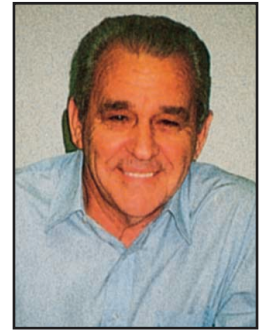




VOLUME 5
ISSUE 3
SEPTEMBER
2001

Message From the CEO



Pat Gilroy

National Metalliferous Training Package

The Monitor first reported on the National Metalliferous Mining Training Package in the May 1999 issue. We compared two of the core units, *Work Safely* and *Apply Local Risk Control Processes*, with the competencies in the MARCSTA General Induction.

The Training Advisory Council in Western Australia strongly supports industry training packages as the vehicle for nationally recognised training and MARCSTA, wherever practicable, is restructuring its programs to support this approach.

The National Mining ITAB is currently reviewing the metalliferous training package and the inclusion of generic inductions may be one outcome of this review.

A major review of the package is scheduled in 2002.

MARCSTA has expressed the view that additional occupational health aspects related to the 7 x 24 working life should be included in all training packages if they are to reflect the reality of working life today.

The proposed changes to the national package should be available for review in September.

Communication - the Key to Effective Risk Management

It is now almost thirty years since the Robens Committee suggested that the primary responsibility for reducing the levels of occupational accidents and disease lay with employers, who create the risks, and employees, who work with them. In effect, this amounted to a collaborative and communicative approach by employers and the workforce to eliminate or manage risks.

Approaches to risk assessment and risk management in recent times seem to have missed this key ingredient - the importance of communication and collaboration.

On 12 October MARCSTA and the recently incorporated International Society of Mine Safety Professionals will host Dr Vincent Covello, one of the foremost authorities on risk communication at a seminar designed to demonstrate the importance of communication in the risk management process.

Those who attended Minesafe 2000 will recall his outstanding presentation on that occasion.

It is a rare opportunity which should not be missed.

Enquiries to Paula Sinclair on (08) 9355 1400 or email marcsta@eftelradio.com

In this issue...



Shiftwork lifestyle package	2	Editorial	6
MARCSTA hits 75,000	2	Ausdrill proud of safety record	6
ISMSP update	3	MARCSTA Registered providers	7
Risk management course a step closer	3	Provider profile - TRACMIN	7
Member profile ARD	4	Conferences and courses	8
From the world mining press	5	New publications	8
MARCSTA Members	5	MARCSTA Annual General Meeting	8
Who's who	6		

MARCSTA is a not for profit association.

All proceeds are reinvested into the industry for future development of safety and training.

The Monitor circulates widely throughout the mining industry and contractors to mining companies in Australia

Managing a Shiftwork Lifestyle

Some 200 employees have now completed the Managing a Shiftwork Lifestyle program which provides shiftworkers with the self management skills needed to address the health and safety consequences of today's twenty-four hour society.

Helen Fleming from Strudwick HR in the Goldfields notes that the program has identified social problems and helped people better understand themselves. Attendees are bringing their partners and also encouraging others to go along. One company is asking for the course to be run with both spouses attending.

Linda Elezovich from the Caterpillar Institute has also had a very positive response from participants both in the Goldfields and the city. People, especially younger participants, are enthusiastic about it. There is less attitude and peer pressure to stop younger people making the changes. One participant said he feels better knowing that others experience the same peaks and troughs of alertness, and that he can manage this now that he understands why it happens. Some noted that it is easier to buy pills than manage the issue, but talked later about giving management rather than pills a try. Caterpillar are now allowing partners to attend free with the paying participant, so that the partner understands the change in food needs, for example. Now that some managers have tried the course, says Linda, they're sending the people at the coalface.

Homestake's Lawlers Mine is the first mining operation to adopt a total workforce approach with Tom Bateman of TRACMIN providing on site training over an extended period.

A number of other operations are taking a progressive approach as staff become available.

Programs have now been conducted in most regional areas.

