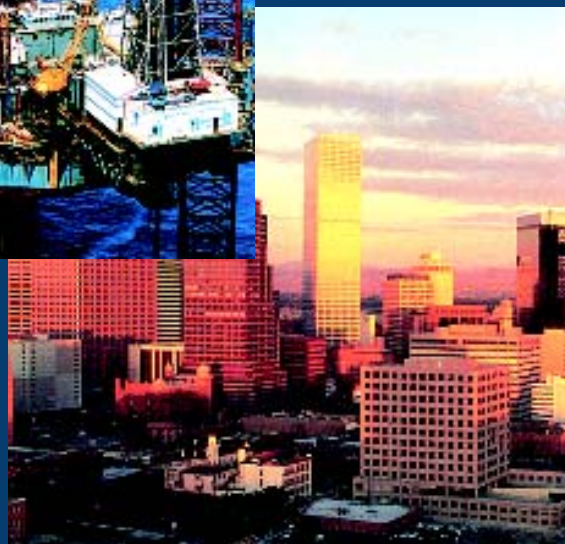
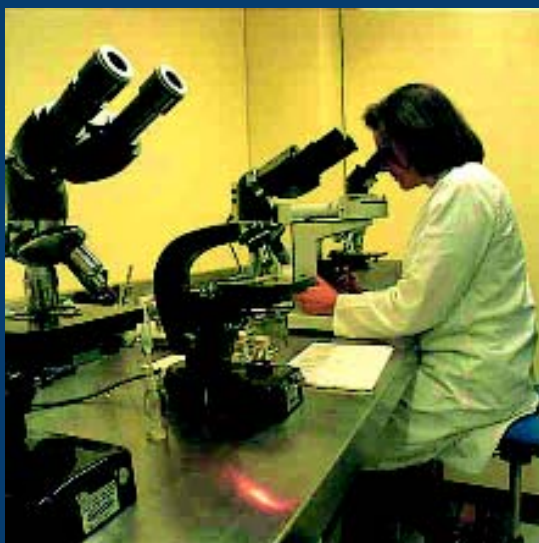


Petroleum Engineering *Alumni Newsletter*

2002/2003 Issue #13

CRICOS Provider Code 00098G



THE UNIVERSITY OF
NEW SOUTH WALES



School of Petroleum Engineering

FACULTY OF ENGINEERING

THE UNIVERSITY OF NEW SOUTH WALES

Sydney NSW 2052 Australia Tel 02 9385 5189 Fax 02 9385 5936

<http://www.petrol.unsw.edu.au>

Scrib-o-torial...

Welcome to the 2002/2003 Newsletter

Editor: Henry Salisch h.salisch@unsw.edu.au
Asst Editor & Design: Alison Harwood alison.harwood@unsw.edu.au

**Special thanks to graduate contributor
Druvi Ruberu**

NEWS

from the University

Professor Mark Wainwright

MAppSc Adel, PhD McM



Professor Mark Wainwright was appointed to the position of Deputy Vice-Chancellor (Research and International) in January 2001. He holds an Honours Degree in Applied Chemistry and a Master of Applied Science in Chemical Engineering from the University of Adelaide, and a

PhD in Chemical Engineering from McMaster University in Canada.

Professor Wainwright began his academic career at UNSW in 1974, as a lecturer in the School of Chemical Technology in what was then the Faculty of Applied Science. In 1989 he was awarded a personal chair for his research in catalytic reaction engineering, and in 1991 was appointed Dean of Australia's largest Faculty of Engineering, a position he held until the end of 2000. During 1998 and 1999 he was also Pro-Vice-Chancellor (Research). Professor Wainwright has served on the boards of numerous Co-operative Research Centres and is currently a Director of UniSearch Ltd, and the ATPI.

New Dean for the Faculty of Engineering

Professor Brendan Parker

BSc(Eng) ARSM DIC PhD Lond., CPEng, FIM, FIEAust

Professor Brendan Parker is a Metallurgical Engineer who gained his B.Sc (Eng) and PhD at Imperial College, London. When he began his career in the steel industry in the UK, he was sent on a short visit to Australia. The gloom in the UK at the time (both physical and political) encouraged the young Parker to apply for a three-year academic position in Adelaide. After two years he was tempted to join Monash University, and after this he never went home!



At Monash he was a member of the team that established the very successful Department of Materials Engineering.

A fruitful combination of teaching, research and direction of the Electron Microscope Unit led to his appointment as Associate Professor in 1984. In 1993 he thought it was time for a professorship, and the Dean agreed, provided he took on leadership of the Gippsland School of Engineering. In 1996 he was enticed to the position of Dean of Engineering at the University of Wollongong, where he reshaped the Faculty and its programs. Early in 2002, after six years at Wollongong, he joined UNSW.

Professor Parker's research has been mainly in Solidification Processing and Deformation Processing of Metals, and he has also contributed in the more scientific areas of Phase Transformations and Work Hardening. He has successfully supervised some 25 research students, and has published more than 130 papers.

Professor Parker plans to ensure that the Faculty at UNSW remains the leading engineering faculty in the country. He would like to see undergraduate programs with a greater emphasis on design, creativity and problem solving, as well as research focussed on themes that can achieve sustainable international excellence. In January 2003 Professor Parker will become President of the Australian Council of Engineering Deans.

