



ENGINEERS  
AUSTRALIA  
Western Australia  
Division

# ANNUAL REPORT 06 - 07

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## ■ Division Directors Report – Janice Lake



This Annual Report highlights the achievements of the WA Division as they relate to the eight key objectives of the Operation Plan for the 2006/2007 financial year. The report will be presented to the 88th Annual General Meeting of the Division to be held on 10 December 2007.

This year has seen continuing good growth in our membership numbers, both qualified and students. Attendance at all our major events has been high and we have had a number of opportunities to raise our public profile to government and the community. The Division has placed emphasis on quality professional development services to our members, and on enhancing education, government and industry cooperation in encouraging students to consider a career in engineering.

### Objective 1 Public Role and Professional Standing

The Public Policy activities of the Division included several submissions and contributions to WA government in the areas of ICT, water governance and planning policy, road strategy, city redevelopment and skills shortage. A major draft discussion paper was developed in cooperation with Dept Housing and Works for the proposed Engineers Act for WA.

Conference presentations on skill shortage, meetings at Ministerial level for several portfolios, and representation on government committees, added to the profile. Follow up presentations about the State Infrastructure Report Card were held in Perth and regional areas.

The 2007 Year of Women in Engineering has been a stand-out success and the Purple Boot Campaign to support the Breast Cancer Foundation of WA was extremely well received. The Women in Engineering group is holding a number of events during the year, several in cooperation with other groups and organisations.

In 2006 the Engineering Excellence Awards Program was separated from Engineering Week for the first time. Engineering Week events attracted good audiences and the bill board posters were a particular success. The spaghetti Bridges and Towers in Bunbury had a record number of entries. We worked with National Science Week to co-promote activities.

The Division received 28 entries in 9 categories for the Excellence Awards, with the awards presentation held in late September. It was also gratifying to also have several nominations for individual awards.

The CELM breakfast series continued to attract a diverse audience and all events were well attended.

During the year joint events were held with a range of other organisations, which included Chamber of Minerals and Energy, Scitech, AWA, and BEDP and the LunchBox List Women's seminar.

Our Engineering Week presentations, the Engineering Excellence Awards, the skills shortage, engineering heritage, engineering education and our schools programs provided opportunities for good media coverage, including regional radio, and newspapers. The Engineering Week newspaper liftout was again a major promotional activity for the Week and WA Business News featured the Engineering Excellence Awards.

### Objective 2 An Inclusive Professional Team

Young Engineers events, including the YE Summit, were all well attended. The Women in Engineering have a program of events for the "Year of Women in Engineering", with the "Year of" launch in February 07 providing a great start to the year. Young engineers and women engineers are now active participants in most of the Division's panels and groups.

In the technical area, the Oil and Gas Facilities Group was formed as a co-venture with Society of Petroleum Engineers.

Membership grew to over 10,000 in WA during the year, with an overall 7.8% annual growth overall, 7.1% increase in paying members, 8.0% increase in student members. Our membership certificate presentation evenings have been a great success, providing an opportunity for new members to meet fellow engineers and for recognition of achievement. All membership processing continues to be a Division responsibility.

The National President and Division President made trips to the regional groups during the year, and the Peel Group has ramped up their activity program. 3 eminent speakers were able to visit Bunbury during the year, and regional forums regarding the Infrastructure Report Card and local water management were held in several centres.

### Objective 3 Youth Appeal

More than 2000 students from 44 schools participated in Engquest, our primary schools program, in 2006, with a pleasing number of regional schools involved.

The WA Division organised the Science and Engineering Challenge for high schools to come to WA for the first time in November 2006. The Challenge involved more than 1200 year 9 students, from 45 schools, in competition over a week. Major sponsorship support came from the WA government, the universities and industry.

In addition to these programs the Division participated in several careers expos for schools students, and produced posters and brochures promoting careers in engineering. These activities were made possible by industry support and our volunteer members.

Our cooperation with National Science Week activities continued during 2006, and the Universities, TAFE and teachers' associations are represented on the Education and Assessment subcommittee.

The annual Face to Face Careers Expo for engineering students was the biggest yet in 2007, with 75 companies attending and 900 students taking advantage of the opportunity to talk to potential employers. In addition more than 90 companies are registered in Vacation Employment Handbook CD for engineering students.

