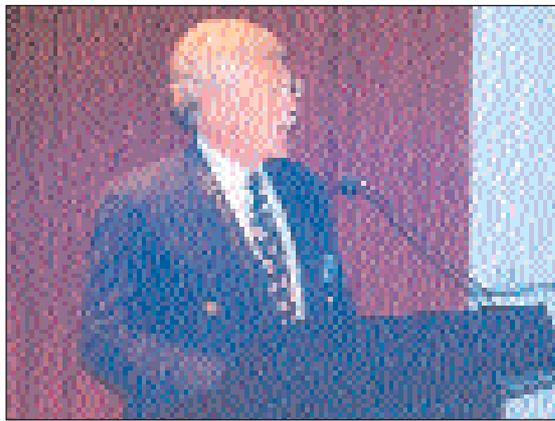




VOLUME 5
ISSUE 1
MARCH 2001

Shiftwork Initiative Launched by the Outgoing Minister

The launch of the new initiative "Managing a Shiftwork Lifestyle - A Personal Approach" on 6 February at Technology Park was the culmination of almost a years work to identify and shape a program to meet the health and safety needs of the ever-increasing number of shiftworkers in the mining and a number of other industry sectors.



Above: Former Mines Minister Norman Moore launches *Managing a Shiftwork Lifestyle*

The impact on workers and their families of the twenty four hour society has long been recognised but never adequately addressed.

Sleep deprivation and the need to address the fatigue, stress and family disruption that are its consequences are now recognised as a major health concern both within the workforce and in society in general.

The following edited version of the address given by the then Minister, Norman Moore, highlights the urgent need for employees to be trained to self manage a shiftwork lifestyle.

It is a great pleasure to be here with you today to launch this training program on managing a shiftwork lifestyle, which MARCSTA has developed.

Nothing is more fundamental to mining safety than relevant and effective training.

And this principle applies to managing the pressures of shiftwork as much as it does to managing the hazards of rockfalls.

Indeed, guidelines on shiftwork produced by the Chamber of Minerals and Energy and the MOSHAB *Guideline on Managing Fatigue in the Mining Industry* both state that persons must be trained to cope with the demands of shiftwork, in the interests of their safety and health.

Training is also regarded as an important element of the general duty of care for the employer, which is underpinned by the Mines Safety and Inspection Act and Regulations, in particular, the regulation which requires every employee to be given adequate instruction and training in safety procedures and systems of work. *(Continued Page 2...)*

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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

Shiftwork Initiative Launched by the Outgoing Minister (Cont...)

And with this MARCSTA program, the mining industry now has a nationally accredited course which equips individuals with the skills and knowledge to deal with the pressures of shift work.

It provides practical guidance for adjusting to shiftwork including:

- better sleeping strategies for specific shift schedules;
- maintaining alertness to ensure a safe and healthy workplace; and
- how to manage social and family issues caused by changes to work schedules.

This is a course we really need because we live in a society which operates virtually 24 hours a day. And this is especially true for much of the mining industry, where there are considerable advantages to operating shifts.

Keeping operations ticking over 24 hours a day, 7 days a week allows the use of capital equipment and production to be maximised. So, it is important to help employees cope with the pressures associated with shiftwork.

It is my view that training in this area should be an immediate follow-on from the general and site specific induction programs.

And while this course is designed for persons employed to work shifts, all staff who have to manage and supervise shiftwork should also undertake this training.

For even if managers or supervisors don't actually work shifts themselves, they must understand its effects, so they can assist employees to manage the pressures they may experience.

I note this course has been nationally accredited and that it has been derived from work by Circadian Technologies in the USA, which is regarded as a world leader in the field.

I have no hesitation in commending this training program to the mining industry and I applaud MARCSTA for taking up this very important initiative. Your organisation has demonstrated that it understands the importance of the relationship between training and mine safety.

There is no doubt in my mind that appropriate training is the key to safe mining.

