

UWA

The University of Western Australia

西澳大学



THE UNIVERSITY OF
WESTERN AUSTRALIA

Presentation by

演讲人

Dr. Kamy Cheng

程金郁 博士

Associate Dean, International

副院长、国际合作部

Faculty of Engineering, Computing & Mathematics

工程、计算机与数学学院



THE UNIVERSITY OF
WESTERN AUSTRALIA

西澳大学

Western Australia's oldest University

Established 1911

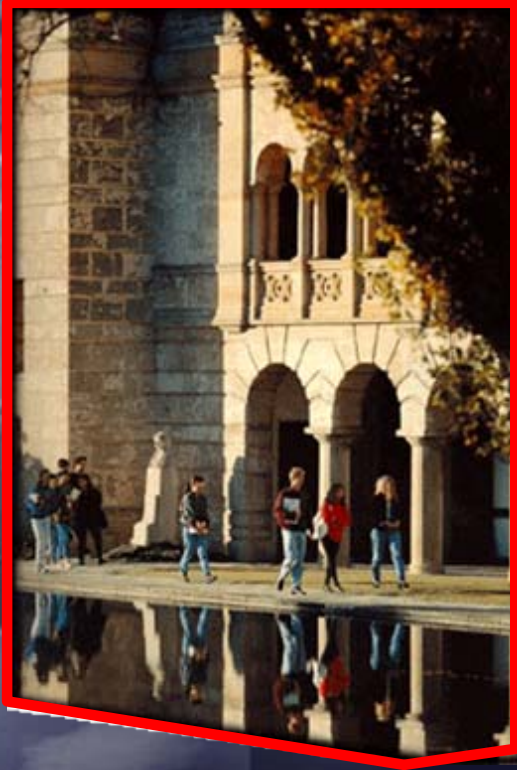


THE UNIVERSITY OF
WESTERN AUSTRALIA

西澳最古老的大学始建于**1911**年

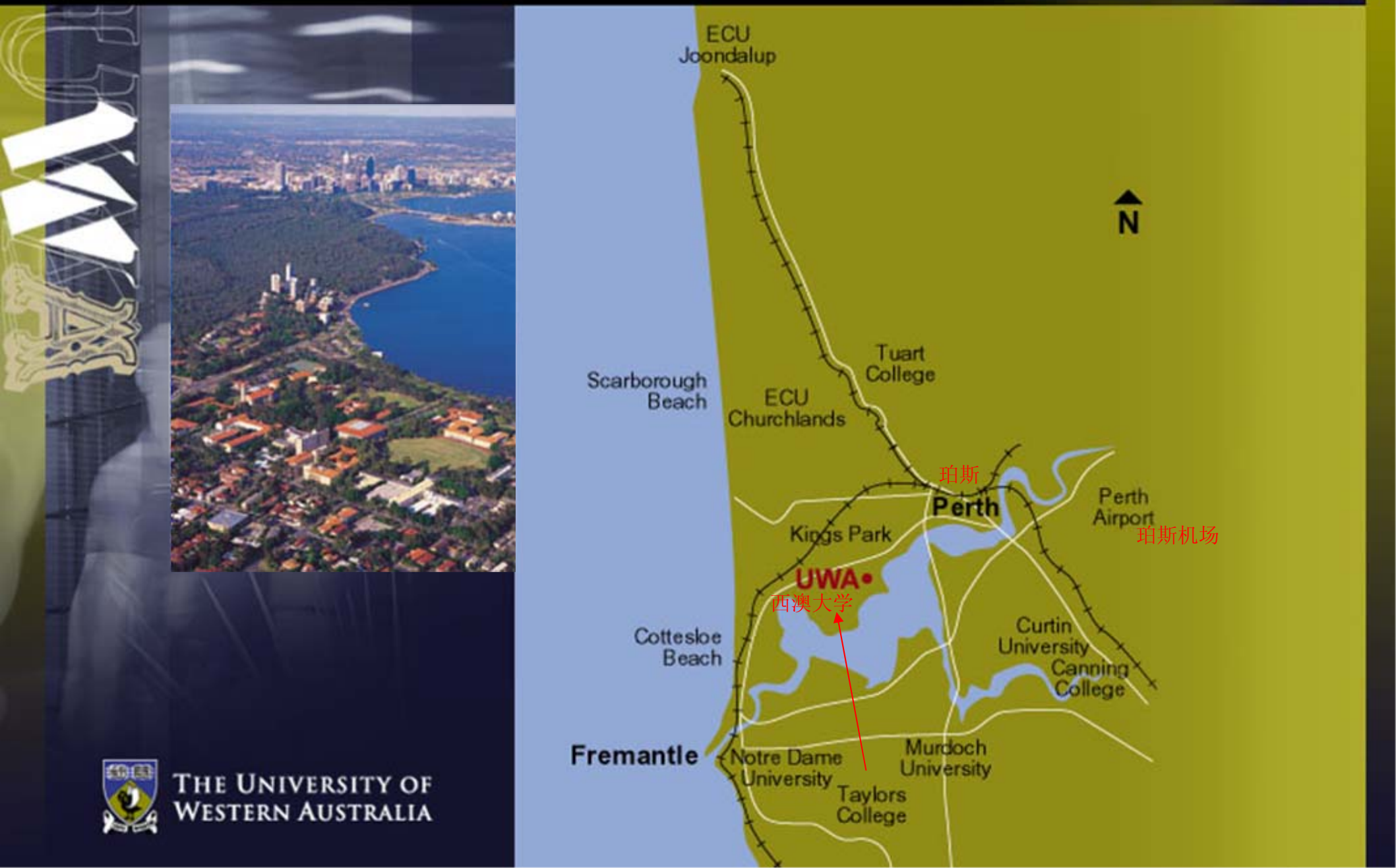
Western Australia's oldest University

Established 1911



THE UNIVERSITY OF
WESTERN AUSTRALIA

西澳最古老的大学始建于**1911**年



THE UNIVERSITY OF
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examples of resources in Australia

