

Industry Safety Statistics 2006

APPEA

Tim McGrath
Safety Advisor



APPEA

- The peak body representing the upstream oil and gas industry in Australia.
- APPEA's mission is:
 - To achieve a legislative, administrative, economic and social framework which efficiently and effectively facilitates **safe**, environmentally responsible, socially responsible and profitable **oil and gas exploration, development and production**.



Full Members (58) = 98% of Australian Oil and Gas Production

- AGL Energy Limited, Anzon Australia Limited, Apache Energy Limited, ARC Energy Limited, Australian Worldwide Exploration Limited, Avery Resources Inc, Bass Strait Oil Company Limited, Beach Petroleum Limited, Benaris International NV, BHP Billiton Petroleum Pty Ltd, Bow Energy Ltd, BP Developments Australia Pty Ltd, Calenergy Gas (Australia) Ltd, Central Petroleum Limited, ChevronTexaco Australia Pty Ltd, Comet Ridge Limited, ConocoPhillips Australia Pty Ltd, Coogee Resources Ltd, Cue Energy Resources Limited, Drillsearch Energy Limited, Eni Australia Limited, Enterprise Energy NL, Essential Petroleum Resources Limited, Esso Australia Pty Ltd, Hardman Resources Ltd, Icon Energy Limited, Innamincka Petroleum Limited, Inpex Corporation, Japan Australia LNG (MIMI) Pty Ltd, Kerr-McGee Oil & Gas Corporation, Kufpec Australia Pty Ltd, Lakes Oil NL, Magellan Petroleum Australia Limited, Marubeni Corporation, Mitsubishi Australia Limited, Mitsui & Co (Australia) Limited, Mosaic Oil NL, Nexus Energy Ltd, Nido Petroleum Limited, OMV Australia Pty Ltd, Origin Energy Limited, Papuan Oil Search Limited, Queensland Gas Company Limited, Roc Oil Company Limited, Santos Limited, Shell Development (Australia) Pty Ltd, Strike Oil Limited, Stuart Petroleum Limited, Sun Resources NL, Sunshine Gas Limited, Sydney Gas Company NL, Talisman Oil & Gas (Australia) Pty Limited, Tap Oil Limited, Tokyo Timor Sea Resources Pty Ltd, Total E&P Australia, Tri-Star Petroleum Company, Vermilion Oil & Gas, Victoria Petroleum NL, Woodside Energy Limited



Associate Members (95)

- Aker Kvaerner Australia Pty Ltd, Allens Arthur Robinson, Archimedes Consulting Pty Ltd , Aspermont Limited, Atwood Oceanics Australia Pty Ltd, Australian Drilling Associates Pty Ltd, Australian Energy Insurance Brokers, Australian FPSO Management Pty Limited, Australian Visa & Migration Services Pty Ltd, Baker & McKenzie, Basis Risk Pty Ltd, Blake Dawson Waldron, BOC Gases Australia Limited, Booz Allen Hamilton, Carbon6, CCI Training 7 Consulting, Challenger TAFE (AOGITC), Clayton Utz, Clough Engineering Limited, CO2CRC, Cool Energy Limited, Corporate Incident Management Associates (CIMA), Corrs Chambers Westgarth, Crockford Migration Pty Ltd, CSIRO Petroleum, Dare Contract Services, Deloitte Touche Tohmatsu, Diamond Offshore General Company, Downing Teal Pty Ltd, ECOS Consulting (Aust) Pty Ltd, Energy & Mining Training Solutions, EnergyQuest, Enesco Australia Pty Ltd, Ensign Australia Pty Limited, Environmental Resources Management Australia Pty Ltd (ERM), Ernst & Young, Farstad Shipping (Indian Pacific) Pty Ltd, Freehills, FrOG Tech Pty Ltd, Fugro Holdings (Australia) Pty Ltd, Gaffney, Cline & Associates Pty Ltd, Geotechnical Services Pty Ltd, Goldman Sachs JBWere Services, Halliburton Australia Pty Ltd, Harvey (Jr), Michael John, Holding Redlich, IFAP (Industrial Foundation for Accident Preventio, IGL Oil & Gas Consultants Pty Ltd, IPA Personnel, Japan Oil, Gas & Metals National Corp (JOGMEC), Jayrow Helicopters Pty Ltd, JOGMEC - Japan Oil, Gas & Metals National Corp, KPMG, Labrador Petro Management Pty Ltd, Lanmarc Consulting, Macquarie Bank Limited, Media Dynamics Pty Ltd, Mermaid Marine Australia Limited, Minter Ellison, National-Oilwell Pty Ltd, OneSteel Trading Pty Limited, P&R Geological Consultants Pty Ltd, Peak Group Asia Pacific, Petro People Australia Pty Ltd, PGS Australia Pty Ltd, PKF Chartered Accountants , Plan B Financial Services, Predrill Stresses International, Pricewaterhouse Coopers, Process Manufacturing Ind. Training Council of WA, QERL (Queensland Energy Resources Limited), Recon Exploration (Australia) Pty Ltd, RISC Pty Ltd, RobSearch Australia Pty Limited, RPS Energy (Hydrosearch), Safety & Risk Practice Pty Ltd, Safety Advisory Services Pty Ltd, Sasol Chevron Consulting Pty Ltd, Schlumberger Oilfield Australia Pty Limited, Sea-Tow Limited, Sparrows Offshore Services, Supplybase Pty Ltd, TAD Technical Careers & Contracts, Technip Oceania Subsea 7 Asia Pacific Pty Ltd, Tidewater Marine Australia Pty Ltd, Toll Energy Logistics Pty Ltd, Transocean , Upstream Petroleum Pty Ltd, URS Australia Pty Ltd, Weir ~ OCI (Weir Services Australia), Weir Services Australia, Westpac Institutional Bank, Wilson People Management Pty Ltd, Wood Mackenzie Limited, WorleyParsons Limited, WRAY & Associates



APPEA works with Industry, Workforce and Government

- APPEA provides services to the industry
 - Quarterly HS&O Policy Meetings
 - Safety Alert system
 - Operations Forum
 - Safety Incident Database
 - National Safety Conference
 - HSR Forum
- Engagement with:
 - NOPSA
 - DITR
 - Unions



- +8m hours
- LTIFR -0.1
- TRIFR -2.0

2005

	HOURS WORKED	LTIFR	MTIFR	ADIFR	TRIFR
Employees:	13,238,707	1.5	2.3	1.4	5.2
Contractors:	29,293,394	1.6	5.4	1.0	8.1
Total:	42,532,100	1.6	4.4	1.2	7.2