Interestingly, it is now almost 12 months since I celebrated with you by awarding the 50,000th MARCSTA Induction Certificate.

That occasion represented an important milestone, as it highlighted an industry-wide commitment to improving health and safety performance.

As shiftwork is an essential part of mining, I hope that MARCSTA will soon be celebrating a similar milestone with regard to this course.

Congratulations to MARCSTA too, for helping raise health and safety awareness in the mining sector, as well as improving its training base.

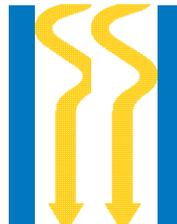
In conclusion, I encourage everyone in the industry to embrace this course and maintain the forward momentum we are building in respect to mine safety and health.

Remember, safety and health management is an integral part of running a mining business - it isn't an optional extra.

It's now my great pleasure to officially launch MARCSTA's new safety and health course - *Managing a Shiftwork Lifestyle - A Personal Approach* training course, and commend it to you.

"I encourage everyone in industry to embrace this course."

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FIRST SHIFTWORK TRAIN THE TRAINER

MARCSTA, as a result of an agreement with Circadian Technologies in Massachusetts, will offer the course *Managing a Shiftwork Lifestyle: A Personal Approach*, starting this year.

In December Pat Gilroy went to Boston for training, and ran the first train-the trainer in late January, with seven intending providers. All providers must hold a Certificate IV in Workplace Training, and have experience of shiftwork.

The course has six sections:

- Your biological clock
- Getting better sleep
- Staying safe and alert
- Staying healthy
- Eating for energy
- Shiftwork and family life.

The pictures on the new course manual show some of the range of work or workplaces needing this type of employee training. It includes hospitals, police, train transport, mining, fire and rescue, shipping, blood transfusion, and ambulances.

Dr Martin Moore-Ede, in his book *The Twenty-four Hour Society*, makes the point that the Challenger spacecraft fire on liftoff, the Chernobyl nuclear reactor meltdown in the Ukraine, and the Exxon Valdez supertanker oil spill in Alaska were all associated with shiftwork fatigue. In the case of Chernobyl, staff had already been thirteen hours on the job before they started the test routine which

went horribly wrong. Thyroid cancer in children in the Ukraine is now ten times the rate before Chernobyl.

Take the time to attend the course this year. Find out how it's possible to drive on Europe's fastest freeways while deep sleep brainwaves show on an EEG. Discover where your SCN is, what a zeitgeber is, and reduce the 65% higher risk of divorce if you're a shiftworker.



Trainers: Nick McIntyre, Ralph Keegan and Jayson Aveling. Pat Gilroy at front



Trainers: Helen Fleming, Tom Bateman, Vic Roberts and Ian Macky. Pat Gilroy at front

“Managing a Shiftwork Lifestyle – A Personal Approach” Program

MARCSTA has now accredited a number of trainers to deliver the recently accredited shiftwork package. This will enable the delivery of the training program in all regions, both on and off site.

Course content is described in the article above.

The program is the first to offer both the workforce and management the opportunity to become self-managers of the factors which lead to increased alertness and improved safety and health management.

It is the first of a series of quality of life programs to be developed by MARCSTA.

Guest Columnist...

The Commissioner for Occupational Safety and Health

Significant improvements in occupational safety and health performance have been achieved in Western Australian workplaces since modern general duty of care legislation was introduced in 1988.

The effectiveness of general duty of care legislation depends on all parties having access to information on current and emerging hazards and risks. High quality and ongoing induction go part way to addressing hazards and risks in the workplace. Induction should be seen as not only a training tool for new workers but also an ongoing relearning mechanism for all workers. This is especially so in high risk industries. We welcome the contribution MARCSTA makes to providing high quality induction training not only in mining but also in civil contracting and note with approval the references to the Occupational Safety and Health Act in their General Induction Handbook 2001.

With regard to induction, the duty of an employer is clearly outlined in section 19 of the Occupational Safety and Health Act and is echoed in The Mines Safety and Inspection Act. Without these important basics like proper information, instruction, training and supervision the safety goals of any organisation cannot be met.

