Ron Cumming's memorial at Chisholm

Past Director of Caulfield Institute of Technology, Ron Cumming, passed away on New Year's Eve, after a long illness. A memorial gathering was held for him in the Clayfield Room by his family on 9 January, and well over 300 people turned up to bid him farewell.

Ron W. Cumming graduated in aeronautical engineering from the University of Sydney in 1942, and received a Master of Arts in Psychology from the University of Michigan in 1960. He embraced these two fields — engineering and psychology — in his career, to the benefit of both disciplines.

His initial area of research was in applied aerodynamics at the Aeronautical Research Laboratories in Melbourne, from 1941 to 1955. After a short period with a firm of consultants, in 1956 he was appointed as a Principal Scientific Officer in charge of the Human Engineering Group at the Aeronautical Research Laboratories, the first such research group to be established in Australia.

His contributions to aviation through this group include an internationally adopted visual guidance system, “head-up” information displays and the development of crew organisation to minimise fatigue. This work was later extended to road traffic systems and other branches of science and industry.

He was Reader in Mechanical Engineering at the University of Melbourne from 1966 to 1971, and Professor of Psychology at Monash from 1971 to 1978. In both positions, he established training in human factors for engineers and psychologists, and actively pursued research into human skills and performances.

The results of this work have had significant and direct effects on all Australians, through his involvement with legislation for the safer design of motor cars, compulsory wearing of seat belts, and road traffic safety measures. He was a member of the Australian Advisory Committee for Safety in Vehicle Design from 1967 to 1978.

In 1979, Professor Cumming was appointed Director of Caulfield Institute of Technology, where he applied himself to the development of inter-disciplinary studies in industrial engineering and robotics, again bringing together technology and psychology. He took up the position of Visiting Professor at the University of Melbourne in 1982.

Professor Cumming’s work on aircraft visual approach guidance systems was recognised by the Prince Phillip Prize in Industrial Design in 1971 and the Diploma d’Honneur of the Federation of Aeronautique Internationale in 1974. He published some forty papers of reports of his research. In 1986, he was awarded the degree of Doctor of Engineering (honoris causa) at the University of Melbourne.

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NEWS

In a significant ceremony on 18 December last year, Vice President of Chisholm Council, Paul Ramler (above, centre right) and Acting Director, Gerry Maynard (centre left) signed the documents that finalise the debt financing of the Technology Tower/Student Union Complex at Caulfield. The preferred financing arrangement was approved by the Treasurer, Mr Rob Jolly, on 16 December 1986.

Also pictured are Greg Manning of the State Bank, (left), and Rod Hendryks of the National Australia Bank, (right) and Chief Finance Manager, Bill Primens is shown standing at the rear.

The project includes tenancy of areas of the Tower to outside organisations who have common interests with Chisholm, such as in the research and computing areas. The Centre for Business Technology will also be taking space.

Mr Maynard said that the move was the culmination of many years of effort, and would result in Chisholm's students having modern facilities that would be the envy of other educational institutions.

The Student Union is to have a modern and spacious building of two floors, including a hall that seats up to 1,000 people, and a gymnasium. There will also be a cafeteria, replacing the current facilities on the Caulfield campus.

The $15 million project is running well to schedule, and the first tenants should be moving into the Tower from July 1987. The Student Union will also move at that time.

A Steinway Piano for George Jenkins Theatre

The George Jenkins Theatre at the Frankston campus recently became home to a Steinway Grand Piano.

The piano was made available to the Theatre by the Chisholm Council and contributes even further to an outstanding venue for musical concerts.

The Theatre was praised by John Sinclair, music critic for the Herald, as having excellent acoustics and being an excellent venue for concerts, particularly chamber groups.

Visiting artists from the Musica Viva circuit have also praised the venue.

The Stock Grand Piano previously situated in the Theatre has been relocated in Room B2 1.8 at the Caulfield campus.

Anyone interested in hiring the Theatre for performances can contact Bruce Morton at Frankston on 784 4214.

Fiji Computer Talk by Accounting Lecturer

How people abuse and steal from computers was described by Accounting Department Senior Lecturer, Mr Gurdarshan Gill, at a recent meeting of the Institute of Internal Auditors in Fiji.