澳洲资源分布简例

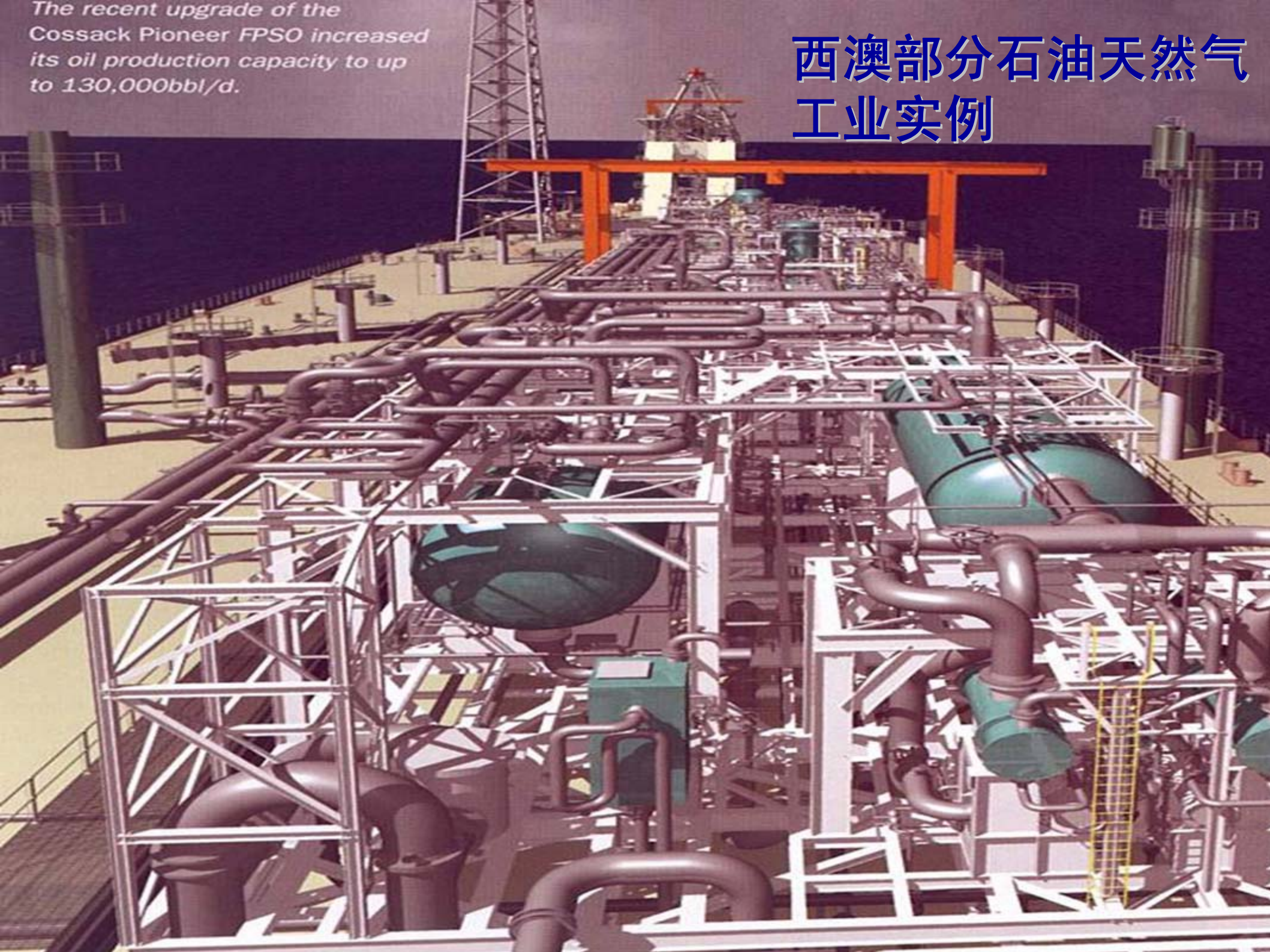


矿砂
(钛, 镍, 矽 等)



The recent upgrade of the
Cossack Pioneer FPSO increased
its oil production capacity to up
to 130,000bbl/d.