WorkSafe Western Australia recognises another step to long-term success in achieving safe and healthy workplaces is for the department to work alongside industry and workplaces to identify and put in place the best solutions for managing safety and health.

A key focus for the department in 2001 is to deliver information, to enable all workplaces to have certain basics in place that are considered essential to improving safety and health performance in Western Australian workplaces.

This is part of our longer term strategy which involves working with industry and workplaces towards

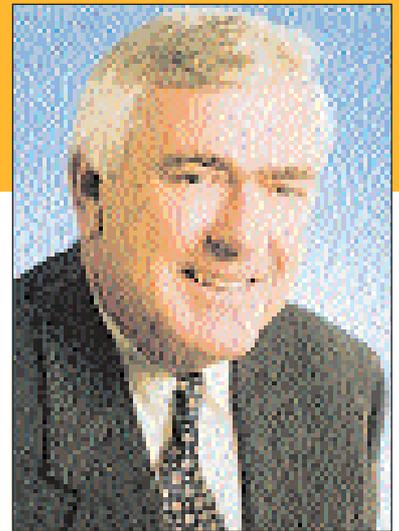
compliance with minimum legislative requirements, then moving beyond compliance to meet the general duty of care through a process of continual improvement, ultimately achieving excellence in safety and health management and performance.

As part of this strategy WorkSafe Western Australia has identified a number of priority areas we are targeting through our inspection programs, including hazardous substances, forklifts, manual handling, electricity, work at heights, demolition, and young people in workplaces. These are the workplace hazard areas which have been shown to continue to result in high rates of lost time injury or higher than average numbers of deaths.

For each priority area there will be a workplace checklist, which identifies the key aspects that the WorkSafe Western Australia inspectors will be focussing on in their inspections. These checklists will assist employers to address the key safety issues prior to an inspector's visit.

This focus on priority areas coupled with the duty of care legislation will strengthen our state's occupational safety and health outcomes.

Brian Bradley



“Without these important basics like proper... training... the safety goals of an organisation cannot be met”

MARCSTA Members

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Barmingo Mining Contractors
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Brambles Ltd
Brandrill Ltd
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CSR Readymix
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Westrac

ASSOCIATE MEMBERS

Driver Training and Education Centre

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?

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JR Engineering

VICE CHAIRPERSON

Joe Maglizza
CSR Readymix

SECTORAL LIAISON

Terry Condipodero
*General Fabrication &
General Contracting*

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*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



Yes. I'll say it. Welcome to the first edition of *The Monitor* in the third millennium (or 21st Century if you're happier with that scale of things).

Recently, wearing my non-MARCSTA hat, I was contacted by a company.

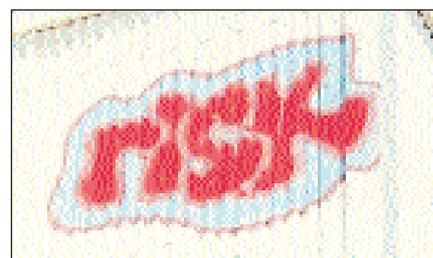
An employee had walked out of the front door and fallen into a trench newly dug by a cabling operator. There was no notification to the company with the street frontage, no bunting, and access by their customers and their vehicles was prevented. It is laughable but it happened. It is an obvious example of a risk which can be easily assessed and a problem which would be avoided by a civil contractor who took advantage of MARCSTA general inductions. The new General Induction Manual 2001 recognises the use of MARCSTA inductions both outside and inside the mining industry.

Risk exists in any workplace, and contrary to common belief, Professor Gerry Wilde, a Canadian risk expert, has found that people will try to minimise risks or minimise the consequences of risks in some activities, but take the opposite tack in other parts of their life.