NEWS

from the School

Undergraduate News

Staff Changes

During 2002 we were sorry to lose Dr Patrick Wong, one of our Senior Lecturers, who went to work for Veritas DGC Inc. in Houston. We also lost another one of our Senior Lecturers, Dr Izzy Kutasov, who is now in Israel writing a book. We understand that it's not an autobiography, but a significant technical contribution. We wish both our former staff members a great future. Staff changes that were implemented to introduce our new curriculum (effective in 2003) include assistance from Steve Tyson, with Geovisual, who is teaching Reservoir Characterisation and Modelling, which is his area of expertise. ModuSpec Engineering, an independent company that specialises in surface facilities among other areas, has kindly agreed to provide an expert to teach the Design Project course in 2003. This course will be taught in modular mode – an interesting alternative to extending the course over a whole semester.

New Sponsor for our School

The School is grateful that ModuSpec Engineering will be joining our group of sponsors for 2003. As well as providing valuable help with the Design Project, ModuSpec is funding two monetary awards for high achievers. The company provides services in engineering consultancy, technical surveys, and risk management, to the national and international markets.

New Computer Laboratory

A new state-of-the-art networking computer laboratory with 25 terminals has been installed in what used to be the staff common room. The lab has the capacity to cater to the needs of all our undergraduate students, who now exceed 80 in number. The University invested a considerable amount of money in the latest hardware and we believe that in 2003 this lab will be of great benefit, especially to our Year 3 and Year 4 students. The former ground floor computer laboratory has now become the undergraduate students' common room – where they can eat, drink, and be merry.



The new state-of-the-art computer laboratory

International Recognition for Henry Salisch

Henry Salisch, our Director of Undergraduate Studies, received two major international awards in 2002.

The Board of Delegates of SPE International elected Henry as a 'Distinguished Member', with the citation: "in recognition of distinguished achievements in the field of petroleum engineering". In any given year only 1% of Society members receive this award. Henry could not attend the meeting in San Antonio, Texas, to receive the award, and felt greatly honoured when Andrew Young, the 2002/2003 President of SPE, made a surprise visit to UNSW to present him with the award at a ceremony at the School of Petroleum Engineering. In October, the **European Academy of Sciences**, with headquarters in Brussels, elected Henry as a member, with the citation: "Elected for outstanding and lasting contributions to engineering sciences and leadership in the petroleum engineering profession". The Academy runs joint projects with the European Commission, The United Nations and UNESCO.



Henry Salisch with his SPE Distinguished Member Award, and some of his proud colleagues. Andrew Young (top left) made a special visit to the School to present the Award.

Scholarships

A Co-op scholarship for 2002 was sponsored by ChevronTexaco. The awardee was **Nick Allen** from Knox Grammar School in Sydney. A Co-op Scholarship for 2003 was sponsored by Philips Petroleum. This was awarded to **Dale Kilroy** from Sydney Technical High School.

The 2003 Rural scholarship granted by the Faculty of Engineering of UNSW went to **Rowan Wilson** from Ulladulla High School.

Many excellent applicants competed for these scholarships. We would like to thank our generous donors for their valuable support.

New Undergraduate Syllabus (effective 2003)

YEAR 1	PTRL1010	Introduction to the Petroleum Industry
	PTRL1013	Computing for Petroleum Engineers
	PTRL1016	Reservoir Rock and Fluid Properties
	CEIC1020	Introduction to Chemical Engineering
	MECH0130	Engineering Drawing & Solid Modelling
	CHEM1011	Fundamentals of Chemistry 1A
	PHYS1169	Physics 1
	MATH1131	Mathematics 1A or
	MATH1141	Higher Mathematics 1A
	MATH1231	Mathematics 1B or
MATH1241	Higher Mathematics 1B	
YEAR 2	PTRL2010	Communication Skills for Engineers
	PTRL2014	Fluid Dynamics in Porous Media
	PTRL2015	Well Drilling Equipment & Operations
	PTRL2016	Introduction to Petrophysics
	CVEN1023	Statics
	MATH2020	Mathematics 2A
	MATH2030	Mathematics 2B
	MATH2899	Applied Statistics CE
	CEIC2110	Material and Energy Balances
	CEIC2120	Flow of Fluids
CEIC2130	Heat Transfer	
GEOL5321	Elements of Petroleum Geology	
GEN ED	General Education	
YEAR 3	PTRL3008	Reservoir Engineering A
	PTRL3009	Reservoir Engineering B
	PTRL3013	Reservoir Characterisation & Modelling
	PTRL3016	Field Development Geology for Petroleum Engineers
	PTRL3023	Formation Evaluation
	PTRL2015	Well Drilling Equipment & Operations
	PTRL3024	Drilling Fluids and Cementing Techniques
	PTRL3025	Petroleum Economics
	PTRL1015	Rock and Fluids Laboratory (Winter Session)
	GEN ED	General Education
Electives		
PTRL3021	Design Project	
IROB1712	Management and Organisations	
GEOL5332	Reservoir Geophysics	
YEAR 4	PTRL4001	Integrated Oil/Gas Field Evaluation
	PTRL4015	Numerical Reservoir Simulation
	PTRL4016	Natural Gas Engineering
	PTRL4017	Well Technology
	PTRL4018	Petroleum Production Engineering
	MARK1012	Marketing Fundamentals
	SESC9711	Environment Planning & Assessment
	SESC9221	Major Hazards Management
	Electives	
	SESC4310	Health, Safety & Environmental Mgt
INFS1602	Computer Information Systems	
INFS1603	Business Data Management	
GEOL5332	Reservoir Geophysics	
GEOL5412	Special Topics in Petroleum Geoscience	

The SPE Student Chapter

Board members Troy Price, Andrei Judzewitsch, Shaun Deverson and Michael Compton, with the help of adviser Guy Allinson, did a wonderful job organising the NSW Student Chapter during 2002. The highlight of the year was the joint meeting with the SPE NSW/ACT Section. The meeting was sponsored by ESSO Australia, and featured guest speaker Tony Hyden. Tony spoke about the Hoover/Diana Project (ExxonMobil), which involved the installation of a semi-submersible off the coast of Mexico in an area that has one of the greatest water depths in the world.

