



Police Graduates win top posts

Two graduates of Chisholm's Police Studies course have been promoted to high ranking positions in the Victorian Police force following a reorganisation of their senior management team.

Mr Brendan Crimmins (44) was promoted to Assistant Commissioner (Personnel and Training) and Mr Carl Mengler (51) was promoted to Assistant Commissioner (Internal Investigations). Their promotions follow the announcement of the impending retirement of Chief Commissioner Mick Miller.

Both men studied for the Associate Diploma in Police Studies at Chisholm 10 years ago and were among the foundation group of students.

Former Police Studies course leader, Mr Jim Reilly, commented that both men even then showed outstanding potential. 'It came as no surprise to me



Above, (from left to right), Mr Brendan Crimmins, Assistant Commissioner (Personnel and Training); Mr Carl Mengler, Assistant Commissioner (Internal Investigations); Mr Jim Reilly, former course leader and Chief Commissioner, Mick Miller.

that they have reached such high positions in the force.'

Both were highly motivated to further their qualifications and at the time Chisholm's was the only Police Studies course available. 'You tend to become too insular in the Police force,' said Mr Mengler. 'Courses like this really broaden the mind'.

Mr Reilly commented that the traditional areas of study pursued by police officers has changed over the years. police are now encouraged to study in other relevant areas, not just law.

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DEADLINE FOR FIRST 1988 EDITION—FEBRUARY 1

Contributions to Public Relations, extn. 2099 or 2311.

Institute Holidays

The Institute will close at 12.30 pm on Thursday 24 December 1987 and re-open on Monday 4 January 1988.

NEWS

Management study identifies training needs

Management lecturer, Leah Spatz, recently completed a study identifying the training needs of middle managers and supervisors.

With David Syme Business School colleagues Joan McPhee, on secondment to the Metal Trades Industry Association, and June Gleeson, on secondment to the Western Institute, Ms Spatz's study looks at managers needs in relation to employee participation in productivity improvement and occupational health and safety programs in the metal and engineering industry.

The study surveyed 47 firms who had said in a 1984 Metal Trades Industry Association study, that they operated employee participation schemes.

The study concluded that middle managers and supervisors needed a clear understanding of company goals and objectives; knowledge of participative management skills; interactive skills; and the ability to delegate authority and accept responsibility of decision-making.

It found that effective training needs to be practical, ongoing and company specific.

The project was funded by the Department of Industrial Relations under the employee participation research grants scheme.

Copies of the study are available from Leah Spatz, extn. 2057. The paper should soon be published as a monograph by the Federal Government.

Merger Rumours Cause Rethink

The Director, Dr Vaughan, has asked staff for their views on future directions for Chisholm, in the light of rumours that major mergers may occur between tertiary institutions.

Following advice from the Chairman of VPSEC, Dr Cullen, that he would like to see six institutions coordinating tertiary education in Victoria, and that a discussion paper would include

the concept of a University of Technology formed by amalgamating Chisholm and Swinburne, Dr Vaughan said that he would like to consider all options for Chisholm.

He said that we should consider partnerships with other institutions if there are advantages in so doing. Staff wishing to comment should pass their views through their Deans or Associate Directors before Christmas to enable a paper to be prepared for Council.

News in Brief

Sydney Accomodation Low cost accomodation is available for men at the Warrane College until 21 February 1988. Warrane is located just 20 minutes from the Sydney's centre and offers comfortable accommodation. Enquiries can be made to David Curran or Gerrard Fogarty on (02) 662 6199.

Macarthur Institute moves During November the administration of the Macarthur Institute was re-located to the Campbelltown Campus. The new postal address is PO Box 555, Campbelltown, NSW, 2560. Telephone numbers are as follows: Switchboard - (046) 203100, Facsimile - (046) 284899.

President's Christmas Parties for Staff

The President of Council, Dr Lionel Ward, will host staff Christmas parties to thank members of staff for their contribution to the Institute during 1987.