But let's draw a key distinction. It is between what Norwegian Professor Gunnar Breivik calls action and arena. He found that, perhaps surprisingly, mountain climbers and skydivers are moderate risk-takers. The arena they enter is dangerous or high-risk, but their actions are aimed at ensuring risk is kept moderate. There's not a lot they can do to modify their environment, apart from having an eye to weather conditions, so they use thorough training, reliable equipment, one-on-one mentoring and graded experiences to keep the risk moderate.

Professor Wilde has found it is possible to use training games which have payoffs in dealing more effectively with real-world risk. "Brink" games for example allow people to learn how to handle situations where they must take a certain level of risk to achieve an acceptable payoff, but if they go too far or not far enough, they lose badly.

Providing training in a set of simple skills to assess risk and to learn to deal with it is a priority for MARCSTA this year, along with shiftwork management. More information on the risk course being developed for you in the UK will be available before long.



MARCSTA REGISTERED PROVIDERS

Tony Aveling	Aveling and Associates	Greg North	Mobile Skills Training
Reuben Barber	Macmahon Contractors	Darren Ridley	TRACMIN
Tom Bateman	TRACMIN	Victor Roberts	Roberts Safety and Training Consultancy
Carl Berglin	CJB Consultants	Gary Sharpe	Baseline New Era
Peter Chinnery	Baseline New Era	Brian Smith (U)	OSHTRAM
Dale Cocker (U)	Burnie TAFE	Rennie Sterle	Kelpport Pty Ltd
David Collins	D&S Safety Training	Wayne Sullivan	IFAP
Geoff Day	Aveling and Associates	Stephen Taylor	Stephen G. Taylor Consultancy
Peter Dowding (U)	JR Engineering Services Pty Ltd	Peter Tynan (U)	Tassmia Safety Training Services
Joe Duyvestyn	Duyvestyn Safety and Training	Dave Watkins	Safety Skills Training
Helen Fleming	Strudwick HR	Chris Wilson	Aveling and Associates
Linda Forsyth	Caterpillar Institute		
Ashley Gilbert	Ausdrill Ltd		
Ross Graham	NS Komatsu		
Ray Hargreaves	Aveling and Associates	Managing a Shiftwork Lifestyle – Accepted for Accreditation	
John Joyce	Hampton Transport	Tom Bateman	Perth based
John Lemon	Total Corrosion Control	Helen Fleming	Kalgoorlie based
Guy Le Noir	Switched Onto Safety	Ralph Keegan	Bunbury based
Bert Lundie	Baseline New Era	Vic Roberts	Perth based
Joe Maglizza	CSR Readymix		
Sharyn McCulloch	NOSA Ltd Queensland		
Malcolm McFarland	IFAP		
Nick McIntyre (U)	Aveling and Associates		
Jeff Mathews	Safety Paradigms (Aust) Pty Ltd		

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.

Review of Occupational Safety and Health Legislation in Western Australia

A review of occupational health and safety legislation operating in Western Australia by Senior Commissioner G L Fielding is currently underway. He is to consider submissions lodged on both the Occupational Safety and Health Act and the Mines Safety and Inspection Act.

Both Acts, which have similar aims, are being reviewed to ascertain where they have achieved their primary objective which is to promote and secure the safety and health of persons in Western Australian workplaces.

It is fair to say the occupational safety and health legislation in Western Australia has been beneficial to all industrial sectors with some perhaps performing better than others. The important achievements have been the stable environment which has been established and the success of the two Acts operating side by side. The cooperation between WorkSafe WA and the Department of Minerals and Energy WA has had synergistic benefits and there can be little doubt that Western Australia has achieved a unified approach not always apparent in other Australian jurisdictions.

The outcome of the review will be awaited with great interest.

Submissions on the Occupational Safety and Health Act have closed and submissions on the Mines Safety and Inspection Act must be lodged by 31 March. Contact fax no is 9420 4503. MARCSTA will be providing input on behalf of its members.

The content of that submission will be reported in the next *Monitor*.

