

ENGINEERS AUSTRALIA WESTERN AUSTRALIA DIVISION



ENGINEERS
AUSTRALIA
Western Australia
Division

Engineers Australia
Western Australia Division

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2004 Annual Report

OUR VISION

To be the widely respected leader in promoting innovation and advancing engineering excellence for a sustainable future in Western Australia.

OUR MISSION

To empower our members to build their careers, to facilitate industry development and cooperation, and to represent and promote the engineering profession for everyone's benefit.

OUR OBJECTIVES

- To communicate the value of EA membership to potential and current WA members.
- To provide members a quality program of Professional Development activities (CPD) catering to the full range of member classifications, disciplines and geographic locations, and reflective of College CPD priorities and local issues.
- To improve the standing and uptake of Chartered Status and of the Professional Development Program (PDP) in WA.
- To consolidate the position of EA as the key and respected voice of the engineering profession in WA.
- To develop a more favourable public and youth disposition in WA to the engineering profession and engineering careers through a campaign to take engineering "out of the back room".
- To provide better management and delivery of core services from resources employed.
- To develop closer partnerships with government, the industry, the media, educators and other sectors, so as better achieve our various objectives.
- To facilitate active voluntary technical and country units, in order to deliver the CPD program and to enhance industry networking and development.

FOREWORD

This annual report provides a snapshot of activities and outcomes for the calendar year 2004. It also contains the financial statements for the financial year 2003/04.

This report is designed to meet the obligations of the Division Committee to report to the 85th Annual General Meeting of the Division, on 15th February 2005.

It is noted that with the progressive alignment of practices across Engineers Australia nationally, the next Division annual report will cover activities and finances for the financial year 2003/04. It will be presented at the 86th Annual General Meeting of the Division in November 2005, and will report against the WA Division Operational Plan 2004/05.

DIVISION DIRECTOR'S REPORT



This report summarises key outcomes for the Division for the calendar year 2004. Performance measures are provided where possible.

The Division's first Strategic and Operational Plan was launched in June, for the year

2004/05. The next Division Annual Report will report against that Plan. For the purposes of this report, outcomes have simply been categorised under the five national operational areas.

MARKETING & COMMUNICATION

In the 12 months to December 2004, total WA membership increased by 3.8% to 8566. Qualified (non-student) membership increased by 2.8% to 5848. Chartered numbers dropped 4.0% to 3117, or 53% of the qualified membership. Student membership increased 5.8% to 2696.

Engineering Week was the most successful the Division has ever held, with a total participation of 2576, up 45% from 2003. Key outcomes included an acclaimed 32-page colour liftout supplement in the West Australian newspaper (60% larger than in 2003), and a record attendance of 670 to the Excellence Awards Dinner (up 35%). WA held the largest 2004 Divisional Awards Dinner in the country (4th largest in 2003). Excellence Awards entry numbers were up 50% from 2003, and an entrant survey indicated high levels of satisfaction with the administration.

3300 school students participated in the Division's four school programs, up 175% from 2003. The new national program EngQuest was very successfully launched in WA in 2004, and engaged 1000 students

in 43 schools in term-long engineering team projects and competitions. A customer survey indicated high levels of satisfaction and impact.

Substantial exposure for the profession was achieved through WA Business News (including a four-page feature) by hosting a senior journalist on a "Weekend in the Burrup" tour. In another successful new media partnership, Young Engineers Australia (YEA) representatives appeared on prime-time TV on Telethon night, having raised funds through some of their activities.

Other activities of the WA chapter of YEA included the Careers Expo, at which over 600 students and 43 employer organisations participated. There were 350 participants in the YEA sports day, and a variety of presentations, sundowners, a charity quiz night and campus activities.

EDUCATION & ASSESSMENT

71 Professional Interviews of candidates for Chartered status were conducted in 2004 (up 69% from 2003). Of these, 68 candidates were successful. 394 people attended Chartered Status workshops in Perth and country areas in 2004 (down 36% from 2003).