Mr Gill was seconded during the second semester of 1986 to the School of Social and Economic Development to lecture in Auditing at the University of the South Pacific in Fiji.

Export Program Provides Training

Chisholm is to play a major part in a new $1 million package of export initiatives announced by the State Government in December.

The Centre for International Business is to incorporate an "export market familiarisation scheme". This program, commencing in February, will provide training for actual and potential exporters in commercial practices, the development of export marketing plans, and "hands-on" experience in target markets.

The Minister for Industry, Technology and Resources, Mr Robert Fordham, said, "Victoria's economic future rests on the ability of our industries to break new export ground.

"These new programs will build on this government's record in helping Victorian firms make it in the overseas marketplace."

CAMMM helps Australia Post with a model of the mail

Chisholm's Centre for Applied Mathematical Modelling recently made the official hand-over of a suite of software programs entitled "Mail Centre Simulation Model" to Australian Post.

The software was developed for a national letter-sorting project and is being used to determine the level and type of mechanisation needed for the fifty or more mail centres throughout Australia.

The software analyses operations in the existing centres and determines the optimal equipment configuration, equipment usages and human resource requirements after mechanisation.

The results of the analysis are also being used as a basis for negotiations on the staffing levels of the mail centres with the Australian Postal Workers Union.

After mechanisation, the software will be used for monitoring and further analysis of the operations.
Doug Mills leaves behind a great contribution

Former Chisholm lecturer and director of Footscray Institute of Technology, Douglas R. Mills, passed away on 7 November 1986, after a brain haemorrhage. A well respected and admired man, Doug Mills made a significant contribution to advanced education in Victoria. At the time of his death, he was the Chairman of the Victorian Conference of Principals of Colleges of Advanced Education, as well as being actively involved in many community service groups, such as the Rotary Club.

At its meeting of 11 November, Chisholm Council expressed its condolences to his family and recorded its appreciation of his contribution to education.

He is survived by his widow, Marion, five children and nine grandchildren.

Staffing Review seeks submissions

A Working Party has been established by the Staffing Committee to review the terms of reference and membership of the PEP, Visiting Fellows, and General Staff Development Program committees. The Working Party comprises Ray Anderson, Olive Cousins, Dr Brian Coster (ASAC nominee) and Paul Rodan (VCSA nominee), and they are seeking comment and advice from each sub-committee. It is understood that individual staff members may wish to comment also, and staff are invited to make written submissions to Sue Phillips, the Executive Officer of the Working Party, School of Education, by 20 February.

Health & Safety

The Occupational Health and Safety Act of 1985 allows staff in all workplaces to insist upon a standard of safety precautions. At Chisholm, the Joint Unions Working Party on Occupational Health and Safety has resolved the number of representatives on the Health and Safety Committee that is required to fill the needs of the unions on both campuses. Anybody interested in being an OH&S representative can contact Arnie Bow on extension 2313 for further details. Chisholm Gazette is assured that the workload of representatives will not be extensive.

**NEWS**

**Engineers Group**

The Caulfield Campus Chapter of the Institution of Engineers Australia (IEAust) recorded a very successful year of activities.

All meetings were held on campus and were open to Chisholm staff and students as well as other IEAust members and the general public.

Topics during the year included education, entrepreneurial skills, CAD/CAM, quality control, and third world development.

Highlight of the year was the Awards and Employment Evening, in which Dr Roy Williams, Dean of the Faculty of Technology, was the keynote speaker.

The meeting attracted an audience of 100, the largest of the year. The IEAust Award for the best graduating engineering student of 1986 went to Gary Cochrane, a Chisholm student.

