

ILLAWARRA BRANCH

C/- Faculty of Engineering
Building 4, University of Wollongong
Wollongong NSW 2522
Australia

ANNUAL BUSINESS PLAN

2010

1.0 Branch Profile

The Illawarra Branch of the AusIMM has one of the most diversified memberships of all Branches and operates in a region with enterprises and education across the full breadth of AusIMM's scope. There are few other AusIMM Branches or Societies that have strengths across the sectors of geology, mining, (both underground and open cut), mineral processing, metal production and processing, metal re-cycling, environmental and the range of commodities and products, coal, industrial minerals, steel, copper, zinc, composites and emerging materials. Thus, the annual program for the Illawarra Branch has been developed to meet as wide a range of interests from all members as possible. Due to the breadth of commodities and sectors, in many ways the Illawarra region and AusIMM Branch members initiate many of the technology innovations and expertise that flow on throughout the Australian mineral industries.

Resulting from these circumstances, the Illawarra AusIMM Branch has very close linkages with the University of Wollongong and TAFE Illawarra, demonstrated by having the highest percentage and most diversified range of student members amongst all AusIMM Branches and academics from all three areas, geology, mining and materials/metallurgy, on the Branch Committee. Whilst the Illawarra branch places a high emphasis on supporting AusIMM student members, education and innovation, it is primarily the wider AusIMM organisation and the minerals industry nationally that are the larger beneficiaries from this work.

Also the program reflects a number key activities that have been undertaken in previous years and are ongoing as a direct involvement of the Illawarra Branch. The success of the activities and future programs are limited only by the involvement and enthusiasm of the members.

The Branch membership would appear to fluctuate between 120 and 130 members annually. In recent times there has been an increase in membership with the number increasing from a membership of 126 in 2006 to 147 in 2009. An indicative break-down of the membership, is given below:

Associate	6
Fellow	18
Member	53
Graduate	1
Student	69

The membership base for the Illawarra Branch covers a wide geographical area including the immediate Illawarra (Shellharbour to Helensburgh), the Southern Highlands (Mittagong, Moss Vale, Bowral, Tahmoor) the South Coast-Shoalhaven area and some people that might reside in Sydney but due to employment opportunities have a direct connection with the Illawarra.

Approximately half of the membership has professional employment within the minerals & mining industries and half in academia (including students). A pleasing feature in recent times has been the rise in student membership. This was brought about in part by an increased interest in the Aus IMM and student membership in Materials Engineering but most significantly by increases in undergraduate enrolments in Mining Engineering at the Wollongong University. This is seen as a direct result of the proactive campaigning to increase the membership via careers based forum with high schools and prospective students.

The strengths of the branch are outlined below:

- immediate close liaison with all aspects of Aus IMM-related industries; including mining (BHP Billiton Illawarra Coal), mineral processing, geosciences, exploration and metallurgy (Blue Scope Steel)
- very strong industry support and sponsorship for Branch activities
- the diverse membership with a significant number of members holding Fellow status
- the high proportion of students (more than one third of the membership)
- the diverse social and technical program with at least one activity per month
- a hard working executive which provides leadership
- a high proportion of income derived from Branch activities
- the annual Coal “200x”, the last being Coal 2009, and the Sydney Basin Symposium series of conferences which bring industry participants
- a strong voice at the Annual Congress
- a willingness to take on exceptional activities such as the rewriting of Monograph 12.
- vocational promotion with Student Chapter
- very strong affiliation with the local tertiary institutions, TAFE and the University of Wollongong

Perhaps the most important feature of the membership is the branch has student membership which covers the three disciplines serviced by the Aus IMM – Mining Engineering, Geology/Geosciences and Materials Engineering (Metallurgy). This is a significant point because the Branch does not get a high return for this student membership. It is generally regarded that the Illawarra is a training ground for students, most of whom leave the district when they enter the work force. Thus the Illawarra Branch is laying the foundation for the Aus IMM – encouraging student membership that will provide leverage for other branches when the students enter the workforce.

The main weakness of the Branch, as with most branches and similar professional bases associations, is the inherent lack of member participation as a consequence of distance that has to be covered to come to activities and the workload of members. As well many of the members are contract people who are not on a mining company payroll but work as consultants; this requires many to travel away during week days and for extended periods, thus reducing the ability of this subset of members to attend branch functions.