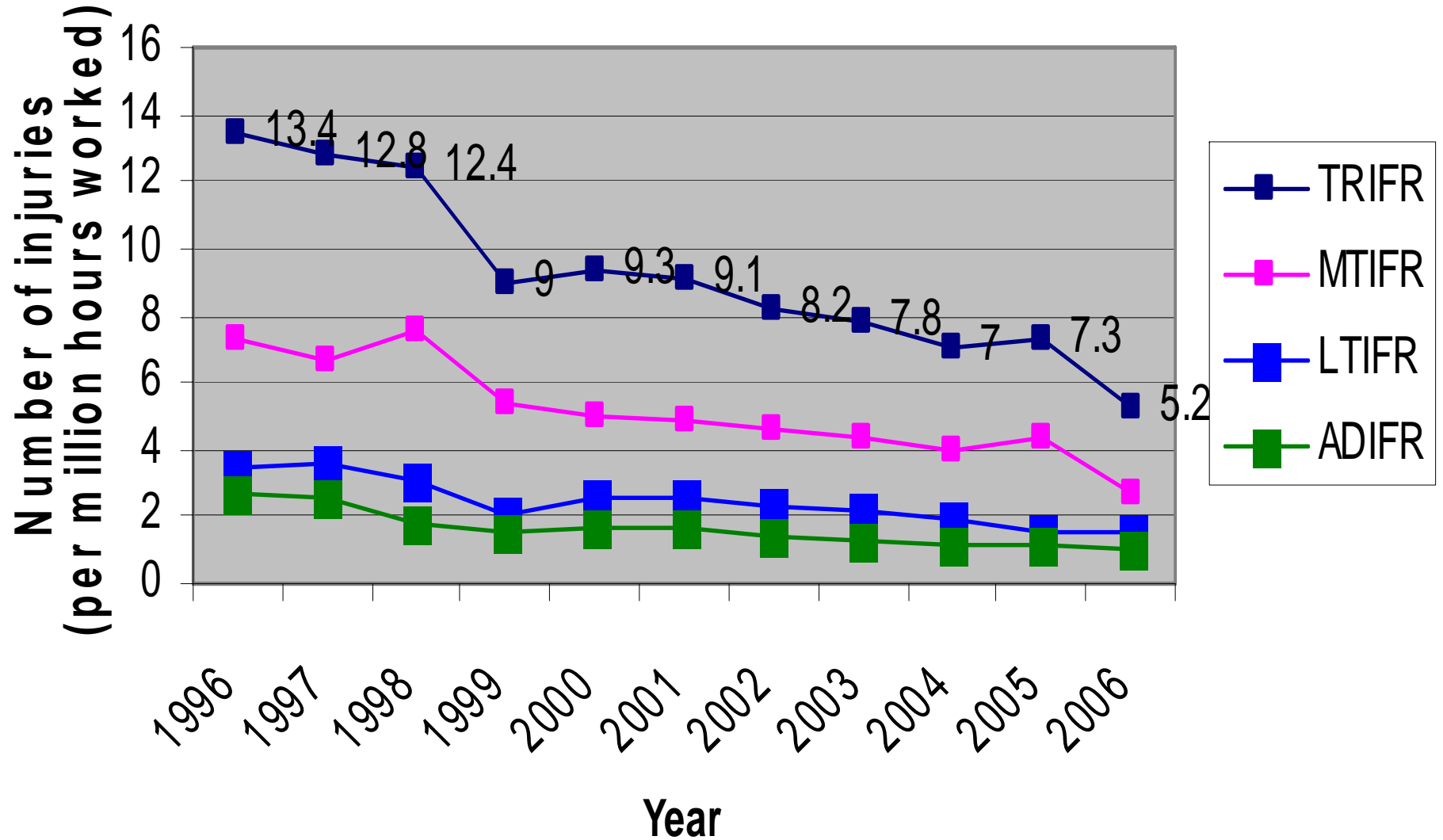
	# INCIDENTS (TOTAL)	# LTI INCIDENTS	WORK DAYS LOST	AVERAGE LOST TIME	FATALITY
Employees:	69	20	349	17.5	0
Contractors:	236	48	783	16.3	0
Total:	305	68	1132	16.6	0

2006

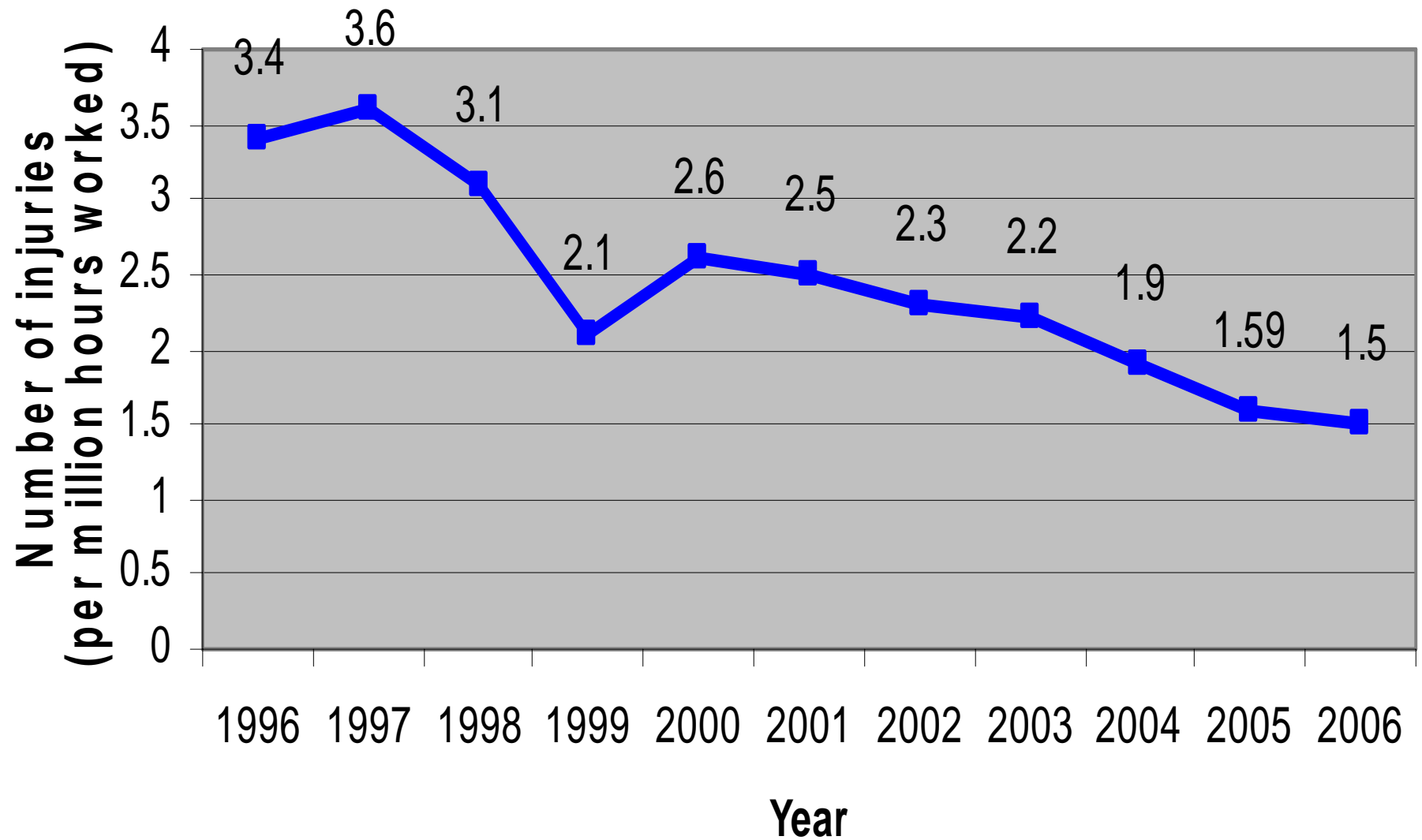
	HOURS WORKED	LTIFR	MTIFR	ADIFR	TRIFR
Employees:	16,528,454	1.4	1.5	0.7	3.6
Contractors:	34,391,055	1.6	3.2	1.1	5.9
Total:	50,919,509	1.5	2.7	1.0	5.2