At the end of 2004, 23 WA companies were signatories to the Professional Development Program (PDP), a 65% increase from 2003. 56 companies were visited and presentations were given to numerous staff groups. A PDP forum presentation was conducted for employers, for the first time in WA. Half-day mentor workshops were conducted for the first time, in a WA initiative for national roll-out.

Membership processing and the engagement of Professional Interviewers was substantially streamlined in 2004, through process redesign. Surveys of recent WA Chartered Status Workshop participants and new Chartered members were

conducted for guidance.

ENGINEERING PRACTICE

Over 20,000 CPD (Continuing Professional Development) hours were delivered by the Division in 2004 (up 35% from 2003), through a total of nearly 300 presentations, conferences, workshops and meetings. 16 fee-paying mini-conferences or seminars were conducted in 2004 (up from 11 in 2003). CPD reporting processes were improved, and a seminar/conference approval process was introduced to better manage event risk.

Highlight technical events for 2004 included an inaugural Comm-IT 1-day Conference and 2-day Expo at the Perth Convention Centre. This launched a viable annual event for WA and founded new strategic partnerships. 136 attended the conference with around 5000 through the Expo.

The inaugural National Salinity Conference at the Burswood International Resort was a great success, attracting 300 delegates.

Another highlight was a presentation by visiting sustainability advocate Hunter Lovins from the USA, attended by 385 people. This became our flagship event of the Year of the Built Environment in WA.

The Centre of Engineering Leadership and Management continued to be the most active chapter in the country. Keynote speakers included governance guru Henry Bosch AO, Woodside Acting CEO Keith Spence and WA Chief Justice David Malcolm AC.

The WA Division's Women in Engineering chapter is likewise the most active in the country, and had its biggest year yet in 2004. A highlight was the launch of an acclaimed Skills Development 1-day Workshop, and its development into a national road show.

Our country groups were also active in 2004. A highlight was the innovative "Weekend in the Burrup" event of the Dampier Group, with briefings and tours of major projects and a members' Dinner with the National and Division Presidents.

PUBLIC POLICY & REPRESENTATION

The Division puts a limited resource into public policy at present, but it is planned that this be increased in the coming year.

In 2004, Division representatives participated in a two-day State Sustainability Strategy workshop of the State Government, with the Division President acting as a facilitator. The Division made submissions on a number of other government policy documents.

DIVISION PROFILE AND GOVERNANCE

The Division comprises around 8500 members, staff numbers of 8.4FTE (full time equivalent), and an estimated 400 active volunteers sitting on 45 committees or technical groups.

The Division is governed by a Division Committee, which reports to the national Council of Engineers Australia. The Division Committee is responsible for carrying out the objects of Engineers Australia within the state of Western Australia, according to the By-laws, Division Rules and directions of the national Council.

These included the draft State Communications Policy, in which the ITEE partnered with a variety of other key stakeholder groups.

The Transport Panel conducted forum meetings with the state Ministers for Transport and for Planning and Infrastructure. Around 300 attended a half-day public forum organised with 6 other associations to critique the WA Government's Network City planning strategy.

GOVERNANCE & EXECUTIVE

A new governance structure for the Division Committee and subcommittees was developed and is to be adopted for a 12-month trial through 2005. This is designed to improve the governance of the Division, to more effectively engage and empower volunteer office bearers, and to align with the national

operational structure.

The Division's first Strategic and Operational Plan was developed, and various new systems for monitoring and analysing outputs were developed. Division representatives participated in a one-day national strategic planning workshop.

A staff performance review and goal setting process, and a staff training plan were introduced in 2004. An external benchmarking review was conducted for staff salaries and employment conditions. Staff turnover was half that in 2003.

The Division's computer equipment was upgraded in 2004, and some minor building improvements were made.

*Rupert Grayston FIEAust CPEng
WA Division Director*

The Board of Management is appointed by and reports to, the Division Committee. It oversees the day to day business of the Division, and is responsible for strategic planning, financial management and for the effectiveness of Division operations.

There are six other subcommittees of the Division Committee, assigned to various operational areas, and reporting to the Division Committee.

There are in addition, eight country group committees and 29 technical or special interest committees. These include branches of national Colleges and Societies.