The new board members for 2003 are:

President	Sheila Chan	(Year 4)
Membership Secretary	Michael Compton	(Year 3)
Treasurer	David Kitney	(Year 4)
Secretary	Lauren Young	(Year 3)
Adviser	Guy Allinson	(staff)



Movers & Shakers: the SPE Committee, old and new, with Henry Salisch, Val Pinczewski, Henry Irrgang, and Alec Cumming

Year 4 Annual Dinner

The dinner took place on 27th September, once again at the Quay West Suites at The Rocks. Students, staff, and industry members, including Henry Irrgang, President of the SPE NSW/ACT, and Alec Cumming, from Woodside Energy, were treated to a sumptuous meal, followed by some words of wisdom from David Blair, Chairman of Novus Petroleum, who gave an insightful talk about the petroleum industry worldwide. This was followed by an inspirational and entertaining presentation from Druvi Ruberu, who spoke about his experience in the industry since graduation, and gave some valuable advice to our students.



The friendly voice of experience: guest speaker Druvi Ruberu, with some of our undergraduate and postgraduate students

Dinner by candlelight (no, they're NOT miniature gas flares)



Awards for Outstanding Performance

Year 1

Best Overall Academic Performance (2001)

Jye Collins \$300 + book *The Prize* by Daniel Yergin, which won the Pulitzer Prize. It is a fascinating account of the panoramic history of oil, and the struggle for wealth and power that has always surrounded it.

Sponsor: The School and the SPE Student Chapter

Year 2

Best Overall Academic Performance (2001)

Benjamin Stephens \$300 + book *The Prize*

Sponsor: The School and the SPE Student Chapter

Year 3

Best Overall Academic Performance (2001)

Craig McCallum \$500

Sponsor: AusIMM/Santos Ltd

Best Performance in PTRL3008 (2002)

(Reservoir Engineering)

Cherie Sims \$500

Sponsor: Esso Australia

Best Performance in PTRL3019 (2002)

(Petroleum Project Evaluation)

Cherie Sims \$500

Sponsor: Esso Australia

Year 4

Best Performance in PTRL4016 (2002)

(Natural Gas Engineering)

Tomy Seman \$500

Sponsor: Woodside Energy Ltd



Cherie Sims receiving one of her ESSO Australia awards from Druvi Ruberu

Someone to look up to: Jai Collins receiving his award



Alec Cumming, who seems rather tentative about handing over an award to Sheila Chan. Sheila was accepting the award on behalf of Tomy Seman

A Gift from Halliburton

To the delight of our students, Halliburton Energy Services has become the corporate sponsor of the SPE Student Sponsorship Programme for 2 years, beginning 2003. According to the SPE, "The agreement provides all qualifying petroleum engineering students with membership in the Society at no cost to the student." The SPE currently has more than 5,000 student members, in 100 student chapters in 36 countries.

The Undergraduate-Industry Connection

In Session 2 of 2002, an entire subject (now called 'course') was presented by industry speakers, who generously gave their time to talk to our Year 1 students about the petroleum industry, their experiences, and their lifestyles. As you would expect, this course was the coolest of all in Session 2. Although we had to forgo this course in the new syllabus due to time constraints, effective in 2003 we will make certain that we get several industry speakers during Session 1 in our "Introduction to the Petroleum Industry" course. Any of you graduates who happen to be in Sydney and would like to speak to our 'youngest' would be more than welcome to do so.

Extra-curricular Activities

Sporting and social events comprise one of the most enjoyable aspects of undergraduate life in our School. Many of these are organised by the **Petroleum Engineering Student Society (PESS)**. In 2002, activities included Paintball, several BBQs, and a good number of pub crawls.

One of the most interesting events is the annual PESS BBQ, where food, beverages and socialising are combined with the election of the board members of the SPE Student Chapter.

Democracy at work: elections for the Board of the SPE Student Chapter at the annual PESS BBQ



A seriously contemplative moment (engineers DO have them): who to vote for... or... beef or lamb?



Another quite special occasion for the School was a "let's just do it because we feel like it" affair. Staff and students got together and, with Nino (our trusty Technical Officer) at the wheel, bussed it to Audley in the Royal National Park. There they enjoyed a BBQ/ picnic day.

Year 1 Field Trips

As is customary, in Week 3 of their first session in petroleum engineering, our Year 1 students went to visit **Geoscience Australia** (formerly AGSO), to become familiar with the Federal Government's involvement in the petroleum industry. As they do every year, the personnel at GA went out of their way to give our students an overall picture of the industry in Australia, and, as always, our students loved this first real contact with industry. This trip was followed a few weeks later by a visit to the coalbed methane gas field at Camden (close to Campbelltown). Again, engineers, this time from **Sydney Gas**, spent much of the day explaining their activities to our students.

In 2003 these field trips will again be part of Session 1 activities for our newcomers, as well as a visit to the **NSW Department of Energy** to hear about the State's involvement in natural resources exploration. Events like these are a wonderful motivator for our young students. There is just nothing like looking at the 'real thing', and participating in some hands-on activities. We are very grateful to GA, Sydney Gas, and the Department of Energy for the encouragement and time they give to our students.