The information about membership for graduating students was well targeted this year, with the upgrade forms sent to the new graduates via the universities.

### Objective 4 Chartered Status

There has been an increased level of interest in Chartered Status and the Professional Development Program (PDP), with 50 companies in WA now participating in the PDP and 600 engineers registered on program – 40% increase in past year. Applications for Chartered Status have increased 18% and the number of Career Episode Reports received by our national assessor has more than doubled.

Companies who have signed Agreements have been profiled in our monthly newsletter and participants in the program were able to take advantage of technical writing workshops, as well as in-house workshops and presentations on Chartered Status.

We now have more than 700 members registered on our Professional Interviewer list, with 2-3 interviews for Chartered Status held each week.

### Objective 5 CPD

During the 06-07 year more than 400 professional development events were held, with over 11,000 attendees. 44 of the activities were fee paying events and 36 activities were organised with other organisations. 8 Eminent Speaker presentations added to the range of professional development opportunities provided for members.

Special events included activities for 2007 Year of Women in Engineering, Young Engineers Summit and the Oil and Gas Facilities Group launch.

CELM Breakfast Series speakers regularly attracted approximately 200 guests, and included a presentation by Hon Julie Bishop, Federal Minister for Education.

### Objective 7 Internal Communications

The Division website and weekly email were reviewed and updated during the year and the Division newsletters included several Public Policy articles.

The total WA Division membership continues to grow at well above the national average rate and positive feedback has been received regarding our major events. The Division certificate presentation evenings for new members are very well attended.

### Objective 8 A Capable Organisation

Sponsorship funds for 2007 total more than \$300,000. Special sponsorship has been secured for Year of Women in Engineering, Schools Programs and Science and Engineering Challenge. The partnership arrangements that are in place for three years have worked well, with positive feedback received from the companies. Non-subscription income was approximately 50% of the total for 0607.

0607 was a difficult year for the staff, however performance reviews, Operational Plan, budget and reporting have been satisfactorily completed.

The Division Committee and subcommittee structure is under review in line with new Division Regulations.

## Presidents Report – Jim Brown FIEAust CPEng



There are two major, relatively new, issues impacting our profession that will become more pressing in the next few years, and the ways in which we deal with them will go a long way towards shaping our engineering future.

The resources driven economic boom that has a firm grip on Western Australia has greatly exacerbated the shortage of engineers in our state, much more so than in the rest of Australia, while the growing certainty surrounding climate change is throwing up enormous challenges to state development, and in turn our engineers.

The next few years in particular will be critical for both of these issues. It is encouraging to see some effective initiatives to deal with them already emerging, and it is to be hoped that these and consequent measures will see us through to a continued position of strength.

The shortage of engineers is being addressed on several fronts. Two of these are to encourage more young students into our profession in the face of a decline in such interest that has occurred over the past two decades.

EngQuest is focused on primary students across Australia and is enjoying increasing popularity, with about 2,000 WA students participating in 2006.

A complementary initiative, the Science and Engineering Challenge, was introduced to WA in November, 2006, for secondary students. It is run by Newcastle University and funded by the Commonwealth Department of Education, Science and Training. It was organised in WA by our Division and involved more than 1,250 students from 45 high schools, with the overall winner being a team from Christ Church Grammar School.

Another approach is to achieve greater efficiencies in the way engineers operate on state projects. It is up to all of us to take the initiative and speak up on this issue to find ways to obtain the greatest effectiveness from the available engineering resource. For example, engineers

could be given more responsibility or opportunity for innovation to avoid wastage of effort and find new ways to solve problems.

We also need to increase our efforts to attract more women to our profession. They currently make up only six per cent of our qualified membership and about 15 per cent of our student members. This year, 2007, is the Year of Women in Engineering in Australia, and one of the aims is to promote our profession's ability to offer a sustainable and fulfilling career for women. Ensuring that more women become engineers is vital from a social equity viewpoint and provides a means to address the current shortage.

I congratulate our Women in Engineering group that put together an extensive and engaging program of events for this year.

We also need to develop our young engineers, and award schemes for students and young practising engineers is helping in this regard. More than 80 attended the 2007 Young Engineers WA Summit in May. This had an important goal of facilitating the transfer of knowledge between our senior and younger members.