Shiftwork can have a significant impact on physical and mental wellbeing and on family and social life. Failure to understand and manage the disruption to circadian rhythm and the importance of quality sleep is the cause of many of our road deaths which occur so consistently in the early hours of the morning when alertness is low.

Two of the most respected authorities on shiftwork and its consequences, Timothy Monk and Simon Folkard, have this to say about quality sleep:

"It is vitally important for shiftworkers to realise that sleep is as important to them as oxygen and that they should treat it that way."

It is equally important that shiftworkers be provided with comprehensive training so that they can accept responsibility for maintaining a healthy lifestyle.

Shiftwork Providers

Tom Bateman	Perth based
Linda Elezovich	Perth based
Helen Fleming	Kalgoorlie based
Ralph Keegan	Bunbury based
Vic Roberts	Perth based



Shiftwork Training at Lawlers

MARCSTA hits 75,000

Don Breen is the 75,000th student to complete the MARCSTA General Induction.

Don's induction course was conducted by MARCSTA provider Linda Elezovich, at the Caterpillar Institute.

Originally employed by WesTrac Equipment as an auto electrician, Don has become multi-skilled in all areas of field service. Don completed a MARCSTA refresher to continue gaining access to mine sites throughout Western Australia.

We congratulate Don and the Caterpillar Institute.



Trevor Williams - General Manager Caterpillar Institute, Don Breen, and Linda Elezovich - Caterpillar Institute MARCSTA provider

International Society of Mine Safety Professionals (Australia)

Incorporation of the Society now Complete

The Incorporation of the Society was achieved on 22 August and applications for membership will be available from 1 September.

As reported in previous Monitors, membership is available in the categories of professional, associate and student and invitations to apply for membership will be forwarded to those persons who have previously registered an interest.

Jim Torlach is the inaugural Chairman of the Society with Terry Condipodero as his deputy.

The first activity of the Society will be a joint sponsorship of the Risk Communication seminar to be conducted by Dr Vincent Covello in October with registration discounts available to applicants for membership of the Society.

The validation process for professional certification is expected to be in place early in 2002 and members will be kept informed of progress.

Enquiries about membership should be directed to Paula Sinclair on (08) 9355 1400 or email marcsta@eftelradio.com



Risk Management Course a Step Closer

It was review and improvement time for the risk management course which MARCSTA will offer next year. Geoff Simpson from Amey-Vectra in the UK Midlands presented the draft course to a small review group in early August. Geoff has had more than 30 years experience in ergonomics and 20 years in mining.

Recently he has been working on a new approach to occupational health in the construction industry in the UK, facing up to the industry's mobility and the fact that 80% of companies have less than three employees.

In line with the philosophy of meeting nationally recognised training packages, Geoff took as a starting point the competencies in the national metalliferous package's *Apply Local Risk Control Processes*.

The new MARCSTA course is aimed at giving ordinary workers - those who work with the risks - hands on risk management skills.



Shown left to right are: Mike Rowe - DMPR, Geoff Simpson and Greg Harris - MARCSTA past chair. Pat Gilroy, Terry Condipodero, Ross Graham, Ron Baker and Geoff Taylor also took part in the review.



Australian Raise Drilling Pty Ltd ▼▼▼▼

Australian Raise Drilling Pty Ltd (ARD) is a specialist raise drilling contractor undertaking a complete range of drilling contracts from small slot holes to large diameter vent or haulage shafts. As an example, the company is contracted to WMC at Olympic Dam for all of the raise drilling works there, including 1.4m diameter slot holes and is also currently contracted to Rio Tinto to drill 900m deep vent shafts at 3m and 4m diameter. ARD is based in Adelaide with offices in Perth.

From its commencement, 13 years ago, ARD has grown to be Australia's premier raise drilling company and has successfully completed almost 70,000m of raise drilling for all of the major mining companies in Australia. The fleet of 11 rigs enables ARD to offer the complete range from slot holes and box holes to large diameter shafts. ARD has all of the associated equipment such as mud plant, reaming heads and forklifts needed to undertake any raise drilling project successfully.