西澳部分石油天然气 工业实例

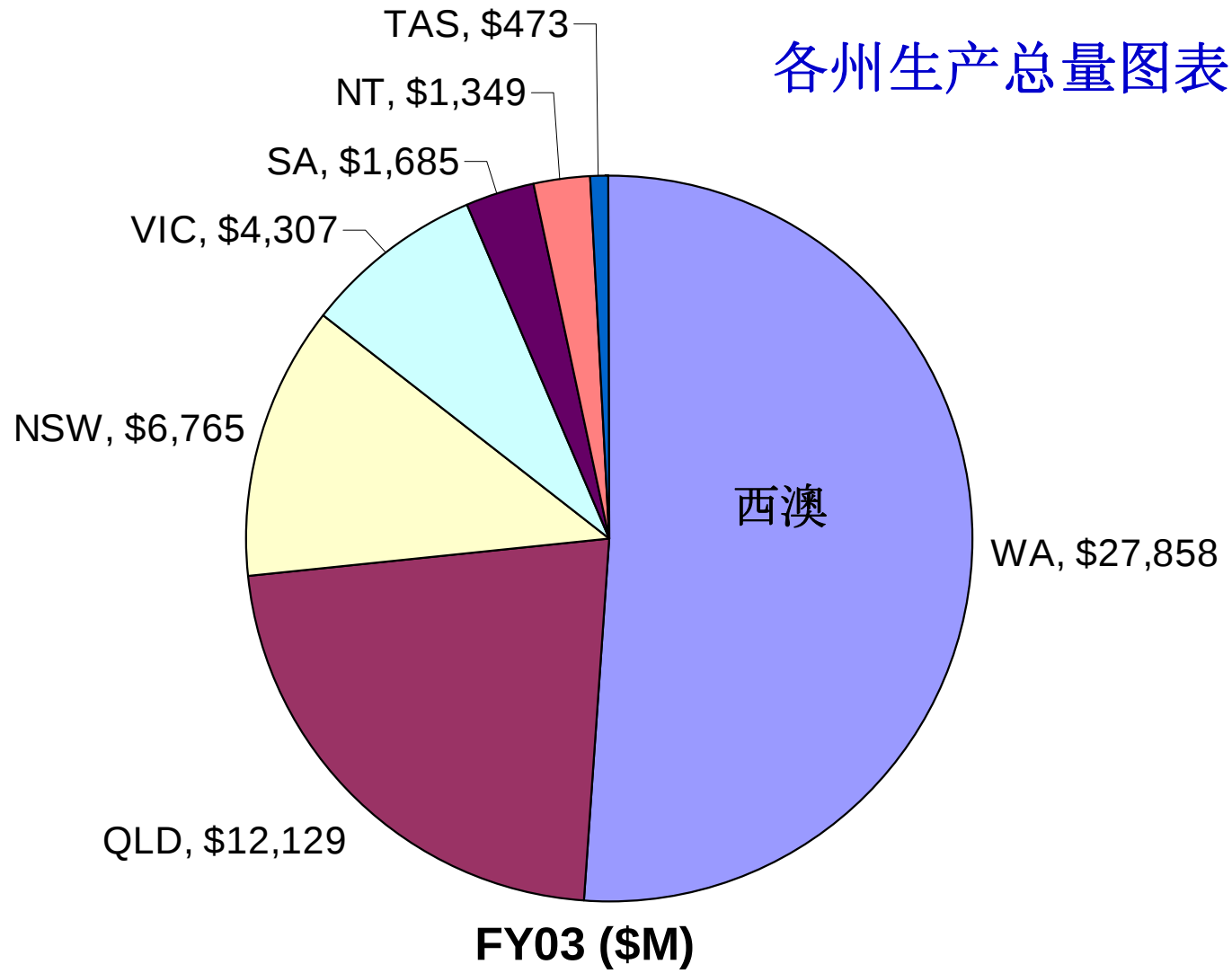


WA is rich in mineral resources
西澳具有丰富的矿物资源



Australian Mining Industry Breakdown by State – Total Production

澳大利亚采矿工业



Faculties

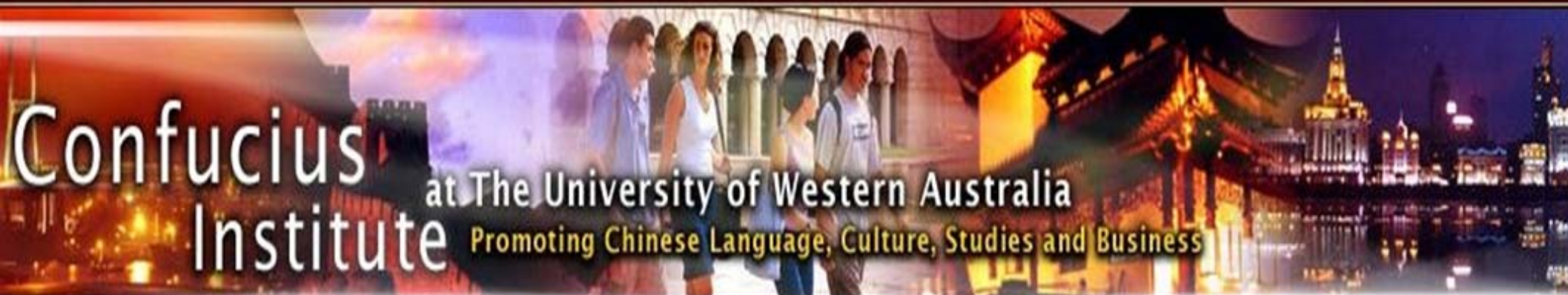
学院设置

- Architecture, Landscape and Visual Arts
建筑设计、风景园林与视觉艺术学学院
- Arts, Humanities & Social Sciences 艺术、人文与社会科学学院
- Business School 商业学院
- Education 教育学院
- Engineering, Computing & Mathematics
工程、计算机与数学学院
- Law School 法学院
- Life and Physical Sciences 生命与物理科学学院
- Medicine and Dentistry 医学与牙科学院
- Natural and Agricultural Sciences 自然科学与农学院



THE UNIVERSITY OF
WESTERN AUSTRALIA

UWA - 18000 Students (西澳大学学生)



www.confuciusinstitute.uwa.edu.au

Opened in May, 2005

创立于2005年五月

First Confucius Institute in Australia - joint venture between the National Office of Chinese as a Foreign Language (NOCFL) Beijing, and UWA

澳大利亚第一所孔子学院—与中国北京国家对外汉语教学办公室(简称汉办)合办.

Strengthen the understanding, opportunities and bonds between individuals, enterprises, communities and institutions, and the People's Republic of China

旨在创造机遇, 加强对中国 个人、企业、社区及机构团体的理解及紧密联系.

Five of the last six Australian Ambassadors to China have been UWA graduates
前六任澳大利亚大使中的五位毕业于西澳大学



THE UNIVERSITY OF
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信誉来自质量保证

Reputation for quality

- UWA is the only WA institution to belong to the prestigious 'Group of Eight'

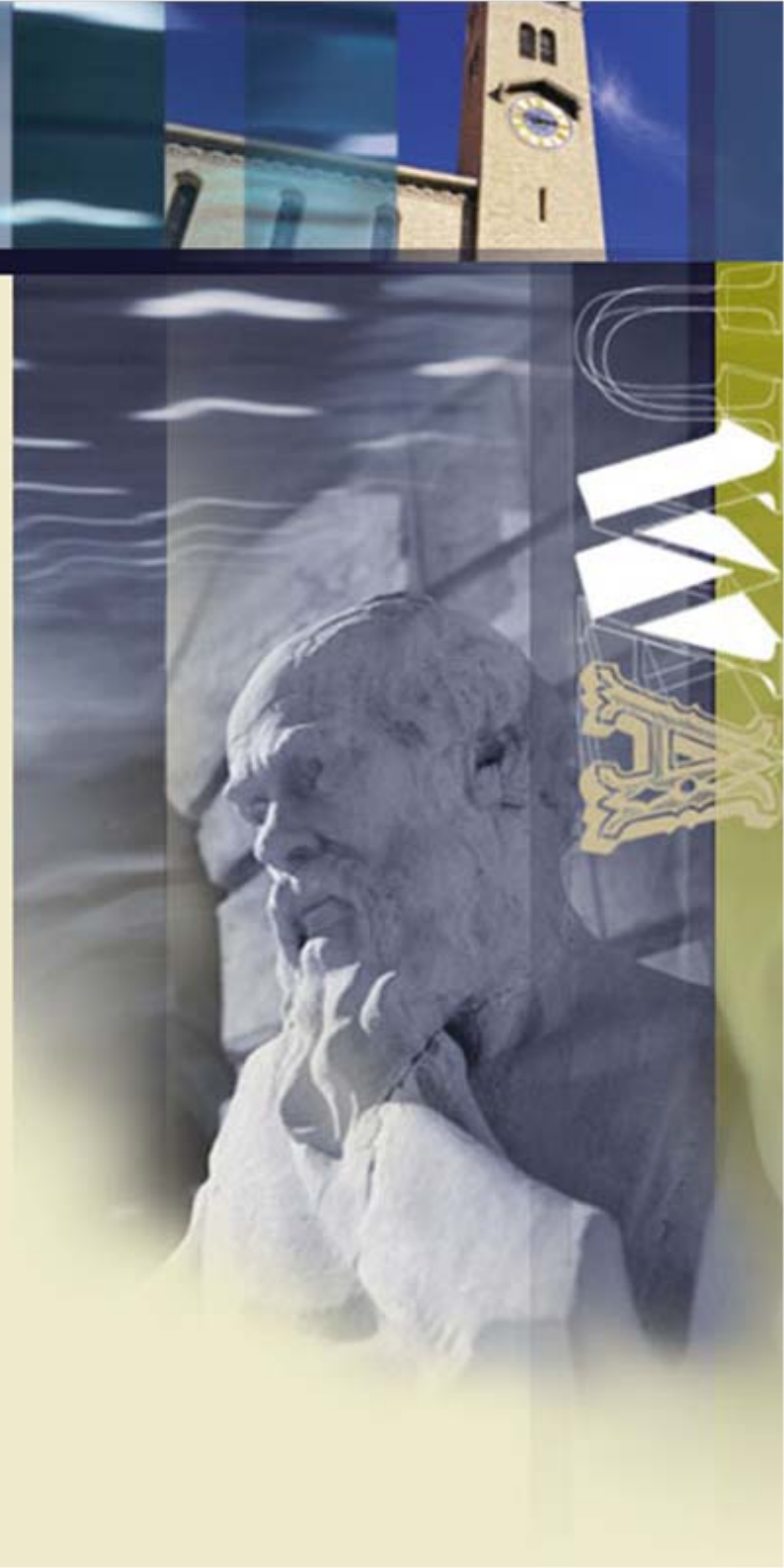
- 西澳大学是西澳大利亚唯一被列入

“八大重点名校”的大学（澳洲顶级研究型大学的联盟机构）。

- It consistently achieves 5-star ratings in the Good Universities Guide
- 《名校指南》中一贯被评估为五星级大学。