Functions will be held on the Frankston campus at 4.30 pm on Friday 11 December and on the Caulfield campus on Monday 14 December.

Dr Ward will be taking the opportunity to present the 25 year awards to present and previous members of staff who have made a contribution to Chisholm for a quarter of a century or more.

Women in Chisholm

Women in Chisholm (WICH), a group representing all women staff and students, was formalised on November 10.

The group aims to actively promote the interests of women at Chisholm by providing an opportunity for women from all areas to meet and work together.

Several areas of interest will be pursued by working parties, including career development; school holiday programs for primary children; a program committee and orientation for new staff.

WICH provides an opportunity for women to support each other, to discuss issues of importance and meet in a friendly way.

An opening function will be held on 10 December, 12.30-2 pm at the Staff Club, Caulfield campus. The cost of \$5 covers a smorgasboard luncheon. Further details from Leah Spatz, extn. 2057 or Lynne Newman, extn. 2068.

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NEWS

Caroline Chisholm Academic and General Staff Awards presented

The Caroline Chisholm Staff Awards were presented to eight Institute staff recently.

The Awards are the result of Council moves to acknowledge and encourage outstanding contributions to the work of Chisholm, and were made to both academic and general staff.

The Academic Staff Awards went to Dr Brian Costar, a lecturer in the Politics Department; Dr Charles Don, a senior lecturer in the Division of Mathematical and Environmental Sciences who joined Chisholm in July 1976, and gained his doctorate from Monash University in 1972; Mrs Pearl Levin, a senior lecturer in the Division of Information Technology; and Mr Paul Voumard, a senior lecturer in the Division of Engineering and Industrial Technology.

The General Staff Awards were made to Ms Joan Ciastkowski, the Executive Officer to the Director of Chisholm, currently under contract to the Centre for the Development of Entrepreneurs; Ms Sue Phillips, the School Administrative Officer of the

School of Education; Mr Paul Rodan, the Academic Secretary of the Institute, currently under contract as a lecturer in the School of Social and Behavioural Studies; and Ms Eileen Wilson, the Assistant Staff Officer of the Institute.



Caroline Chisholm was an early 'Feminist' says historian

Caroline Chisholm was the forerunner of the tradition of Australian women's political activism, said Dr Patricia Grimshaw in giving the inaugural Caroline Chisholm Oration at Chisholm's new multi-purpose hall on 26 November.

Dr Grimshaw is a Senior Lecturer in History at the University of Melbourne, and is a noted historian whose expertise focuses on Australian society and women. She went on to say that Caroline Chisholm devoted herself to improving the lot of women, a goal which, given the world as she found it, she achieved.

Dr Grimshaw's talk covered Caroline Chisholm's life and activities in the New South Wales of the early nineteenth century and in England at the end of her life. She analysed the attention given to Mrs Chisholm by historians, concluding that Mrs Chisholm's

interests coincided with those of modern historians: immigration of the "right sort" of people to Australia, etc., and that she provides mainstream historians with the opportunity to cover the life of one woman within the estab-



lished, male, patterns. However the same attention has not been given to later female political activists.

Dr Grimshaw concluded that Mrs Chisholm was not a conservative but a reformer, despite her

similarity of views to modern conservatives. In 1853, Punch called her 'a second Moses in a bonnet and a shawl'. Dr Grimshaw said Caroline Chisholm was a redoubtable woman, whose gifts for practical, pragmatic initiatives achieved much for women in her time.

Dr Grimshaw is the author of a number of historical and general works, including *Women's Suffrage in New Zealand*, and co-edited *The Half Open Door, Australian Women — Feminist Perspectives*, and *Families in Colonial Australia*. She has taught women's history within the area of American history and women's history at the University for the past nine years. Dr Grimshaw is also active in women's issues at the University and elsewhere. She addressed Chisholm staff earlier this year on feminist history in Australia.