In conjunction with its associated company, Combined Resource Engineering Pty Ltd (CRE), ARD is able to offer complete shaft solutions including lining, stripping and lining, haulage systems, and second means of egress systems.

ARD and CRE provide services to the mining industry for the drilling or drill/strip and line of large diameter shafts. In addition, CRE can provide consultancy services for feasibility studies for new mine proposals, particularly with the reference to the shaft haulage requirements.

ARD is involved in a number of significant projects at present, including a 5.3m by 180m shaft at Ulan Coal Mine. This is the largest diameter shaft constructed by single pass raise drilling in Australia. It involved pre-sinking, raise drilling and subsequent concrete lining of the remaining section of shaft. All of the work was undertaken in-house by the ARD/CRE team. Other recent work includes:

- Drilling of a 4.5m by 470m ventilation shaft at Newcrest's Ridgeway mine as well as pre and post sinking of the top sections of these vent shafts
- A boxhole drilling contract for slot holes at Western Metals' Lennard Shelf Operations
- Slot holes and 4.5m diameter vent shafts at WMC's Olympic Dam mine
- Raise drilling at Normandy's Bronzewing gold mine.

Work safety is also a priority and ARD is proud of it's excellent safety record. In all, the ARD/CRE group offers a professional and pragmatic approach to all shaft projects.



ARD's largest raise drill - the 121R, on site.



Occupational Health & Safety Training Resources

WestOne Services publishes a full range of textbooks and workbooks for National Certificate 3, Certificate 4 and Diploma level courses in Occupational Health and Safety (OH&S).

- Certificate 3 – Award-winning Enhancing Safety 3rd Edition text and eight workbooks (ABD500-7)
- Certificate 4 – Award-winning Enhancing Safety 3rd Edition text and six workbooks (ABD530-5)
- Diploma – Award-winning Advancing Safety text and ten workbooks (ABD560-9)
- A set of three workbooks based on the Generic Competencies published by Worksafe Australia, suitable for use in OH&S modules for other courses.

Textbooks and workbooks are available separately or in packs. They are also suitable for short course industry training.

For further information or to request a brochure, please contact:

WestOne Services
Prospect Place
West Perth WA 6005
Tel: (08) 9229 5252
Fax: (08) 9229 5292
Email: training.pubs@westone.wa.gov.au
<http://estore.westone.wa.gov.au>



From the World Mining Press...

LATERITIC NICKEL

The *AusIMM Bulletin* for June-July 2001 notes that the lateritic nickel/cobalt plant at the QNI Yabulu refinery in Townsville started in 1974 using imports from New Caledonia, Indonesia and the Philippines. Now owned by Billiton, there are expansion plans to process WA's planned Ravensthorpe nickel concentrate.

WMC APPROACH TO FATALITY REDUCTION

The *AusIMM Bulletin* for June-July 2001 also carries a paper from Daniel Moss. Written for the AusIMM Youth Congress 2001 it deals with Elimination of Fatalities - Development, Implementation and Maintenance of WMC Major Hazard Standards at Olympic Dam.

FUTURE CHANGES FOR CYANIDE LEACH

Australian Mining for July 2001 reports that the AJ Parker Centre at Murdoch University is looking at thiosulphate leaching of gold. More control is required than for cyanide, but there are some chemical, OHS and environmental pluses.

DUST CONTROL

Australian Journal of Mining for July-August 2001 reports on Ondeo Nalco's Dust Ban 81610. It's an organic surfactant for ultrafines on haul roads, and offers up to 50% water saving, reduced water truck use and enhanced haul truck filter life. It's biodegradable and non-corrosive.

HOW THE PUBLIC SEES US

In *International Mining and Minerals* for July 2001 authors T. Szwedzicki and R.A. McGill look at the impact of public perceptions on the mining industry. It's a good read and shows mine disasters, community pressure and legislative discussions graphed against the OHS, environmental and social, and legal and political responses.

WET OR DRY HIRE?