**DEADLINE FOR MARCH EDITION: 20 February**

Enquiries and contributions to the Public Relations Office, ext. 2099

**CLASSIFIEDS**

FOR SALE — The Supply Department has the following items for sale:

- 2 x 13 cm Apple II Disk Drive
- Sanyo 12" Green Display Screen
- Microcomputer 48K ROM Apple II plus accessories. Model AA11040C plus manuals
- Gestetner Scanner Model No. 4445
- Arlec Model AIC 1500 F.M. Automatic Intercom
- OCE EP 530 Photocopier
- Cromenco C10 Computer C/W Disk Drive & Keyboard
- C-105P Computer C/W 3102 Keyboard, Software, 2 x 5 1/4 Disk Drive, Printer & Cabinet, Arm for VDU and work station
- JVC GC Colour Camera C/W JVC CR4400 3/4" U'matic Cassette Recorder

For further information and offers in writing contact Shirley Phillips, Supply Department, ext. 2096.

FOR SALE — Windsurfer! Tyronsea "Falcon", fully rigged, 6.3 mylar sail. Great starter and advanced board ready to go. Retail $1150 — sell $650.

Phone Rob Pignolet, ext. 2239.

FOR SALE — Windsurfer! Tyronsea "Kite": Great all-rounder, as new. Fully rigged, 6.0 mylar sail. $950. Hull only $600.

Phone Rob Pignolet, ext. 2239.

Grand Prix trophies a Chisholm student’s triumph

A part-time student from Frankston campus, Tony Mardling, was in at the victory of the 1986 Australian Grand Prix — he made the trophies.

In his final year of a BA craft degree, Tony specialises in silver-smithing, and made the six trophies from blue glass and metal, in the shape of an engine cylinder, for the race sponsors, Carlton and United Breweries Ltd.

Tony’s work was for the Grand Prix trophy designers, Melbourne company Tapis Art. He also made the Foster’s Cup for the 1986 VFL night football competition, and the Brownlow medal trophies, to designs by Tapis.
Jim finishes his last watch — after 28 years

Resident Property Supervisor, Jim Gorse retired late last year after 28 years’ work at the Institute, a Chisholm record.

No other employee at the Institute has been able to top Jim’s record of employment and only a few have come close to it.

Jim spent several years in the English Merchant Navy before working at Chisholm. He was born in Liverpool, England and started life on the sea at the age of 19.

This involved 18 months to two years at a time. Jim eventually decided he would like to settle in the one place for a while and migrated to Australia in 1956.

Chisholm’s Caulfield campus was still called the Caulfield Technical School when Jim started work in 1958 as janitor. As he recalls, things were very different then.

Space was at a premium with the boy’s technical school occupying D Block and many classes were held in church halls in Burke Road and Finch Street. The only building for the college students at the time was E Block. The first of many expansions in the 60’s was made to E Block when another floor was added.

Rose garden

While the building of F Block was in the pipeline Jim recalls the basketball courts and the rose garden that were familiar features on the site before construction commenced.

Where A and B Blocks now stand, Jim says there was once a bowling green and croquet lawn. Under C Block is the old site of the technical school’s gymnasium and buildings used by the local scout group.

The clubhouse of the croquet club was bought and shifted on rollers to house the student union.

About the same time the college appointed more men to the cleaning staff, and Jim was no longer the only caretaker on site.

First library opened

The library at the time was housed in F Block and was named after Mr Kerfoot who was the Director when Jim was first employed. Jim recalls Gough Whitlam, then Prime Minister, opening the library in 1974. Mrs Joan Child was also present, although at the time only as a member of the Labor Party.

During the directorship of Mr Hartley Halstead in the 70’s, Jim recalls the Institute buying up properties in Queens Avenue. Education was booming at the time and future expansion was assured.

To create carparking on the campus, G and H Blocks, housing the plumbing, carpentry and fitting and turning trade students, were demolished. This sector of the college became part of TAFE and moved to a Carnegie site.

Jim remembers being present at every opening of a new building and clearly recalls details such as who opened them, when it was and who was at each opening.

Will he be present at the opening of the new tower building? 'We’ll see,’ says Jim, but the Gazette’s guess is, he won’t be able to resist it.

Retirement

Before his retirement, Jim was looking forward to moving into a unit in Chadstone. After settling down, he thought he might like to go for a holiday to see all those parts of Australia he has always longed to visit.

He also plans to do a lot of reading, watch TV and join a lawn bowling club.

Jim says he will miss the people at Chisholm and his duties, like looking after the boilers, but he has no regrets — despite a few nasty run-ins with burglars.