Year 1 students at the Sydney Gas coalbed methane gas field at Camden

International Student Exchange

Under the Study Abroad Program, students from Australia can study for one or two sessions at one of our many partner universities, and students from other countries can do likewise in Australia. During the past few years we have always hosted a good complement under this plan, mainly from Europe, and particularly from Norway. This year we also have five Austrians. Our international students always seem to be very happy here, and do well academically. By coincidence, they also seem to have a special talent for geography – they know more beaches in NSW and Queensland than most of our local students do.

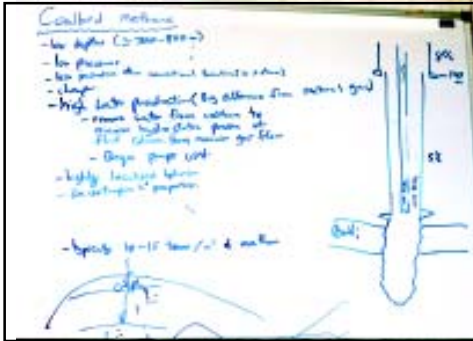


A 'beach' in Styria, the area where most of our Austrian students live. Now why is it that they seem to be so interested in researching our beaches?

more NEWS...

New Note-taking Technique

Our enterprising Year 1 students seem to have stumbled across a new study technique which requires no writing, with its annoying pens and lecture pads, or typing, with its cumbersome laptop computers and leads. Using your digital camera, simply shoot a happy snap of the board, complete with the notes kindly provided by your presenter. The notes produced, being in digital form, are easily transportable and reproducible, and can be quickly and easily emailed to your friends. This technique was first used, with great success, during the Year 1 field trip to Sydney Gas.



The new digital note-taking technique invented by Year 1 students at the School of Petroleum Engineering

Undergraduate Intake

We continued with our strong undergraduate recruiting program during 2002. For 2003, we expect an intake of 20-25 students, bringing our total undergraduate enrolment to between 80 and 85.

...there must be more that can be done to highlight the cutting-edge technology and innovation that is taken almost for granted in many parts of our industry.

Who else would be able to hit a 10-metre target by drilling a well that is three kilometres deep and five kilometres away horizontally? Such a challenge might symbolise the scale of the difficulties being faced with recruitment. *Upstream*, 2002

Sign of Evolution...Out of Confinement?



According to the Oxford Dictionary:

EMERGENCY (late Latin: *emergentia*, from *merge* to emerge) "The process of coming forth, issuing from concealment, obscurity, or confinement. (lit. and fig.) Also said of the result of an evolutionary process..."

Makes one wonder what would come out of this door ...and what it's really like inside those classrooms... (Emergency, interestingly, has the same etymology.)

Prestigious Award



Victor Nguyen at work on his Carbon Dioxide sequestration model

One of the School's postgraduate students, Victor (Duy) Nguyen, received the prestigious award from the Tony Noon Memorial Fund for Honours students, for 2002. Victor graduated from the undergraduate program in 2000, and continued on at the School to do

his ME. He has chosen underground carbon dioxide disposal as his research focus.

Industrial Training

Wanting to work is so rare a want that it should be encouraged. Abraham Lincoln

In the Summer vacation of 2002-3 the largest contingent ever was looking forward to Industrial Training. Twenty-one Year 3 students (not counting Co-op scholars) needed to do their IT. By early December, all but three students had found places.

Many of our graduates take up management positions...Why?

A man in a hot air balloon realised he was lost, so he decided to reduce altitude and have a look around. He soon spotted a woman below, and shouted out to her: "Excuse me. Can you help me? I promised a friend I would meet him an hour ago, but I don't know where I am."

The woman replied: "You are in a hot air balloon, hovering approximately 30 feet above the ground. You are between 40 and 41 degrees north latitude, and between 59 and 60 degrees west longitude."

"You must be an engineer," said the balloonist.

"I am," the woman answered. "How did you know that?"

"Well," said the balloonist, "everything you told me is technically correct, but I have no idea what to make of your information. The fact is, I am still lost. Frankly, you've not been much help so far."

The woman said: "You must be in Management."

"I am," the balloonist answered. "But how did you know that?"

"Well," said the woman, "you don't know where you are, or how you are going to get to where you are going. You have risen to where you are only because of a large quantity of hot air. You made a promise that you have no idea how to keep, and you expect people beneath you to solve your problems.

The fact is, you are in exactly the same position you were in before we met, but now, somehow, it's my fault."

Open Learning Program

The School's Open Learning Program continued successfully into 2002. The courses have proved popular, and a number of petroleum and service company personnel from different parts of the world have enrolled in the Program to expand their technical knowledge. An added bonus is that most of our lecturers have at last found something to do on the weekend: marking Open Learning assignments and/or exams. Each session, the top-scoring student in each Open Learning course receives a prize.

Session 1 2002 prizewinners are:

PTRL6001: **Mohammad Haji Tuah** (Brunei Shell Petroleum) – PTRL6003: **Mohammad Haji Tuah** – PTRL6004: **Nathan Rayner** (Oil Company of Australia, QLD) – PTRL6004: **Silje Sjolyst** (Norway) – PTRL6007: **Silje Sjolyst** – PTRL6008: **Dylan Reid** (Shell Todd Oil Services, NZ) – PTRL6009: **Troy Dias** (Western Geco, Schlumberger, WA) – PTRL6025: **Catherine Lagerberg** (Norway) – PTRL6027: **Christopher Wilson** (Labrador Petro-Management, WA) – PTRL6107: **Bruce Reinders** (Northern Alberta Institute, Canada)

Session 2 prizewinners for 2002 are:

PTRL6001: **Troy Dias** (Western Geco, Schlumberger, WA) – PTRL6007: **Mohammad Haji Tuah** (Brunei Shell Petroleum) – PTRL6009: **Steele George** (Siam Energy Co. Ltd, Thailand) – PTRL6012: **Steele George** – PTRL6107: **Bradley Hogan-Smith** (Shell, The Netherlands) – PTRL6025: **Donald Reitsma** (Canadian Occidental, Canada)

These students deserve congratulations. Achieving high marks in these courses is no easy task on its own, and most of our Open Learning students are also working full-time in industry.