New Providers

Jayson Aveling Tony Aveling and Associates

Danny Bognar Tom Price and Sons

Clive Brindley JG Engineering

Graeme Richards Civil Contractors Association



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HAMERSLEY IRON USING MARCSTA AS PART OF INDUCTION TRAINING

Hamersley Iron Pty Limited (HI) is a fully owned subsidiary of global mining group Rio Tinto. From its six mining operations in the Pilbara, Hamersley annually exports over 60 million tonnes of iron ore.

Hamersley's safety vision is to produce iron ore without people being harmed. The company has made significant improvements in its safety performance in recent years, but it believes that any injury is unacceptable and it strives to eliminate all injuries and occupational illnesses.

During 2000 Hamersley undertook a review of its safety induction processes across the business. An outcome of this review was the decision to appoint an accredited external training organisation to provide Hamersley's safety and environmental inductions. The company has engaged Tony Aveling and Associates, to give these inductions on Hamersley's behalf.

Hamersley requires that all contractors and new employees undertake the following induction courses as a pre-requisite of entry to their sites:

- **MARCSTA General Safety Induction.** This one-day course has become the industry benchmark in safety training. All contractors and

visitors who will be working unaccompanied are required to produce a MARCSTA certificate to gain entry to Hamersley's operations.

- **HI General Health, Safety and Environment Induction**

This half-day course, is specific to Hamersley's operations. It provides "must know" information to everyone who works for Hamersley. All contractors will need the Hamersley induction certificate to gain entry to HI sites.

(Continued next page...)



Tony Aveling with an Isolation Training board for Hamersley Iron

Tony Aveling and Associates Pty Ltd



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MARCSTA General Safety Induction
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and the HI Isolation Regulations



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MANDURAH SAFETY AND TRAINING SERVICES

Mandurah Safety and Training Services has been in business for five years. It has just completed building a safety management and training centre. The location is in Mandurah.

From this office it provides the secretarial service and resource library for safety advisers working in the field. They are able to fax or e-mail details or requests for information or typing directly to the office seven days a week, and have the information or documents returned promptly and efficiently.

The principal is Geoff Day. Geoff's experience has included managing safety for Transfield Maintenance at the BHP-HBI site in Port Hedland, safety consultant to O'Donnell Griffin at Wagerup, Decmil at the Robe River Mesa J project, and safety coordinator for BOS Australia on the Apache Stage Oil production facility offshore.

Geoff holds a range of tickets and licences, is qualified in workplace training and assessment, and is a skipper master Class 5.

Other staff are Terry Watt, Mick Wiggins, Chris Jacobs, Graham Wall and Sue Benton.

All safety advisers working for MSTs have had at least five years experience working on the tools prior to moving into safety management with a minimum of three years in safety. This gives them a better understanding of the degree of difficulty that may occur with some tasks required to be completed by the workforce.

MSTs requires formal training for its advisers - OSH courses, train the trainer, and workplace



Fall Arrest Training. Geoff Day of MSTs second from right

assessor. They must hold at least four certificates of competency.

Areas covered include workplace inspections, assisting supervisors with toolbox meetings, chairing safety committees, general safety management, incident investigations, writing or reviewing safety plans, and conducting or assisting in JSA sessions.

The training centre provides nationally accredited training and assessment in rigging, dogging, scaffolding, EWP, forklifts, crane operator, and MARCSTA inductions.

Other courses offered include confined space, gas monitor awareness, authorised gas testers, manual handling, hearing conservation, heat stress, PPE wear and care, safe work at heights and harness use, company specific inductions or training, dangerous goods handling and storage, aluminium mobile scaffold erection and dismantling, TELE PORTER (hydraulic boom) forklift course, and Ministry of Housing maintenance contractors Roofsafe course.

HAMERSLEY IRON USING MARCSTA AS PART OF INDUCTION TRAINING (Cont...)

• HI Isolation Regulations Course

Anyone who is required to place personal danger tags on machinery at Hamersley's operations is required to undertake this half-day course.