These Division units require the endorsement of, and are answerable to, the Division Committee.

In 2005 the Division Committee will conduct a 12-month trial of a revised governance structure. This structure provides each Division Committee member with a role and a place in one or more subcommittees. It reduces the number of subcommittees from seven to five, and aligns these with the five national operational areas and with the 2004/05 Division Operational Plan. The Division Committee will evaluate this trial in late 2005.

DIVISION COMMITTEE 2004

Chairperson & President	Dr Steve Algie FIEAust CPEng
Past President	Carol Jelley FIEAust CPEng
Senior Vice President	Steve Hannah FIEAust CPEng
Junior Vice President	John Ruprecht FIEAust CPEng
Hon Treasurer	John Stocco FIEAust CPEng
Committee Member	Stephen Robertson FIEAust CPEng
Committee Member	Prof Mark Bush FIEAust CPEng
Committee Member	Dr Colin McIvor FIEAust CPEng
Committee Member	Kim Greenock TMIEAust CPEng
Committee Member	Rajendra Kurup MIEAust CPEng
Women In Engineering Representative	Bev Corless FIEAust CPEng
Biomedical College Representative	Ed Scull FIEAust CPEng
Chemical College Representative	Laurie Barlow FIEAust CPEng
Civil College Representative	Barry Tonkin MIEAust CPEng
Electrical College Representative	Albert Koenig FIEAust CPEng
ITEE College Representative	Michael Kyriacou MIEAust
Mechanical College Representative	Arun D'Souza MIEAust CPEng
Structural College Representative	Les Wanke FIEAust CPEng
Environmental College Representative	Lorie Jones FIEAust CPEng
Engineering Associates Australia	Rob Williamson OFIEAust CEngO
Congress Member	Steve Hannah FIEAust CPEng
Congress Member	Russell Candy FIEAust CPEng

The Engineering Week colour liftout supplement in the West Australian newspaper comprised a record 32 pages, up 60% on 2003. This is reportedly the biggest supplement the West has ever done on any subject, with the size being a function of advertising sales. The West reported an unprecedented 95% success rate with prospective advertisers, resultant from the Division's clearly communicated objectives and quality of content.



FINANCIAL STATEMENTS

Total Division revenue was \$1095,000, or 10% above budget. Total expenses were \$1096 000, also 10% above budget. This largely arose from a doubling of the planned activity rate in paid seminars and major events.

At the end of June 2004 the Division's final financial position was \$4,000 in surplus, or 0.4% of budget. This was well within the target envelope of 1% of budget. It should be noted that as a not-for-profit organisation, Engineers Australia is expected to convert funds to member services, and not to retain profits.

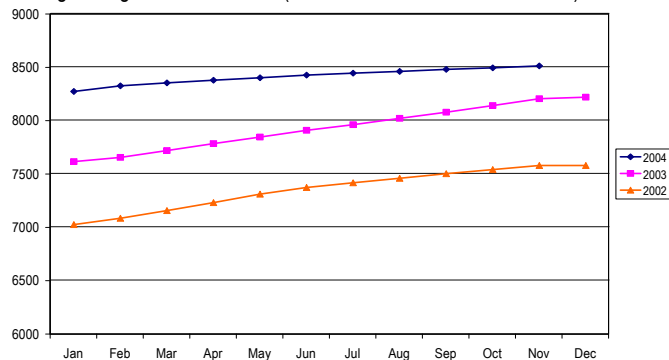
In interpreting the balance sheet, it should be noted that land and buildings are treated as national assets, and appear on the national balance sheet.

Engineering Practice revenue and expenses have risen this year, due to an increased output in fee paying mini conferences/seminars. The Engineering Excellence Awards have been relocated nationally under "Marketing & Assessment" rather than "Public Policy & Representation" this year, resulting in a major distortion to revenue and expenses for both account areas.

