

# BLASTING FOR STABLE SLOPES SHORT COURSE



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6-8 June 2017 | Hotel ibis Perth, Western Australia

REGISTRATION BROCHURE

## Course objectives:

The objective of blasting is to optimise the cost-effectiveness of the excavation process through the fragmentation and displacement of rock from its in situ condition to a highly diggable muckpile.

The aim of wall control is to optimise the stability of a rock wall exposed by excavation through the control of fragmentation, displacement, vibration and overbreak.

The success of mining and quarrying operations depends on both of these aims being achieved despite the conflict of purpose that may exist.

This course will examine the mechanisms and possible extent of damage to the rock structure behind the face from blasting and the influence that has on the stability of pit walls. The course includes consideration of the mechanisms of rock breakage that operate within a blast and considers means of optimising wall damage adjacent to the blast.

The influence of burden relief, geological structure and application of field controls to verify the use of design parameters will be stressed. Common techniques of wall control, including presplitting, will be detailed.

## Who should attend:

The course is aimed at blast designers and those responsible for drilling and blasting operations in the field. Mine planners and engineers will also find this course to be of real value in terms of gaining an understanding of the effects that blasting can have on the in situ geological structure adjacent to the pit and hence on the stability of the final pit wall. The course will also feature blast design workshop sessions.

Past course delegates found the course to be highly interactive, relevant to their work, and thought the presenters were very experienced, knowledgeable and approachable.

## Presenters:



**George Boucher**  
Director  
George Boucher Consulting

George has been involved in blasting technology since 1987, working in Australia and many other locations around the world. He currently provides advice and training to explosive users and manufacturers on blast design and optimisation, wall control, blast engineering and many other explosive related issues.



**Peter O'Bryan**  
Principal  
Peter O'Bryan & Associates

Peter has been involved in open pit and underground mining rock mechanics consulting since 1989, predominantly in West Australia's gold and iron ore mining. He worked initially with Golder Associates, Perth, but has worked independently since 1992. Previously he worked for BHP (Mt Newman Mining Co), CRA (Zinc Corporation) and CSIRO (Division of Geomechanics). He has broad experience in open pit geotechnical engineering and mine services.

## Venue

Hotel ibis Perth  
334 Murray Street, Perth, WA 6000  
Ph: +61 8 9322 2844  
H1773@accor.com | www.ibis.com/Perth

# BLASTING FOR STABLE SLOPES SHORT COURSE

REGISTRATION FORM

## CONTACT DETAILS

Please print. \*denotes mandatory fields.

\*Title (Mr, Mrs, Miss, Ms, Dr, Prof., Other) \_\_\_\_\_

\*Family Name \_\_\_\_\_

\*First Name \_\_\_\_\_

Preferred Name \_\_\_\_\_

\*Position \_\_\_\_\_

\*Organisation \_\_\_\_\_

Mine/Dept \_\_\_\_\_

\*Address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Mobile \_\_\_\_\_

\*Email \_\_\_\_\_

\*All confirmations/event updates will be sent via email

Registrant contact details are intended to be published in the events authorised attendee list made available to event attendees, who may contact you, including electronically.

I give permission for my details to be included in the event attendee list.

Please indicate if you do NOT wish to receive ACG research, training and/or education information advice, including electronic communications.

I require an invitation letter for visa purposes (please forward a copy of your passport information page). For more information regarding Australian visas, please visit page <http://acg.uwa.edu.au/about-events-and-courses/>

## Blasting for Stable Slopes Short Course (1706)

6-8 June 2017

	<b>Earlybird</b> Paid by 15 May 2017	<b>Standard</b> Paid after 15 May 2017
Standard	<input type="checkbox"/> 2,750	<input type="checkbox"/> 3,190
ACG Affiliate†	<input type="checkbox"/> 2,530	<input type="checkbox"/> 2,750
Student^	<input type="checkbox"/> 770	<input type="checkbox"/> 990

† Please visit [www.acg.uwa.edu.au/corp\\_affiliates](http://www.acg.uwa.edu.au/corp_affiliates) to view the list of ACG Corporate Affiliates. ^ Students are required to provide proof of full-time enrolment.

## PAYMENT DETAILS

Payment to accompany registration – Credit card or EFT. Please contact the ACG for bank details. All prices include GST. ABN 37 882 817 280

Total payment AUD \_\_\_\_\_

Credit Card Visa  Mastercard  *Visa and Mastercard are the only cards we accept*

Card Number

Expiry Date: \_\_\_\_ / \_\_\_\_

Name of Cardholder \_\_\_\_\_

Signature \_\_\_\_\_

Receipt addressed to Cardholder  Business

## DELEGATE CANCELLATIONS (this does not apply to speakers)

Up to 8 days before course commencement: an administration fee of AUD 150 will be charged. 7 or less days before: no refund. Non-attendance: no refund. Substitutions will be accepted at any time. The ACG reserves the right to cancel the course if insufficient registrations are received.

## Programme\*

TUESDAY   6 JUNE 2017	
08:00	REGISTRATION
08:15	Introduction <i>Australian Centre for Geomechanics</i>
08:20	Course overview <i>Peter O'Bryan, Peter O'Bryan &amp; Associates</i>
08:40	Introduction – blasting and wall control <i>George Boucher, George Boucher Consulting</i>
10:15	MORNING BREAK
10:30	Wall failure and damage mechanisms <i>Peter O'Bryan</i>
12:30	LUNCH
13:30	The influence of geology <i>George Boucher</i>
15:00	AFTERNOON BREAK
15:15	Explosives and blasting principles (1) <i>George Boucher</i>
17:00	CLOSE DAY ONE

WEDNESDAY   7 JUNE 2017	
08:00	Explosives and blasting principles (2) <i>George Boucher</i>
09:45	MORNING BREAK
10:15	Wall blasting methods <i>George Boucher</i>
11:15	SHORT BREAK
11:30	Timing and burden relief (1) <i>George Boucher</i>
12:00	LUNCH
13:00	Timing and burden relief (2) <i>George Boucher</i>
14:00	SHORT BREAK
14:15	Presplit drilling and blasting <i>George Boucher</i>
15:00	AFTERNOON BREAK
15:15	Smoothwall/trim blast design <i>George Boucher</i>
16:30	Wall blast assessment (1) <i>George Boucher</i>
17:00	CLOSE DAY TWO

THURSDAY   8 JUNE 2017	
08:00	Wall blast assessment (2) <i>George Boucher</i>
09:00	Field implementation <i>Peter O'Bryan</i>
09:30	MORNING BREAK
09:45	Design refinement <i>George Boucher</i>
10:30	SHORT BREAK
10:45	Case studies – worked examples <i>All presenters</i>
12:00	LUNCH
13:00	Case studies – worked examples (continued) <i>All presenters</i>
14:30	Discussion, including delegate site wall blasting <i>All delegates</i>
15:30	COURSE END – DRINKS AND SAVOURIES

\*This programme was correct at time of printing.