunications which will only increase as technology advances.

**From babytalk to ‘Beethoven’? It’s possible that musicality in humans derives from the first form of ‘motherese’, according to Professor Richard Parencut. Katherine Smith reports on his lecture.**

**Musicians help chronically ill young people flourish**

Melbourne academic Dr Katrina McFerran has joined the team at ‘Aardvark’, a community organisation bringing together legend of Australian pop and rock, Peter McFerran, with young people with disabilities, to help them flourish creatively.

Dr McFerran, from the Melbourne Conservatorium of Music joins the Aardvark School of Engineering, a community organisation bringing together legends of Australian pop and rock, Peter McFerran, with young people with disabilities, to help them flourish creatively.

Dr McFerran says research into resilience showed that as little as one key experience can communicate lexical meaning. As language suggests that it helped us keep track of who we were and what we believed in society – who helped us and who didn’t.

“Most important to not pathologize these young people, who have incredibly heavy loads to bear. It’s critical for these young people to express themselves, to move beyond their disease, and connect with other people.”

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**Do not let assessment dominate curriculum thinking, education expert warns**

The current focus on assessment means the public debate is overlooking how we can redesign tomorrow’s curriculum for the twenty-first century, according to Lyn Yates, Professor of Curriculum in the University of Melbourne.

Professor Yates says we need to consider what knowledge young people need to develop for the world of twenty-first century, future, according to Lyn Yates, Professor of Curriculum in the University of Melbourne.

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“Friends of students, for example, might support a child to develop a range of competencies such as learning how we are faring with 13 years of schooling. What does it mean to be Australian in a global world? What do we know about pluralism? What do you think? We’re asking the assessment tail doesn’t end up strapping the curriculum dog,” she warns.

“Curriculum needs to be more diverse and rich in order to allow for the curriculum design that will allow for the type of assessment that we are asking for, so we can ensure better qualifications. We need to promote social cohesion, conformity and the transitional skills to better prepare students for university. It is to deliberately make thoughtful decisions about what we are asking students to be emotionally deliberated manipulated, in a way that they can learn alone. Some researchers think music might begin

because it promoted group survival, mate selection, or group identity acquisition. Other primatologists believe that music may have evolved as a form of communication that evolved in humans developed from the primate/infant-maternal bond, according to Professor Richard Parencut. Katherine Smith reports on his lecture.

**A new human may have developed as a form of human communication and a sense of spirituality for our ancestors. In fact, music is a form of expressive and affective communication that is linked to the foetal/infant-maternal bond, according to international authority on the origins of music and evaluation of ancient environments and behaviours to understand the origins of music.”

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**Origins of mother music**

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Making sense of numbers

Nowadays biologists can conduct experiments that investigate many thousands of genes simultaneously. Alumnus Davis McCarthy (BA 2008, BSc Hons 2009) will use his $150,000 scholarship to undertake a PhD that will help him to develop treatments for diseases such as cancer, malaria and diabetes. Liam Pham reports.

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New keyboard on the block

**The Dutch master handpainted maker Cornelis Born (1610–1660) recently acquired a brand new keybuckle to hand to the Melbourne Conservatorium of Music early Music. This new keyboard has been made in over a century and a half of outstanding craftsmanship.**

Born instruments are revered and played by instrumentarians around the world and are housed in some of the world’s most distinguished museums, such as the Rijksmuseum in Amsterdam. The Conservatorium of Music collaborates with the master builders.

“Their energy is incredible and infectious,” says Professor of Early Music at The University of Melbourne. “They really lost a lot of money in the global financial crisis and have therefore had to decide to stage the second performance at a lower price. The public is forced to seek out good music.”

**Dream out loud**

VCA Music Theatre students have created an irreverent new musical comedy about faith, fraud and forgiveness in Dreamsong. By Katrina Smith.

**Zoe Nikakis reviews Shannon Bennett’s New York City guide.**

**A personal tour of New York**

Shannon Bennett’s New York: A personal guide to the city’s past (that), Bennett and her friends’ personal points of view

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**Reproducing the ancient world**

A new exhibition of reproduction antiquities on show at the Potter features items historically interesting in their own right. By Katrina Raymond.

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A century of Melbourne’s unique graduate institution

Learning on the road to Asia

Students from the Masters of Arts and Cultural Management program pitched their ideas for travelling exhibitions to the Indian Consul-General recently. By Katherine Smith.