The Branch has a very strong and active *Mining Heritage Sub-Committee* which has been active over the past few years. The sub-committee was successful in winning a special community grant and has been active in collating a wide range of mining information dealing with the history of mining in the Illawarra (such as tracings, photographs, reports) and putting this into an electronic format and data base. However their most significant recent achievement is the completion of a DVD titled “*Beneath Black Skies*” which uses documentary film techniques to portray the history of coal mining in the Illawarra. Direct funding from Aus IMM Central Services, the Illawarra

Branch and local mining companies made this possible with the Aus IMM gaining major recognition for this undertaking.

The annual program has been developed to meet as wide a range of interests from all members as possible and the success of the branch's activities and future programs is limited only by the involvement and enthusiasm of our members. The Chairman's report for the Annual General meeting in 2009 (attached as Appendix 5) summarizes the diverse range of activities undertaken for that year

2.0 Branch Committee & Structure

The Illawarra Branch operates via an elected executive committee which is charged with the role of organising and running the day to day affairs of the branch, facilitating subcommittees with specialised interests, and overall promoting the overall interests of the branch membership at large. The Executive Committee endeavours to attract members to the branch from the four main disciplines/institutions of the local profile – Mining Engineering, Geology, Materials Engineering/Metallurgy and Education. The Branch Committee comprises all of the Branch Executive. The Committee meets monthly to develop social and technical activities with a primary aim of enhancing the skills of the Branch members through information education and networking. The Executive Committee receives minutes of the committee meetings and requires periodic updates, especially where funds have been provided for the committee activities.

The last annual General Meeting was held in April, 2009. The Committee meets monthly with at least ten meetings throughout the year. Special meetings are called when there is extraordinary business to be considered such as this Annual Business Plan and budget.

3.0 Branch Executive From: April 2009 To: April 2010

Chairman: **Ray Tolhurst**

Vice Chairman: **Chris Harvey**

Hon. Secretary: **Rod Haselden**

Hon. Treasurer: **Kevin Marston**

Immediate Past Chairman: **Chris Harvey**

Committee Members: Michael Armstrong

Ernest Baafi

Dennis Black

Sol Buckman

Keith Horrocks

Adrian Hutton

Ben Dowling (student member)

Suzie Blom (student member)

Brian Monaghan

Col Seaborn

Ross Seedsman

4.0 Portfolios & Subcommittees

The Illawarra Branch of the Australasian Institute of Mining and Metallurgy elects an executive which coordinates and organises branch activities. The size of the branch is not sufficiently large enough to permit a portfolio or committee structure. However, the branch has three active subcommittees: Heritage Sub-Committee, Monograph 12 Sub-Committee, Coal 2010 Conference Sub-Committee along with the Wollongong University Student Chapter.

Heritage Sub-Committee

The Heritage Sub-Committee is a very active committee and has attracted community support for its projects as well as support for local historical events such as the Mount Kembla Commemorative week end. During 2009 the major project has been the development and publication of a DVD documenting coal mining history in the Southern Coalfield of New South Wales. More than \$150,000 has been raised or promised with the branch contributing \$5,000 of its own funds. The DVD titled "*Beneath Black Skies*" was completed and successfully launched in August 2009. From all accounts it has been very well received with good sales and a number of local and national promotions to be developed. Considerable effort and personal involvement from the Heritage Sub-Committee has been the core to the success of the DVD.

Membership of the Heritage Sub-committee for 2009 includes:

- Stuart Saywell (Chairman)
- Ron Cairns
- Chris Johnston
- Bob Kininmonth (Secretary)
- Peter Mooney
- Arthur Murray
- Geoffrey Mould
- John Puddle
- Don Reynolds
- Gregory Scott
- Barry Swan
- Len Wright

Monograph 12 Sub-Committee

This committee was set up four years ago to revise the Aus IMM publication Monograph 12 *Australasian Coal Mining Practice*. It meets regularly and it is expected that the publication will be available for sale early in 2010. The success of the redrafting of Monograph 12 is due largely to a major financial contribution from BHP Billiton Illawarra Coal which acted as primary seed funding to support the redrafting and editorial costs.

Membership of the Editorial Committee includes:

- Bob Kininmonth (Editor & Chairman)
- Ernest Baafi (Co-editor)
- Darrel Adam
- Rod Doyle
- Gary Gibson
- Chris Harvey
- Stuart Saywell
- Keith Horrocks
- Ray Tolhurst
- Bill Watson

Coal 2010 Conference Sub-Committee

The Coal 2000 conference series has been organised several times in the past with the 10th conference to be hosted by the University of Wollongong and the Illawarra Branch of the Aus IMM, 11 to 12 February 2010. A subcommittee was set up in 2005 when the Illawarra Branch of the Aus IMM agreed to underwrite the annual Coal 2000 conference series when it is held in Wollongong. Key members of the organising committee for Coal 2010 includes:

Naj Aziz (*Convenor*)
Dennis Black
Chris Harvey
Ross Seedsman

Wollongong University Student Chapter

The Illawarra Branch has had the benefit of a very strong and active Student Chapter especially in recent years. They have been actively promoted by the Branch while operating according to their own budget and program. A separate funding and possible costing for activities to be undertaken by the Student Chapter is attached with this Business Plan.