	# INCIDENTS (TOTAL)	# LTI INCIDENTS	WORK DAYS LOST	AVERAGE LOST TIME	FATALITY
Employees:	59	23	511	22.2	0
Contractors:	204	54	411	7.6	0
Total:	263	77	922	12.0	0

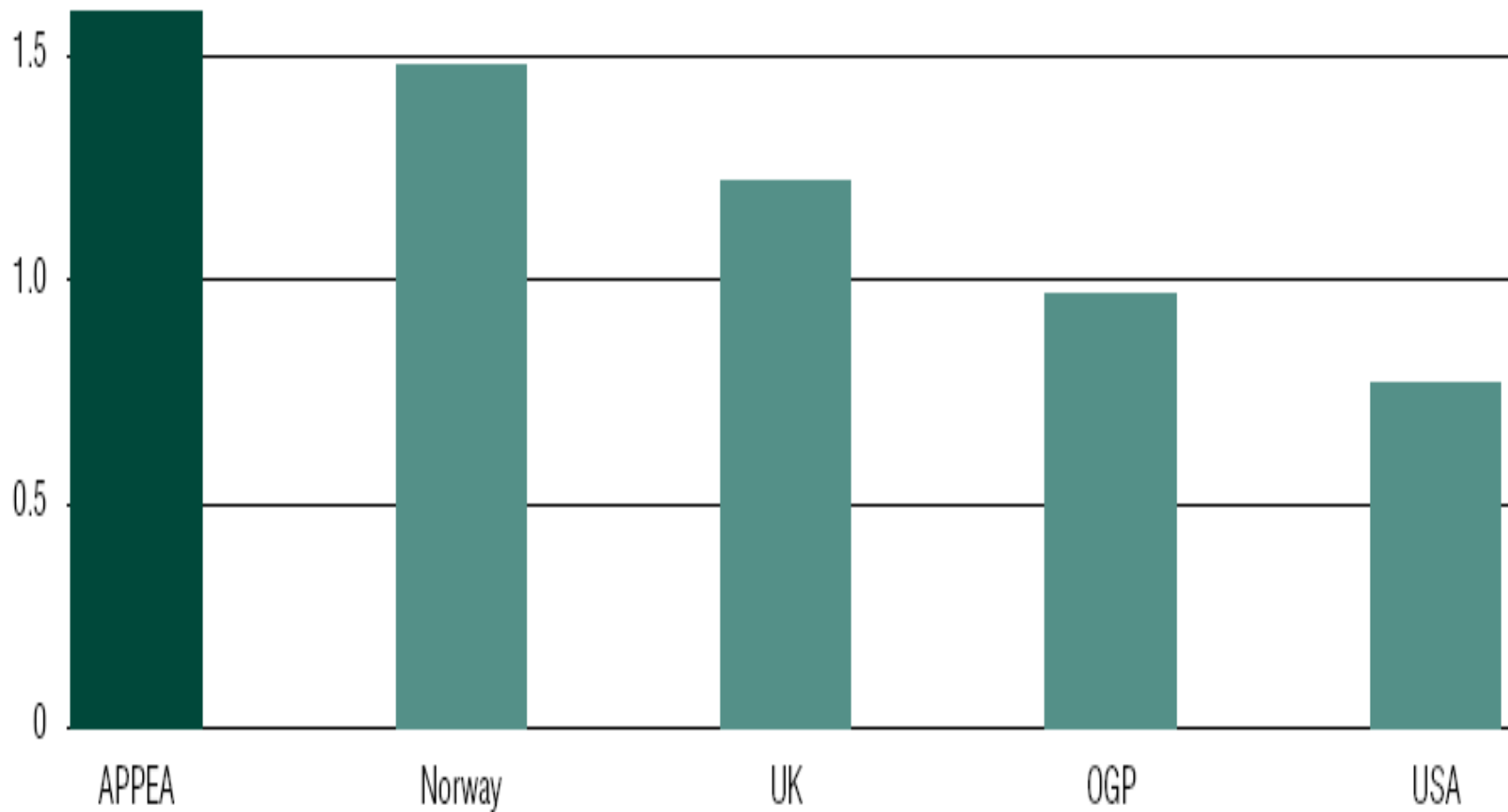