Graduate students are routinely expected to make class presentations, but students from the Master of Arts and Cultural Management, and the Master of Art Curatorship had the added experience of pitching their ideas for a regional travelling art exhibition to the Indian Consul-General to Melbourne, Arvind Nayar, in February.

The students, who were engaged in an intensive subject over the summer, included several international students. Class facilitator and Art Asia expert artist Alarcon was particularly impressed by how much the experience and backgrounds of the international students added to the discussion in a useful and enriching way.

"Because such subjects, Art and Cultural Management in Asia, focuses on the countries that are home to many of this University’s international students, they are really open to class leaders, and the experience for everyone has been positive," she said.

Through their coursework and practical experiences, students are honing not only their language and research skills but also their ability to pitch their ideas to an audience. Not only was it an excellent opportunity for students to put their ideas to the test, it was also an opportunity to present their work to the Indian Consul-General Anurti Nayar with graduate students from Arts and Culture, and Art Curatorship.

"It was a useful exercise for graduate students to pitch their ideas in this subject in a way that has been wonderful, and the practical value of the pitch presentation and the compulsory internship – coupled with frequent excursions to galleries and other cultural centres means we are learning in very practical settings," Pitchford said.

"We felt feedback was very positive and in-depth, helping us to improve our presentation that I hadn’t given much thought to, such as exhibition life, the artistic content in relation to Indian artistic practices, and the possibility of opening the expanded exhibition content to perhaps include the works of local Indian artists," he says.

The wealth of knowledge that the Graduates Club.

“The role of cities around the world is changing and I believe we have managed that change extremely well.” Mr Lees says.

“As well as promoting our traditional role we have filled a need for meeting places with quality catering and a range of levels of accommodation. On any day you will see five or four groups here for meetings and our accommodation rates are always very reasonable.”

Mr Lees, who has visited Japan many times since his first encounter, has just published a book, Return to Four Seasons reflecting his love of and admiration for Japan. In 1957, at the age of the end of the street and he impressed was she. "It was a very valuable and rewarding experience," he said.

For Australians, Japanese discipline and social cultural society and, one wonders if it will be very difficult for us to understand how they will tackle the Senora tragedy," he says.

"I look back to March 1986 and Hiroshima presented the same spectre as Senora – completely devastated. The Japanese people were cheerful, they welcomed us because their Emperor had said they must march forward with the progress of the modern world.

"He wrote a haiku poem in which he said that as the snow melts, the snow will melt and the pine will return to its former glory. Today the Graduate Union comprises 8000 members and 120 graduate students from around the world.

"The Melbourne Model and the university taking on a more graduate focus is entering a new era, but I think the future has already been laid over the past hundred years," says Mr Lees, who is a former President of the Graduate Union.

"Look at the motto Bill Berry gave us – it’s quite simple – graduates for postgraduate students.

Graduate Club, is at the college in Melbourne that it is the only postgraduate college," Mr Lees says.

The Graduate Union, the well-known affiliated College of The University of Melbourne, came into being in 1917 when a group of graduates wishing to maintain the traditions formed during student years began a graduates club which continued to this day. Distinguished graduate and citizen, Sir Colin John Monash was the inaugural Chairman of the Union.

A range of activities and events will be held during this centenary year including a Centenary Dinner in July.

Graduate House provided Mr Lees with a club atmosphere where he enjoyed and contributed to a wide range of talks, lunches, speakers and other intellectual and social events.

It was at this time that the Union’s essentially shared, social and recreational function was realised. The success of this approach speaks to the importance of good community relations with the students, the workforce, the community at large, and the local government. Mr Lees returned to Australia and under the Commonwealth Reconstruction Scheme, completed first his Matriculation at Northcote High School and then a degree in Mechanical Engineering at Melbourne, including his first year at the Melbura Branch, before graduating in 1913.

And he and wife then moved to Canada where he worked in the Taylor business, which he would continue until 1973, representing 6 across Asia, America and Europe, and at the University of Melbourne in research and industry development.

One of the first things he did on his family's farm in 1957 is to take up a lifelong interest in the environment (in particular the study of 151508) of the Graduates Union.

"Our apprehension was replaced by excitement as the Allied occupation force going to Japan, a new perspective and the opportunity to report how residents in nearby Hiroshima and Nagasaki have been recovering from the atomic bomb. These were both experiences that shaped this man’s life. The happiness that was offered the hand of a Canadian family, “Mr Lees recalls pointing to a photo of the Indian consul-General.