NEWS

Chisholm's Solar Cat places sixth in Solar Challenge race

The only entry in the Pentax World Solar Challenge race from Darwin to Adelaide from Melbourne, Chisholm's Solar Cat placed sixth, closely behind the Darwin Institute vehicle, which won line honours in the educational category.

Ahead of them were the GM Sunraycer, reputed to have cost \$US5 million, the Ford Australia entry, the Biel entry from Switzerland and the Dick Smith entry. Australian vehicles took four of the six top places in a field of 23. At the time of publication, several vehicles were still on route, and nine had dropped out of the race.

The Solar Vehicle project used the talents of staff and students to design and build a radically different vehicle. More than 50 Mechanical, Electrical and Industrial Engineering students were involved in this project over the last two years. In addition, a number of other departments at the Institute contributed, including Graphic Design, Chemistry and Psychology.

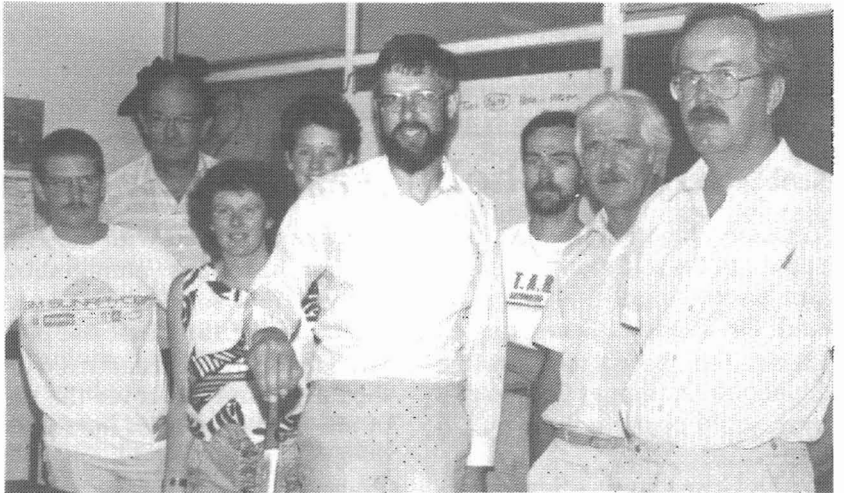
The project presented a challenge to produce an unusual and efficient vehicle and at the same time exposed students to real world engineering exercises. Mechanical and Electrical students were mainly involved in research and development, designing to criteria of performance, reliability, safety and aesthetics and they constructed a vehicle which was competitive against the best in the world. The Industrial Engineering students contributed to project organisation, crew and driver training, publicity and sponsorship.

Fire in the Truck

On the return trip from Adelaide, a battery fell against a petrol tin,



ABOVE—the *Desert Cat* in action. BELOW LEFT—the crew and team celebrate the end of two year's work after the race.



and there was a fire in the truck, which was not discovered until it was opened in Melbourne. Team Leader Paul Wellington of Mechanical Engineering said that he thought there was insufficient air in the truck to sustain the fire, and that this had saved the vehicle. Even so, there was some scorching of the tail section.

A Catamaran without Sails

Chisholm's entry looked to its designers like a catamaran without the sails and was thus dubbed the '*Desert Cat*'. The catamaran design was developed to give

