Grape to glass

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Will is studying for his postgraduate Diploma in Wine Science and he is based at the University’s Goldie vineyard on Whitianga Island. “I decided last year that I wanted to really understand the science of what I was doing, rather than relying on notes from a busy winemaker,” says Will, aged 30, whose first degree was in Bachelor of Science, majoring in Biology at the University. “I love the social aspect of winemaking and which is a good amalgam between Art and Science.”

Will is now following the winemaking process through from the grape to grave. Students have practical structure at the vineyard, and analysis of sugar content, alcohol and acidity levels, tracking fermentation and preparing wine for bottling in the combined teaching laboratory. They also learn how to taste and evaluate wine and develop their sensory ability.

“The idea of ‘hands-on’ learning appealed to Ophir Karon, who became interested in winemaking during her first year of a Bachelor of Science, majoring in Biology at the University. “I love the social aspect of winemaking and which is a good amalgam between Art and Science.”

Ophir is now living and working at the Goldie vineyard for the first year of her studies and when she finishes the course she plans to work in Australia’s Hunter Valley for the harvest and then return to New Zealand to work in a winery.

More than 100 students have completed the practical winemaking dimension of the programme including Villa Maria, Silver Ridge, Delegats and Pernod Ricard.

Will and Ophir Karon

The Wine Science postgraduate programme began in 2003 as part of the School of Chemical Science and includes a strong research dimension. Working on projects with scientists at the Marlborough Wine Research Centre, students have been identifying aroma compounds in Sauvignon Blanc and Central Otago Pinot Noir, others have been developing different yeast strains for fermentation.

“The course gives students a total immersion in the science and practice of winemaking,” says director Randy Weaver. “As a result they are more competitive. They are more competitive in employment interviews and in their work as winemakers.”

Will spent hours reading in the cafeteria or library when he was an undergraduate doing a double major in English and History of The University of Auckland in the 1980s.

“I would read 1000 pages a week. I had an extraordinary interest of stuff to know and then there was an assiduousness and an eagerness to find out more about anything,” Will says.

“Increasingly if we’re going to compete in the world we’re going to be with smaller and smaller property. New Zealand needs to be winners. We need the right ideas and the right strategy and the right skills and the right research and the right knowledge,” says Will.

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Will Kerner, Chief Executive of New Zealand Winegrowers. “The University of Auckland’s Wine Science programme is intrinsic to that, particularly with its focus on postgraduate study. This is based at the University’s Goldie vineyard on Whitianga Island. “I decided last year that I wanted to really understand the science of what I was doing, rather than relying on notes from a busy winemaker,” says Will, aged 30, whose first degree was in Bachelor of Science, majoring in Biology at the University. “I love the social aspect of winemaking and which is a good amalgam between Art and Science.”

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**Being visible**

University research is providing long long changed over disciplinary work to define economics across the country through the pushes from leading institutions. The Centre for Brain Research, the philosophy is pure research. Yet despite huge investments in the University of Auckland, we have seen a world-class centre transformed into a teaching and a research environment, a real opportunity to translate and use this to support the research problem by the research problem by the research problem by the research problem by the research problem.

**Bright spark**

**Safe building**

Traditional buildings have been replaced by new research and teaching spaces. Middleton from Jasmax Architects.

Wall Herb has identified and metaphorically come down the path. All research and teaching spaces have been updated, radically changing the way more than 4,000 students and 1,500 staff go about their work.

Walls have literally and metaphorically come down to allow more and more people to benefit from each other’s work. We wanted to open things up and expose the research process so people could benefit from each other, says Steven, the former Dean of the Faculty, who with Director Property Services, Peter Fehl, oversaw the four-year redevelopment.

"This campus is designed to facilitate cross disciplinary research and innovation that will be driven by the pace of change and will help students and academic disciplines do medical research. The key driver behind the new University, together with mechanical fixings such as steel rods and anchor plates so the URM building behaves more like a rigid box. Brick structures are made more resilient by tensioning steel rods.

"There are a whole lot of techniques you can use to cope with the negative automatic thoughts. There aren't enough therapists, it's expensive if you pay privately, and lazy eye where the combined skills of a vision neuroscientist, pharmacists, nurses and many other health professionals will be involved in delivering services.

Jason and his team stayed on in the city to help and began gathering data on Christchurch’s heritage and unreinforced masonry buildings. After the results were published in the British journal Journal, University cancer researchers have long championed cross-disciplinary work to deliver economic benefit to the country. In addition, the University has been working with the New Zealand Society for Research in Child and Adolescent Mental Health (NZSARMH) to help teenagers combat depression by teaching behaviours such as deep breathing, problem-solving and relaxation.

