

# 2ND DANGEROUS GOODS CONFERENCE STORAGE, HANDLING & TRANSPORT

## Speakers Include:



**DR KENT GREGORY**  
Physicist, Director of SA Radiation  
20 years of experience in the radiation safety industry



**ADRIAN TUSEK**  
Dangerous Goods Inspector, Civil Aviation Safety Authority  
Member of the International Civil Aviation Organization



**BEN FIRKINS**  
Dangerous Goods Inspector – Civil Aviation Safety Authority  
Vice-Chair of the ICAO Dangerous Goods Panel

## WHAT YOU WILL GAIN FROM ATTENDING THIS CONFERENCE:

- Learn how to safely manage the handling, storage and transport of dangerous goods to prevent the occurrence of significant incidents
- Find out how to identify dangerous goods and safely assess chemicals and hazardous substances
- Update your knowledge on the latest regulatory reforms and how to achieve compliance
- Find out how the Global Harmonisation System (GHS) will affect your business
- Acquire effective strategies for a safe and secure working environment
- Learn about the dangers of lithium batteries
- Hear how to safely transport radioactive substances
- Learn how to correctly classify and label hazardous chemicals for transport
- Understand how to prepare for an emergency situation
- Learn about the environmental impacts of dangerous goods incidents
- Listen to case studies from industry relating to dangerous goods such as fires, explosions, accidents, spillages, leakages and overfilling
- Network with experienced experts and your industry peers
- No sales pitches - non commercial presentations

## WHO SHOULD ATTEND:

- Engineers, managers and specialists who deal with hazardous substances, radioactive materials and dangerous goods
  - Chemical, operations and safety engineers/managers
  - Legislative, safety and regulatory compliance professionals
  - Transportation, distribution and storage professionals
  - Government regulatory and local government staff
  - Packaging and warehouse operators
  - Health and safety professionals
  - Mining engineers and workers
  - Legal practitioners
  - Plant and factory operational personnel
  - Environmental engineers, technologists and professionals
  - Emergency personnel (paramedic and ambulance staff)
  - Medical practitioners and paraprofessionals
  - Dangerous goods consultants
- And anyone with an interest in the safe storage, handling and transport of dangerous goods in Australia.

**23<sup>rd</sup> & 24<sup>th</sup>  
March 2016**

**Novotel Langley Hotel  
Perth, AUSTRALIA**

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# 2ND DANGEROUS GOODS CONFERENCE

## CONFERENCE DAY ONE – 23<sup>rd</sup> March 2016

8.00am **Registration**

8.15am **Opening Address**

8.30am **Radioactive Material – Past, Present and Future**

Session 1  
**Kent Gregory** – Director, SA Radiation



When radioactive material was discovered in 1896, plenty of uses were found for this weird and wonderful substance. Unfortunately many of those uses led to deaths and a large number of injuries. Scientists then developed ways in which to measure the amount of radiation, and determined how much was too much. As our understanding of radioactive material grew, uses became accepted practices in various industries including medical, manufacturing and mining. Innovative uses of radiation continue to be developed overseas and in Australia, with many potential benefits for society. Occasionally injuries and deaths still occur due to inappropriate training or reckless behaviour. Radioactive material can also turn up unexpectedly during mining, and so many countries now regulate the use of radioactive material. Australia has regulatory controls over the use, storage and transport of radioactive material, and in many cases several layers of regulatory control exist. This keynote will cover the discovery, early, current and future uses, measurement, hazards and regulatory requirements of radiation, with a particular emphasis on WA.

9.30am **Fire in the Hold – Lithium Batteries on Aircraft**

Session 2  
**Adrian Tusek** – Dangerous Goods Inspector, Civil Aviation Safety Authority (CASA)



Everyone is hearing about problems sending lithium batteries as cargo on aircraft or not being allowed to take them in their baggage. A recent fire caused by lithium batteries in a passenger's checked-in baggage will be explored. What are the real dangers? How many near hits? Is over regulating a greater danger? What else can't I pack? The session will explore dangers in the air transport of lithium batteries and why there is a push to ban them on aircraft. New regulations are coming and how will they impact doing business?

**Morning Tea – 10.30am**

11.00am **How do I Transport Radioactive Substances in THAT State/Territory?**

Session 3  
**Simon Booth** – Senior Radiation Protection Advisor, Radiation Professionals



There is much confusion surrounding the transport of radioactive substances within Australia. Contributing factors include: Dangerous goods training does not include Class 7; Dangerous goods licence does not include Class 7; Multiple radiological regulatory bodies across Australia each requiring a separate licence causing increased costs and time delays; Dangerous goods and road transport inspectors/regulatory bodies typically don't cover Class 7; Placarding and category labels different to other dangerous goods; and Complexities – air and sea compared to road. This presentation will address the matters outlined above and further explore the concepts of: licensing and registration; Codes of Practice/Australian Dangerous Goods Code; responsibilities; radiation protection program and source transport security plan.