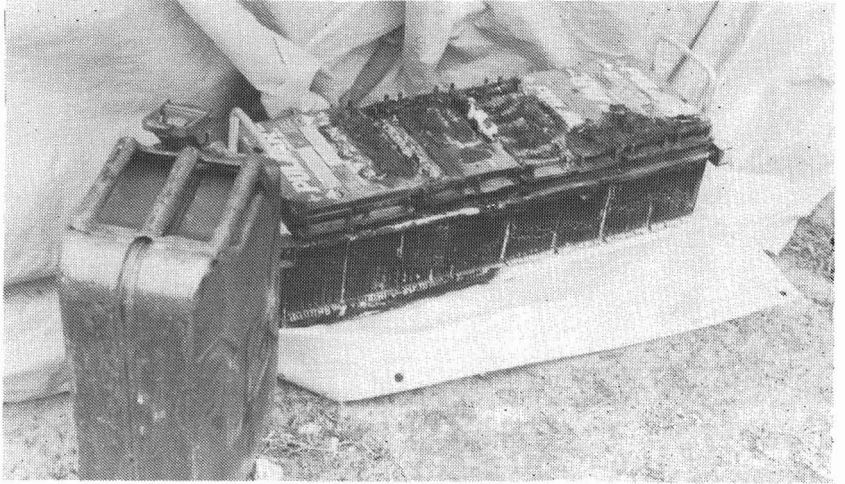
both low aerodynamic drag and good aerodynamic stability. The winds from passing vehicles could easily lift a solar panel and cause the vehicle to overturn. To overcome this, an asymmetric body design with the body on the right hand edge of the panel was chosen. The full scale catamaran design was then developed, using wind tunnel modelling in Chisholm and RMIT's tunnels. The optimum design required the body under the solar panel to have straight, vertical sides, which was perfect for the body material selected - a fibreglass

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aced aluminium honeycomb composite panel donated by Ciba Geigy. This gave excellent strength and stiffness while keeping the weight down.

The catamaran design offered Chisholm the possibility of covering not only the top panel but also the sides of the vehicle with cells. Hoxan, a Japanese manufacturer of solar cells donated \$30,000 worth of cells to the team. This design ensured a comparatively even power input over the day with the side cells providing a high percentage of the total power early morning and late afternoon.

Other major sponsors included the Victorian Solar Energy Commission who donated \$15,000, Earth Computer Systems, who donated a \$10,000 Australian-made computer, and the Greater Shepparton Development Council, who arranged to transport the vehicle to Darwin



ABOVE—the burnt out batteries and the offending jerry can that were almost the cause of disaster.

BELOW—the Director and some of the vehicle's major sponsors at the launch dinner.



and back from Adelaide. There were a number of minor sponsors as well.

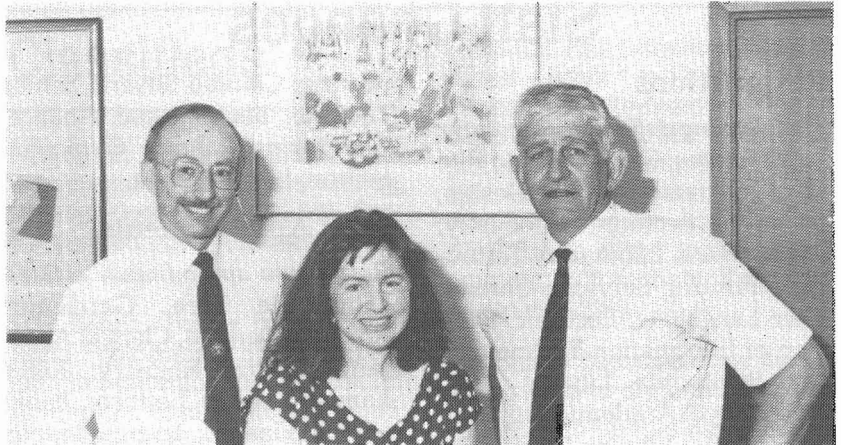
ARGS grants

Chisholm researchers have been successful in gaining three Australian Research Grants Scheme (ARGS) grants for 1988: Dr David Hewitt and Mr Kevin Chynoweth, \$5,000 for a project entitled 'Thermal and Photochemical Reactions of PVC Model Compounds'; Dr Barry Hart and Dr Ron Beckett, \$15,000 for a project entitled 'Characterisation and Behaviour of Suspended Particulate Material in Fluvial and Estuarine Systems'; and Dr Charles Don and Mr Andrew Cramond, \$22,405 for a project entitled 'Reflection and Propagation of Impulsive Noise'.

Staff on Council

Staff are reminded that nominations will be called in February to elect one academic and one general staff member to Council. Notices will be distributed early in February.