The South West region of WA has been affected earlier and more noticeably by climate change, and it has been pleasing to see the highly effective response implemented by engineers and many others at the Water Corporation, culminating in construction during 2006 of the Perth Seawater Desalination Plant by a competitive alliance. The innovations and teamwork that were displayed on this project show the path we must take to dealing with this issue which will present many challenges in relation to our environment.

As a learned institution we have a responsibility to ensure the community is well informed on issues such as this, and it is important that we seek out insight from our informed colleagues in a range of fields. Allied with this is the increasing role for engineers to play in delivering sustainable solutions in engineering projects.

The year in review saw another strong array of awards, both national and state, for our members, and I would like to draw attention to a few of these. The winner of the Sir William Hudson Award, Engineers Australia's highest national excellence award, came out of WA for the second year in succession. The 2006 award went to the Bayu-Undan Development Phase 1, a LPG facility in the Timor Sea, submitted by ConocoPhillips, Fluor and WorleyParsons.

Water Corporation CEO Dr Jim Gill received the Australian Civil Engineer of the Year Award, 2006, Kaye De Pardo of Woodside Energy was announced as the 2006 WA Young Professional Engineer of the Year, and Ross Magno of the Royal Australian Airforce was announced as the 2006 WA Engineering Officer of the Year. My congratulations go to these and all other winners.

The Overall Winner of the WA Engineering Excellence Awards for 2006 went to the Public Transport Authority of WA - Urban Stations Security.

On a sad note, two notable WA engineers passed away in 2006: Garry Meinck, former Chief Operating Officer of the Water Corporation, and Harold Hunt, former Chief Engineer of the Public Works Department and Metropolitan Water Supply, Sewerage and Drainage Board. Garry was posthumously awarded the WA Public Service Medal.

I am pleased to report that our Division progressed strongly in the year under review, with encouraging membership growth of almost eight per cent and another highly active program of activities and events. I thank our Executive Director, Janice Lake, and her staff as well as our small army of volunteers who made this possible.

In February, 2007, our Division and the Society of Petroleum Engineers launched the Oil and Gas Facilities Group which offers professional development in plant, equipment and processes both onshore and offshore.

The 2007 Face to Face Expo for young engineers was the biggest and best ever. More than 900 engineering students attended at the Claremont Showgrounds in March, 2007, and had a great opportunity to talk to engineers and staff from 75 participating companies.

We are well set to meet the special challenges that coming years will bring, and I have every confidence that our executive and members will do a great job in growing our profession especially in areas such as new leadership roles and what I call the 'softer' side of engineering: communicating and consulting with our communities and stakeholders, and engaging in public debate to achieve the best results for everyone. Importantly in all of this, we need to remain willing to adapt to change.

## Division Staff 2007

Name	Position and/or Responsibility
Janice Lake	Executive Director
Fiona Thomiley	Deputy Director
Alexandra Sparvell	Industry Manager
John McLoughlin	National Assessor
Sharleen Mantle	Technical Program Coordinator
Fran England	Membership Coordinator
Elisa Triscari	Receptionist/Customer Service
Sarah Cotterill	Senior Bookkeeper
Hormuzd Cooper	Communication Coordinator (no longer at EA)
Kylie Ralph	School Program Coordinator
Beatriz Clark	School Program Coordinator



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## Photographic Year in Review

### Events of Interest



Above Main Photo: Engineering Week 2006 Cocktail Party at the Government House Ballroom. Inset Left: His Excellency Dr Ken Michael AC, Governor of Western Australia. Inset Right: Division President Jim Brown, with some of the recently appointed fellows at the 2006 Engineering Week Breakfast Launch.



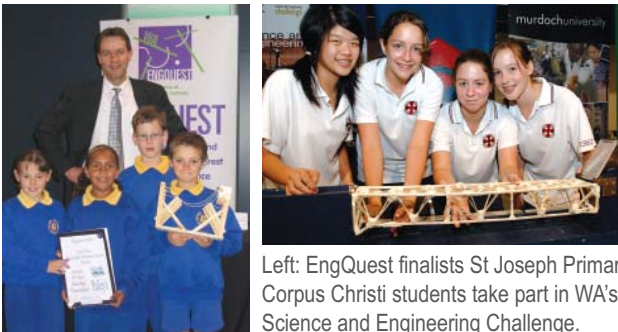
Above: The 2006 WA Engineering Excellence Awards Dinner at the Perth Convention Centre. Bottom: Posters of the projects for the Excellence Awards on display in the QV1 foyer.