The *Earthmover and Civil Contractor* for June 2001 discusses the pros and cons of wet (with operator) and dry hire of equipment by contractors. It says safety, productivity and flexibility are better with wet hire.

TYRE SAFETY

Sauer-Danfoss now have a telescopic wireless controlled remote tyre handler, says *Mining in South Africa*. Dump

truck change time is reduced from 4hrs to one and a half and it offers absolute operator safety. The maximum weight handled is 7.8 tonne.

SUSTAINABLE DEVELOPMENT

The future of the world minerals industry is inseparable from sustainable development says the *Mining Journal* of 27th July 2001. Thirty two leading mining companies and fifteen other partners including the Australian Government set up the Global Mining Initiative in 2000. The key initiative is the Mining and Minerals Sustainable Development (MMSD) Project. PriceWaterhouseCoopers have just published a preliminary review.

Australia has an MMSD Regional Reference Group. Contact Bren Sheehy bren@ameef.com.au website: ameef.com.au/mmsd. Newsletter: MMSD Update

DRIVER TRAINING & EDUCATION CENTRE



Providing a
Wide Variety of
Accredited Driver
Training Services



- ➔ Fleet Vehicle Training Specialists
- ➔ 4WD Corporate and Recreational
- ➔ Nationally Accredited Courses
- ➔ Training Throughout Australia and Asia



BOOKING & ENQUIRIES

(08) 9246 4177



Business: Stirling Regional Centre, 7 Silica Road, Carine, WA 6020
Postal: PO Box 246, North Beach, WA 6020 Fax: (08) 9246 4179
Website: www.dtec.com.au Email: admin@dtec.com.au

MARCSTA Members

FULL MEMBERS

Ausdrill Ltd
Australian Raised Drilling
Barmingo Mining Contractors
BGC Contracting
Brambles Ltd
Brandrill Ltd
Charles Hull Contracting
Cook's Construction Ltd

CSR Readymix

JR Engineering Services Pty Ltd
Macmahon Contractors
NS Komatsu
Roche Bros
Skilled Engineering
Thiess Contractors
Total Corrosion Control
Westrac

ASSOCIATE MEMBERS

Driver Training and Education Centre
Tony Aveling and Associates
Mandurah Safety and Training Services
St. Barbara Mines

This list is current at the time of going to press but for further information contact the Secretariat on 08-9355 1400 or Fax 08-9355 1499



Who's who?

Chief Executive Officer
Pat Gilroy

Chairperson
Terry Condipodero
JR Engineering

Vice Chairperson
Joe Maglizza
CSR Readymix

Sectoral Liaison
Terry Condipodero
*General Fabrication &
General Contracting*

John Lemon
*Southwest, Harbours &
Kwinana Strip*

Warren Claydon
Labour Hire

Des Shaw
Earthmoving & Civil

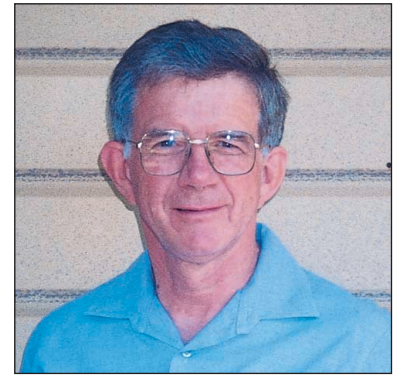
**General & Underground
Manual and Facilitators'
Guide Review, Provider
Registration Panel Chair**
Joe Maglizza

**Criteria & Recommendations
for Registration**
Ross Graham

Accreditation
Irene Ioannakis

MARCSTA Monitor Editor
Geoff Taylor

Editorial



Geoff Taylor

Let me knit together a number of issues sprinkled throughout this issue. The triple bottom line - financial, OHS and environmental, is getting an increasing airing as a barometer of company performance. For example, pressure from a board for fast ramp-up to start cash flow must be balanced against OHS and environment.