THE UNIVERSITY OF
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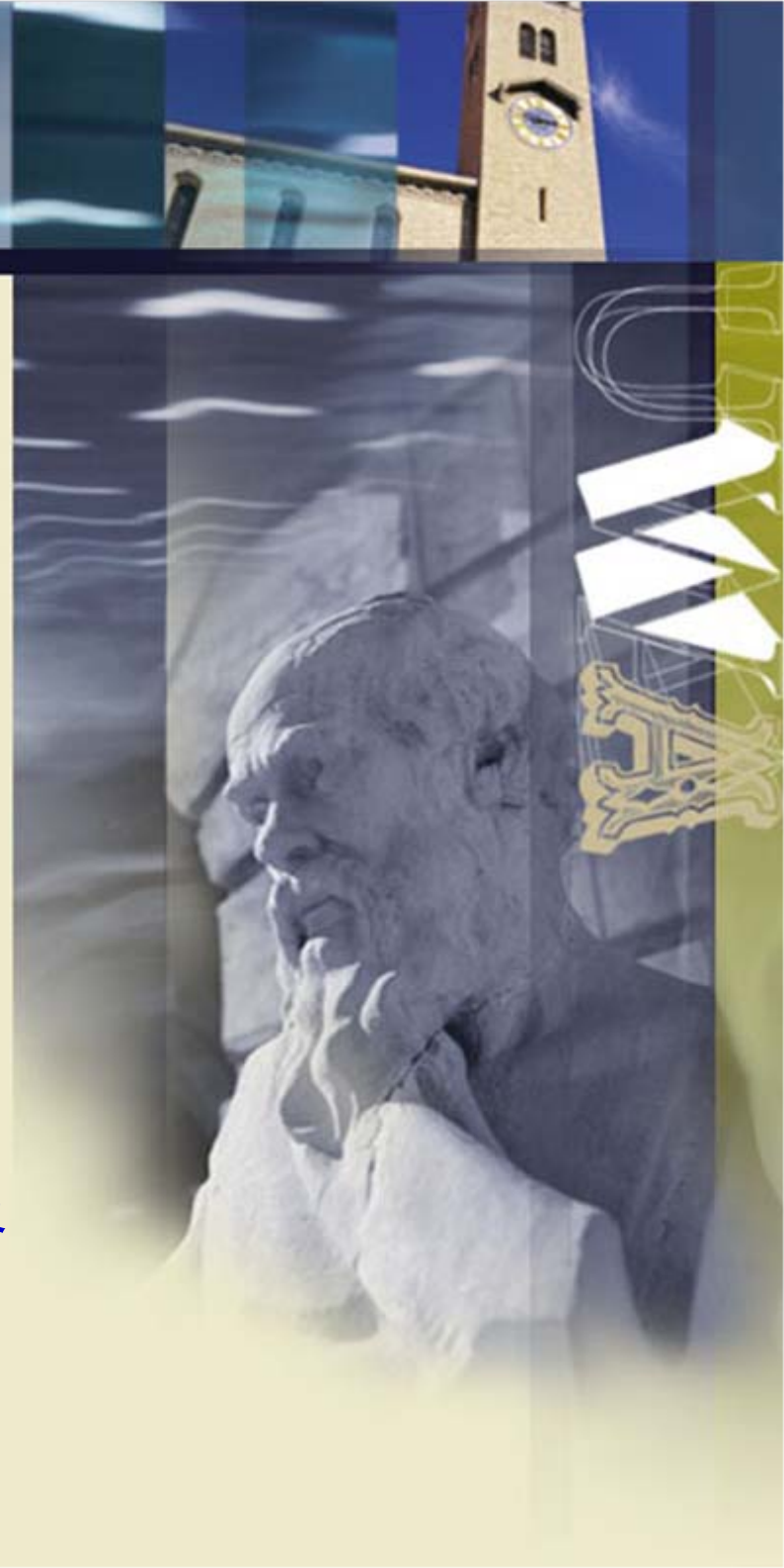
信誉来自质量保证

Reputation for quality

- Our graduates are best at gaining full-time employment in comparison to other WA universities
- 相比于其他西澳大利亚大学, 我校毕业生获得最佳全职工作机会.
- UWA has strong industry links in both the government and private sectors, eg Motorola, Alcoa, BHP, Chevron
- 西澳大学和政府及私人企业之间都存在着强大的合作关系
例如: 摩托罗拉、ALCOA(美国铝公司)、BHP及Chevron等.



THE UNIVERSITY OF
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获奖职员及学生们

Award Winning Staff and Students

Two Australians win Nobel Prize in medicine

Barry J. Marshall, Robin Warren awarded for work on peptic ulcer disease

巴里.马歇尔, 罗宾.沃润为他们的胃溃疡病研究而获奖

西澳大学教授荣获 诺贝尔医学奖

诺贝尔医学奖获得者,罗宾.沃润 (左)
和 巴里.马歇尔庆祝他们的成功.

他们的研究小组发现了导致胃炎及胃溃疡的传染病菌, 将造福于被病痛折磨的人们.

Nobel Prize for Medicine recipients, Australians Robin Warren, left, and Barry Marshall, toast their success. The team discovered the bacterium behind stomach inflammation and ulcers, diseases that affect millions of people.



William Edwards / Reuters



THE UNIVERSITY OF
WESTERN AUSTRALIA

获奖职员及学生们

Award Winning Students and Staff

Careers celebrated



Professor Laurie Faraone from the School of Electrical, Electronic and Computer Engineering has been elected to the Australian Academy of Science.

This follows closely his election to the Australian Academy of Technological Sciences and Engineering less than two years ago.

His contributions to science and engineering include his work on semiconductors, infra-red technology, micro-electro-mechanical systems and nanotechnology.