Gift to RMIT for Centenary



The Director of Chisholm, Dr Geoff Vaughan (left) is pictured with the Director of RMIT, Dr Brian Smith, in front of a print contributed to RMIT by artist Michele Kilroy, who completed her Bachelor of Arts (Fine Art) at Chisholm this year. The print was a gift from Chisholm, Swinburne and Victoria College to commemorate RMIT's Centenary during 1987.

The *Gazette* incorrectly reported the name of a Visiting Fellow in the Chemistry Department as Yilgor Iskender; it is in fact Iskender Yilgor. Also, some text was

missing from the end of the article. The *Gazette* regrets any embarrassment this may have caused the Department or Dr Yilgor.

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Farewell to Edna

Mrs Edna Baxter, Secretary to the Dean of the School of Social and Behavioural Studies retired from the Institute on Friday 20 November after 17 years service. In her time at Chisholm she has worked for the Buildings and Finance Offices and for the Directorate as Secretary to the then Deputy Director.

She helped many younger staff to find their feet in the Institute and had enjoyed a long and active association with the Institute of Private Secretaries of which she has been a Registrar and is a Fellow.

In a busy career in which she managed to fit raising two daughters, Edna has seen and coped with the introduction of electronic typewriters and word-processors and is looking forward to mastering a personal computer in her retirement, alongside work for church groups and spending more time with her husband and grandchildren.

Edna said she has enjoyed her time at Chisholm and her abundant warmth, goodwill and energy were acknowledged by the large gathering of Chisholm friends at her recent farewell.

Staff Changes

Resignations

The following staff resigned recently: Mark Forbes, Supply Clerk; Rita Hesse, Secretary, Art and Design; A Finch, Lecturer, Chemistry; Debra Evans, Laboratory Technician, Printing Services; Christopher Langshaw, Lecturer, Division of Information Technology; M L Bevilacqua, Library Clerk; Helen Boyd, Academic Registrar; T L Collins, Library Clerk; William Graus, Administrative Officer, Finance Branch; L J Hall, Library Clerk; R R Hirsch, Library Clerk; G E Howden, Library Clerk; D L Liddle, Library Clerk; J Luca, Watchman, Premises; James Ogden, Senior Lecturer, School of Education; D Phillips, Library Clerk; Costa Sarris, Apprentice Fitter, Mechanical Engi-

neering; Claudio Silverii, Senior Lecturer, Banking and Finance; C J Waring, Library Clerk; S L Wilson, Library Clerk.

New Appointments

Recent new appointments include: Johan de Bree, Gardener; Roxanne Denniss, Clerical Assistant, Central Registry; Keith Lambert, Senior Lecturer, Banking and Finance; Andrew Moore, Computer Communications Technician, Computer Centre; Rodney Swinkels, Gardener; Lee Tierney, Input/Output Assistant Computer Operator, Computer Centre; Man-Biu Bill Wong, Lecturer, Civil Engineering; Heather Whelan, Secretary, Community Services; D Staker, Watchman, Premises.

Awards and Scholarships

• A limited number of scholarships are available for either postgraduate study in various fields or advanced studies in **Music, Art and Dance**. The Scholarships cover periods of three years to 12 months in Hungarian educational institutions for the 1988/89 academic year. Information and application forms are available from: The Secretary, Department of Employment, Education and Training, (Hungarian Government Scholarships), PO Box 826, Woden, ACT, 2606. Closing date for applications is 18 March 1988.

• The **Medical Engineering Research Association** is offering \$5,000 awards for post-graduate research scholarships in areas of interest to the medical industry. Applications forms and information are available from: The Secretary, MERA, PO Box 218, Lindfield, NSW, 2070.

• The Australian National University, the Harvard Club of Australia and the Sir Robert Menzies Memorial Trust are offering a **Robert Gordon Menzies Scholarship** which provides up to \$US15,000 for post-graduate study at Harvard University. Information and application forms from the Registrar, Australian National University, GPO Box 4, Canberra, ACT 2601. Applications close on 31 December, 1987.