OPEN LEARNING PROGRAM Courses offered in 2003

PTRL6001	Reservoir Engineering I
PTRL6007	Reservoir Engineering II
PTRL6003	Well Pressure Testing
PTRL6004	Numerical Reservoir Simulation
PTRL6008	Petroleum Production Economics
PTRL6009	Well Drilling Equipment & Operations
PTRL6102	Drilling Mud – Formulation, Selection & Maintenance
PTRL6016	Well Completions & Stimulation
PTRL6021	Reservoir Characterisation
PTRL6025	Well Control & Blowout Prevention
PTRL6027	Casing Design & Cementing
PTRL6028	Practical Aspects of Well Planning
PTRL6029	Directional, Horizontal & Multilateral Drilling
PTRL6107	Formation Evaluation
GEOL9151	Petroleum Geology
GEOL9152	Petroleum Geophysics
CVEN8707	Contracts Management
CVEN8710	Management of Risk
CVEN8888	Environmental Management

Research & Contracts

New Links to India

Early in 2002 a delegation from India visited the School to formalise a relationship that established collaborative links with India. This was achieved through India's national Oil and Natural Gas Corporation (ONGC) and Reliance Industry, a private company. The agreement confirms a relationship that will enhance and encourage ongoing research and consulting opportunities.

This invaluable link with India was initiated and developed by our lecturer Dilip Tamhane. The Memorandum of Understanding (MOU) is for 5 years, and according to Dilip, "covers the cooperative development and application of expertise relating to the development of India's hydrocarbon reserves. This includes reservoir characterisation and engineering, strategies for the production of gas from coal seams, enhanced oil recovery techniques and full-scale reservoir modelling using Micro-CT (Computed Tomography)."

Dilip's efforts have resulted in various other positive consequences. The School also signed an agreement with the ONGC's Institute of Reservoir Studies. This agreement involves the use of Artificial Intelligence in reservoir characterisation of the Heera oil field in western India.

In addition, negotiations are under way for an agreement on research in full-scale reservoir modelling using Micro-CT and Coal Bed Methane (CBM) consulting.



Dilip Tamhane,
our Indian ambassador

A delegation from Reliance Industry visited the School to discuss future collaboration in Reliance's CBM exploration and development program.

The School is providing in-house courses for the ONGC, and participated in the PETROTECH-2003 conference in Delhi in early January 2003. Our links to India promise fulfilling and successful relationships for the future.

Research Grants

Research grants awarded to the School during 2002 included over \$300,000 from Sydney Gas Company NL, for "Reservoir Characterisation for Coalbed Methane Production in the Sydney Basin" (Prof. Val Pinczewski, A/Prof. Sheik Rahman & Dr Patrick Wong), and \$45,000 from Statoil for "Evaluation of Mud Losses during Drilling in Haltenbanken" (A/Prof. Sheik Rahman and Dr K Rahman).

Consulting Success

Guy Allinson is working on a consulting project with a major Australian oil and gas company, advising on the valuation of its assets for tax consolidation. The project is being carried out through New South Global, the international consulting arm of UNSW.

Graduate Corner – Life in the Petroleum Patch

Druvi Ruberu – 1994

The Petroleum Patch – a Honeymoon

The past couple of months have been wonderful for Claire and I. The wedding day was truly the best day of our lives. We enjoyed ourselves immensely and are still walking with a spring in our step.

Two days after our big day we headed off to Vietnam for a honeymoon/holiday. Vietnam is one of those places that stimulate all the senses. There is so much to see and do: the food is delicious, the weather is hot and humid, there are many different scents in the air, and the cities are very noisy. (We have come to the conclusion that Australians do not toot their car horns enough – and perhaps the Vietnamese could ease off theirs!)

We flew into Ho Chi Minh (HCM) City, formerly Saigon, and were immediately struck by the incredibly heavy traffic on the roads – 90% of which is motorbikes! Crossing the road is a challenge, and a risk to one's life! No one follows the traffic lights or road signs. Everyone runs red lights and no one gives way. But amazingly, we didn't see any accidents or grid-locked traffic jams. With all of its chaos, getting around HCM City was fun.

From HCM City we travelled to the Mekong Delta for 3 days. The mighty Mekong River courses through many Asian countries, including China & Cambodia, and finally spills out into the sea from south of Vietnam. The Delta is a maze of tributaries, creeks and streams and is home to millions of Vietnamese whose lives as river dwellers are something to see. Their homes are on stilts on the riverbanks and they live on the same river in which they fish, prepare food, wash, and dispose of waste. River marketplaces consisting of hundreds of canoe-like motorboats sell everything from Coca-Cola to clothes; calamari and cooking spices to bananas, bicycle wheels, bricks and butchers' knives.

After a week around the Mekong and HCM City we made our way north up to a beautiful beachside fishing village called Mui Ne. Some would consider the few days we spent here to be the traditional honeymoon. A couple of nights in a small resort, staying in a hut right on the beach. Days were spent scooting around by motorbike, watching the fishing boats go in and out, and exploring the streams & mountains. Nights consisted of poolside cocktails and beach walks, watching the sun go down.