Above: Students & companies interact at the 2007 Face to Face Expo held at Claremont Showgrounds.



Above: Young Engineers Western Australia host their 2007 Summit 'Bridging the Gap' at the Perth Convention Centre.



Left: EngQuest finalists St Joseph Primary. Above: Corpus Christi students take part in WA's Inaugural Science and Engineering Challenge.



Above: Engineers Australia Corporate Golf Challenge 2007. The winning team from Calibre Projects with Terry Wernik from Rittal (Event Sponsor).



Left: Centre for Engineering Leadership & Management Breakfast Series: Scott LaVeru, Hon Alannah MacTiernan MLA, Philip Schubert and Reece Waldock .

**Award Winners Recognised**



Above: 2006 WA Engineering Excellence Awards Overall Winner, Public Transport Authority. Left to right: John Phillips (WA Division President 2006), Philip Schubert (PTA), Scott La Vertue (PTA), Philip McCluskey (PTA) and Dr Kevin Dardis (Fluor, Principal Sponsor)



Above: National Civil College Chairman Steve Finlay, Dr Jim Gill FIEAust CPEng 2006 Civil Engineer of the Year and Jim Brown



Above: Bayu - Undan Development, Phase 1 wins National Engineering Excellence Award



Above: WA's Inaugural Science and Engineering Challenge Winner - Christ Church Grammar School



Above Left: Ross Magno OFIEAust CEngO WA Engineering Officer of the Year 2006. Above Right: Kaye De Pardo GradIEAust, 2006 WA Young Professional of the Year.

**'07 Year of Women in Engineering**



Above Left: Hon. Margaret Mary Quirk MLA joins the Purple Boot Brigade. Above Middle: Kaye de Pardo, Felicity McKenzie, Carol Jelley, Sue Murphy at the Women in Science and Engineering Symposium at Parliament House Canberra. Above Right: WA Young Person of the Year and deaf community advocate Alexandra Shaw, entrepreneur and leadership trainer Alicia Curtis, SKM structural engineer and youngest female associate Tamsin Ainscow, and Junior Lawyer of the Year Jasmine Denkha from Blake Dawson Waldron presented at the Worldly Women Luncheon.

**Professional Development Rolls On!**



Above Left: Pritchard Francis PD Program: (L to R) Mark Rea, Oliver Bingard, Chris Tyler, Mark Riddell, Janice Lake, Andrew Bayley and Arthur Psaltis. Above Middle: The team from Alliance Power & Data with Janice Lake. Above Right: John Holland PD Program: Darren Nelson, Human Resources Manager, Janice Lake, (Back) Alexandra Sparvell and Kym Sturmer, Training Coordinator.



## Division Committee 2007

Name	Position and/or Responsibility
Mr Jim Brown FIEAust CPEng	President & Congress Rep
Mr John Phillips FIEAust CPEng	Past President & Congress Rep
Ms Lorie Jones FIEAust CPEng	Senior Vice President
Mr Ian Hutton MIEAust CPEng	Hon Treasurer
Ms Carol Jelley FIEAust CPEng	National Councillor
Mr Barry Tonkin FIEAust CPEng	National Councillor & Civil College
Mr Arun D'Souza FIEAust CPEng	Mechanical College
Mr Roger Kelson MIEAust CPEng	Chemical College
Mr Albert Koenig FIEAust CPEng	Electrical College
Mr Rob Rowbottam FIEAust CPEng	Structural College
Mr Bob Broadway FIEAust CPEng	ITEE College
Mr Ed Scull FIEAust CPEng	Biomedical College
Mr Andrew Dedman GradIEAust	Young Engineers WA
Ms Emma Fillery GradIEAust	Women In Engineering
Mr Ross Magno OFIEAust CEngO	Engineering Associates & Technologists
Mr John Ruprecht FIEAust CPEng	Committee Member
Prof Mark Bush FIEAust CPEng	Committee Member
Mr Paul Deuchar GradIEAust	Committee Member
Mr Barun Dutta FIEAust CPEng	Committee Member
Mr Rajendra Kurup FIEAust CPEng	Committee Member
Prof Tony Lucey FIEAust	Committee Member
Dr Leslie Pyke MIEAust CPEng	Committee Member
Mr John Stocco FIEAust CPEng	Committee Member
Mr Lindsay Tilly FIEAust CPEng	Committee Member
Mr David Todd FIEAust CPEng	Committee Member