A student initiative carried out this year was for Materials/Metallurgical Engineering students to organise a NSW Industry field-trip, supported by the Sydney and Illawarra AusIMM Branches, the University of Wollongong METSOC and BlueScope Steel. Sites visited included Penrith Lakes Quarry, One Steel mini-mill at Rooty Hill, One Steel processing at Newcastle, Hydro Aluminium at Kurri, North Parkes mineral processing, Cadia/Ridgeway mineral processing, Clarence Coal Washery at Lithgow and Berrima Cement.

5.0 Marketing

Marketing and the promotion of the AusIMM as a worthwhile professional body is, along with many other initiatives an activity that is integral to the Illawarra Branch. The primary focus is to provide informative, educational and networking opportunities for industry based professionals and thereby directly demonstrate the inherent advantages of being a member of AusIMM and supporting the Illawarra Branch. In addition there is a strategic focus for targeting the students through the Student Chapter to generate direct involvement in a series of activities where members of the branch and tertiary students take part. Activities include:

- Student Chapter students nights which invite young members of the Institute
- Schools night
- Careers days
- NSW Mineral Council dinners
- Promotions at conferences and workshops such as the Coal 200x series of conferences, the annual Sydney Basin Symposium
- Organisation and underwriting excursions such as the minerals processing trips to Western NSW for Materials Engineering/Metallurgy students.
- Visits to Australia Industry World, the nation's largest metallurgical site visit and careers education complex
- Hosting the Applications of Computers & Operations Research to the Minerals Industry (APCOM) Conference in 2011

A key Marketing strategy for 2009 was to build on the success of the 2008 New Leaders Conference and Mining games being held in Wollongong. This represented an ideal opportunity to promote the training and skills development within the industry and particularly the young professionals which make up the human side of the industry. The success of this program gave direct impetus to the Student Chapter and encouraged involvement in the 2009 New Leaders Conference and Mining games.

6.0 Technical Events

The Illawarra branch organises several technical meetings and presentations, conferences, lectures and field trips each year with emphasis on topical activities and events. The two major technical programs continue to be the Coal200X Series of conferences held in February and where ever possible the Sydney Basin Symposium which was held in November. Both activities attract industry, academic and government participants.

The branch endeavours to hold at least one joint technical activity with another technical group, such as the Institute of Engineers Australia, Institute of Quarrying, Coal Preparation Society, Mine Manager's Association and other Aus IMM Branches, such as the Canberra Central West branch with which Illawarra branch co-hosts the annual student's presentation night (with the organization alternating between Illawarra branch and Canberra Central West branch), each year. In 2009 the Illawarra branch organised and hosted this function

The 36th APCOM (Application of Computing in the Mineral Industries) Conference is another opportunity that the Illawarra Branch will have to promote itself and directly encourage mining & minerals Industry professionals to be involved in Aus IMM activities.

The executive of the Illawarra Branch designs and sends out a flyer for each technical and social program. The flyer is sent to all members and to selected members in other branches with the preferred means of communication being by e-mail.

A list of the activities organised 2009 and proposed for 2010 is given below. Please note that the full program for 2010 will be determined at the January Branch Executive Planning meeting

Month	Year 2009	Year 2010
January	Executive Planning meeting Introductory Branch Sponsored BBQ for Students	Executive Planning meeting Introductory Branch Sponsored BBQ for Students
February	Workshop Planning meeting Coal 2009	Steel & Coal Key note Address Coal 2010 Conference
March	Student Chapter "Vac" Night presentations Joint Institute of Engineers Aust. Presentation	Cadia East Project Newcrest Mining/Fluor Infrastructure
April	Annual General Meeting No. 5 Blast Furnace visit & tour	Annual General Meeting New Leaders Conference Mining Games, Kalgoorlie
May	Uni of Wollongong Faculty Awards Presentation Longwall mining technical talk	Congress 2010 to be held in Wollongong
June	Congress 2009	