11.45am **Calculating the Hazard Level of your Pressure Equipment**

Session 4  
**Trevor Hughes** – Managing Director, Asset Management Engineers



All pressure equipment has the potential to harm and/or damage people or other equipment, and determining the hazard level of your pressure equipment is critical to determining your maintenance requirements. To calculate the hazard level you firstly need to know what the contents of the pressure vessel are. The contents will range from a Non Harmful Gas (NHG) or Liquid (NHL) through to a Lethal Gas (LG) or Liquid (LL). Secondly, you need to know the design pressure, and thirdly you need to know or calculate the volume. This presentation shows how to calculate hazard levels and how they are used to determine the maintenance requirements as per AS3788.

**Lunch – 12.30pm**

1.30pm **Dangerous Goods Container Packing for Transport by Sea – A Case Study**

Session 5  
**Paul Hansford** – Port Marine Surveyor, Ship Safety – Australia Maritime Safety Authority

**CASE STUDY**  
On 2nd March 2015 a small general cargo vessel was bound for Cocos Island with a cargo of containers from Fremantle. The swell was 8-9 meters and wind force 6. At 1300 the hold bilge alarm activated on the bridge. The Chief Officer opened the hold access hatch. He reported smoke and approximately 10-15cm water on the tank top. The hold was sealed and CO2 discharged into the hold as a precaution. The crew initially believed there had been an explosion. What happened? What was the root cause? What were the consequences?

2.15pm **The ABC of Dangerous Goods – the more things change, the more they stay the same**

Session 6  
**Les Vogiatzakis** – Principal Consultant, Dangerous Goods and Safety Services



**CASE STUDY**  
Dangerous goods are still core business in all industry sectors. Sadly, and frequently, a fundamental breakdown still occurs regularly around the world. Even as a core business, dangerous goods are often not understood, and the basic hazards considered poorly. Les will explore cases with some basic fails associated with DG use and management, and how lip service and failure of the basics are alive and well, even in the information age.

**Afternoon Tea – 3.00pm**

3.30pm **The Global Harmonisation System (GHS) – Are You Ready?**

Session 7  
**Craig Watt** – General Manager, Chem-Safe Australia



The Global Harmonisation System (GHS) is the United Nations system of chemical management that will be implemented into Australia by the end of 2016. This presentation will provide details of how this will impact chemical safety and dangerous goods management for all companies. It will provide timelines and key action points for compliance in areas of labelling, placarding, safety data sheets and licensing and how these link to dangerous goods safety. This system is already in place in the USA, Europe, Japan, China and New Zealand and Australia are committed to be fully implemented by the 31st December 2016. Are you ready?

4.15pm **Placarding Pitfalls Under WHS**

Session 8  
**Vince Pacecca** – Chief Scientific Officer, Risk Management Technologies



Under the previous regulations, placarding was solely based on the Dangerous Goods (DG) classifications as per the Australian Dangerous Goods (ADG) Code. Under the new Work, Health and Safety (WHS) regulations, placarding requirements are calculated under the globally harmonised system (GHS) classification system, but signage remains based on DG diamonds. There are a significant number of instances where a hazardous chemical's GHS classification does not align with its corresponding DG classification. These result in a concerning outcome from a placarding perspective. Of concern, situations where hazardous chemicals are placarded for transport but not for storage (or vice versa). This may lead to potentially dangerous situations for workers and emergency services personnel.

**Closing – 5.00pm**



**NETWORKING SESSION:  
Cocktail Hour – 5.00pm to 6.00pm**

An hour dedicated for all attendees to meet and socialise with experts and industry peers at the 2nd Dangerous Goods Conference Cocktail Hour.