*John Stocco FIEAust CPEng
Hon. Treasurer*

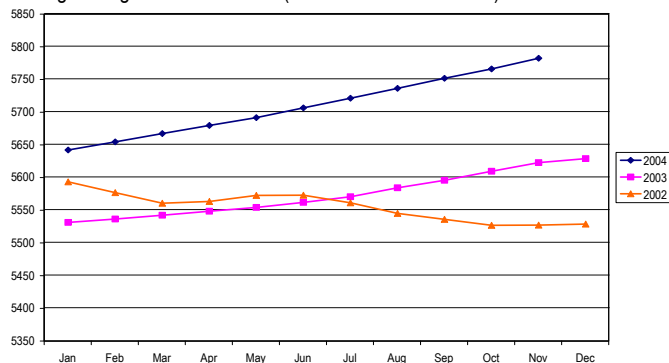
TOTAL MEMBERSHIP

Moving Average Over 12 Months (both Qualified & Student Members)



QUALIFIED MEMBERSHIP

Moving Average Over 12 Months (all non-student members)



MEMBERSHIP GRADES

WA 12 month average figures.

HonFIAust CPEng	11
FIEAust CPEng	497
MIEAust CPEng.....	2865
OMIEAust CEngO	7
TMIEAust CEngT.....	7
FIEAust.....	29
MIEAust.....	677
OMIEAust.....	93
TMIEAust.....	25

ENGINEERS AUSTRALIA WA DIVISION

STATEMENT OF FINANCIAL POSITION

AS AT 30 JUNE 2004

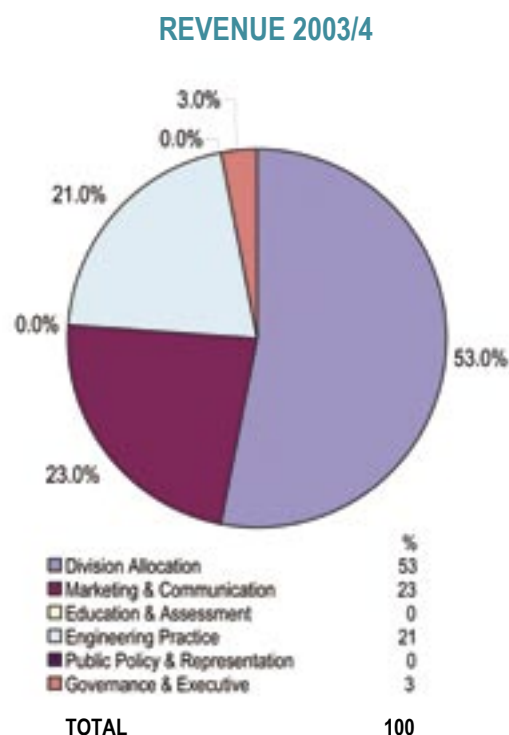
	2003/4 \$'000s	2003/2 \$'000s
CURRENT ASSETS		
Cash Assets	163	145
Receivables	44	16
Other financial assets	210	263
Inventories	1	1
Other	4	0
TOTAL CURRENT ASSETS	422	425
NON CURRENT ASSETS		
Other financial assets	0	0
Property, plant & equipment	20	23
TOTAL NON CURRENT ASSETS	20	23
TOTAL ASSETS	442	448
CURRENT LIABILITIES		
Payables	139	131
Interest bearing liabilities	0	0
Provisions	13	15
Other	63	65
TOTAL CURRENT LIABILITIES	215	211
NON CURRENT LIABILITIES		
Interest bearing liabilities	0	0
Provisions	5	19
TOTAL NON CURRENT LIABILITIES	5	19
TOTAL LIABILITIES	220	230
NET ASSETS	222	218
MEMBERS' FUNDS		
Reserves	0	0
Retained surplus	222	218
TOTAL MEMBERS' FUNDS	222	218