‘It will be a real wrench,’ said Jim, but it is obvious he looks back on his time at Chisholm with genuine pride.

Jim expressed his appreciation of the well wishes from past and present members of Chisholm, and for the gifts and the send-off he received on his retirement. It was, he said, ‘memorable’.
Harold Farey retires

Harold Farey, Dean of Art and Design, retired in December 1986 after 19 years of employment with the Institute.

Mr Farey, 56, commenced at Chisholm when it was still the Caulfield Institute of Technology and has seen many changes to the Art and Design School as well as the Institute. The School has grown from enrolments of 30-40 students in a Diploma course in the late 60's to over 500 full-time students today in courses ranging from Diplomas to Bachelor degrees and Graduate Diplomas.

When Mr Farey started at Caulfield the art courses consisted of dress-making, and fashion and fabric design. Those courses were phased out with Fine Art, Ceramics and Graphic Design becoming the success stories for the Art and Design School.

Mr Farey is looking forward to catching up on some drawing and painting and involving himself in consulting work.

Other long-serving staff who have retired recently:

Pat Hanlon, Staff Officer, Staff Branch, retired from the Institute in December 1986. Pat had been with Chisholm for 16 years, initially as Senior Secretary to the Director, Mr Hartley Halstead. She left in 1978 to work at the Victorian Institute of Colleges and returned as Appointments Officer in 1980. Pat was appointed Staff Officer after two senior employees in Staff Branch left and was an enormous help to the section during that time. Pat has retired to Tweed Heads in Queensland.

Mrs D. Kolodynska, Division of Mathematical and Environmental Sciences, Faculty of Technology. Danuta had been with the Institute for 13 years as Laboratory Technician in the Chemistry Department.

David Mellor, lecturer in Mathematics, School of Education, retired on 3 January. David, who had been a member of staff at the Institute since 1975, had made a fine contribution to the work of the School.

For the majority of his time at Chisholm, David was in charge of mathematics education where his understanding of students' apprehension with maths matters enabled him to improve the confidence and the skills of students in his classes.

Jenny Barrick, Resources Librarian for the David Syme Business School has been at Chisholm for five years. Jenny is moving to Western Australia.

Paul Bent, Printing Services, worked as Head of the Printing section at the Frankston State College and moved to the Caulfield campus after the amalgamation. Paul has been at Chisholm for six years and has taken up a position at the Homoeaglen College of TAFE.

Glensy Borger, Acting Appointments Officer, Staff Branch, has been at Chisholm for nine years, firstly on the Frankston campus and then as Secretary to the Development Director. Glennys has worked in Staff Branch for several months and is moving to Sydney.

Kevin Hindle, Department of Management, David Syme Business School was Senior Lecturer for two years and is going into private consulting work.

Mr Dan Jepsen, Executive Engineer of Chisholm Timber Engineering Centre has left Chisholm to head his own consulting practice, Dan Jepsen and Associates, in Maroochydore, Queensland.

Mrs Gillian Stalnforth, Department of Management, David Syme Business School has taken up a position at RMIT as a lecturer.

Norm Stanstreet, Gardener, Frankston Campus has been at Chisholm for nine years and left to take up a position with a Government Department.

Rob Westcott, Division of Information Technology, Faculty of Technology, a Senior Lecturer with the Faculty for two years, has left to take up a position in the ANZ Bank's Strategic Planning Group.

Review of Centres
A review of all Chisholm Centres is underway. Any person wishing to make an expression of interest in this matter should contact Mary Luckin on ext. 2326 by 14 February. Submissions are to be received by 20 February.
Nursing School appointments made
The School of Nursing has been successfully set up in time for the 1987 teaching year. Ms Dorothy Angell is the new Dean of Nursing, and staff for the School have been appointed. They are: Ms Jenny Atkins, Administrative Officer; Ms E. Duffy, Principal Tutor; Ms Tina Furness, Senior Tutor; Ms G. Seymour, Co-ordinator; Mrs C. Olley, Clinical Coordinator; Mrs G. Seymour, Lecturer. Mrs Anne Massee, who was previously Secretary to the Director, is now Secretary to Ms Angell.