## Division Profile and Governance

The WA Division has over 10000 members, including almost 4000 students, as of June 2007. About 10% of our members are women, and more than 40% are under 30 years of age. We have about 13% of the national membership.

The Division has a staff of 10, including part time people and our national assessor. We have approximately 400 active volunteers assisting with some 40 committees and technical units and groups.

The Division Committee, led by the Division President, governs the Division and reports to the National Council. The Division Committee is responsible for carrying out the objectives of Engineers Australia as set out in the Strategic Plan and Operational Plan.

Members of the Division Committee are invited to participate in one of the four subcommittees, set up to manage the different aspects of our Division activities.

The Executive Subcommittee, consisting of the Division President, Past President, Senior and Junior Vice Presidents and the Honorary Treasurer, oversees the day to day business of the Division.

In cooperation with the Division Director, the subcommittee is responsible for the strategic planning, financial management and effective running of the Division. Each member of the Executive Subcommittee has a liaison role with one of the four subcommittees.

These subcommittees, for Communications and Marketing, Education and Assessment, Engineering Practice and Public Policy, are involved in the planning and delivery of activities in their respective areas of responsibility. They report to the Division Committee.

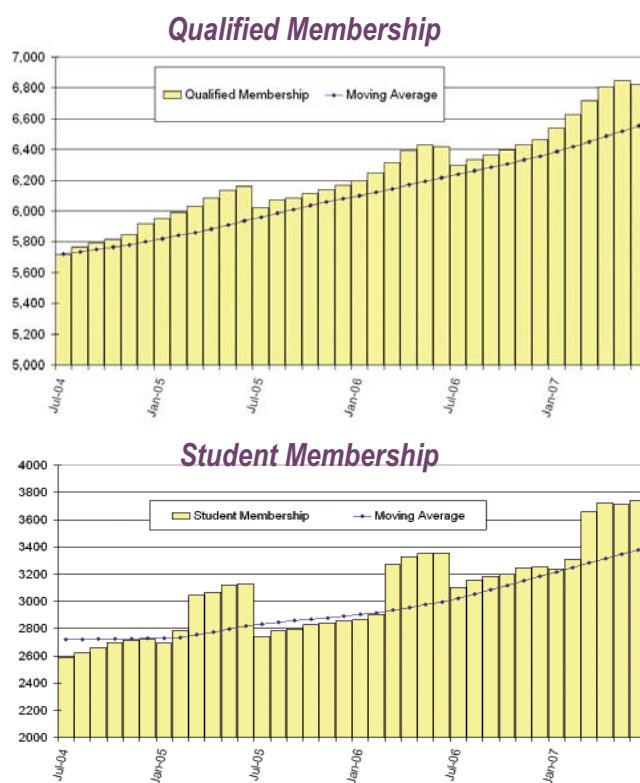
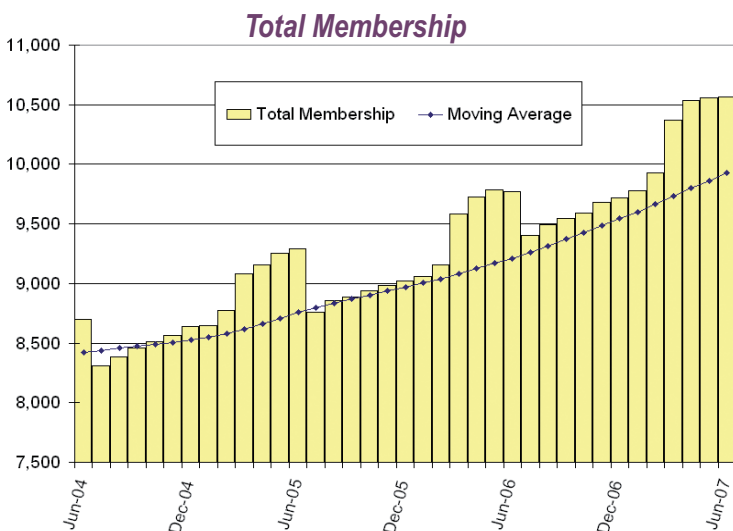
The make-up of the subcommittees includes members of the Division Committee, other invited members, staff who are responsible for the particular areas covered by the subcommittee and invited academic and industry representatives.