ENGINEERS AUSTRALIA WA DIVISION
STATEMENT OF FINANCIAL PERFORMANCE
FOR THE YEAR ENDED 30 JUNE 2004

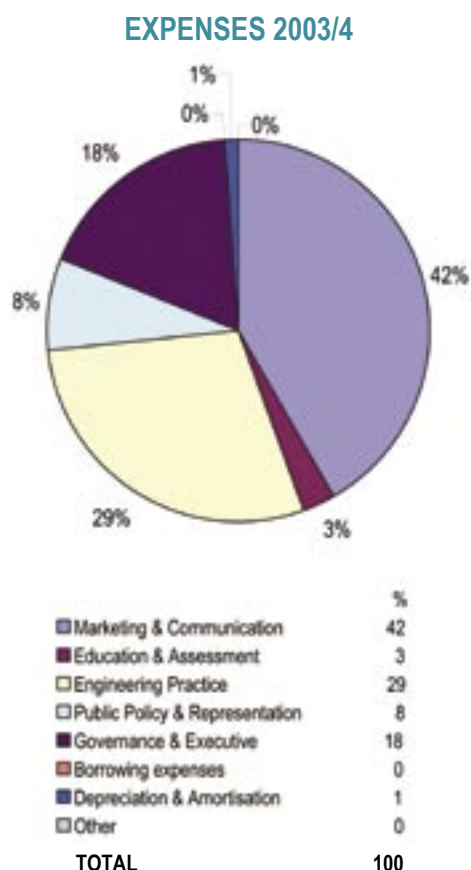
The following information has been extracted from the financial statement for the year ended 30 June 2004, which has been audited by Hall Chadwick, Chartered Accountants, Level 41 BankWest Tower, 108 St Georges Terrace, Perth.

Any member can view a copy of the audited financial statement being submitted to the Annual General Meeting of the WA Division on 15 February 2005 by contacting the Division Director at the Division Office.

	2003/4 \$'000s	2003/2 \$'000s
REVENUE FROM ORDINARY ACTIVITIES		
Operating activities		
Division allocation income	580	568
	580	568
Marketing & Communication	250	186
Education & Assessment	0	0
Engineering Practice	215	27
Public Policy & Representation	1	87
Governance & Executive	33	48
	1,079	916
Non-operating activities	20	22
Total revenue from ordinary activities	1,099	938



EXPENSES FROM ORDINARY ACTIVITIES		
Operating Activities		
Marketing & Communication	456	281
Education & Assessment	37	66
Engineering Practice	317	132
Public Policy & Representation	83	262
Governance & Executive	192	175
Borrowing expenses	0	0
Depreciation & amortisation expenses	8	5
Other	2	0
Total expenses from ordinary activities	1,095	921
Net surplus from ordinary activities	4	17
Increase/(decrease) in asset revaluation reserve	0	0
Total changes in members' funds	4	17



PRESIDENT'S ADDRESS 2004



In my opening column 11 months ago, I professed an ambition to help get engineering "out of the back room". In closing my year of Presidency, and reflecting upon how we have done, I can report feeling great satisfaction and pride from the Division's achievements

in 2004, the Year of the Built Environment.

Rupert has reported on measurable outputs. I will focus on my subjective impression of the quality and value of the outcomes we have achieved.

Early in 2004 I attended the Young Engineers' Careers Expo and spoke to students who were meeting prospective employers for the first time. This is a thoroughly worthwhile event, providing a valuable service to both parties and raising our profile with future members. I have met many young engineers during the year, and have been impressed with the enthusiasm of our YEA Chapter, and of the wide net it casts. I regard YEA as a key element of strategy for converting students into Chartered members, and see our future in good hands.

I attended a number of excellent Centre for Engineering Leadership and Management presentations in 2004; these attracted large and diverse audiences ranging from young engineers to the leaders of our profession. CELM is doing a great job of broadening our relevance and retaining members.

The Division technical program continues to go from strength to strength. In the past year the Division has pursued various new ways to help volunteer groups to produce CPD outcomes, and is seeking further

improvement opportunities. I would like to single out The National Salinity Conference as a good example of what we do best. It brought together international experts, government, the community and our profession, to progress the knowledge in a complex area for everybody's benefit, and raised our profile in the process.

I enjoyed the hospitality of a number of our Country Groups during the year, including some marvelous members' dinners, and some unforgettable field visits. We are very conscious of the need to give strong support to these groups, as they are the key to retaining regional members. They have, in particular, asked for help in arranging for visiting speakers. The Division has responded this year with an eminent speaker search service resulting in a series of speakers visiting country areas. You will see within this newsletter that there is more of this to come in 2005.