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## Sponsorship Opportunities

Representing your business at the 2nd Dangerous Goods Conference in 2016 will provide you the opportunity to reach key decision makers from a multitude of industries. For more information on sponsorship and exhibition opportunities please contact Sarah Montgomery via email [conferences@idc-online.com](mailto:conferences@idc-online.com)

## CONFERENCE DAY TWO – 24<sup>th</sup> March 2016

**8.30am**  
Session 9

**CASE STUDY**

**Over the Horizon – What Changes can be Expected in the Transportation of Dangerous Goods by Air?**

**Ben Firkins** – Dangerous Goods Inspector – Civil Aviation Safety Authority (CASA) and Vice-Chair of the International Civil Aviation Organization (ICAO) Dangerous Goods Panel

Training for employees, who send dangerous goods by air continues to evolve, with ICAO looking to introduce competency based training from 1st January 2019. Does this mean that employees are currently being trained in a way that they are not competent? What will be the impact for employers and training organisations? No organisation wants to have an accident or incident causing lost time, expense in cleaning up, potential staff injuries and government regulators becoming involved. Here you will learn about CASA's approach to these occurrences when they involve dangerous goods and air transport with a case study approach. Where is ICAO heading with dangerous goods occurrence reporting and investigation, and what will it look like for Australia as we head towards 2020?



**9.30am**  
Session 10

**CASE STUDY**

**Hazardous Area Considerations for Diesel Storage in a Hot Climate**

**Daniel Bianchini** – Specialist in Fuel Facility Engineering, Operations and Licencing, DG Solutions

Hazardous areas are most often associated with the storage and handling of flammable liquids. However, in certain circumstances hazardous areas can occur around combustible fuel installations. This paper explores a specific case study involving the above ground storage of diesel in a hot climate (Pilbara, WA) and investigates scenarios to inform our understanding as to when hazardous areas might occur. Issues reviewed include the relationship between ambient conditions and the temperature of the fuel being handled, spill scenarios, and the potential formation of sprays and mists.



### Morning Tea – 10.15am

**10.45am**  
Session 11

**Radioactive Material Storage, Use, Transport and Disposal in WA**

**Kent Gregory** – Director, SA Radiation

There are a number of regulatory requirements to be met when storing, using and transporting radioactive material in WA. The steps can be confusing, especially if you are unfamiliar with radiation legislation in other states. This session will take you through the various steps so that you can align your company with legislative requirements.



**11.30am**  
Session 12

**CASE STUDY**

**How to do a Dangerous Goods Risk Assessment**

**Daniela Tutman** – Principal Engineer, Process Risk & Safety Management

In the third millennium, in a global village, in the teams where everyone speaks a different language and has a different cultural and engineering background, how do we do a dangerous goods risk assessment? The strength and position of the modern risk facilitator depends on the aptitude of balancing the fine art of applying the risk assessment fundamentals, as well as embracing the transformation of a constantly expanding international project world. This presentation takes a glimpse at how the risk assessment process is evolving within the world of tomorrow and it aims to address the essential steps required to perform an effective dangerous goods risk assessment, whilst providing effective tools to embrace the challenges that could arise during facilitation of team-based workshops.



### Lunch – 12.15pm

**1.15pm**  
Session 13

**CASE STUDY**

**Practical Cases of Dealing with Class 7 Dangerous Goods**

**Nick Tsurikov** – Director, Calytrix Consulting

There are several situations where in the handling, storage and transport of Class 7 (radioactive) dangerous goods and other hazardous substances contained in the same material also have to be considered. In many cases, dealing with "mixed" dangerous goods involves the naturally occurring radioactive materials other than uranium ores and concentrates – where, in accordance with different regulations, the same material may or may not be classified as dangerous. Examples of such situations will be presented and solutions selected in each individual case.



**2.00pm**  
Session 14

**Dangerous Goods – A Consultants Perspective**

**Sean Page** – Principal ACOR Consultants

With the application of the Model Work Health and Safety Act and Regulations (WHS), the impending Global Harmonisation System of classification (GHS) and the modernisation of the safety legislation covering mining, petroleum and MHF in WA, it is important to understand the way in which we are storing, handling and transporting Dangerous Goods (DG) from all perspectives. Referencing examples including DG management in ports, the quality management of aviation fuels, and classification of flammables and explosives storage this presentation aims to add some perspective in this currently changing environment.



### Afternoon Tea – 2.45pm

**3.15pm**  
Session 15

**CASE STUDY**

**Use of Bromide Gas Insecticide for Pest Control Purposes – WA Museum Case Study**

**Bill Bockelman** – Hydrocarbon Remedial Services

The WA Museum uses a bromine-base compound which reacts and forms a gas. The gas is then allowed to fill all air storage spaces of the treatment area. The gas is toxic to insects, larvae, mice, cockroaches, as well as humans. When they do apply, it is over a scheduled weekend with notices for no one to enter the building. This case study will cover the purpose of the treatment, material safety data sheets (MSDS), chemical abstracts service (CAS) number, application method, the degass process and clearances and finally the different types of suit protection.