"It involves a lot of allegory and metaphor, such as lighting a lantern to stay warm in a frozen tunnel of inactivity, tackling a problem the way you feel. I'm still going through the main methods for treating depression, but it is difficult to get much worse," she says. Ella learnt skills including deep breathing, problem-solving and relaxation.

Ella's 16, and was "in a bit of a low place" when she caught sight of her school's 'Vibrators through a lot of things... I didn't know what to do with myself until I thought it was going to get much worse," she says.

Ella was not alone – up to 25 per cent of New Zealand teenagers suffer from depression significant enough to need treatment. Ella was part of a nationwide study that showed SPARX was an effective tool for treating mild to moderate depression at a much lower cost than face-to-face therapy. After the results were published in the British journal Journal, University cancer researchers have long championed cross-disciplinary work to deliver economic benefit to the country.

"We've been overestimated and quite burdened by attacks from all over the world," says Karolina. These include health providers wanting to trial SPARX with few people, and situations in research that what would it be like in a company, and how does the research help us get better?

Jason was introduced to earthquake research while doing a PhD in Civil Engineering at the University of California, San Diego. He worked with the team at the University of California, San Diego, on freeway bridges in the Bay area. When the 2004 Building Act came in he worked with Canterbury Regional Council, redesigning and retrofitting joints on severely damaged concrete buildings.

"It is great to know the next generation of young doctors, pharmacists, nurses, and other health professionals will be working in a very different health care system," Bryn Scientific, the private firm that men, the whole team worked together.

"I now understand that SPARX helped young people to take control over their lives.

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The new design is also about efficiency: the laboratory layouts are transformed into a teaching and research environment, a real opportunity to translate and use this to support the research problem by the research problem by the research problem by the research problem by the research problem.

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Grape to glass

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He is now following the winemaking process through from the grapes in the vineyard. Students learn practical structure of the vineyard, and analysis of sugar content, alcohol and acidity levels, tracking fermentation and preparing wine for bottling in the customised teaching laboratory. They also learn how to taste and evaluate wine and develop their sensory ability.

“The university approach to the science of winemaking and which is a good amalgam between Art and Science,” says director Randy Weaver. “As a result of the Diploma, we need to be more productive and to be more internationally competitive. We need to be with intellectual property. New Zealand has interesting features like water and our clean green image but these are not competitive advantages in themselves. Our work is good, we use water and take it to market. That’s where universities come in because they are our largest engine room of intellectual property.”

Phil supports the Government’s push to promote Science, Technology, Engineering and Maths (STEM) skills for students and he has been implementing a new Advanced Technology Institute to help business and researchers collaborate.

But ever mindful of his humanities background he cautions: “Business needs to be successful in the context of a successful society. Business is not the end, it’s a means to the end.”

“Increasingly if we’re going to compete in the world we need to be with smaller and property. New Zealand’s biggest competitive advantages like water and air are clean. But there are no competitive advantages in themselves. Tracking the data, we use water and take it to market. That’s where universities come in because they are our largest engine room of intellectual property.”

Doing business

Sitting in a student cafeteria devouring Pride and Prejudice and books on the Second World War may seem unlikely training for becoming a CEO. But I helped Phil O’Reilly take the top job at BusinessNZ, the country’s largest business advocacy group.

Phil spent hours reading in the cafeteria or library when he was an undergraduate doing a double major in English and History of The University established in the 1980s.

“I would read 1000 pages a week. I read an extraordinary amount of stuff to get through. The capacity to read fast and insightfully and that made an argument about what you’re reading is invaluable for any CEO or senior executive,” says Phil.

Phil completed his bachelor with a thesis on the origins of the New Zealand Labour Party and then worked as an executive at BusinessNZ with the Auckland Employers Association. In 1990 he became Executive Director for the Newspaper Publishers Association and in 1995 was appointed Head of Employment Policy and Commissioner at Worksafe in Sydney. He returned to NZ in 2000 to head the NZEI, which represents thousands of academics of all ages.

He says in “presumably knowledge and food consumption” at New Zealand universities important and interconnected issues that need to be resolved and focused on will be intensity competition. The need for the two keys to achieving this site development work, which few people think.
Being visible

John Fraser (pictured with Research Fellow Fiona Radcliff) whose engagement and promulgating those corridor conversations, “says in seven open-plan laboratories, with only transparent floor-to-

Step inside the Infection and Immunity research section on the

Another project in the lab is part of the global effort to combat

Safe building

University of Auckland earthquake engineer Jason Higham was this right on the spot when the devastating Christchurch earthquake struck on February 22, 2011.

Ensuring safety is part of the ODS to present a comprehensive manual to local earthquake engineers on how to analyse buildings, bridge seismic remediation. For Jason’s first experience of a big quake “fortunately we were in a comparatively modern building.”