Hanoi

From Mui Ne to Nha Trang, the 'western tourist' capital of Vietnam. Island hopping, snorkelling, jet skiing, massages on the beach and a case of sunstroke for me. If you spend the day on the beach in Nha Trang, everything you need is available right beside your sun lounge. People come by selling everything: books, fresh pineapple ready sliced to pop into your mouth, back massages, pedicures and manicures, beads and souvenirs, beer – fresh crab is even cooked at your feet! We also indulged in a hot mud bath, hot springs and a massage. (I think I still have bruises from the masseuse walking on my back!)

From Nha Trang we went inland to look around the Central Highlands. From our position atop an elephant (yes, we had a ride on an elephant, which I don't really recommend – way too hard on the backside!) we discovered that much of the countryside was bare of trees and vegetation. The land is still trying to recover from the effects of Napalm and Agent Orange, and poor farming techniques have not helped. But not all was gloomy – we saw some interesting minority villages and stunning waterfalls in the area.

An excruciating 15-hour overnight bus ride (complete with continuous horn-honking) took us further north to Hoi An. We loved this town. Hoi An is home to China Beach (made famous by the Americans), but we didn't get there because Claire couldn't be torn away from the tailors. In Hoi An there are a million and one tailors who will make any clothing item you need for your wardrobe, and all for US\$1-\$10. Of course, Claire got carried away and bought 2 suits, 3 silk tops, 4 silk skirts, 2 linen pants, 1 silk dress and 1 shirt, all tailor-made. I also got into the spirit with 3 work shirts, 4 casual shirts, 2 pairs of casual trousers and 2 pairs of linen trousers. Hoi An is architecturally beautiful, with a strong French influence. It has many quaintly restored buildings, a bustling fish market and a lovely river running through the town. It also took us to the famous My Son Cham ruins, which date back to the 5th century. Amazing that the ancient temples still stand so tall and strong. We really enjoyed Hoi An and found it quite romantic.

The ancient imperial city of Hue on the famous Perfume River was next. This city has important historical significance and has achieved UNESCO World Heritage classification. We visited the Citadel, which is surrounded by two moats. Up until the mid 40's, the Citadel housed Vietnamese royalty, before the throne was abdicated in favour of Ho Chi Minh's newly-formed communist government. It was heavily bombed during the war but is slowly being restored. We hired a motorbike and went on a fabulous trip to see Tu Duc's tombs, which remain relatively undamaged. Although the tombs themselves were very interesting, it was the ride out there that was fun. We travelled along the rural back roads, passing little villages and farms and rice paddies and temples, and saw a side to Vietnam not often seen by the average tourist.

From Hue we flew to Hanoi, the capital city and government centre of Vietnam. We loved Hanoi...tree-lined streets, beautiful old French buildings, a lovely lake right in the centre of town, excellent restaurants and food, and a great little curb-side beer stop. You

Graduate Corner ... continued



HL Bay

wouldn't call it a pub: we actually sat on the curb while they served beer from a plastic keg sitting on milk crates, and had to quickly pull our feet away to avoid having them run over by motorbikes. The beer cost 2,500 Vietnamese Dong (or about 30 cents)! While in Hanoi we stayed in the Old Quarter, a place with over a thousand years of history, where the streets are named after what the vendors sell. You can buy anything in the Old Quarter – from gravestones to silk pyjamas.

From Hanoi we ventured out to Halong Bay where there are thousands of mini-islands with high peaking mountains rising from the beautiful emerald waters of the Gulf of Tonkin. We did this as part of a mini tour, which included sailing and mountain trekking. The mountain climbing was very hard going – almost 4kms straight up! One night we stayed on our sail boat and the other night we spent at Cat Ba Island and entertained ourselves for three and half hours, indulging in a bit of Karaoke. As some of you may guess, Claire and I hogged the microphones all night, but our audience just couldn't get enough of our Michael Jackson moonwalks.

Unfortunately, we ran out of days and didn't get to do everything we wanted. That's the unfortunate thing about holidays – you have to come home again. But Vietnam was a fantastic experience and a place we will never forget.

Druvi & Claire Ruberu

✦
*To all
our readers
Happy New
Year
for 2003*
✦



Pay Dirt



Tor McCaul (1987) is still with LASMO-ENI in Indonesia, and spent much of 2002 travelling: to Tokyo, New York, Taipei and Seoul. However, he also spends time with his wonderful family: his wife Trudi, and his four kids. As well as petroleum engineering, Tor manages to fit in basketball, soccer, tennis, touch football, and membership of the school council.

Saad Saeed (1997) married Kinza in December 2002, in Pakistan. The happy couple are now living in Houston, where Saad works for Halliburton.

Calling All Graduates

You are keeping a lot from us. Quite a few interesting events must have occurred in your lives during 2002. Please let us know. We are sure that our readers would love to hear from you just as much as you all like to read about the escapades of your fellows. Perhaps Henry's contribution (below) will inspire you.

How Life Used to Be in the Petroleum Patch



You might be interested to see how oil was recovered during the 40s and 50s in some parts of the world. Pits (called 'wells') were dug by hand, and oil was allowed to seep in. This picture was taken in the Santa Elena Peninsula in Ecuador, South America (close to a beach on the Pacific Ocean). Improvements to the technique shown above were introduced in the 1950s: donkeys were enlisted to serve in the Petroleum Patch. Each donkey had a drum strapped to both sides of its body. The men filled these drums with oil from their buckets. A long line of donkeys serviced the 200 'wells', carrying the oil from each pit to a ditch which sloped gently into a 500bbl tank on the beach. When this tank was full, the oil was taken away by a tanker, which was summoned on a hand-cranked telephone.

Do You Know Where These Graduates Are?