Injury Frequency Rates 1996 - 2006



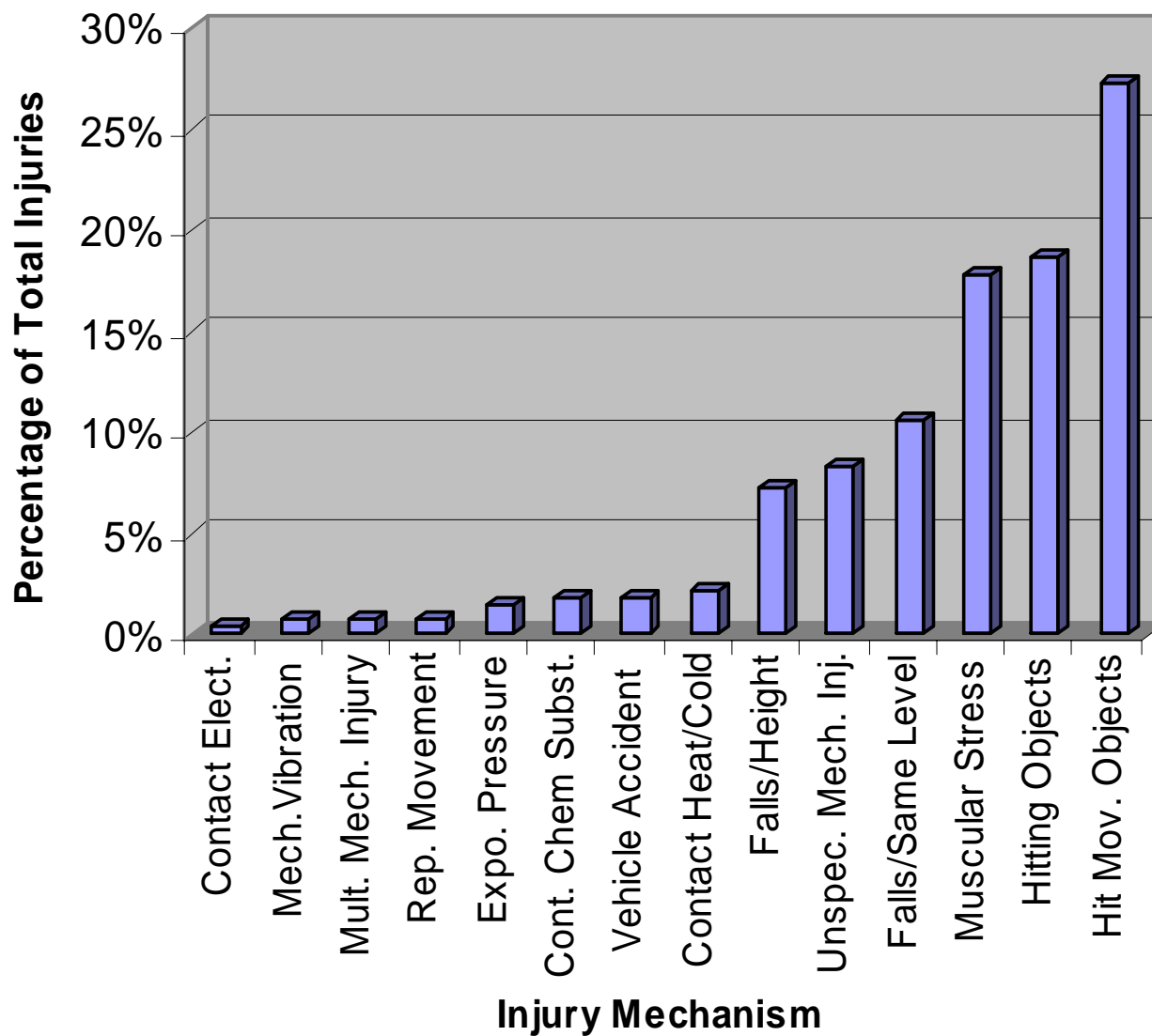
Lost Time Injury Frequency Rates 1996 - 2006



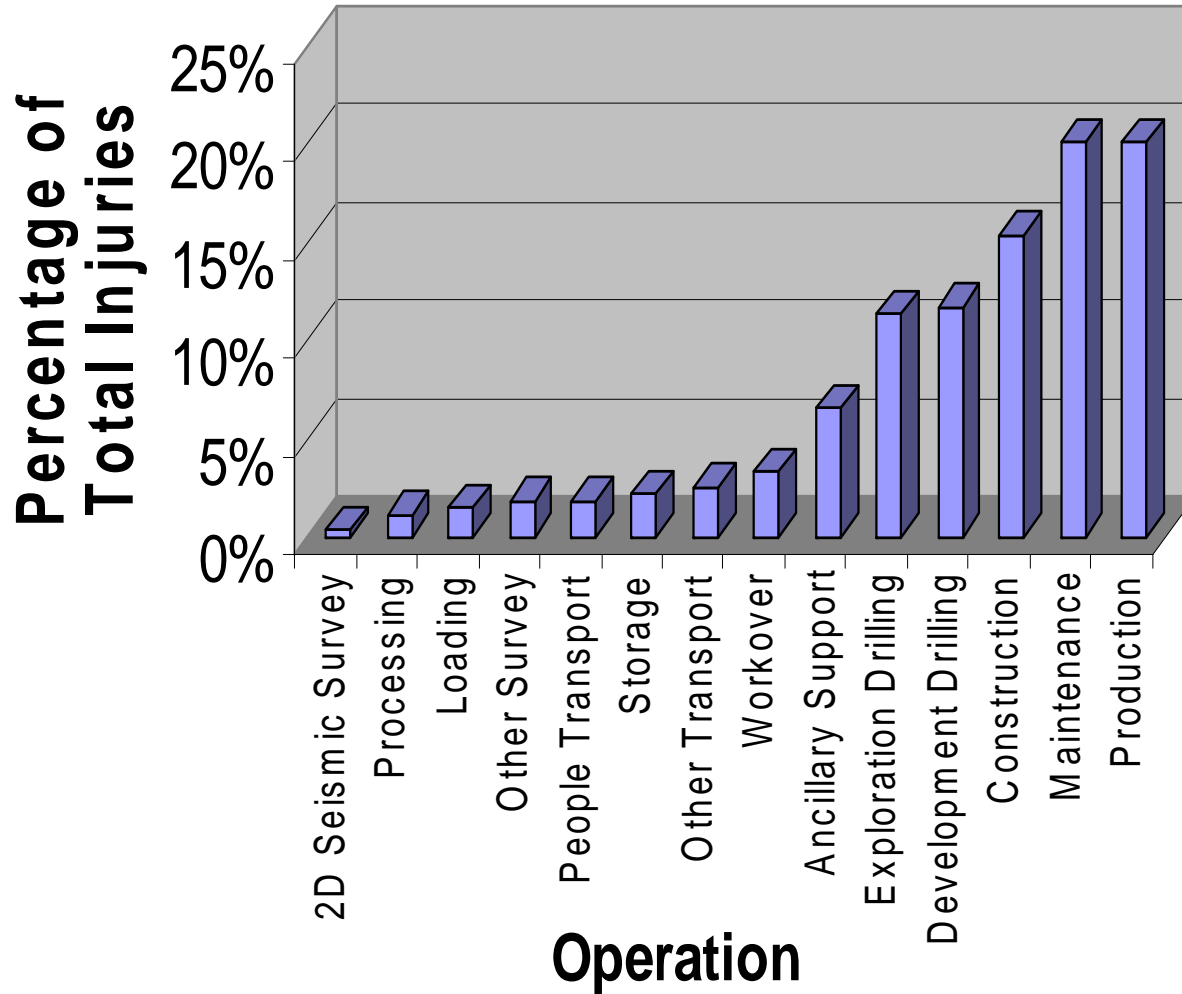
International Lost Time Injury Frequency Rates 2005