Staff Movements
Mr Peter Cunliffe has been appointed to the position of Development Manager, as from 24 November 1986 replacing Bill Briggs. Ms Jenny Day has been appointed as the Administrator for the Centre of Business Technology.

Mr C. Freeman has been appointed as Projects Officer with the Pearcey Centre. The new Administrative Officer of the School of Social and Behavioural Studies is Mr Paul Jones, who commenced in November. Mrs Julianne Kennedy is the new Appointments Officer. Mr Peter Wenn, BEng (Monash), recently commenced his duties as a Consultant for the Centre for Robotics. Before joining Chisholm, Peter was Chief Engineer, Abbey Products Division of Prock International.

Mr Jürgen Annuss, is now the Administrative Officer of the Division of Engineering and Industrial Technology. Jürgen has a degree in Business Administration from the Stuttgart Polytechnic in Germany. He worked for 13 years with Siemens A.G. Germany and Australia. After three years in Libya as Commercial Manager of one of the Siemens plants, he decided to come back to Australia where he joined Chisholm.

A Power Game for all the family
Do any of you have an urge to rule the world? Well, now you can, thanks to two Chisholm marketing graduates.
Ross McDonald and Peter Wittner developed Powerplay, a game in which players strive to build an empire in a competitive world market, by picking up a country or negotiating it from other players. Once you have completed an empire and covered it with a defense tag, it is safe, and you can go about working on others.

Peter and Ross have formed Synergy Games, and have other game ideas as well as Powerplay to continue the company’s success. They tested the market first by asking 200 families to play the game, and then asked for their reaction. The response, they say, was overwhelmingly positive.

Powerplay retails for $34.99, and is available in Toyworld stores.

Some of the current or recent visitors to Chisholm include:
- Dr Kate (pronounced “Get”) Grudpan of Thailand’s Chiangmai University visited Chisholm’s Water Studies Centre in December 1986.
- Dr Grudpan specialises in environmental science and analytical chemistry, and worked with the staff of the Centre on a new technique of flow injection analysis. In addition, with Dean of the Faculty of Technology, Dr Roy Williams, he laid the groundwork for closer cooperation between Chiangmai’s Faculty of Science and the Faculty of Technology at Chisholm.
- Dr Claro Llaguno, Chairman of the Department of Chemistry at the University of the Philippines (approximately 140,000 students) is visiting Chisholm.
- Dr Llaguno will be engaged in research work on water complexing capacity of particulates and full flow fractination technique and theory. He is interested in observing our work in polymer science, robotics and instrumentation for possible implementation in his home university.
- Dr Ray Roth, Associate Professor of Mechanical Engineering at the University of Queensland, is a visiting fellow in the Department of Mechanical Engineering. Professor Roth is an expert in the field of computer integrated design and manufacturing, (CAD/CAM).
- Ray’s specialised knowledge of PC-based CAD/CAM operations goes back to 1977 when personal computers were not yet marketed. While lecturing at the University of Waterloo (Canada) in the Division of Digital Technology, he designed and built his own first PC.
Kenyan Marketing expert teaches at Chisholm

Chisholm was home to Julius Mukhwana for five months in 1986. Mr. Mukhwana is a Kenyan who contributed his expertise in the fields of International Marketing to the Department of Marketing's undergraduate courses.

He first became interested in Australia during an international conference held in Perth in 1984, where he delivered a paper on tourism marketing in Africa, especially Zimbabwe, where he was a senior lecturer at the University of Zimbabwe.

With the assistance of an Australian friend, Laurence Bell, he made contact with Chisholm and was offered the five months visiting lecturership. Mr. Bell was the Vice Principal of Victoria State College. They met at a conference in London in 1976 and stayed in contact afterwards.

Mr. Mukhwana enjoyed his time here very much, and he was impressed with the quality of Australian students, who, he said, were eager to learn.

Before becoming a professional educator, Mr. Mukhwana was the manager of the Kenyan National Trading Corporation, a statutory authority that oversees Kenyan import and export trade. He left to study in a number of countries throughout the world, including Canada, the US, and three Scandinavian countries—Finland, Norway and Sweden.