**4.00pm**  
Session 16

**Dangerous Goods Road Transport: Preventing the Black Spot Becoming the Black Hole**

**Peter Xanthis** – Principal Dangerous Goods Officer, Department of Mines and Petroleum

Dangerous goods pose a significant risk to people, property and the environment due to their chemical or physical properties. This risk can be greatly increased when they are transported on board a truck travelling at 100 kilometres an hour on public roads. There have been a number of incidents with dangerous goods on Australian roads in recent years. This presentation will cover stakeholder engagement, situational risk awareness and incidents in relation to the dangerous goods transport industry.



**4.45pm**  
Session 17

**Sizing and Selecting Pressure Relief Valves**

**Trevor Hughes** – Managing Director, Asset Management Engineers

Incorrectly sized safety or relief valves are possibly one of the biggest causes of catastrophes with pressure equipment in the world today. Sizing a relief valve is a simple process. This presentation shows how to correctly size and select relief or safety valves and taking into account any backpressure. It also distinguishes the differences between a relief valve and a safety valve and the different types of relief valves including bursting disks, and where they should be used. The presentation also looks at the maintenance requirements and re-calibration intervals for relief valves and finally the correct or good installation practices are reviewed.



### Closing – 5.30pm

All conference papers are reviewed and selected for their high quality and technical value by our panel of specialists experienced in the theory and practice of dangerous goods.

# INTRODUCTION TO DANGEROUS GOODS

The quantity of dangerous goods being stored, handled and transported across the country continues to increase as economic activity in Western Australia remains strong, particularly in the mining and resources sector. With increased activity comes increased safety risk and more dangerous goods accidents. The three major areas for concern when it comes to dangerous goods safety are:

1. Explosives incidents
2. Storage and handling incidents
3. Transport incidents

Many of these incidents are caused by human error followed by mechanical or design failure and they result in the loss of product, damage to equipment, minor to serious injuries and in extreme cases fatalities. The aim of this conference is to explore the variety of dangerous goods incidents that occur

locally and nationwide every year and to provide practices and strategies to prevent accidents and reduce the overall number of incidents. A strong focus on regulatory reforms, legislation and compliance will feature throughout this event as safety is paramount when dealing with hazardous substances and dangerous goods.



## REGISTRATION FORM:

### 2ND DANGEROUS GOODS CONFERENCE

23rd & 24th March 2016, Novotel Langley Hotel, Perth

Simply complete this registration form online or return by email

#### 1. DELEGATE DETAILS

Contact:	Company Name:		
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#### 2. HOW DID YOU HEAR ABOUT THIS EVENT?

Received an email from IDC
  Received a brochure in the mail
  Searched online (Google, Yahoo etc)

Recommended by a friend/colleague
  Magazine advertisement/insert (please specify which magazine below)

Other (please specify) \_\_\_\_\_

#### 3. REGISTRATION & PAYMENT DETAILS

Prices shown are inclusive of GST

##### 2ND DANGEROUS GOODS CONFERENCE – 23rd & 24th March 2016

**OPTION 1: Early Bird Discount 10% OFF**  
 – Book before 24th February (SAVE \$179.50) \$1615.50 x \_\_\_\_\_ delegates = \$ \_\_\_\_\_

**OPTION 2: Standard Rate (NO Early Bird Discount)**  
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**OPTION 3: 3 for 2 Offer AND Early Bird 10% OFF**  
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**PLEASE NOTE: Full payment is required prior to the commencement of the conference.** **TOTAL DUE = \$ \_\_\_\_\_**

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## GENERAL INFORMATION

### Confirmation Details

A confirmation email and invoice will be sent to delegates within 3 days of receiving the registration.

### Cancellation Policy

A fee of 20% cancellation will apply for cancellations received 7 – 14 days prior to the start date of the conference. Cancellations received less than 7 days prior to the start date of the conference are not refundable, however substitutes are welcome.

### Venue

Novotel Langley Hotel  
221 Adelaide Terrace  
Perth, AUSTRALIA ,6000  
Phone: (08) 9221 1200

### Accommodation

The conference venue has accommodation available. Contact directly on (08) 9221 1200 and mention the conference when booking and receive the best room rate available.

### Food and Beverages

All lunches, morning and afternoon refreshments are included.

### Unable to Attend

If you are unable to attend the full conference program, contact us for details to attend individual sessions or to purchase the Conference Resource Kit.

### Enquiries

1300 138 522 or conferences@idc-online.com

## REGISTRATIONS



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