His development of the Quantitative Mobility Spectrum Analysis technique and tuneable infra-red detectors has revolutionised sensor technology.

Professor Laurie Faraone

Australian Academy of Science

澳大利亚科学院 院士



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Award Winning Students and Staff



2008 年世界冠军

UWA engineering students produced best designed FSAE car in the world since 2004. **World Champion in 2008**



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自2004年西澳大学 工程 学生制造的赛车连续荣获世界FSAE赛车活动最佳设计奖



获奖职员及学生们

Award Winning Students and Staff



WA Institute of Information Technology and Communications Award

西澳信息与通信技术工程协会 获奖



THE UNIVERSITY OF
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获奖职员及学生们

Award Winning Students and Staff



Award fits the dream

by Lindy Brophy



Darren Lomman set out to make a dream come true for a paraplegic friend.

That project, his Honours project for his engineering degree, developed into a business and more than that, a person, which has won the young engineer the title of WA Young Person of the Year.

The State Government award was for his work in designing and building a modified motor cycle that could be ridden by his paraplegic friend. That venture developed into Darren's company, Dreamz, which specialises in modifying recreation equipment for use by people with disabilities.

His hand-controlled motor bike is the first of its kind to be engineered for road use and Darren is now working along with first year engineering students, on a homework and a ski boat, also for people with disabilities.

He has set up a sports association for people with disabilities and is involved in many sports including sailing and surfing.

Along the way his workshop in his back shed has moved to commercial premises, he was a finalist in the Newcastle Big Break competition last year and was named (national) Young Biomedical Engineer of the Year for 2005.

He recently represented Western Australia's Young Business Network at a workshop with Richard Branson in Sydney.

"The best advice he had was to do what you love and you'll never work a day in your life," said Darren, who completed his mechanical engineering degree last year.

Darren encourages engineering and commerce student Abdul Khushnidan to consider sailing, sailing or horse-riding.

His dedication to making life more fun for people with disabilities is paying off. His prize for the Australian Biomedical Engineering Conference was \$1000 to attend a conference anywhere in the world to present his winning paper, *Motorcycling Freedom: A Paraplegic's Dream*. The Young Person of the Year prize is \$1000 and a flight for two anywhere in Europe.

He says he has many people at the University to thank for giving him where he is today, including the Faculty of Engineering (through the Dean Professor Mark Badi), the School of Mechanical Engineering (through Associate Professor Ross Kirk), the Vice-Chancellor, Professor Alan Rokusek, the Office of Industry and Innovation (Andrew Bennett) and the UWA Business School, which sponsored his trip to meet Richard Branson.

He is co-supervising first year mechanical engineering students along with his former Honours supervisor, Al Professor Kirk, in the Accessible Ski Boat and Accessible Homework Projects.

And, just after returning from Sydney and moving to his new premises, Darren's first commercial customer came through the door.

"She is a woman who has no use of her right leg and wants me to modify her car for her," he said. "I know what I do, but it will be great to get paid for it as well."

Darren Lomman, WA Young Biomedical Engineer of the Year 2005

西澳 2005年生物医学工程 优秀青年奖



THE UNIVERSITY OF
WESTERN AUSTRALIA

Faculty of Engineering, 工程、计算机与数学学院 Computing and Mathematics

6 Schools - 六个分系:

Mathematics and Statistics 数学与统计学系

Civil and Resource Engineering 土木与资源工程系

Mechanical Engineering 机械工程系

Environmental Systems Engineering 环境系统工程

Electrical, Electronic and Computer Engineering 电气电子与计算机工程系

Computer Science and Software Engineering 计算机科学与软件工程系

Approx. 2500 undergraduate students overall in the Faculty

全部本科生大约**2500**



Graduate Courses 研究生课程

Master of Oil and Gas Engineering

➤石油天然气工程硕士

Master of Computer Science

➤计算机科学硕士

Master of Engineering

➤工程硕士:

- Information and Communications Technology
- 信息与通信技术工程
- Power Systems
- 电力系统工程
- Microelectronics
- 微电子学工程

Master of Civil Engineering

➤土木工程硕士

Master of Financial Mathematics

➤金融数学硕士

Master of Engineering Asset Management

➤工程资产管理硕士



THE UNIVERSITY OF
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FACULTY OF
Engineering, Computing
and Mathematics

Graduate Courses 研究生课程

Doctor of Engineering in Information and Communications Technology

➤信息与通信技术博士

Master of Engineering Science (research)

➤工程科学硕士（研究论文）

PhD (research)

➤工程博士（研究论文）



Research Centres :

研究中心:

Centre for Offshore Foundation Systems 离岸结构基础研究中心

Centre for Integrated Engineering Asset Management

工程资产综合管理中心

Australian Centre for Geomechanics 澳大利亚地质力学中心

Western Australian Telecommunications Research Institute

西澳电信研究协会

Centre for Petroleum & Energy 石化与能源研究中心

+ Others 还有许多大学本身及对外合作的研究中心



Western Australian Energy Research Alliance (WA ERA)



THE UNIVERSITY OF
WESTERN AUSTRALIA



Mission: A world class Energy Technology Centre acknowledged for the provision of premium-quality research, development and education services and the delivery of technology-based solutions to the global energy, particularly oil and gas industries.

西澳能源研究联盟

(WA ERA)



THE UNIVERSITY OF
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CSIRO



curtin

使命: 被公认为世界级能源科技中心,提供最优良的研究、 开发和教育服务, 以及对全球能源特别是石油天然气工业方面以科学技术为本的解决措施.

Breadth and Excellence of Research

渊博及卓越的研究

Aquatic Ecology and Ecosystems

水生态学与生态系统学

Coastal and Biological Oceanography

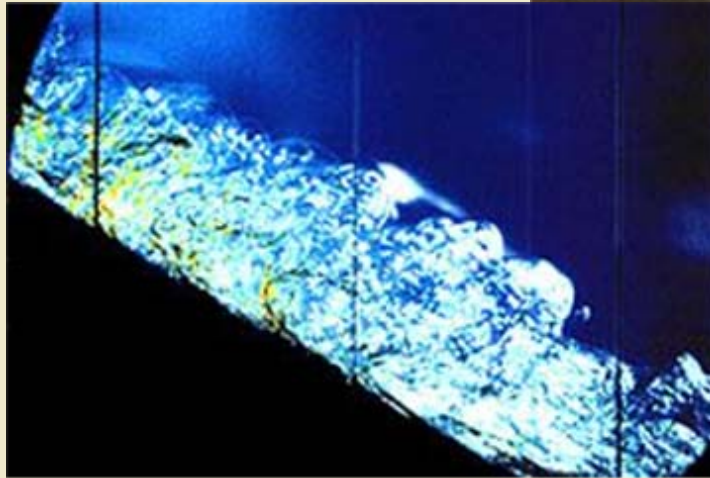
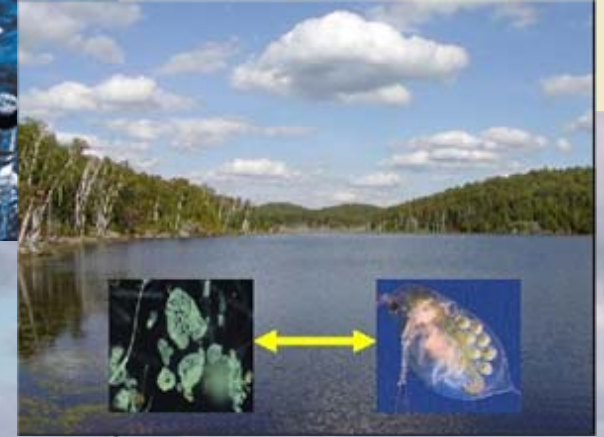
海岸及生物海洋学