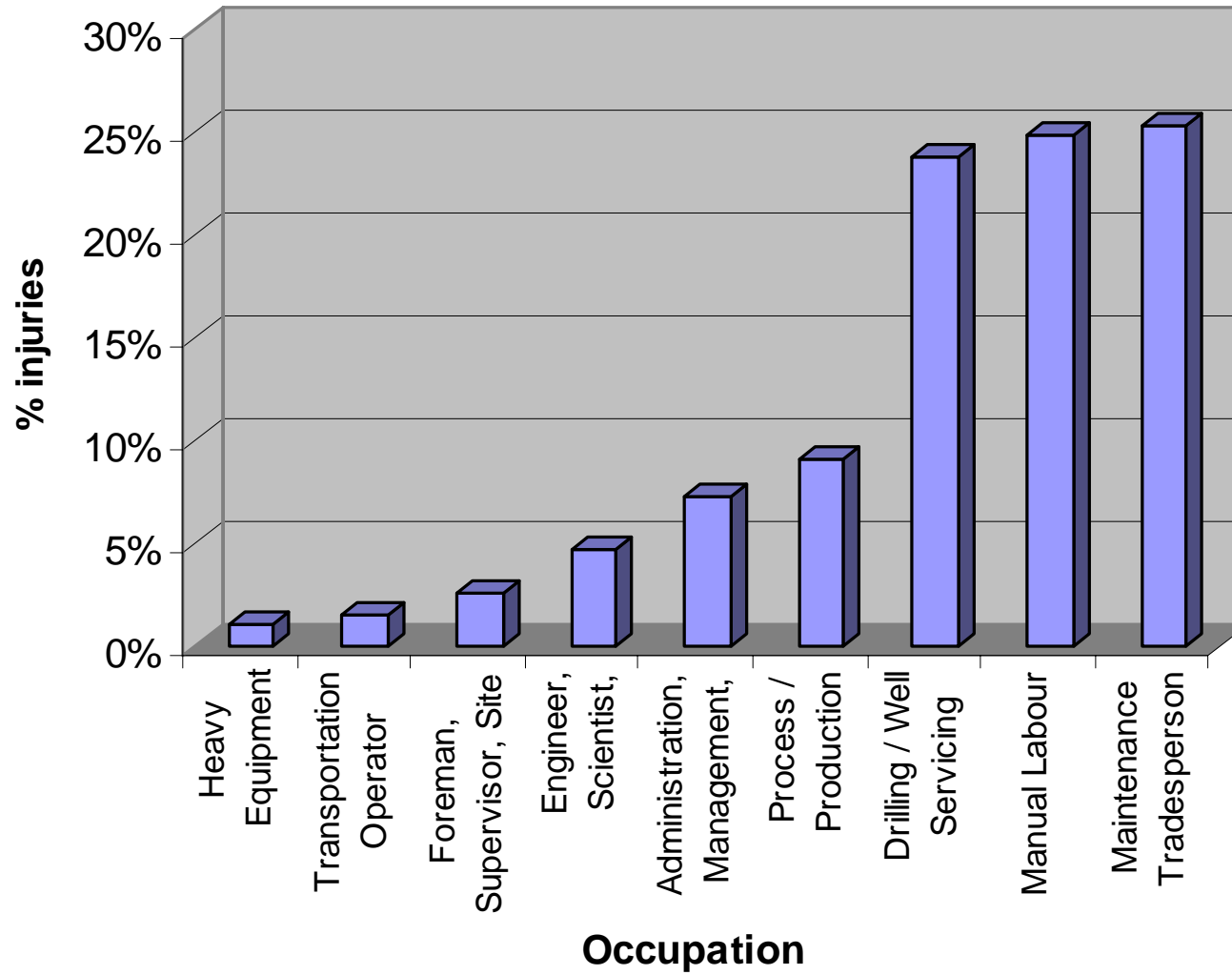
2006 Injury Mechanism % (Total = 274)



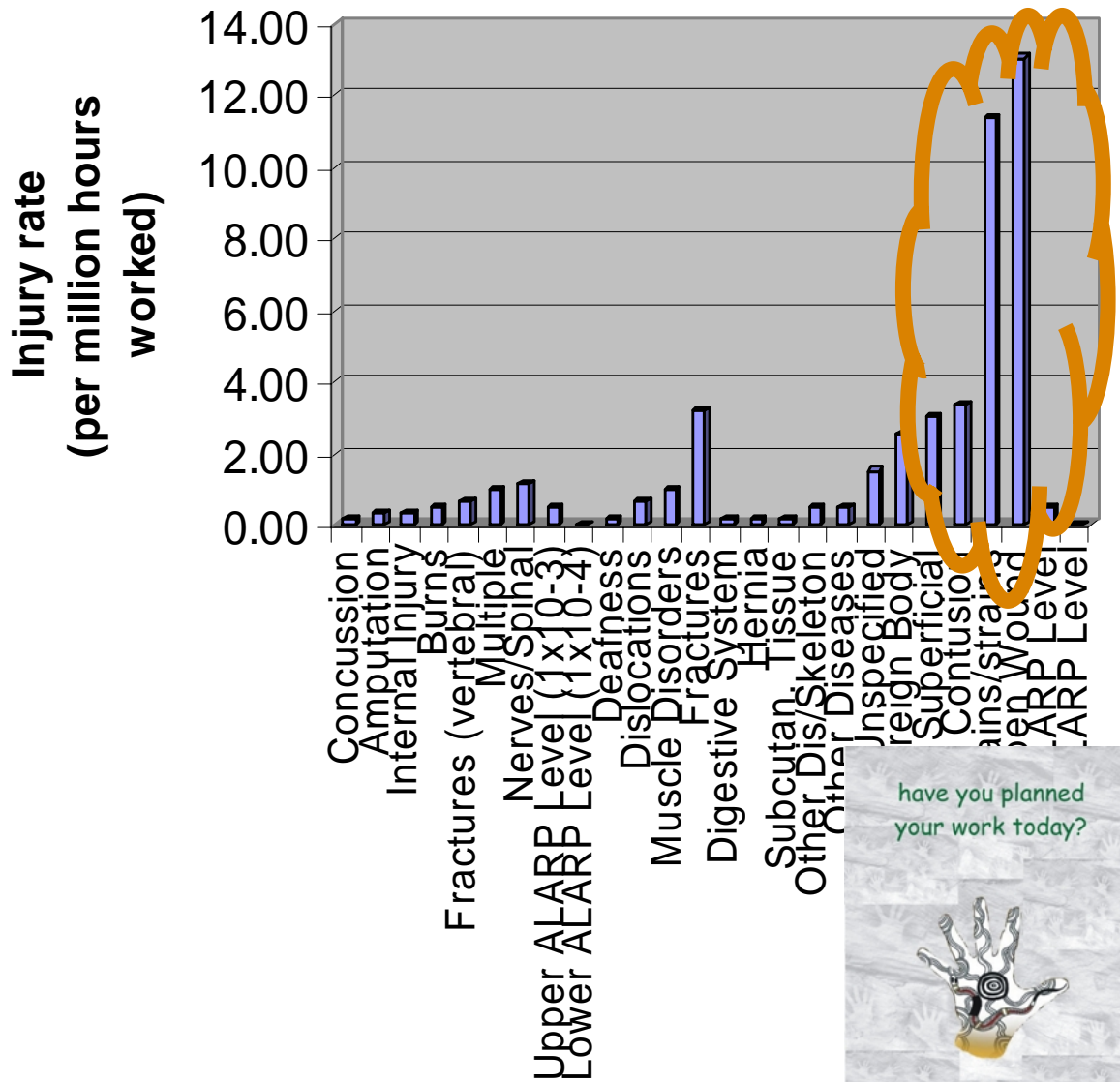
Injuries by Operation (Total = 273)