Further safety related training and orientation is provided by specific work areas, once the employee or contractor commences work. This process allows Hamersley to focus on identifying potential risks to the safety and well being of all individuals and gives continuity from the MARCSTA induction.

Tony Aveling and Associates provide induction courses in Perth, Tom Price, Paraburdoo and Dampier. For all enquiries about the MARCSTA General Induction, and the HI Isolation and Health Safety and Environment Inductions, and bookings, contact Tony Aveling and Associates at their Perth office on 9444 8555.

All contractors and visitors who work unaccompanied will be required to obtain the relevant certification by 30 June 2001.

ANZMEC National Mining Safety Taskforce discussion paper on: REALISING A SAFE AND HEALTHY MINING INDUSTRY – THE CONTRIBUTION OF GOVERNMENT

This discussion paper was released by the State Mining Engineer in February. Extracts of it are provided here:

A national approach is needed to support efficient, effective and equitable action by government.

This aims to:

- reduce duplication of effort;
- ensure legislative consistency so that the duties of stakeholders in the industry are clear and unambiguous; and
- support innovation and improvement.

The framework challenges all stakeholders to work together to create a safe and healthy mining industry. The document has been prepared in consultation with the mining industry and represents the views of all mining OSH jurisdictions. It is consistent with the National OHS Improvement Framework, prepared by the National Occupational Health and Safety Commission in 1999.

Aim and principles

The primary purpose of government action in OSH is to support a safe and healthy mining industry. To do this, government's contribution should:

- be nationally consistent, both within the mining industry and with other industries; encourage action by stakeholders at an enterprise level,
- be based on and foster a best practice approach and a continuous improvement focus, and
- recognise that responsibility for health and safety at minesites rests with employers and employees, while ensuring that senior management holds the accountability for leadership.

Goals for government in mining

Arising from the National OHS Improvement Framework and the role of government in mining, the goals for government in mining are to:

- establish open communication and coordination between the jurisdictions to support structured and strategic approaches
- establish a nationally consistent legislative framework, based on a general 'duty of care' approach
- establish nationally consistent and reliable OSH performance data collection systems so that decisions about prevention efforts can be based on valid information
- establish strategies to support effective research into safety and health in the mining industry
- develop a cooperative approach to providing support for duty holders in compliance that allows

for different needs (eg small versus large enterprises)

- update and align enforcement strategies so that duty holders understand the consequences of non-compliance and these are consistent across jurisdictions; and
- establish effective approaches to national and regional consultation with stakeholders.

The discussion paper then goes on to describe strategies to achieve the goals. These include legislative framework, data collection, research, compliance support, enforcement, OSH skills development and regional and national consultation. The paper also describes the roles of government. One is to support OHS skills development in the industry. Detail on the skills development strategy is included here because of its relevance to a training organisation such as MARCSTA.

"OSH skills development makes an essential contribution to the competence of people in the industry and should be supported by governments. Development and maintenance of OSH skills and competence is the responsibility of the industry, with governments involved in setting and monitoring of standards. OSH skills development should be consistent with the industry's training plan and the national training system, which provides nationally consistent training to the mining industry based on agreed industry standards. The certification of particular occupations by OSH jurisdictions directly parallels the industry's qualifications framework through the Australian Recognition Framework. In addressing this apparent duplication, governments need to ensure that standards of OHS competence are maintained.

Recommendation

Consideration should be given to working with the vocational education and training sector to develop a single qualification and certification system which ensures that standards of OSH competence are maintained without the expense and inefficiencies associated with running two parallel systems."

Implementation

The strategies outlined in this framework should be further developed in consultation with the industry. This should result in a nationally agreed work program for presentation to ANZMEC. The Conference of the Chief Inspectors of Mines should drive this development.

news and views...news and views...news

NORDBERG TAKEOVER OF SVEDALA

World Mining Equipment for December 2000 notes that Metso aims to be world leader in rock and mineral processing, after Metso's Nordberg took over Svedala. Metso's CEO Olli Vartimo says that rock is the most frequently used material in the world. His aim is that where you'll find rock, you'll find Metso.