Please let us know the whereabouts of the following graduates, so that we can send them the Newsletter.

1988: Roes Aryawijaya, Tony Edwards, Q Vinh Le, Andrew Lloyd, TV Nguyen, Louis Verheggen **1989:** Brett McIntyre **1990:** Simone Chua, Don McMillan, Lai Huan Tan **1991:** Mark Pitkin, Shaun Power **1993:** Anthony Ho, Colin Nell **1994:** Nader Behjat, Ismael Gulec, Wahib Iskander, Lok Koke, Gordon Murray, Bala Rajagopal, Mark Wong **1995:** Ashley Africa, Nigel Gordon, Andrew Reay **1996:** Gerald Cayzac, Innes McCloud, Sam Meklis, Rachel Melville, Sumant Narayan, David Naseby **1997:** Nigel Gardiner, C L Yiu **1998:** R Andika, Brendan Brown, Sasha Ellis, Mustapha Khatib, Brendan Nguyen, Bjorn Skaar, Christopher White **1999:** Jonathan Yeo **2000:** Joseph Budnik, Edward Meldrum, Claire Scott

GRADUATES GRADUATES GRADUATES GRADUATES GRADUATES GRADUATES

1987

David Crane	BP Berau, Jakarta
Peter Lansom	OCA, Brisbane
Tor McCaul	Vico Indonesia, Jakarta
Stuart Nichol	BHP Billiton, Perth

1988

Roes Aryawijaya*	Pertamina, Jakarta
Mathew Butler	Santos, Brisbane
Tony Edwards	contractor, Melbourne
Chris Gregory	Shell, Melbourne?
Q Vinh Le*	Baroid, WA?
Andrew Lloyd	Teaching, NSW
Desmond Nguyen**	Staff, PetEng UNSW
T V Nguyen	Teaching, NSW
Louis Verheggen	Mobil, Jakarta?

1989

Richard Chia	Shell, Brunei
Andrew James	Shell, New Orleans
David Jamieson	Phillips Petroleum, Perth
John Mather	P/Grad, Sydney?
Brett McIntyre	Enterprise Oil, UAE
Andrew Parker	Shell, Brunei
Bruce Richardson	Woodside, WA
Christine Sammut	Chevron Texaco, Perth
Chris Winter*	Wintershall AG, Germany
Hen Wong	Shell Malaysia, Miri

1990

Simone Chua	London, UK?
Wilson Lee	Woodside, WA
Don McMillan	Santos, Brisbane?
Marc Parkinson	Chevron Niu Guini
Paul Sullivan	Shell, Aberdeen, UK
Lai Huan Tan	Where are you?

1991

John Hand**	Phillips, Alaska
Rose Marie Karam	Schlumberger, Denmark
Brett Lestrangle	Expro, Texas
Kee Hian Lim*	Exxon Mobil, Singapore
Gordon Moseby	Beach Oil, Adelaide
Mark Pitkin	OCA, Brisbane?
Shaun Power	Where are you?
Gelber Taco Cervantes*	Energy Equity, WA

1992

Sean Curnow	Peak Group, Aberdeen
Jim Diakigiannis	OCA, Brisbane
Theo Kiatikidis	Deceased
Patrick Lollback	CSIRO, Sydney
Eleanor Morrison	Zimbabwe?
Jamie Rodda	Woodside, Brisbane
Patrick Wong**	Senior Lecturer, PetEng UNSW

1993

Mamdouh Agawani**	CSIRO, Genesis 2000?
Damien Allard	Shell, Brunei
Aziz Ashard*	KFUPM, Saudi Arabia

1993 continued

Philip Askew	Boston Consulting, Thailand
Dyson Bogg	P/Grad, Kelloggs U, USA
Kurtis Brent	Baker Oil Tools, Netherlands
Mehdi Dhavarani	Calgary, Canada
Don Estrella*	Smith Bits, Perth
Marcia Evans	Woodside, Perth
Anthony Ho	Sperry-Sun, WA?
Muchtar Hussein*	Lemigas, Jakarta
Daryl Moore	Woodside, Perth
Colin Nell	Saudi Aramco?
Motiur Rahman*	P/Grad, PhD, PetEng UNSW
Elizabeth Sammut	Chevron Texaco, Perth
Chris Wallace	Baroid-Halliburton, WA

1994

Peter Adam	Santos, Brisbane
Estu Baggio*	Lemigas, Jakarta
Nader Behjat	Baker Hughes Inteq, Perth?
Simon Chipperfield	Santos, Adelaide
Danny Crosby**	Santos, Adelaide
Peter Fox	AGL, Sydney
Ismael Gulec*	P/Grad, PhD, Melbourne
Wahib Iskander	Where are you?
Lok Koke	Where are you?
Michael Maguire	OD&E, Oman
Gordon Murray	Where are you?
Bala Rajagopal	Where are you?
Druvi Ruberu	Esso, Melbourne
Duane Selman	Apache, Perth
Bradley Stout	Apache, Perth
Mark Wong	Mobil North Sea Ltd, Aberdeen?
Christian Wyrzynski	Woodside, Perth

1995

Ashley Africa	Woodside, Perth?
Musin Assegaf	Unocal Geothermal, Indonesia
Tony Azizi	Anadrill, Sale, Vic.
Susan Barrett-Denk	Schlumberger, Perth
Robert Benkovic	Schlumberger, Perth
Alison Clarke	BHP, Perth
Petrina Weatherstone	Chevron Texaco, Aberdeen
Nigel Gordon	Woodside, Sydney?
Colin Green	Woodside, Perth
Tracey Gray**	Woodside, Perth
Sean Hanrahan	Chevron, California
Shaun Hingerty	ROC Oil, Sydney
Anthony Corrie-Keilig	Dowell, Sumatra
Edmond Leung	Schlumberger Geoquest, SA
Danny van Nispen	Shell, Brunei
Pal-Eric Oren**	Statoil, Norway
Andrew Reay	Where are you?
Nigel Roberts	Woodside, WA
Erie Soedarmo	Lemigas, Jakarta
Bimal Wanigaratne	Santos, Brisbane
Stuart Watson	Melbourne

* ME degree
** PhD degree

? address unknown
Can you help?