	High Schools careers dinners Student Vocation night	
July	New Leaders Conference Mining Games Coal Preparation Society joint presentation	Proposed joint meeting with Sydney AusIMM branch
August	Presidential Dinner	Presidential Dinner
September	Combined Illawarra/Canberra Central West Branch student's night. Materials Engineering Technical talk.	Combined Illawarra/Canberra Central West Branch student's night.
October	Technical ACARP Presentation Business planning for 2008/2009	
November	Minerals Industry Technology presentation	
December	Christmas Social Function	Christmas Social Function

Ongoing Activities

Planning for Coal 2010
Revision of Monograph 12
Student Chapter Activities (see enclosed draft 2009 program)
Heritage committee (ongoing activities)
Planning for 35th APCOM Conference

7.0 Social Functions

Social activities are generally organised in conjunction with technical activities. There are usually two key social activities for the year these being the Presidential Dinner and the Branch Christmas function. The branch endeavours to find a new venue each year with the main aim of the Christmas activity to provide a venue in which families can participate.

An important function for the Branch is the Annual General Meeting usually held in April. The meeting is held in conjunction with a technical presentation dealing with some topical aspects & in 2009 two presentations one on remote monitoring of people & equipment in an underground mine environment and the other on recent statutory approval requirements prove to be of great interest.

8.0 Students & New Professionals (S&NP)

The Illawarra branch has a very active Student Chapter with between 50 and 70 members annually. In 2009 the student number was 69 with new applications for membership from students of the School of Earth and Environmental Sciences and Materials Engineering, University of Wollongong.

The branch uses the Annual Presidential Dinner as fund raiser for the Student Chapter and encourages industry attendance through support for Education and Training providers. The branch actively encourages Student Chapter company sponsorship for participation in the New Professionals programs and the Student Mining Games.

Student Body elected positions for 2009 were:

President/Chairperson	–	Kate Lennox (0402746830), kel311@uow.edu.au
Secretary/Treasurer	–	Joel Grant (0417572598), jwg812@uow.edu.au
Sponsorship Coordinator	–	Matthew Jurak (0422663874), matty.jew@gmail.com
Social Organisers	–	Ben Patten Drew Warwick Luke Viglione
4 th Year Rep	–	Sean Moylan
3 rd Year Rep	–	Ben Dowling

Student Body representatives elected for 2010 are;

President/Chairperson	Ben Dowling
Vice-President	Suzie Blom
Secretary	Tim Mathie
Treasurer	Sam Bray

The issue of Graduate Membership and New Professionals continues to be one of concern and will be a focus of branch discussions in 2010

9.0 Membership Drives

The major membership recruiting activities are focussed through the Student Chapter and the Young professionals. The Branch has found that the mix of technical activity, social activity is an effective way to encourage students, particularly from the mining engineering field. The branch encourages local metal and coal producers to be members of the Aus IMM and the success of the branch is reflected in the diverse range of members. The branch also encourages employers to have an allowance for membership to a professional organization as part of salary packages.

10.0 Education

The Branch executive in encouraging the Heritage Committee to progress an initiative to develop and produce the DVD “*Beneath Black Skies*” is seen as being both educational and of historical interest and local important. It all supports the local identity and the underpinning importance of the Minerals and Mining Industry to the local economy

Other initiatives of the branch include the concept of the coal operators conference, again a function that is both educational and locally important for the continuation of a coal industry in the Illawarra, and are looking a initiating a number of workshops dealing with topical issues such as green house gas emissions and the proposed carbon trading scheme.

11.0 Other

The branch sees that its mandate is to provide leadership for the professionals that work in minerals, mining and metal production industry both on a local, regional, Australian and international scale. In order to do this, the branch:

- conducts technical and social activities for Aus IMM members, colleagues, families and friends
- encourages and supports the Aus IMM Student Chapter and Heritage Sub-committee
- administers branch activities using the Portfolios - Chair, Secretary, Treasurer, Branch
- the committee including student representatives is directly involved in the setting up special purpose co-opted sub - committees such as the Heritage and Monograph 12 committees.