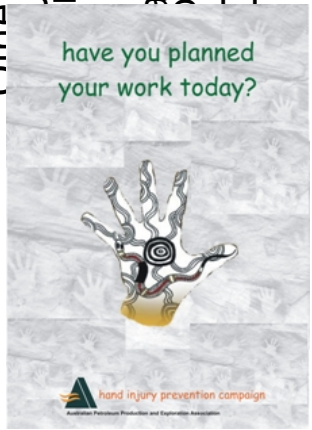
2006 Injuries by Occupation (Total = 277)



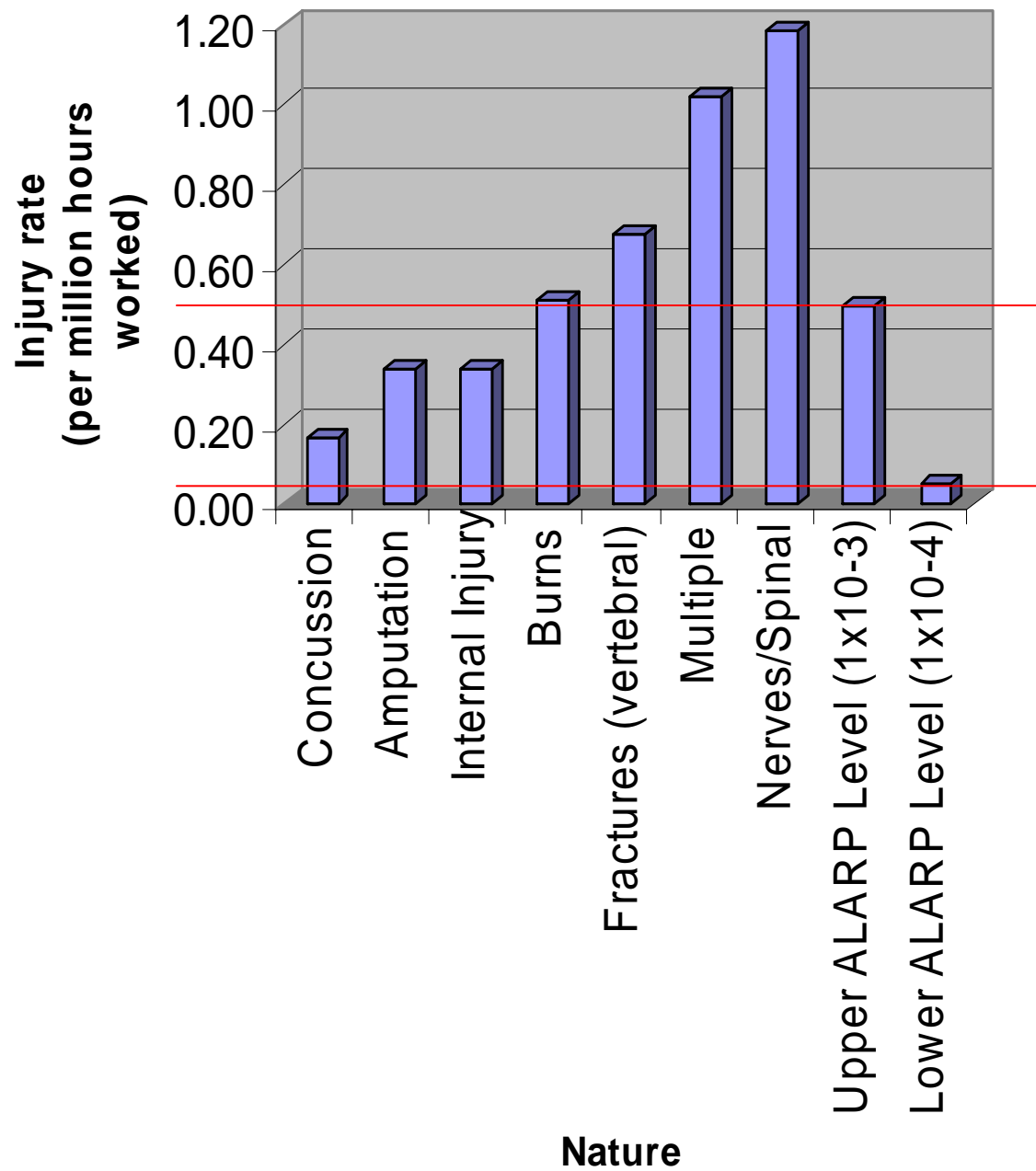
Nature of injuries 2006



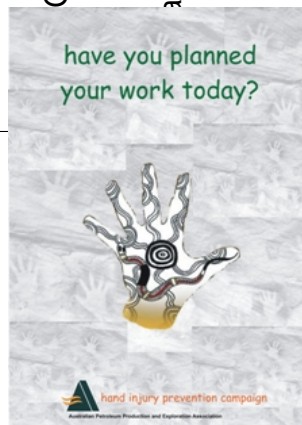
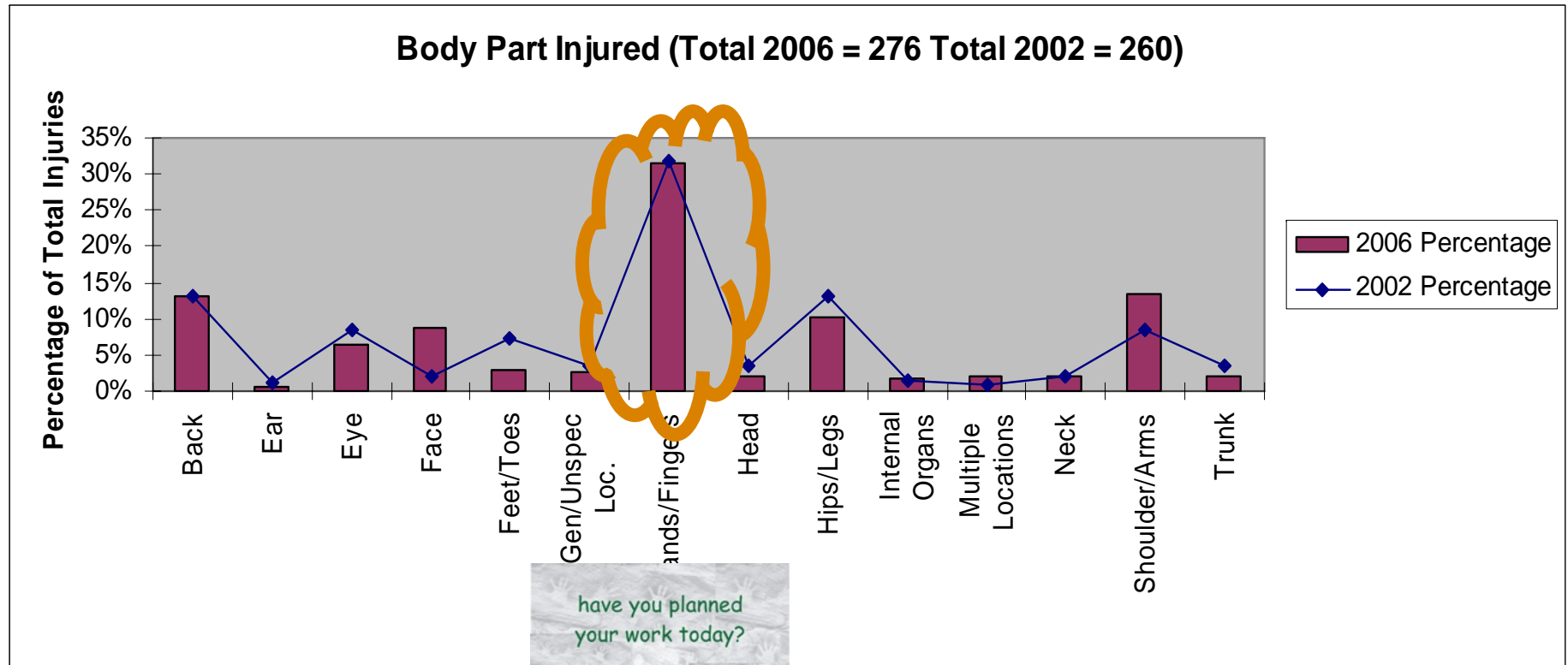
Nature



Nature of injuries 2006



2006 Body Part Injured



Hand Injury Prevention Campaign

- Session 1 - overview of hand and finger injury and safety (6 mins)
- Session 2 - how and why hand injuries happen, and how they can be prevented (6 mins)
- Session 3 - using the right PPE for the job and highlights different gloves and glove care (5 mins)