I took a close interest in the planning of our school programs in 2004 and was privileged to visit three Pilbara schools that participated in EngQuest. This is a very effective program, inspiring the next generation of engineers, and the feedback we received is a credit to the Division. The opportunities for worthy future school programs are boundless; our challenge is to keep a tight focus and to use our available resources to best effect.

Our Engineering Week was a great success, with clear and well-developed public messages. We have analysed the impacts of the various activities and will again modify the line-up and details of events in 2005. Engineering Week accounts for considerable Division resources, but I believe that we are getting a good return.

The Engineering Excellence Awards are likewise

resource-hungry, but are the flagship activity of our year, and the keystone of Engineering Week. Our WA Awards program has a strong history of professional conduct and high profile and this legacy has been continued in 2004. This year for the first time we overtook the larger Divisions to hold the largest Divisional Awards Dinner in the country.

I was particularly encouraged by the growth of the Professional Development Program in WA in 2004, and by the employers' forum and the mentoring workshops that were introduced. Already we are seeing an upward trend in Chartered Status applications in WA.

Finally, we have had some impact in the area of public policy this year in WA. I was pleased to be a facilitator for a two-day state government workshop for the State Sustainability Strategy, along with our visiting public speaker Hunter Lovins. We are still on an upward learning curve in the area of public policy, and are planning to extend ourselves in this area during 2005 and beyond.

So how have we done in 2004 in taking engineering out of the back room? With an increased media profile, an increased reach to school students, increased impact with Engineering Week and forays into public policy, I believe that we are on the way to seeing this ambition fulfilled. I am pleased to have helped to lay a strong foundation for the work that is yet to come.

The President's year is a busy one, but a rewarding one. I have appreciated the privilege of representing the Division in my Presidential year, and I have endeavoured to make a contribution to match. Congratulations and thank you to the dedicated Division staff, and to the many office bearers and volunteers who have donated their time through 2004. We can be proud of our achievements.



▲ At a CELM presentation by Keith Spence of Woodside, (l-r): Steve Algie, Keith Spence, CELM WA Chapter Chair John Phillips, sponsor Laurie Barlow of SNC-Lavalin Australia



◀ Meeting EngQuest entrants from Roebourne Primary School



◀ Visiting the Southern Transport Corridor project site in Geraldton. (l-r): Division Director Rupert Grayston, Mark O'Reilly of Thiess, Project Manager Peter Hopfmüller of Thiess, Steve Algie, Susan Algie, Midwest Country Group Chair Bob Stawarz of Maunsell and National Assessor John McLoughlin.

I would like to once again congratulate:

Winners of the 2003 University Medal Winners:

Russell Dumas Medal (UWA)	Gregory Cresp
John Renner Medal (ECU)	Sean Moore
IEAust/Murdoch University Medal	Shalin Koh
Digby Leach Medal (Curtin)	Sonella Saverimutto
Charles Warman Medal (WASM)	Phillipa Lilly
Harry Appleby Medal (TAFE)	Vincent Yongxiong Ye

Young Professional Engineer of the Year:

Brad Fuge from Coffey Geosciences

The winners of the 2004 Western Australia Engineering Excellence Awards:

Engineers Australia Award

Tati Hydrometallurgical Demonstration Plant (HDP)
Western Minerals Technology Pty Ltd

Category Winners

Resource Development

Area C Mine Development & the Products and Capacity Expansion (PACE) Project
• Mine and Port Developments Joint Venture
• Fluor Australia Pty Ltd
• Sinclair Knight Merz

Infrastructure and Building (2 joint winners)

Fast Track Iron Ore Area C Railroad
• Fluor Australia Pty Ltd

Australian Marine Complex (Jervoise Bay) On-site Fabrication Facility
• Bruechle Gilchrist and Evans Pty Ltd
• Department of Housing and Works
• Multiplex Construction Pty Ltd
• Wood and Grieve Engineers
• Vector Lifting