Appendix 1: Branch Executive Contact Details

- Chairman:** Ray Tolhurst
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rayt@uow.edu.au
- Hon. Secretary:** Roderick Haselden Douglas partners
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Roderick.Haselden@douglaspartners.com.au
- Hon. Treasurer:** Kevin Marston
PO Box 408, Thirroul 2515
kma59033@bigpond.net.au
- Immediate Past Chairman:** Chris Harvey
Gujarat NRE, No. 1 Colliery, PO Box 281, Fairy Meadow, NSW 2519
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- Committee Members:**
- Keith Horrocks 8 Primrose Place, Farmborough Heights 2526
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- Michael Armstrong BHP Billiton PO Box 514, Wollongong NSW 2526
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- Tim Mathie (Student) University of Wollongong
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- Sam Bray (Student) University of Wollongong
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APPENDIX 2

Aus IMM Illawarra Branch

C/- Faculty of Engineering
Building 4, University of Wollongong
Wollongong NSW 2522
Australia

Project List - Request for Funding 2010 - Branch

Priority	Project Name	Description	Timing	Total Cost of Project	Amount Requested
1	Faculty Student Achievement Awards	Four academic Aus IMM awards are presented annually, to students in mining engineering, metallurgy/materials engineering, environmental engineering and geology, with each prize having a value of \$400. The prizes are called the Aus IMM Student Prize.	May	\$1,600	\$1,600
2	Preparation/seed funding for APCOM 2011	On behalf of the Aus IMM, Assoc. Prof. Ernest Baafi made presentations to the 2009 APCOM Conference, outlining why delegates should come to Australia, for the 2011 APCOM Conference. Follow-up work and preparations are required during 2010 to ensure that the event enhances Aus IMM's reputation and is regarded by participants as an outstanding success.	Feb - Dec	\$400,000	\$6,000
3	The Australian Coal & Steel Keynote Address	The presentation of a high level keynote address by a respected industry-based professional that will engage enterprises, business, community and government leaders and thus develop an improved understanding amongst key decision-makers concerning Australia's largest export industries.	Feb	\$15,000	\$4,000
4	Congress 2010	Illawarra will be hosting the 2010 Congress over the weekend 14 to 16 May. As such, the Illawarra branch will be holding a Welcome function, where we would like to invite key local and Sydney influential stakeholders, to gain greater recognition and support for Aus IMM. Also the Illawarra Branch would like to arrange local geology, mining and metallurgy visits at no cost for Congress delegates. Whilst the sites have agreed to no charges, there are transport and refreshment costs involved.	May	\$10,000	\$3,000
5	Curriculum and resource development for the NSW High Schools in Mining Engineering and Metallurgy	In 2009 a scoping study to determine what is required to include mining engineering in the NSW Higher School Certificate Engineering Science course. Additionally, some pilot resources have been developed and trialled. A further project is required to have a mining engineering module approved and incorporated into this course by the NSW Board of Studies. Similarly, there is growing interest in having curriculum enrichment materials for metallurgy/materials engineering incorporated into Engineering Science. If achieved, this project has national benefits, as the NSW HSC curriculum, assessments and learning resources are the most detailed nationally and are used as the framework for most other state/territory senior secondary studies. The NSW Board of Studies and NSW Schools	Mar-Nov	\$10,000	\$10,000

		Curriculum Unit have outlined that it will cost approximately \$10,000 for a project to have the mining engineering module accredited and that, at this stage, it is not a high priority for their units, so would need to be funded externally. MCA, NSWMC, AMNMA and Skills DMC all support the project and will assist with access to expertise, but are all unwilling to provide funding.			
6	Coal 2010	Coal 2010 will be the 10 th anniversary of the major Australian Coal Operators Conferences. With proposed emissions trading legislation, the importance of this event is growing. The conference is jointly organised by the Illawarra Aus IMM Branch, the University of Wollongong and the Mine Managers Association. The activity is self-funded with all costs covered by registrations and donations/sponsorship. The event is timely and professionally brings considerable credit to Aus IMM.	Feb	\$80,000	Nil
7	Re-vitalising engagement with enterprises and professionals and associate professional staff across the entire life-cycle of minerals, including those that provide technology services for the industry.	The 2009 Aus IMM Congress highlighted the need for Branches to focus on long-term sustainability. As a result of discussions in the Illawarra, it is proposed to re-engage with enterprises and professionals that have previously been actively involved with Aus IMM but have not been participants recently, due to an apparent focus on “mining” and less on “processing”. Plus our branch also intends to take steps to engage with emerging parts of the industry, such as environmental engineering, re-cycling and related composite materials.	Feb - Dec	\$8,000	\$4,000
8	Joint Branch Functions	For the past five years the Illawarra branch has successfully held annual joint meetings with the Canberra/Central West Branch. In 2010 we would like to extend this to also holding an annual joint meeting with the Sydney Branch, with Illawarra hosting and meeting the costs. Also joint technical meetings are planned with kindred technical societies, such as IE Aust, Institute of Quarrying and the Australian Coal Preparation Society, with the Branch being required to share the cost for these events.	Sept	\$15,000	\$3,000
9	Sydney Basin Geology Symposium	This initiative is the major technical conference for Aus IMM geo-science members involved in the NSW Coal industry. Due to environmental and infrastructure concerns it has growing relevance in maintaining long term sustainability and access to coal resources.	July	\$100,000	\$3,000
				Total Amount Requested	\$34,600