- Session 4 - how to select, inspect, use and maintain hand tools in order to prevent hand and finger injuries. (4 mins)
- Session 5 - correct hand care including daily hygiene practices, care of wounds including basic first aid for hands (3 mins)

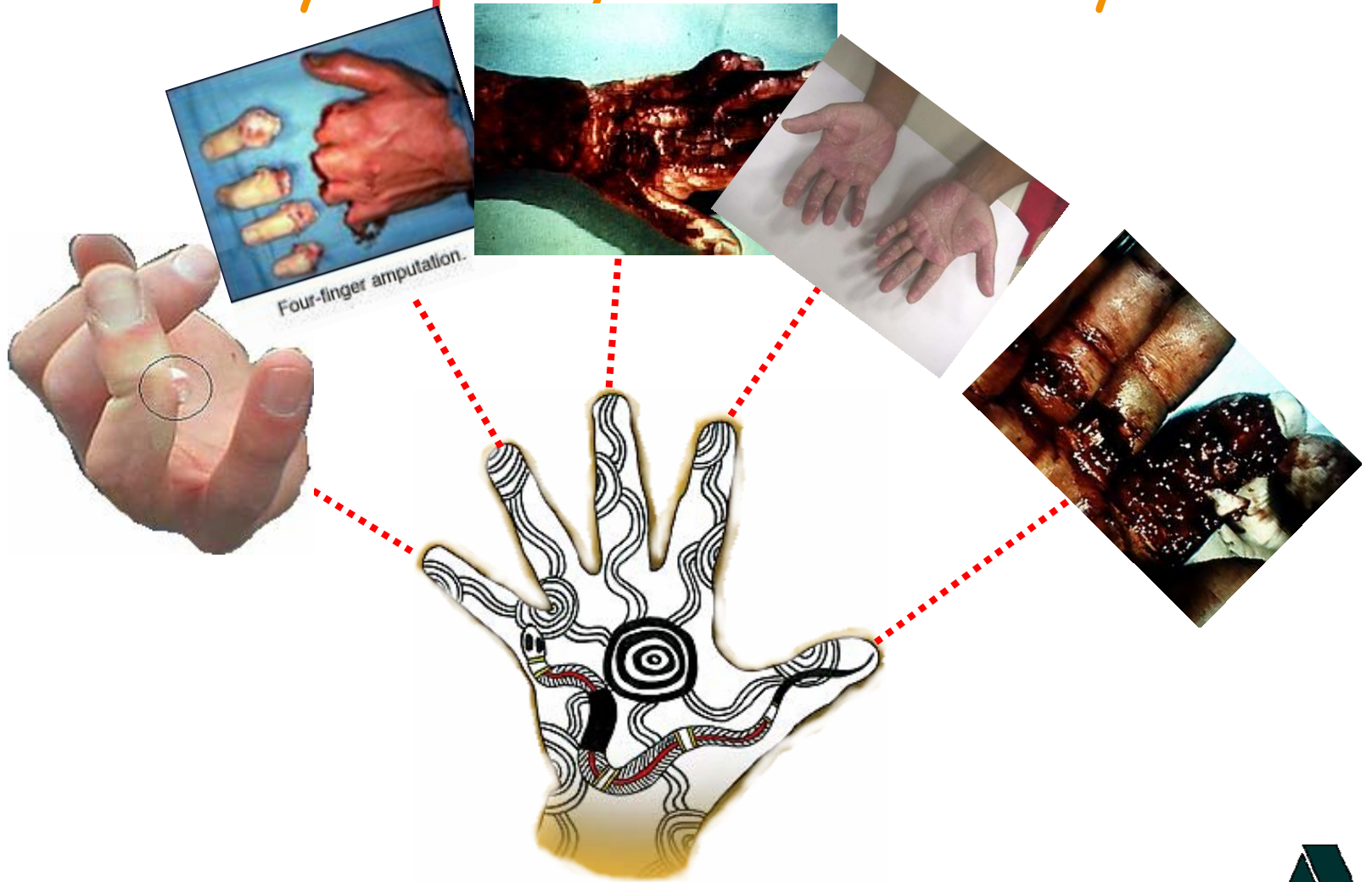
Example of Materials

Warning

- This section contains scenes of actual injuries sustained in the workplace which may affect some people
- If you feel that you may be shocked then look away and I will tell you when the scenes have finished



did you plan your work today?