GRADUATES GRADUATES GRADUATES GRADUATES GRADUATES GRADUATES

1996

Patrick Beashel	Expro, Thailand
Gerald Cayzac	Where are you?
Patrick Dassens	Schlumberger, VIC.
Craig Dedini	CEPSA, Spain
Mathew Jobe	BP Harding
Innes McCloud	Baroid, Melbourne?
Sam Meklis	Greece
Rachel Melville	Where are you?
Sumant Narayan*	Bourke?
David Naseby	P/Grad, PetEng UNSW?
Daniel Pastor	Schlumberger, Oman
Marney Petrobon	BP, Houston
Ashley Pittard	PM Capital, Sydney
Chris Schmickl	Santos, Brisbane
Andrew Spark	Woodside, Perth
Stephen Totterman	Schlumberger, India

1997

Nagmeh Ansari	MatrixOne, MA, USA
Gregory Fyffe	Schlumb. Wireline, Venezuela
Nigel Gardiner	Schlumb. Geoquest, Sydney?
Joanne Hume*	AGL, Sydney
Francis Krieger**	Phillips Petroleum, UK
Rachel Braikenridge	Sydney
Desmond Nguyen**	Staff, PetEng UNSW
Ngoc Hoan Nguyen*	PetroVietnam, Hanoi
Natalie Pestana	Shell, Aberdeen
Scott Ryan	Woodside, WA
Saad Saeed	Halliburton, Houston
Mark Stevenson**	Phillips, Alaska
Lisa Workman	BHPP, Perth
C L Yiu	Hong Kong?

1998

R Andika*	Where are you?
Brendan Brown	P/Grad, IT, UNSW
Sasha Ellis	P/Grad, Comm, UNSW
Alistair Jones	Woodside, Perth
Mustapha Khatib	Where are you?
Andrew Leung	Woodside, Perth
Huong Luong Lien	Unocal Vietnam, Hanoi
Ari Muladi*	PPPTMGB Lemigas, Indonesia
Brendan Nguyen	Where are you?
Melissa Goodfellow	OCA, Brisbane
Timothy Ogilvie	Mgt Reporting Systems, Sydney
Waldo Park	Austkorcha, Sydney
Anirban Razaque	Federal Government, Sydney
Bjorn Skaar	Norway
Henky Tanumihardja	IHS Energy Group, Singapore
Julian Triscott	Argo International
Constantin Tsonis	NT Dpt Mines & Energy, Darwin
Minh Van Vo	Unocal, HoChiMinh City
Christopher White	Transfield Energy Divn, QLD?
William Zaitseff	Fuji-Xerox, Sydney
David Zeng	Fuji-Xerox, Hong Kong

* ME degree
** PhD degree

? address unknown
Can you help?

1999

Amir Aryana	Iranian Petroleum Co., Iran
John Chew	Singapore?
Steven Davies	Sydney?
Phillip Hirschhorn	Boston Consulting, Sydney
Stuart Job	Woodside, Perth
Steve Kennedy	Ind. Science & Resources Dept, Canberra
Ilan Lowbeer	consulting, Sydney
Anthony Smith	Expro, Perth
Jodie Summers	IBM, Sydney?
Jonathon Yeo	Where are you?
Peter Zeng	Fuji-Xerox, Sydney

2000

Sally Bamber	Police Force, NSW?
Joseph Budnik	Where are you?
Anthony Johnson	Woodside, Perth
Edward Meldrum	Where are you?
Victor Nguyen	P/Grad, UNSW
Viet Nguyen	P/Grad, UNSW
Minh Pham	Petrovietnam, Hanoi
Rhaganavan Rasanayagam	Expro, Perth
Claire Scott	Where are you?
Angus Stirling	Oil Search, PNG
Nam Tran	P/Grad, PetEng, UNSW

2001

Zahid Arain	P/Grad, Comm, UNSW
Patrick Brenan	BP, Aberdeen
Nicholas Gole	Macquarie Bank, Sydney
Martin Hodge	P/Grad, PetEng, UNSW
Amy Hodson	OCA, Brisbane
Elsa Lee	Baker Atlas, Aberdeen
Sanjiv Maniam	Sydney
Damien Mavroudis	Santos, Brisbane
Janet Michalopoulos	Santos, Brisbane
James Moor	Shell, Norway
Siddharta Naicker	Sydney Gas
Sunjee Pak	Weatherfeld, Dubai
Gregory Runge	Sydney
Andri Santoso	Baker Atlas, Adelaide
Louse Peyton (Varvell)	Sala, Sydney
Nicholas Watson	Century Drilling
Christopher Woods	Woodside, Perth

AND

Feng Xu Jian	Chevron, CA, USA
John Rudd	Japan Oil Devt Co., Japan
Ian Taggart	Chevron, USA

POTENTIAL GRADUANDS 2002

Stephane Chamoin	Johannes Bon	Troy Price
Craig McCallum	Ronald Mangun	Peter Plater
Andrei Judzewitsch	Eve Nicola	Kynan Scarr
Mark Sweetman	Thuy Huyen Ho	Tomy Seman