APPENDIX 3

Aus IMM Illawarra Branch
C/- Faculty of Engineering
Building 4, University of Wollongong
Wollongong NSW 2522
Australia

Project List - Request for Funding 2010 – Student Chapter

Please Note: In assessing the request for project support for the Aus IMM University of Wollongong Student Chapter, it should be considered that the Illawarra Branch has the highest percentage of Student Members of all Aus IMM Branches and they come from the most diverse range of minerals industry disciplines. The Illawarra Aus IMM Branch, with the limited resources of a non-capital city Branch, has been matching, or exceeding, the Central Service project support. However, after graduation these students move widely throughout Australia, so that, predominantly, it is other Aus IMM Branches that benefit from Illawarra's efforts

Priority	Project Name	Description	Timing	Total Cost of Project	Amount Requested
1	Promotion of Industry-based learning for university students	Plant visits to mining, metallurgy, geology and environmental industry sites and equipment suppliers. Students meet Industry vocation evening. Subsidising student attendance at selected seminars and workshops, especially when they are presenting a quality, technical paper.	March to October	16,000	4,000
2	Attendance at New Leaders Conference and Mining Games	To assist University of Wollongong Student Chapter members and teams take part in the 2010 New Leaders conference and World Student Mining Games in Kalgoorlie. It should be noted that these events are being held earlier in 2010 than in previous years, resulting in less time to gain company sponsorship support, plus the reduced level of the availability of these funds due to the global financial crisis. It would be very unfortunate if less Australian students could take part in the World Student Mining games due to financial difficulties.	April	28,000	7,000
3	Attendance by University students at HSC Career functions	The NSW Minerals Council, (NSWMC), conducts careers dinners in regional areas throughout the year, using University of Wollongong students as the presenters to High School students. Surveys at both UNSW and the University of Wollongong show that over 60% of new enrollees attended one of these regional NSWMC Careers dinners, making this the most effective career marketing program. Whilst the NSWMC covers the actual cost of the dinners, they do not cover travel and accommodation costs.	May to August	2,000	1,000
4	Increasing Metallurgy/Materials, geology and Environmental Engineering students involvement with the Aus IMM Student Chapter	Whilst the University of Wollongong Aus IMM Student Chapter mainly has mining engineering students, there is a small, but growing number of metallurgy/materials engineering, environmental engineering and geology students. Support is requested to expand the range of activities so that more metallurgy/materials, environmental, geology and related discipline students join the Aus IMM.	March to October	5,000	2,500
Total Amount Requested					14,500

APPENDIX 4A

Aus IMM Illawarra Branch
C/- Faculty of Engineering
Building 4, University of Wollongong
Wollongong NSW 2522
Australia
Report on 2009 Funding

Project Name	Project Description	CS Funding	Total Spent	Outcomes
The Australian Coal and Steel Keynote Address	A high level keynote presentation to engage industry, business, community and government leaders and thus develop an improved understanding amongst key decision-makers concerning Australia's largest export industries	\$4,000	\$6,000	Planned to co-include this with the 10 th anniversary Annual Coal Operators conference in February 2010. Venue booked and deposit paid.
Faculty Student Achievement Awards	Four academic awards presented to students, one each in mining, materials/metallurgy, environmental engineering and geology, each with a value of \$400	\$1,600	\$1,600	Four Aus IMM academic awards presented, resulting in increased Aus IMM interest and student membership from environmental engineering for the first time, as well as student applications for EEF scholarships from materials/metallurgy engineering and environmental engineering for the first time.
Preparation/seed funding for APCOM 2011	As the representative of Aus IMM, the Illawarra Branch gained the 2011 international APCOM (Application of Computers in Minerals industries) Symposium. Seed funding is required to enable the preparation of this event to occur.	\$4,000	\$5,000	Branch representative attended the 2009 APCOM conference in Vancouver, made the presentation at the Conference lunch outlining why delegates should come to Australia and Wollongong in 2011. Promotion video introduction and welcome including Aus IMM President, Minister for Illawarra and Vice Chancellor, University of Wollongong produced as well as an APCOM bookmark showing key 2011 APCOM dates and contacts. Preliminary booking of venues completed.
Joint Branch functions	2009 was the Illawarra Branch's turn to host the combined student theses presentation meeting with the Canberra/Central West Branch. Joint technical branch meetings are planned with kindred societies such as IE Aust, Institute of Quarrying Australia and the Australian Coal Preparation Society during the year and the branch is required to share the cost of these events.	\$1,800	\$2,500	Joint meeting with Canberra/Central West Branch and Brindabella Student Chapter held at Moss Vale. Five student theses presented, all high quality, suitable for GB O'Malley Award and similar Aus IMM state prizes. Winner Nick Theodossiadis, Materials/Metallurgy Engineering, University of Wollongong, presentation on "Phase transformations of Titanium Alloys"