Upon completing his graduate studies in the US, he decided to go into teaching, and lectured at the University of Nairobi. In 1981, he took up a teaching position at the University of Zimbabwe, which was still a young institution after the formation of Zimbabwe in 1975. There were no suitably qualified Zimbabwean lecturers, so the government invited people from neighbouring countries. Eventually one of his own Zimbabwean students became qualified for the position, and he left to go to Harare Polytechnic.

At the end of his visit to Chisholm, Mr. Mukhwana gained an appointment at Launceston’s Tasmanian State Institute of Technology, in the School of Business.

Chinese Professor of Journalism visits

A distinguished visitor to Chisholm in 1986 was Professor Ju Yunan, Director of International Journalism at Fudan University, Shanghai, China.

He was visiting Australia to give a talk on Chinese Culture from the Communication Perspective at the First Canberra Conference on International Communication.

Professor Ju said that Fudan University, with over 10,000 students (‘a medium size university’) has had a journalism course continuously since the 1920s, even throughout the Cultural Revolution of the 1960s, when intellectuals—including journalists—were regarded with suspicion and disdain. He spent some years in Anhui Province during the revolution, and then three years in Africa with a Chinese Agricultural Mission.

During the past three years, Fudan has added three courses to its journalism studies, including television-related journalism. There are four programs offered—Printed Media, International Journalism, Electronic Media, and Book Editing.

He was enjoying his three week stay despite preconceptions of Australia that it would not be safe in our cities. He was pleasantly surprised to find that Melbourne and Sydney were nothing like the streets of New York as depicted on the news reports. The majority of Chinese, he said, know very little about Australia, if they know anything at all, although many in the government and industry are well aware of Australia.
Although January is the long summer vacation for most tertiary students, a number of third and fourth year Engineering degree students at Chisholm devoted their summer break to designing and building Chisholm’s entry in the 1987 BP Solar Challenge. Since the announcement of the Challenge in July 1985, approximately 30 Chisholm students have been researching and designing to produce a competitive vehicle. Students from the Mechanical, Electrical and Industrial Engineering courses have been working in high-tech fields with the very latest materials and methods.

Projects like the Solar Vehicle provide opportunities for realistic learning which are not present in conventional course structures.

Recent Electrical Engineering graduate, Mike Thornton, who coordinated the 1986 electrical engineering course projects, claims that in his recently successful job interviews employers showed they want graduates who have a record as part of a team and are self-motivating. He believes these two attributes are essential for students to succeed in the Solar Project.

Against strong competition from Ford Australia and Mitsubishi, Chisholm is taking a highly sophisticated approach, using a range of new technologies that only a few organisations in Australia have access to. Chisholm has received help from several industrial leaders in Australia.

Telecom, the nation’s largest user of photovoltaic cells, have made their research laboratories’ expertise and facilities available to Chisholm to evaluate solar cells and help in the design of the electronic control systems, using circuit boards donated by JED Microprocessors.

Preslite have helped final year electrical engineering students with the design of high performance light-weight electric motors. These motors use neodymium magnets supplied by the CSIRO Division of Applied Physics, who are world leaders in this field.

The vehicle body will use advanced composite sandwich panels, originally developed for aerospace applications by Ciba Geigy. The solar panel itself requires the best possible strength and stiffness combined with the minimum weight. It has been designed using Ciba Geigy carbon fibre and aluminium honeycomb, with the help of Government Aircraft Factory computing facilities, normally used in the design of aircraft wings.

The Victorian Solar Energy Council provided a grant to fund the most critical and expensive components — the solar cells. Other sponsors to fund the testing program and the costs of transporting and accommodating the team are still being sought, but Victoria’s Solar City, Shepparton, through the Greater Shepparton Development Council, have offered to provide transport for the vehicle to Darwin, and a mobile workshop for the race.

Although November will see the end of the first Solar Challenge, Chisholm will continue to be part of the new technology of solar powered transport. Already, Japanese car manufacturers are experimenting with trickle charging batteries from solar cells on the roof of otherwise conventional cars. Solar powered electrical commuter vehicles may take only as long to arrive as a $1 per litre price for petrol.