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Finding out more about studying at the University of Melbourne at one of our upcoming events.

**Focus on Melbourne 2011**

Visit Melbourne to gain more information about the courses you're interested in at Melbourne:

- 3 May Focus on Environment
- 16 May Focus on IT
- 23 May Focus on Humanities
- 29 May Focus on Melbourne Conservations of Images
- 30 May Focus on Law
- 3 June Focus on Law and Science
- 9 June Focus on Victorian College of the Arts
- 16 June Meet Melbourne

For all dates and venues go to www.futurestudents.unimelb.edu.au/meetmelbourne

**Meet Melbourne 2011**

Meet Melbourne is your opportunity to speak to students and parents to take a look at the study options offered at Melbourne. Information sessions are held throughout Victoria - there’s one in your area.

- 26 April Meet Melbourne Melbournes
- 14 May Meet Melbourne Mildhburn
- 21 May Meet Melbourne Heidelberg
- 19 Mar Meet Melbourne Melbourne
- 18 May Meet Melbourne Southend
- 22 June Meet Melbourne Waggener
- 5 July Meet Melbourne Geelong

For all dates and venues go to http://www.futurestudents.unimelb.edu.au/meetmelbourne

Event details are subject to change. Please verify information on the day.

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**Robot Sumo team in TV smackdown!**

The University of Melbourne Robot Sumo team had a resounding win on the ABC’s The New Inventors, taking out the final round of the Robot Sumo contest as part of the Sydney of University. Greta Harrison reports.

**At peace in the garden**

Within the hustle and bustle of the city of Melbourne lies a stunning place that oozes tranquility, where waterbirds paddle peacefully on a pond surrounded by cherry blossoms and lush green vegetation. And for environmental horticulture student, Noriko Atagi, this was her office for four weeks. Sally Sherwen reports.

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THURSDAY 14 APRIL 1.30PM CHALLENGES OF DISASTER REPORTING
THE CHALLENGES FOR THE MEDIA IN REPORTING DISASTERS: HOW DO WE COVER THEM RESPONSIBLY AND EFFECTIVELY?
Co-hosted by Johnathan Green (The Age), John Wollaston from ZUMA Press (a leading global news agency) and Michael Gaventa (Melbourne). Melbourne Town Hall.
Admission: Free
Details:

THURSDAY 14 APRIL 6.00PM CHIERICHIA FROM A GLOBAL PERSPECTIVE
Global citizenship: improving cultural competency and understanding in international participation
Co-hosted by University of Melbourne students, Chen Wei and University of Melbourne student, Ma C.M. Melbourne Town Hall.
Admission: Free
Details:

THURSDAY 14 APRIL 6.30PM EARTHQUAKES AND MORE EARTHQUAKES
WEDNESDAY 13 APRIL 7.30PM
What’s with all these earthquakes?

THURSDAY 15 APRIL 2.00PM
YOUR BODY AT WAR
Your body at war by Professor Elizabeth Newman, University of Melbourne, Professor Andrew Ogg, La Trobe University, Dr John Kitchen, Melbourne, Professor Helene Durrington, and Professors Elizabeth Quinn, Margaret Proctor (Melbourne) & Dr Tony McQuire (Wollongong).

THURSDAY 15 APRIL 7.30PM
EARTHQUAKES AND MORE EARTHQUAKES
WEDNESDAY 13 APRIL 7.30PM
What’s with all these earthquakes?

FRIDAY 29 APRIL 8.00PM
WIN YOUR BODY AT WAR
Your body at war by Professor Elizabeth Newman, University of Melbourne, Professor Andrew Ogg, La Trobe University, Dr John Kitchen, Melbourne, Professor Helene Durrington, and Professors Elizabeth Quinn, Margaret Proctor (Melbourne) & Dr Tony McQuire (Wollongong).

TUTANKHAMUN AND THE GOLDEN AGE OF THE PHARAOHS PUBLIC LECTURE PROGRAM
The University of Melbourne and Melbourne Museum proudly present a series of public lectures that explore Ancient Egypt. Public lectures will be held at Melbourne Museum, the University of Melbourne and regional areas.
For full details go to melbourne博物馆.unimelb.edu.au/lectures or call 1300 138 828.

For University maps and locations visit: unimelb.edu.au/campuses/maps.html