On the environmental side, a recent special report on mining in the *Australian Financial Review* said that some cynically saw the minerals industry sustainable development initiative (MMSD) as an attempt to "greenwash" the industry. It is in reality a responsible attempt to look forward, because although, as Rio Tinto's Sir Robert Wilson noted, no sphere of human endeavour can bear scrutiny on the basis of judging past error or omission by today's standards, that is now society's expectation. On the OHS side *The Fin* also carried an OHS special report. National Occupational Health and Safety Commission chairman Dennis Else's "sign of the future" was using supply chain management systems to manage safety. As part of this, pre-tender qualification already looks at the triple bottom line.

Contractors are an important part of a company's supply line, and good contractor records on the triple bottom line, deliver important benefits for the principal. One recent fatality occurred when a principal took over a job after the contractor refused because it was their view that weather conditions made it unsafe to proceed.

The supply chain also involves purchase of used equipment. A current NSW Industrial Relations Commission finding, on appeal, against a Victorian wood chipper maker, highlights this issue.

The supply chain notion emphasises safe design over reliance on procedures to ensure safe use. Safe design was the Worksafe WA option for chippers after a youth was killed on the job. Yet surprisingly US NIOSH recommendations in a report on chippers at the same time failed to emphasise design over procedures.

There is a clear message about design here for all types of plant.

Ausdrill Proud of Safety Record

MARCSTA Member Ausdrill has something to be proud of. It recently celebrated 1000 LTI-free days at its Kambalda Depot. Ausdrill staff handle exploration drilling machinery.

Safety and training coordinator Kevin Mc Cloy, said introducing a Key Performance Index, and pushing the company safety management plan played an important part. While the morale boost is good, Ausdrill won't be resting on its laurels, Kevin notes.

(with acknowledgement to the Kalgoorlie Miner).

MARCSTA REGISTERED PROVIDERS

Jayson Aveling	Aveling and Associates	Sharyn McCulloch	NOSA Ltd Queensland
Tony Aveling	Aveling and Associates	Malcolm McFarland	IFAP
Tom Bateman	TRACMIN	Nick McIntyre (U)	Aveling and Associates
Carl Berglin	CJB Consultants	Jeff Mathews	Safety Paradigms (Aust) Pty Ltd
Danny Bogнар	Tom Price and Sons	Greg North	Mobile Skills Training
Clive Brindley	JG Engineering	Graeme Richards	Richards Mining Services
Peter Chinnery	Baseline/Chubb	Darren Ridley	TRACMIN
Dale Cocker (U)	Burnie TAFE	Jason Roberts	Aveling and Associates
David Collins	D&S Safety Training	Victor Roberts	Aveling and Associates
Geoff Day	Mandurah Safety and Training Services	Gary Sharpe	Roche Mining
Peter Dowding (U)	JR Engineering Services Pty Ltd	Brian Smith (U)	OSHTRAM
Joe Duyvestyn	TRACMIN	Rennie Sterle	Kelport Pty Ltd
Linda Elezovich	Caterpillar Institute	Wayne Sullivan	IFAP
Helen Fleming	Strudwick HR	Stephen Taylor	Stephen G. Taylor Consultancy
Ashley Gilbert	Ausdrill Ltd	Peter Tredgett	Baseline/Chubb
Ross Graham	NS Komatsu	Peter Tynan (U)	Tassmia Safety Training Services
Ray Hargreaves	Aveling and Associates	Dave Watkins	Safety Skills Training
John Joyce	Hampton Transport	Chris Wilson	Aveling and Associates
John Lemon	Total Corrosion Control		
Guy Le Noir	Switched Onto Safety		
Robert Lewis	Baseline/Chubb		
Bert Lundie	Baseline/Chubb		
Joe Maglizza	CSR Readymix		

U denotes underground trainer as well.

This list is current at the time of going to press but for further information contact Anna Verteramo at the Secretariat on Phone 08-9355 1400 or Fax 08-9355 1499.