<p>Scoping study for curriculum and resource development for mining engineering in the NSW Higher School Certificate</p>	<p>Develop a scoping study project that will benefit all NSW Branches and potentially the entire Aus IMM. Frequent Aus IMM and industry submissions have commented on the lack of mining industry studies in high school programs.</p> <p>The NSW Board of Studies has now included a mining engineering elective module into the curriculum for the 2 Unit Engineering Studies Years 11/12 Higher School Certificate course. While the module has been included as an elective, it will not be delivered to senior high school students unless a curriculum is developed and support resources created to enable high school teachers to present it to students. This is a project that the Illawarra branch would like to do, with the support of the University of Wollongong and other organisations, such as the NSW Minerals council, Skills DMC and AMMA</p>	<p>\$2,000</p>	<p>\$2,000</p>	<p>Scoping study completed. Of the 300 High Schools with Engineering Science HSC students, 62 or approximately 1,200 high school students/year expressed interest in doing a mining engineering module if it becomes available. MCA, NSWMC, Skills DMC and AMMA all expressed support for developing a mining engineering module for the NSW HSC but all are not prepared to commit funds to enable it to happen.</p> <p>Advice from the NSW Board of Studies and NSWDET Curriculum Unit is that it will be an approximate \$10,000 project to produce a syllabus and support learning materials for such a module. At this stage, pilot practical resources have been developed and successfully trialled with 300 high school students, including 90 at "Women in Engineering" days.</p>
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APPENDIX 4B

Aus IMM Illawarra Branch

C/- Faculty of Engineering
Building 4, University of Wollongong
Wollongong NSW 2522
Australia

Report on 2009 Funding Student Chapter

Project Name	Project Description	CS Funding	Total Spent	Outcomes
Promotion of Industry Based learning with University Students	Plant Visits to mining, metallurgy, geology and environmental industry sites and equipment suppliers. Students meet industry vocation evening. Subsidising the student's attendance at selected seminars and workshops, especially when they are presenting a quality technical paper.	\$2,000	\$15,000	Students meet Industry vocation evening again was a great success, contributing to 100% of graduates gaining immediate employment and many 3 rd year students gaining vacation work placement as a result of the evening. Plant visits were conducted to a wide range of mining and equipment manufacturer sites, including the Southern Mines Rescue station where virtual reality simulations were demonstrated. Metallurgy/Materials engineering students did a field trip throughout NSW. This trip was jointly sponsored with the Sydney Aus IIMM Branch and it did a great deal to raise the profile of both Aus IMM and materials/metallurgy education throughout the NSW industry.
Attendance at New Leaders Conference/Mining Games	Support is requested to assist the University of Wollongong Student Chapter members and teams take part in the 2009 New Leaders Conference and Mining Games in Brisbane.	}\$1,800	\$22,000	12 Students attended the New Leaders Conference and a further 12 attended the National Mining Games. This was the largest attendance of students from the university of Wollongong to attend these events outside of NSW.
Attendance by students at NSW Minerals Council Careers functions	The NSW Minerals Council, (NSWMC) conducts careers dinners in regional areas for year 12 maths and science school students to promote employment and education in the minerals industries. For the last four years these careers dinners have been the most effective way of recruiting students to minerals industry university programs, with over half of the entrants to these degrees having attended a careers dinner the previous year. The NSWMC uses 3rd/4th year undergraduate students as the presenters for the sessions. Whilst the NSWMC meet the cost of the dinners and printing of materials, they do not meet the cost of travel and accommodation for the Aus IMM student undergraduates who take part. In 2009 ten regional NSWMC careers dinners are planned, (Mid North Coast, Tamworth, Orange, Canberra, Wagga, Albury, Newcastle, Wollongong and two in Sydney)	} for these two } together	\$ 2,000	The Aus IMM CS funding was used to help subsidise travel and accommodation expenses to discuss minerals industry tertiary education with high school students at OURIMBAH, Wollongong, Penrith, Wagga Wagga and the Hunter Valley. The outcome of these careers dinners continues to be a very high percentage of enrollees in mining and materials/metallurgy programs in NSW having attended one of these careers dinners.