• The **Australian Welding Foundation** is calling for applications under the Sir William Hudson Memorial Awards, to cover research and development relating to welding and its uses. Applications are due by 31 December 1987, and the forms may be found in Registry file 87/1034.

• The **Rotary Grants for University Teachers** are being offered at \$US10,000 per annum to selected higher education teachers to teach at universities in developing countries for six to ten months. The fields taught must have international applications in the areas of economic, political, cultural or social studies. Application forms may be obtained from any local Rotary club, and applications must be received by 15 April 1988 for the 1989 year.

Some material had to be held over for later issues due to lack of space in this edition. Our apologies to all concerned.

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Wood scanning seminar applauded

Dr John Davis, Senior Lecturer in the Department of Applied Physics was congratulated in the November issue of Wood Science Digest for an excellent presentation on wood scanning at the CSIRO recently.

Dr Davis spoke at a seminar on 'Scanning of Wood using Computerised Tomography - Potential for the Timber Industry' jointly sponsored by the Australian Branch of the Institute of Wood Science and the JW Gottstein Memorial Trust. The seminar was attended by some 70 personnel, half from the timber industry and half from scientific research establishments.

Dr Davis directed his talk towards the practical application of the Computerised Tomography technique rather than its theoretical background which resulted in a great amount of interest from the timber industry.

'Friends of Rao' award

A Friends of Rao Award is being established by colleagues of Dr Narahari Rao to commemorate the respected professional engineer who gave the best years of his professional life to Chisholm.

The names of donors will be listed on the award certificate which will be made annually to a fourth year Civil Engineering student with the highest achievement in structural engineering.

If you would like to donate to the award please contact Murray Muspratt extn. 2130 or 2170 for further details.

*Look out for the new format **Gazette** in 1988, and the fortnightly newsletter, **Chisholm People***



Inaugural glass exhibition a success

Sian Adnam, Exhibitions Officer from the School of Art and Design, recently organised the first Australian Glass Designers Exhibition featuring student and staff work from Chisholm and other colleges as well as from professional artists.

The exhibition was held and sponsored by the Melbourne David Jones store and featured a variety of pieces from promising glass workers around Australia. It is the first time an exhibition of this kind has been held and plans are underway for a second exhibition next year.

Above, Sian Adnam arranging a piece at the exhibition.

Classifieds

FOR SALE: Zodiac Inflatable, 20 foot with Johnston 40 HP outboard motor on tilt trailer. Good condition \$2,500. Contact Marie Bunyan at Frankston on extn. 276.

FOR SALE: Holiday house at Red Rocks, Phillip Island. 7.5 square, 2 bedroom fibro-cement on a block 72 feet. On Government Road, Settlement Road, and in sewerred area of the Island. Fully furnished with a new stove, new refrigerator, new washing machine and a recently installed wood burning combustion fire. Asking price was \$54,000 now reduced to \$49,000 for quick sale. Contact Keith Harrex on extn. 2037.

FOR SALE: Fleece for spinning, lovely shades of silver, grey, charcoal and near white. From English Leicester/Merino X. \$3.50/kg. Contact Pam extn. 2073.

FORSALE: Field Enterprises Child Craft Manual + Books 1 to 12, \$50; 19 key Pianica Portable Keyboard \$45; Ohio Art Magic Etch-a-Sketch \$20; Readers Digest Essential Knowledge Books 1, 2 & 3, \$50; Goldair Curling Set, \$10; Motorbikes (2), Yamaha and Kawasaki Z250CC, with helmet and dri-suit (will separate), \$500 (for both). Contact Ursula on extn. 2356.

The Supply Department has the following items for disposal:

- 1 x Macintosh Program Maclightning;
- 1 x Macintosh Program Hayden Speller;
- 4 x Macintosh External Disk Drives 400K;
- 1 x Photocopier, Nashua 1240;
- 8 x Bicycles, various stages of repair;
- 1 x Time Clock;
- 2 x Shelf Trolley (low).