PROVIDER PROFILE PROVIDER PROFILE

TRACMIN

Tom Bateman is the Director of TRACMIN. TRACMIN, Training Action in the Mineral Industry, was established in 1982. Tom has been involved in the mining industry since owning his first miner's right and share in a lease in 1962. Tom graduated from the WA School of Mines in Kalgoorlie in 1974, and has since worked in the Eastern Goldfields, Murchison, Pilbara, and more recently, Arnhemland, Gulf and Tanami regions as a contractor and training consultant. He has specialised in workplace Aboriginal programs.

As a Quality Endorsed Training Organisation, TRACMIN offers nationally recognised training units from the Metalliferous Mining, Extractive Industries and Transport Training Packages. TRACMIN is a leading provider of MARCSTA Inductions, and now also offers Shiftwork Lifestyle (Fatigue Management), Transport Safety, Risk Management, Audits, Accident Investigation and Registered Training Organisation (RTO) partnership services. The RTO partnerships include assessment, training and RCC (Recognition of Current Competencies) to mining, resources and contractor groups. In addition to developing a team of providers that operate across Australia including Tasmania, Northern Territory, Perth and Sydney, TRACMIN specialises in remote sites, anywhere, anytime.



Some of the TRACMIN team (L to R): Joe Duyvestyn, Val Simpson, Tom Bateman, Rennie Sterle and Judy Willock.

TRACMIN has just relocated to 82 Beaufort Street, Perth, opposite the Museum.

The new facilities include three purpose built seminar training and assessment rooms with associated offices. The location makes it convenient to Perth Central station and the Mitchell and Graham Farmer Freeways, with public car parking available.

The future looks bright for continuous improvement of individuals and safety systems to improve our quality of life while at work. The TRACMIN team will work towards the goals of improved production and safety and health performance.

Conferences & Courses

Open Pit Mining Slope Stability and Slope Modelling

Perth 27-28 September 2001. Australian Centre for Geomechanics.

Contact: Josephine Ruddle, phone: 08-9380 3300, fax: 08-93801130 email: acg@acg.uwa.edu.au

International Codes, Technology and Sustainability for the Mining Industry

Cairns 27-28 May 2002 followed by *Green Processing* 29-31 May.

Contact: Miriam Way, phone: 03-9662 3166, fax: 03-9662 3662, email: conference@ausimm.com.au

China Coal and Mining Expos

Beijing 9-12 October 2001.

Contact: Together Expo Ltd (H.K.), phone: + 852 2881 5889, fax: +852 2890 2657,
email: info@together.expo.com

New Publications

Worksafe WA: Guidance Note - Movement of Vehicles

DMPR (WA) MOSHAB: Mine Safety Matters packages including posters:

Drill Rig Operation, Working Near Large Mobile Equipment, Working at Height,
Working in Hot Processes, Rail Vehicle Crossings, Working in Remote Locations,
Structural Safety of Large Plant.

MARCSTA Monitor

The Monitor is published quarterly by:

MARCSTA
Suite 11,
Petroleum House,
3 Brodie Hall Drive,
Technology Park,
Bentley 6102

Phone 08-9355 1400
Fax 08-9355 1499
Email
marcsta@eftelradio.com
Website
www.marcsta.com

Monitor Editor:
Phone/Fax
08 9354 7590
Email cindynic
@starwon.com.au

ANNUAL GENERAL MEETING

The MARCSTA Annual General Meeting will be held at the Pan South Room, Metro Inn, Canning Highway, South Perth at 3.30pm on the 14th September.

Please advise us if you want to change the number of copies of The Monitor you receive, or you don't want to receive it!

MEMBERSHIP & ASSOCIATE MEMBERSHIP

Are you a company with employees on mine or other sites which require a MARCSTA induction? Consider MARCSTA membership. Do you provide services on site to MARCSTA members? Consider associate membership of MARCSTA. For full details of fees and benefits contact Anna on 9355 1400.

Advertising

A limited amount of advertising is invited for the next issue.
Please contact the Editor.

**PRODUCED BY: Work Safety and Health Associates and
PRINTED BY: Delta Print for MARCSTA**