Geophysical Fluid Dynamics

地球物理流体动力学

Hydrogeology

水文地质学



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Breadth and Excellence of Research

渊博及卓越的研究

Tribology 摩擦学

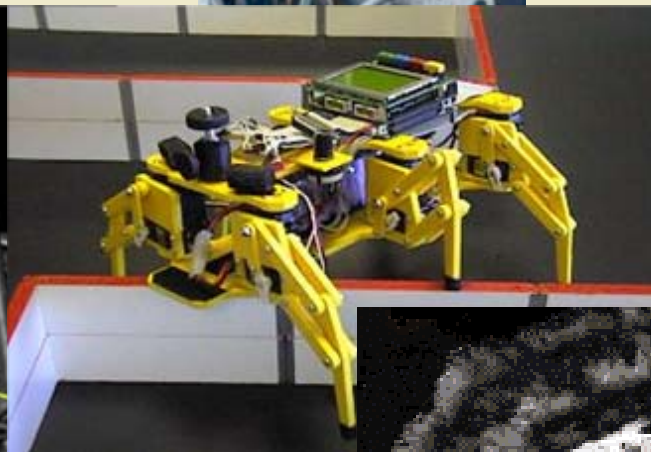
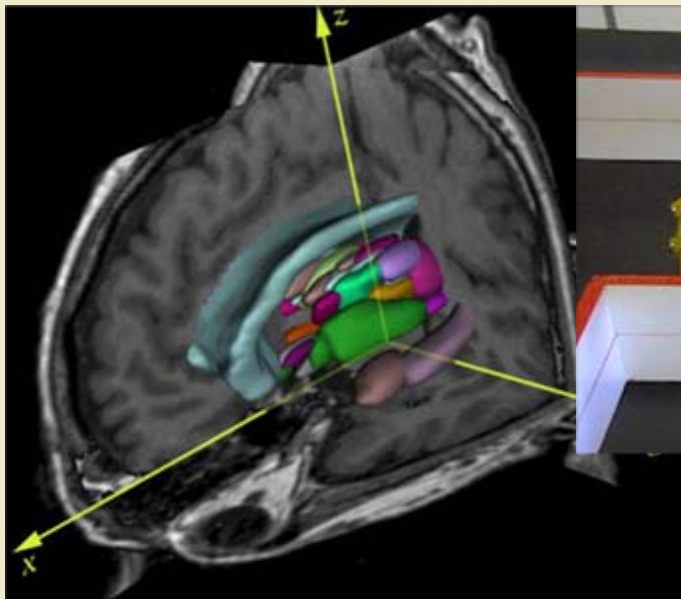
Acoustics, Dynamics and Vibration 声学、动力学与振动学

Robotics 机器人学

Biomedical Engineering

生物医学工程

Materials Engineering 材料工程



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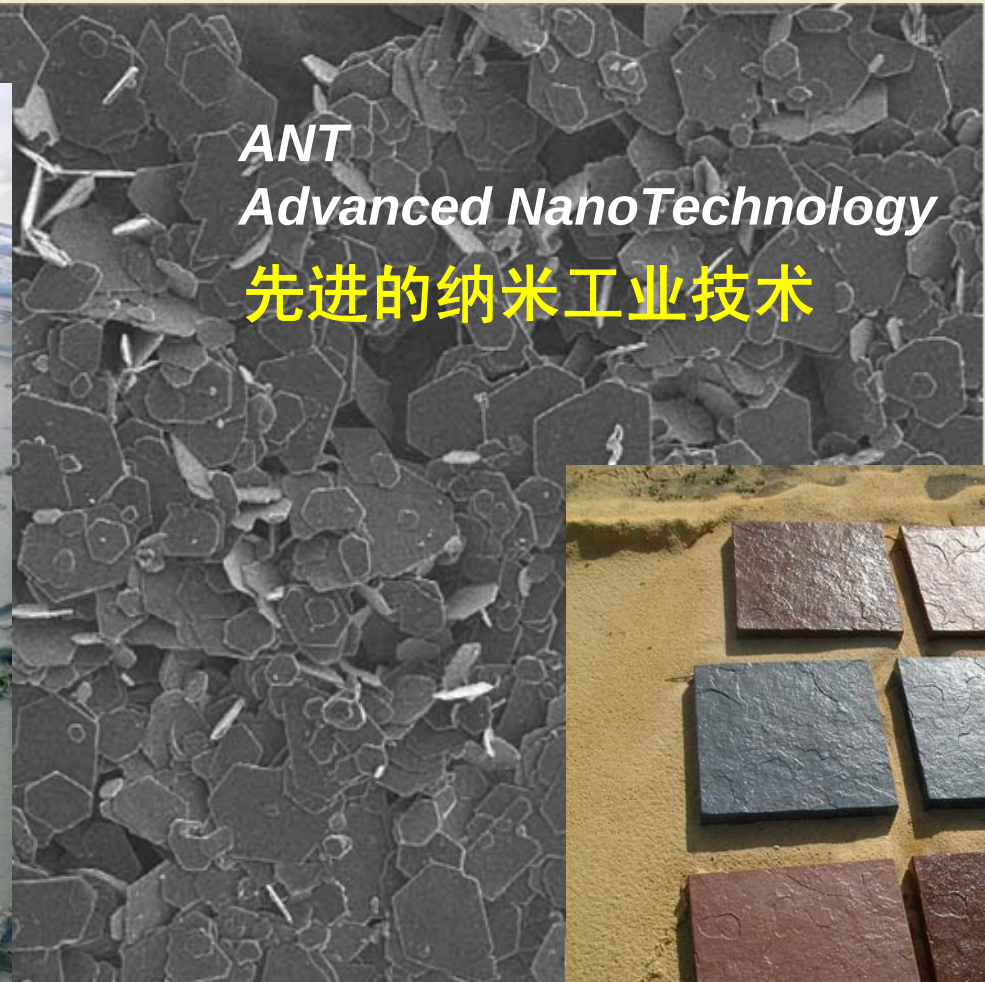
FACULTY OF
Engineering, Computing
and Mathematics