For further information and offers in writing contact Shirley Phillips, Supply Department, extn. 2096. Offers close 14 December 1987.

NEWS

Faculty prizes and scholarships awarded

Outstanding efforts in engineering rewarded

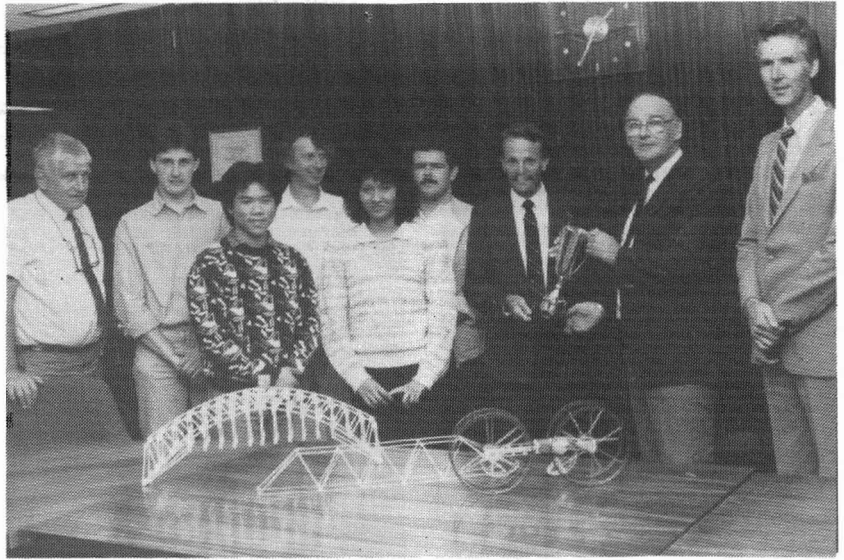
The 1987 BHP Steel Cup was presented to Chisholm Engineering students for their excellent efforts in the recent BHP Ingenuity Games.

Mr Kelvin Lillingstone-Hall, a member of the Victorian Division Committee of the Institution of Engineers, Australia, presented the prizes to the students for their entries in the spaghetti bridge and mousetrap racer competitions, along with a representative from BHP, Mr John Devers. Mr Lillingstone-Hall is the driving force behind Professional Engineers Week.

Maths prizes awarded

Dr Roy Williams, Dean of the Faculty of Technology recently presented five students from the Division of Mathematics and Environmental Sciences with prizes in recognition of personal achievement in multi-discipline degree courses.

The Jennings Industry prize and City of Caulfield prize were



Above, Director, Dr Geoff Vaughan; Paul Fitzgerald; Ly Khoa Long; Andrew Partalis; John Devers, Marketing Manager, BHP Steel; John O'C. Walker, Head of Engineering; Kelvin Lillingstone-Hall, member - Victorian Division Committee, Engineers Australia.

presented to second year Bachelor of Applied Science student Minh Tran for outstanding results in first year. Minh was also awarded the Applied Physics Prize for Best First Year Physics Student in PHY120.

Yvonne Stewart received the Water Studies Prize while the Polymer Research Centre's Prize for Most Outstanding Student in

Polymer Chemistry went to Stewart Horstman. The Statistics and Operations Research Prize was awarded to Rosemarie Bonacci, a part-time student. Another part-time student, John Borough received the Centre for Applied Mathematical Modelling's Prize.

Masters Thesis Prize for Graduate

Bruce Weston, a Master of Applied Science graduate of Chisholm recently received an award for his thesis from the Australian Water Research Advisory Council.

The Research Achievement Award was for his thesis submitted in 1985 on 'The Role of Suspended Sediment in Transport of Phosphorous in Fluvial Systems'. Mr Weston is currently head of the Environmental Sciences Unit within the Research Branch of the State Chemical Laboratories in Melbourne.

Left, Dr Roy Williams, Dean Faculty of Technology presenting Mr Minh Tran with cheques for his achievements in Applied Science.