portable power tools



APPEA's Safety and Environmental Alerts System

- Established to ensure that the details of incidents, near-misses and mitigating actions are available to member companies, service providers and the public to learn in a timely, efficient and accurate manner
- Access to enter new alerts is possible by free subscription. To subscribe to the system, please contact Belinda Josey bjosey@appea.com.au.
- <http://safety.appea.com.au/>





Safety & Environmental Alerts System

[[SAS Home Page](#)] [[View/Search Alerts](#)] [[Member Pages](#)] [[Admin Pages](#)]

Alerts

Please enter your search criteria and click the Filter Alerts button.

Search Criteria	
ID:	<input type="text"/>
Title:	<input type="text"/>
Company:	<input type="text"/>
Keywords:	<input type="text" value="hand"/>
<input type="button" value="Filter Alerts"/>	

Matching Alerts

66 alerts found.

1 2 3 4 5 6 7

ID	Date	Company	Alert Name	Format	Size
1759	24 Oct 2006	Oil Search Limited	Helicopter Rotor Wash Blew Off Container	.doc	134.657 kb
1665	07 Jul 2005	Coogee Resources	Pedestal Bench Grinder Injury	.doc	813.569 kb
1556	04 Mar 2004	BHP Billiton	Hand Held Power Tool Incidents	.pdf	87.079 kb
1549	27 Feb 2004	Woodside Energy Ltd	Incorrect Crane Boom Length	.ppt	1293.825 kb
1522	28 Aug 2003	Esso Australia Pty Ltd	Hand Injury	.pdf	37.885 kb
1457	11 Apr 2003	O D & E Pty Limited	Home made hand tools causes injury	.doc	863.233 kb
1447	13 Mar 2003	Esso Australia Pty Ltd	Wrong Substance	.doc	603.137 kb
1407	22 Jul 2002	Esso Australia Pty Ltd	Threaded Fitting Failure	.doc	1143.297 kb
1399	05 Apr 2002	Esso Australia Pty Ltd	Finger Injuries	.doc	22.017 kb

Safety Alert

30th June 05



A Pedestal Grinder was being used to clean up the inside end of a length of angle iron.
The end of the angle iron was grabbed by the abrasive wheel causing the wheel to stall and injure the worker.

Lessons Learnt

ROTATING MACHINERY IS A HAZARD

- Inspect equipment prior to use and ensure correct set up & no vibration.
- The face of the abrasive wheel must not have ridges, grooves, damaged corners or missing pieces - if so, ensure maintained by the ringer or replaced.
- Ensure PPE being worn and ensure safe contact with rotating item.
- Do not wear ring, jewellery or loose items. Consider bag hair.
- Gloves should fit, be worn, kept clean and get caught into rotating machinery.
- Ensure machinery is appropriate for task & there is a safe alternate.
- Ensure you have received appropriate training in the use of equipment.
- Pedestal Bench grinders require the work rest to be regularly adjusted, to ensure PPE does not touch (LCL) to prevent metal abrasive wheel the pressure the wheel grinding against the surface of the wheel.
- Grinding wheel operators should PPE (specialized) have the wheel to the name - ensure protective shields and safety plates are used.
- Spindle during grinding is a fine hazard - ensure good workkeeping practices.
- Do not force against a piece the wheel is grinding into the wheel.
- There can be a drawn between the wheel and the work rest.

Safety Alerts System

- 1030 alerts in the system
- 42 submitted in 2006
- To date, there are 232 subscribers, from Australia, USA, Mexico, Colombia, and UK

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) ...

ID	Date	Company	Alert Name
1779	12 Feb 2007	ExxonMobil Pty. Ltd	Spiral Wound Gasket Inner Ring
1776	09 Feb 2007	Oil Search Limited	Fatality - Dropped Forklift Load
1775	08 Feb 2007	ExxonMobil Pty. Ltd	Incorrectly Installed Targeted-Tee
1774	18 Jan 2007	Chevron	Offshore Backstrain
1773	04 Jan 2007	Chevron	Potential fall offshore
1772	27 Dec 2006	ExxonMobil P/L	Sprains and Strains
1771	04 Dec 2006	Woodside Energy Ltd.	Grid Panel Collapse on Off-shore Facility
1770	28 Nov 2006	ExxonMobil	Heat Tracing & Cladding
1769	21 Nov 2006	ExxonMobil Pty Ltd	Safety Alert - Load Plates - Asbestos
1768	20 Nov 2006	Chevron	Crane Contacting Wellhead



What is APPEA Doing?

- Dedicating an industry safety position to APPEA to provide a day to day interface with regulators, mentor the safety performance of the APPEA members and their contractors and drive APPEA common safety initiatives
- Engaging with national and international safety organisations and assessment of the range of initiatives arising from the UK Step Change in Safety Project



What is APPEA Doing?

- Benchmarking annual safety performance across all industry operators
- Investigating and adopting of new leading safety performance indicators
- Developing new ways for sharing best practice across the industry including compiling and providing access to individual company safety programs



What is APPEA Doing?

- Improving the APPEA Safety Alerts System to improve real-time communication of safety information across the industry
- Increasing awareness and engagement through:
 - National Oil and Gas Safety Conference
 - Health and Safety Representatives Forum
 - Operations Forum to include contractors
 - Safety Leadership Forum APPEA Council and industry leaders, while providing a forum through which industry leaders, regulators, policy makers and the workforce can discuss and drive improvements to safety performance



What is APPEA Considering Doing?

- Developing common Induction Training and Behaviour Based Safety Training programmes
- Undertaking an industry wide Safety Culture survey
- Facilitating the establishment of a Postgraduate education programme for Safety professionals
- Facilitating the establishment of simulation training for Offshore Crane Operators
- Undertaking research into National differences in safety culture and risk perception



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