Breadth and Excellence of Research

渊博及卓越的研究

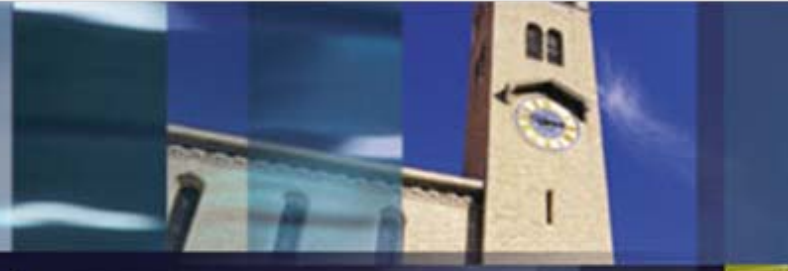


ANT
Advanced NanoTechnology
先进的纳米工业技术



Breadth and Excellence of Research

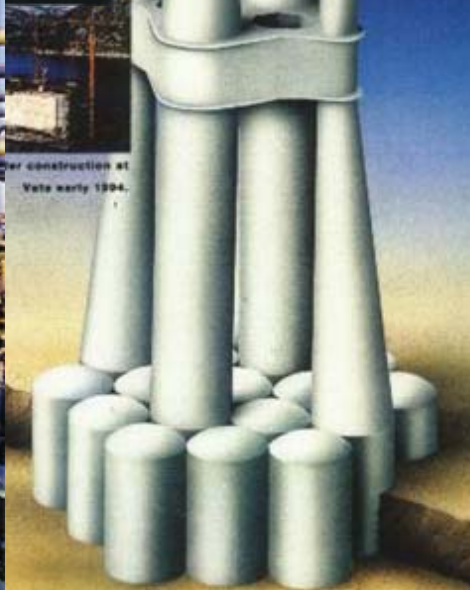
渊博及卓越的研究



Oil & Gas Engineering
石油天然气工程

Offshore Engineering
海洋石油工程

Offshore Foundations
离岸结构基础



Breadth and Excellence of Research

渊博及卓越的研究

Pure and Applied Maths

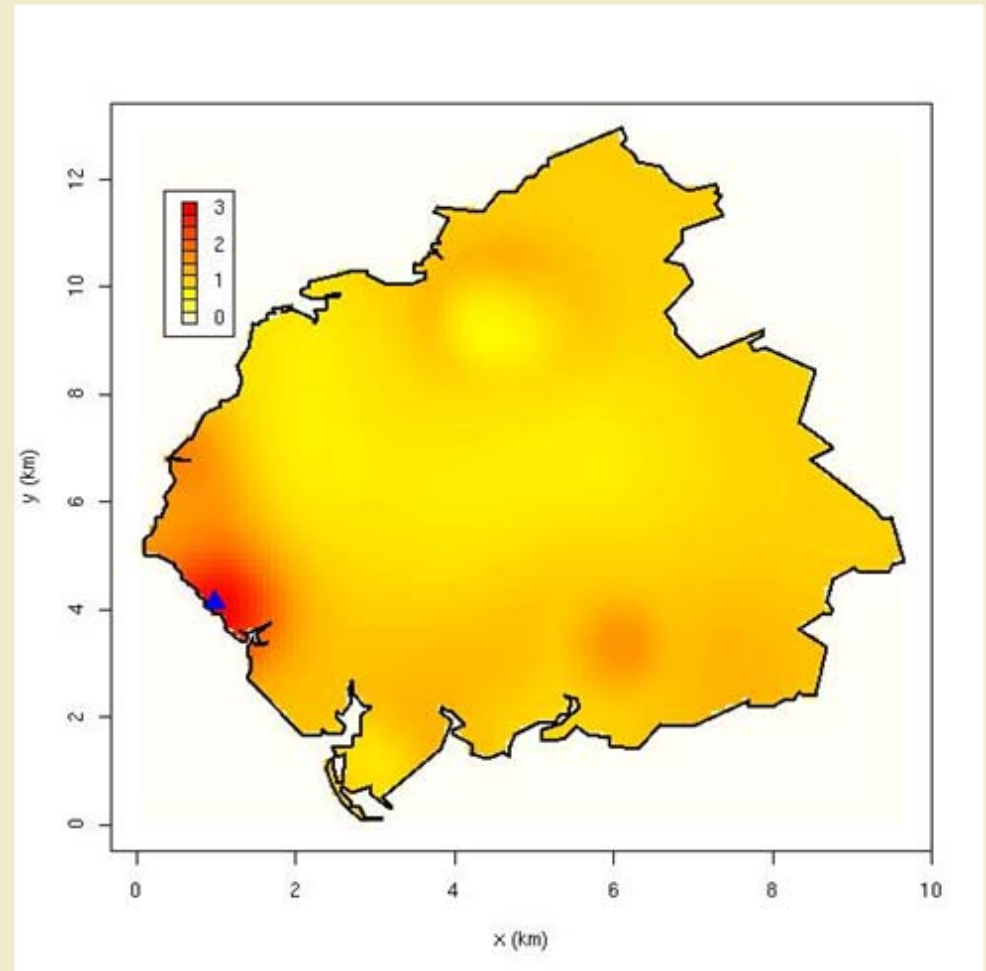
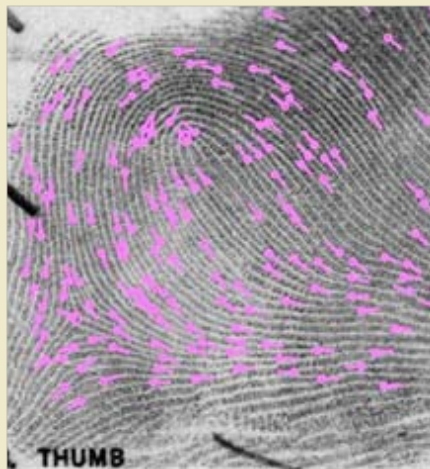
纯数学及应用数学

Applied Statistics

应用统计学

Computational methods

计算机法



Analysis of cancer risk near Sellafield
Nuclear power station



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Breadth and Excellence of Research