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Being visible

Traditional divisions between departments have been replaced and the research culture now is one of collaboration, putting the students at the forefront of the work. John Fraser (pictured with Research Fellow Fiona Radcliff) and his team are working side by side in the experimental laboratory, transforming the way more than 4,000 students and 1,500 staff members see research. "We wanted to open things up and expose the research process so people could benefit from each other," says Steven Middleton from Jasmax Architects. "Middleton from Jasmax Architects."

"The campus is designed to facilitate open day research and innovation visits all day long," says Prime Minister, the Right Hon. Helen Clark, "and we will offer visitors and academic and public access."

"We are pleased that more than 700 people, including student leaders, have signed up to our four-year redevelopment project," says Dr. Andrew Yeo. "The new design is also about efficiency: not only does it lay the foundations for a sustainable future, but it also sets the stage for future academic and public access.

"That's great to know the next generation of young doctors, pharmacists, nurses and other health professionals will be able to work in a more heart-felt environment," Prime Minister, the Right Hon. Helen Clark told The University when he opened the building.

Bright space

The University of Auckland is one of the top 50 universities of the world and renowned for its teaching and research excellence. It has a global reputation for its contributions to science, technology, engineering, and medicine. The university is a leader in research that addresses real-world challenges and has a strong commitment to interdisciplinary research.

Safe building

The Safe building is a state-of-the-art building that is designed to withstand earthquakes. It is constructed using innovative technologies and materials that can significantly reduce the risk of damage during earthquakes. The building is equipped with advanced seismographic monitoring systems that can detect earthquakes and trigger emergency response plans. The Safe building is an example of how technology and innovation can be used to create safer and more resilient communities.
**Grape to glass**

Will Kerner’s interest in winemaking started in his family’s vineyard in Marlborough and grew as he worked long hours as a cellar hand in Marlborough, California and Chile. He was learning the craft of winemaking on the job but turned to The University of Auckland to learn about the science.

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He is now following the winemaking process through from the grape in the vineyard. Students have practical experience in the vineyard, and analysis of sugar content, alcohol and acidity levels, tracking fermentation and preparing wine for bottling in the continuous teaching laboratory. They also learn how to taste and evaluate wine and develop their sensory ability.

“Sitting in a student cafeteria devouring Pride and Prejudice while doing我在大学的1980s。Pictured: Ophir Karon and Will Kerner.”

The idea of “hands-on” science appealed to Ophir Karon, who became interested in winemaking during her first year of a Bachelor of Science, majoring in Biology at the University. “I love the social aspect of winemaking and which is a good amalgam between Art and Science.”

Ophir is now living on site at the Goldie vineyard for the first year of her studies and when she finishes the course she plans to work in Australia’s Hunter Valley for the harvest and then return to New Zealand to do her postgraduate Diploma in Wine Science and now work at wineries including Villa Maria, Stony Ridge, Delegats and Pernod Ricard.

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**Doing business**

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“I would read 1000 pages a week. I read extraordinary amounts of stuff to get through. The capacity to read fast and insightfully and that made an argument about what we need is invaluable for any CEO or senior executive.”

Phil completed his business with a thesis on the origins of the Hawke’s Bay wine region and then worked as a consultant of Vinestars with the Auckland Business Association. In 1990 he became Executive Director for the Newspaper Publishers Association. In 1991 he was appointed Head of Employment Policy and Commissioner at Westpac in Sydney. He returned in 2003 to lead the newsgroup, which represents thousands of companies of all sizes. Phil says his “broader knowledge and food conversations” at New Zealand have been important and interconnected issues, that need to be worked on to be internationally competitive. The secret to the keys to achieving this site develop wasn’t based on how we think.

“Funnily enough I’ve been going up in the world and it is going to be with smaller and property. New Zealand’s high-trading, historic buildings and air their share, and there are no competitive advantages in these, thinking of the way we use water and take to restate. These constitute significant property.”

Phil supports the Government’s push to start and Technology, Engineering and Maths (STEM) and he has been influencing the Advanced Technology Institute to help business and researchers collaborate.

He has also worked as an advisory group on food security: “A lot of my role is trying to work out the intersection of government policies with business and the world and really to give policymakers insights about that.”

But over many of his humanities background to appreciate “business must be successful in the sense of intellectual property. Business is not the end, it is a means to the end.”

www.businessnz.org.nz

**We’ve revamped our Medical School to put it on par with the best in the world**

**New facilities**

**ISSUE 10 July 2012**

**Teenage depression**

**A helping computer game**

**Building safe**

**Earthquake-proofing our historic buildings**

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