NEW HIGH CAPACITY LOADER

Le Tourneau have a new L-2350 loader, *World Mining Equipment* also notes. With a 7.3 m dump height and 3.8m forward reach, it suits the loading of 360 tonne payload machines. The bucket capacity is 72 tonnes, and the new Bridgestone tyres are 1.78m wide and 3.95m in diameter. Each tyre weighs 6.8 tonnes. 1715 kW of power is available and all power units are controlled digitally.

INTELLIMINE

Modular Mining produces mine management systems to track machines and measure productivity. Mt Keith open cut nickel mine is using this Intellimine computer assistance operated by MARCSTA member Roche Bros. The underground package includes underground dispatch which allocates tram, truck and LHD dispatching. It uses a computer workstation, filed computers in vehicles, data radio based on leaky feeder or microcell with advanced token ring, and RF tags (beacons) to locate equipment. The beacon on the dump can be redefined if it is not accurately recording and this ensures the contractor gets paid correctly for bank cubic metres, tonnes moved and distance moved. So accurate information is shared between the contractor and the principal, *World Mining Equipment* for December 2000 notes.

New Publications

General Safety Induction Manual 2001, extensively revised and with more illustrations, MARCSTA, 9355 1400.

Odds, Gods and Accidents, Cindynics Applications Press 9354 7590

*National OHS Competencies for Employees,
Supervisors and Managers Workbooks*, WestOne, 9229 5200

Enhancing Safety - A Workplace Guide 1, 3rd ed. completely revised, WestOne, 9229 5200.

Conferences & Courses

Australian Gold Conference, Perth, 9-10 April, 2000.

Phone: 08 9226 1511 fax: 08 9226 1544, email: enquiry@conference.australiangold.org.au

Safety in Action 2001, Melbourne, 1-3 May, 2001.

Contact: AEC Pty Ltd, 03 9654 7773, fax 03 9654 5596, email: safety@aec.net.au

TRAM (Training Resources Applied to Mining) (Minerals and Energy), Fremantle, 27 -30 May, 2001.

Contact Donna Biddick, phone 08 8379 0444, 08 8379 4634, email: education@amf.com.au

Futuresafe 2001. Brisbane, 6-8 June 2001.

Contact Clare Rugg, phone 02 9666 4899, email: clare.rugg@nsca.org.au

Back to the Future. Minerals Council of Australia Environmental Workshop.

Broken Hill, 14-19 October 2001. Contact Nedra Burns: nedra.burns@minerals.org.au

news and views...news and views...news

ROCKBURST EARLY WARNING

Mining Journal for 19th January 2001 explains how the Spokane Research Lab of the the US National Institute of Occupational Safety and Health is trialling a system which detects electromagnetic emissions from rock-breaks. It is doing this in Coeur d'Alene's Galena mine in Idaho. In the past systems have relied on acoustic monitoring.

WALL COLLAPSE DETECTION

Australian Journal of Mining for December 2000 notes that four researchers at the University of Queensland's Cooperative Research Centre for Sensor Signal Processing and Information Processing (CSSIP) have won a research excellence award from the Australian Coal Association. The

system, tested at two sites, can detect 1 mm of movement. An advantage of the system is that no mirrors or reflecting devices need to be mounted on the rockface.

PREQUALIFICATION PROGRAM

The December 2000 issue of the *Earthmover and Civil Contractor* describes a prequalification program for small contractors. The program is designed to provide those letting tenders with evidence that management of quality, safety and environmental issues by small contractors is adequate.

ROCKBOLTS

World Mining Equipment for December 2000 describes a number of features of Swellex rockbolts invented by Atlas Copco. A collapsed circular steel tube is inflated with water under pressure once in the hole and adapts to the contours of the hole.

The Yielding Super Swellex deforms to adjust to large rock movements, and the Coated Swellex rockbolt combats corrosion which affects carbon steel.

E-MARKETING FOR MINING

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