渊博及卓越的研究

Structural Engineering

结构工程

Geomechanics 地质力学

Hydromechanics 水力学

Mining Engineering

采矿工程



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渊博及卓越的研究

Computer vision and visualisation

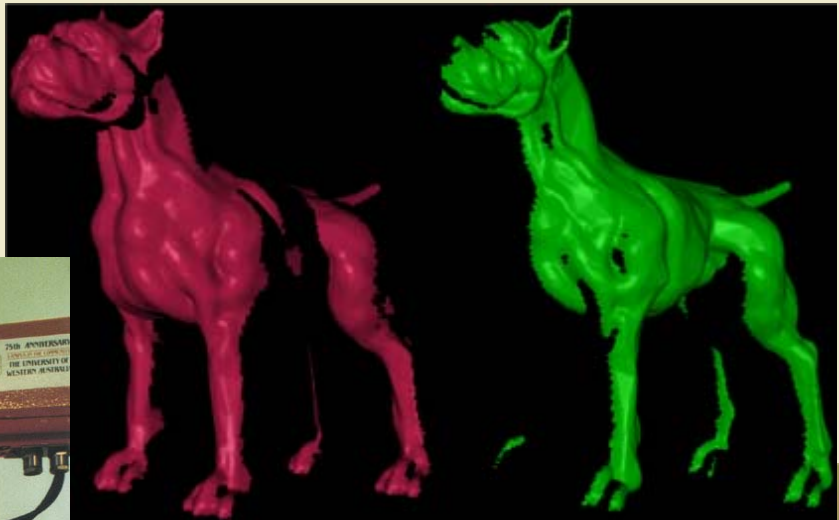
计算机影像及显像学

Mobile, ad-hoc sensor networks

移动、特定传感器网络

Adaptive systems

自适应系统



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Breadth and Excellence of Research

渊博及卓越的研究

Microelectronics 微电子学

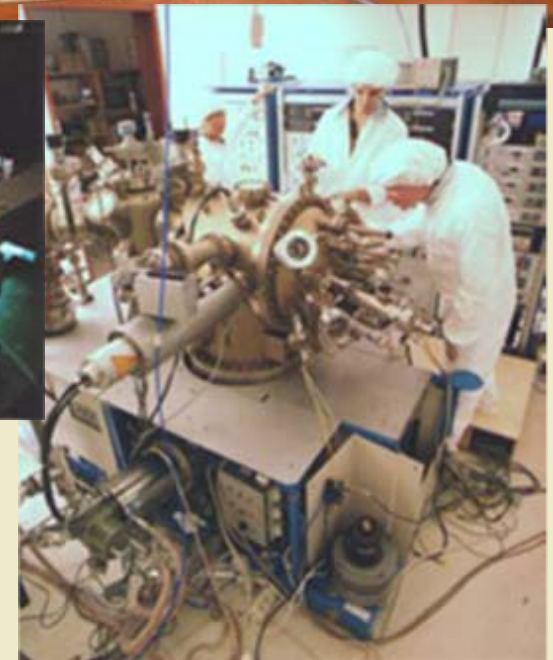
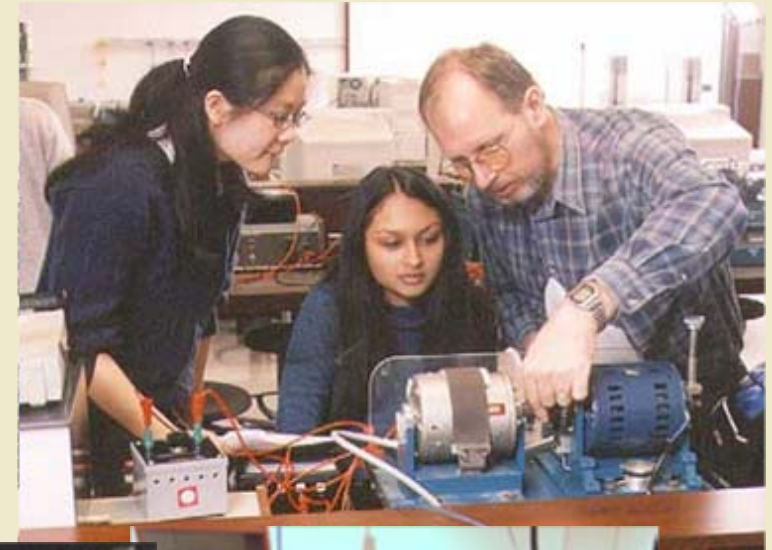
Power electronics and energy systems

电力电子与能量系统

Telecommunications 通信

Intelligent Information Processing Systems

智能信息处理系统



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FACULTY OF
Engineering, Computing
and Mathematics

UWA-CSC PhD Scholarships

西澳大学-中国国家博士留学基金管理委员会

50 scholarships per year to Chinese students only

每年批准50个中国学生奖学金名额（只给博士留学生）

UWA provides Full tuition fee + Health Cover + about A\$5,000 p.a. top up living allowance for up to 4 years

西澳大学提供全部学费、医疗保险及每年额外5000澳元的生活津贴（最多4年）

CSC provides about A\$15,000 p.a. + travel funding for up to 4 years

委员会提供每年大约15000澳元生活津贴及往返机票（最多4年）

total living allowance of about A\$20,000 p.a.

每年总共生活津贴大约2万澳元

Teaching duties paid about A\$35 per hour

辅助教学费大约每小时35澳元



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FACULTY OF
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and Mathematics

Eligibility : 适合资格

- Must be Chinese citizen
➤ 必须中国公民
- Must not be currently working or studying abroad
➤ 目前不可在境外工作或学习
- Must have IELTS 6.5 (reading, writing 6.5 ; listening, speaking 6.0) when you apply
➤ 申请时雅思成绩 6.5 (读、写: 6.5; 听、说: 6.0)
- Must have good academic record
➤ 必须有好的学校成绩记录



UWA-CSC PhD Scholarships

西澳大学-中国国家留学基金管理委员会

Eligibility : 适合资格

- Must fulfil requirements of CSC
- 必须履行委员会的规定
- Must return to China after completion of PhD
- 完成博士生学业后必须返回中国
- Preference given to “985” universities
- “985” 大学拥有批准优先权



THE UNIVERSITY OF
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FACULTY OF
Engineering, Computing
and Mathematics



How to apply : 申请步骤

- **Online to UWA (before October 17)**
 - 在线向西澳大学申请（十月十七日前）
- **Letter of offer from UWA first**
 - 西澳大学的接纳信
- **Apply to CSC for living allowance (through home university)**
 - 向中国国家留学基金管理委员会申请生活津贴（通过母校）
- **Start PhD within 12 months of the award**
 - 申请授予后一年内开始博士生课程



Contact details 联系方式



Faculty of Engineering, Computing & Mathematics

The University of Western Australia

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Email: Kamy.Cheng@uwa.edu.au

Web: www.ecm.uwa.edu.au



THE UNIVERSITY OF
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咨询问答 Questions

FACULTY OF ENGINEERING, COMPUTING AND MATHEMATICS

► 激动人心的工程事业
始于西澳大学

成为全球工程领域先锋 ►





Thank You

谢谢!



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