APPENDIX 5



CHAIRMAN'S REPORT to 2009 AGM

The last twelve months have proven to be most challenging of all involved in the mining & metallurgy industries. The Illawarra Branch has supported and been involved in a range of activities to promote the professionals that work in these industries and support Aus IMM. A brief review of the last year is as follows:

- ❖ At the last AGM we had Ross Seedsman & Chris Lukey provide informative presentations on recent advances in roof support and road way development techniques. This gave some insight into where research is going especially in respect to ACARP projects and funding.
- ❖ The Student Chapter for the branch were exceedingly active in 2008. The Illawarra was the host Branch for the 2008 New Leaders conference held at the North Beach Novotel. Our students were able to put together a world class conference with a wide range of presentations dealing with the issues around attracting and maintaining the growth of young professional into our industry. In addition we were able to offer an number of mine and industry based tours due largely to the support and assistance of local members.
- ❖ Also the Students were most actively involved in the organisation and running of the 2008 Mining Games. These were held at the new Southern Mines Rescue Station which proved to be an ideal venue for the games and offered a number of events that were both realistic and innovative. The virtual reality facilities at the station were a hit and this also gave the Rescue Station the opportunity to show off its capabilities and a training venue. The over success of the games was exemplified in our Wollongong University student winning the trophy.
- ❖ In February last year we held Coal 2008 which proved to be a successful conference with over 120 registrants. The ongoing success of this style of conference was self evident with the running of Coal 2009 in February this year. We had about 130 registrants with active and positive support from a range of industry sponsors. The reputation of this conference appears to be growing in that this year we had a number of international registrants and papers. Thanks go to Naj Aziz and the Conference organising committee for their extra special efforts and we look forward to future successes in 2010 and beyond.
- ❖ The Mining Heritage Subcommittee has been actively progressing the DVD on the History of Coal Mining in the Illawarra. This is a major initiative for the Aus IMM as a whole and particularly for the Illawarra Branch. They have been fortunate in gaining additional sponsorship to enable the filming of some re-enactments. This work is nearing completion the launch of the DVD expected in July 2009. Anyone interested please contact Ron Cairns or Bob Kininmonth.

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- ❖ The branch has continued with a range of promotional activities including High School Careers dinners and various local careers functions. This could account in some way for the growing interest and enrolments in Mining Engineering at Wollongong University. Special Thanks go to Ray Tolhurst for his direct support and involvement.
 - ❖ The 2008 Christmas Function at Innovation Campus, North Wollongong was well attended by local members and their partners. It gave the Branch the opportunity to show the range of activities undertaken by the Branch with special presentations on the work of the Heritage Sub-Committee and the History of Illawarra Coal Mining DVD.
 - ❖ Work on Monograph 12 is nearing completion and we are eagerly waiting for the final proof. Arrangement are being finalised on the publication and the work of the editorial committee is commended in persevering with such a major task.

Up and coming events for the next 12 months include ongoing student activities with their VOC Night, Industry Barbeque and a strong representation at the New Leaders Conference and Mining Games to be held in Brisbane (end of April & early May). We wish the Wollongong University mining students every success in defending their 2008 win.

In July/August we plan on holding our Presidential dinner and an ideal opportunity for member to socialise and swap tall tails and true from the legendary past. We have a number of technical presentations planned for the rest of the year and notice will be forth coming as to the topic and venue.

In September 2009 there will be out regular combined Illawarra/ Canberra Central Branches Student presentations night. This will be held at Moss Vale technical College and any member that can participate in the audience or as adjudicators would be welcome.

In 2010 The Illawarra Branch will be hosting the APCOM Conference (Applications of Computers in Mining) in Wollongong. This is a major international event and will provide us with the opportunity to promote our Branch and the member that support us.

Finally as a special initiative the Illawarra Branch has received support from Aus IMM in Melbourne to convene a special Keynote Address for the Coal Mining and Steel Industry. It is our intention to invite an prominent industry person to talk on their experience in the Industry and what they see are the future prospects, attentively in September /October.

Thanks go to the executive committee for their support and I strongly encourage all members to get involved and participate in the running of their branch.

Chris Harvey
Chairman of Illawarra Branch