Products, Manufacturing and Control Systems

Cable Gate
• Matilda Products Limited

Environment

Subiaco Wastewater Treatment Plant Odour Control & Upgrade Process
• Water Corporation
• John Holland
• Burns and Roe Worley

Engineering for Regional Communities

Dalyellup Water Treatment Plant
• Environmental Solutions International
• Water Corporation of Western Australia

Management of Engineering

Lake Vasto – Rejuvenating Perth's Swan River Foreshore
• City of Perth
• GHD Pty Ltd
• Works Infrastructure Pty Ltd

International Projects and Exports

The Sawan Gas Field Development – Pakistan
• Clough Limited

Small Company Projects (2 joint winners)

Tati Hydrometallurgical Demonstration Plant Project
• Western Minerals Technology Pty Ltd

UWA Motorsport 2003
• UWA Motorsport

Civic Award Celebrating the Year of the Built Environment (Special Category)

The LotteryWest Federation Walkway, Kings Park WA
• Capital House Australasia

On a personal note, I would like to thank the staff of the WA Division for their wonderful and hardworking efforts throughout the year and I am sure all of you would join me in doing the same.

WA Division Staff include:

Rupert Grayston	Director
Fiona Thorniley	Office Manager
Julie-Ann Ivankovich	Technical Program Coordinator
Fran England	Membership Officer
Hormuzd Cooper	Communications Co-ordinator
Lowanna Singleton	Customer Service/ Admin Officer
Alexandra Sparvell	Finance & Media Manager
Janice Lake	National Industry Consultant
John McLoughlin	National Assessor WA
Beatriz Clark	EngQuest Coordinator

*Dr Steve Algie
WA Division President
2004*

► *Tearing up the dance floor at the Engineering Excellence Awards Dinner with wife Susan.*



▼ *Admiring one of Pilbara Iron's big toys on the "Weekend in the Burrup" tour with the National President Doug Jones (6th from right) and other delegates who flew from Perth. About 35 locals also joined the tour.*



► *The President with new Fellows at the Fellows' Dinner (l-r): Steve Mackay, Prof Syed Islam, Doug Aberle, Rob Williamson, Graeme Mitchell, Dr Steve Algie, Don Phillips, Stephen Logan, Thomas Abbott and Charles Milazzo.*



◄ *Presenting Brad Fuge from Coffey Geosciences, with the 2004 Young Professional Engineer of the Year Award.*



Engineers Australia came of age in the IT-Comms sector with the inaugural Comm-IT 1-day Conference and 2-day Expo at the Perth Convention Centre. This launched a viable annual event for WA and a new partnership with ATUG (Aust Telecomm Users Group), the Department of Industry and Resources, and Swan Exhibitions (the expo organisers). 136 attended the conference with around 5000 through the Expo. (l-r): Walter Green, Colin Gilbert, Minister Clive Brown MLA, Beth MacKenzie, Michael Kyriacou



There were over 2500 participants in 2004 Engineering Week activities, an increase of 45%, and making WA's Week the largest in the country.



1000 WA children from 43 schools worked through second term on engineering group projects, in the Division's inaugural year of the EngQuest program. There are plans to build on this success in 2005.



A record 670 people (up 35%) attended the 2004 WA Engineering Excellence Awards Dinner at the new Perth Convention Centre. This was the largest Divisional Awards Dinner in the country.



600 members and their families were given an opportunity to participate in Engineering Week through the members' family evening at SciTech Discovery Centre.



The Division's various schools programs reached a total of 3300 students in 2004, up from 1200 in 2003.



2004 was a big year for new partnerships with other organisations. The Engineering Week Lunch for 294 people (up 40%) was a joint event with ACEA, involved speakers from other kindred organizations, and raised money for RedR (Registered Engineers for Disaster Relief). (l-r): ACEA WA President 2005 Matt Davis; speaker Tim Shanahan, CEO, Chamber of Minerals and Energy; speaker Greg Martin, Director General Dept of Planning and Infrastructure; speaker Nicky Cusworth, Chief Economist, Chamber of Commerce & Industry of WA; sponsor Chris Chalwell of Skilled; and Division President 2004 Dr Steve Algie.