## Membership Statistics for the Financial Year

**Total Membership:** 7.8% Increase (moving average over 12 months – Qualified & Student Members)

**Qualified Membership:** 5.4% Increase (moving average over 12 months – all non-student members)

**Student Membership:** 12.8% Increase (moving average over 12 months – all student members)



## Qualified Membership Grade Comparison

Grade Financial Year Ending	HonFIAust	FIEAust CPEng	MIEAust CPEng	OMIEAust CEngO	TMIEAust CEngT	FIEAust	MIEAust	OMIEAust	TMIEAust	GradIEAust	GradOIEAust	GradTIEAust
June 04	11	470	2752	9	10	30	699	103	28	1495	115	18
June 05	10	483	2713	12	9	33	882	128	29	1605	109	18
June 06	9	490	2702	13	9	37	982	191	36	1758	108	18
June 07	9	498	2691	15	10	39	1254	216	52	1892	100	17

## Financial Statement

### Engineers Australia WA Division

#### Statement of Financial Position

as at 30th June 2007

	30-Jun-07	30-Jun-06
	\$'000s	\$'000s
<b>CURRENT ASSETS</b>		
Cash Assets	1	40
Other Financial Assets	635	508
Other	3	29
<b>TOTAL CURRENT ASSETS</b>	<b>639</b>	<b>577</b>
<b>NON CURRENT ASSETS</b>		
Fixtures, Plant & Equipment	35	29
<b>TOTAL NON CURRENT ASSETS</b>	<b>35</b>	<b>29</b>
<b>TOTAL ASSETS</b>	<b>674</b>	<b>606</b>
<b>CURRENT LIABILITIES</b>		
Provisions	222	177
<b>TOTAL CURRENT LIABILITIES</b>	<b>222</b>	<b>177</b>
<b>NON CURRENT LIABILITIES</b>		
Provisions	19	4
<b>TOTAL NON CURRENT LIABILITIES</b>	<b>19</b>	<b>4</b>
<b>TOTAL LIABILITIES</b>	<b>241</b>	<b>181</b>
<b>NET ASSETS</b>	<b>433</b>	<b>425</b>
<b>MEMBERS FUNDS</b>		
TIF funds	256	199
Reserves	177	226
<b>TOTAL MEMBER FUNDS</b>	<b>433</b>	<b>425</b>

### Engineers Australia WA Division

#### Statement of Financial Performance

for the Year Ended 30th June 2007

	2006/7	2005/6
	\$'000s	\$'000s
<b>REVENUE FROM ORDINARY ACTIVITIES</b>		
Division Allocation	684	664
1. Public Role & Professional Standing	248	199
2. An Inclusive Professional Team	45	38
3. Youth Appeal	80	5
4. Chartered Status	13	0
5. Continuing Professional Development	223	178
6. International Reach & Influence	0	0
7. Internal Communications	5	6
8. A Capable Organisation	88	68
<b>Total Revenue from Ordinary Activities</b>	<b>1386</b>	<b>1158</b>
<b>EXPENSES FROM ORDINARY ACTIVITIES</b>		
Division Allocation	0	0
1. Public Role & Professional Standing	501	427
2. An Inclusive Professional Team	119	121
3. Youth Appeal	104	46
4. Chartered Status	34	19
5. Continuing Professional Development	329	295
6. International Reach & Influence	0	0
7. Internal Communications	131	118
8. A Capable Organisation	160	103
<b>Total Expenses from Ordinary Activities</b>	<b>1378</b>	<b>1129</b>
Net (deficit) from ordinary activities	(49)	(1)
TIF fund Adjustment	57	30
<b>Total changes in members funds</b>	<b>8</b>	<b>29</b>

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