

FCT

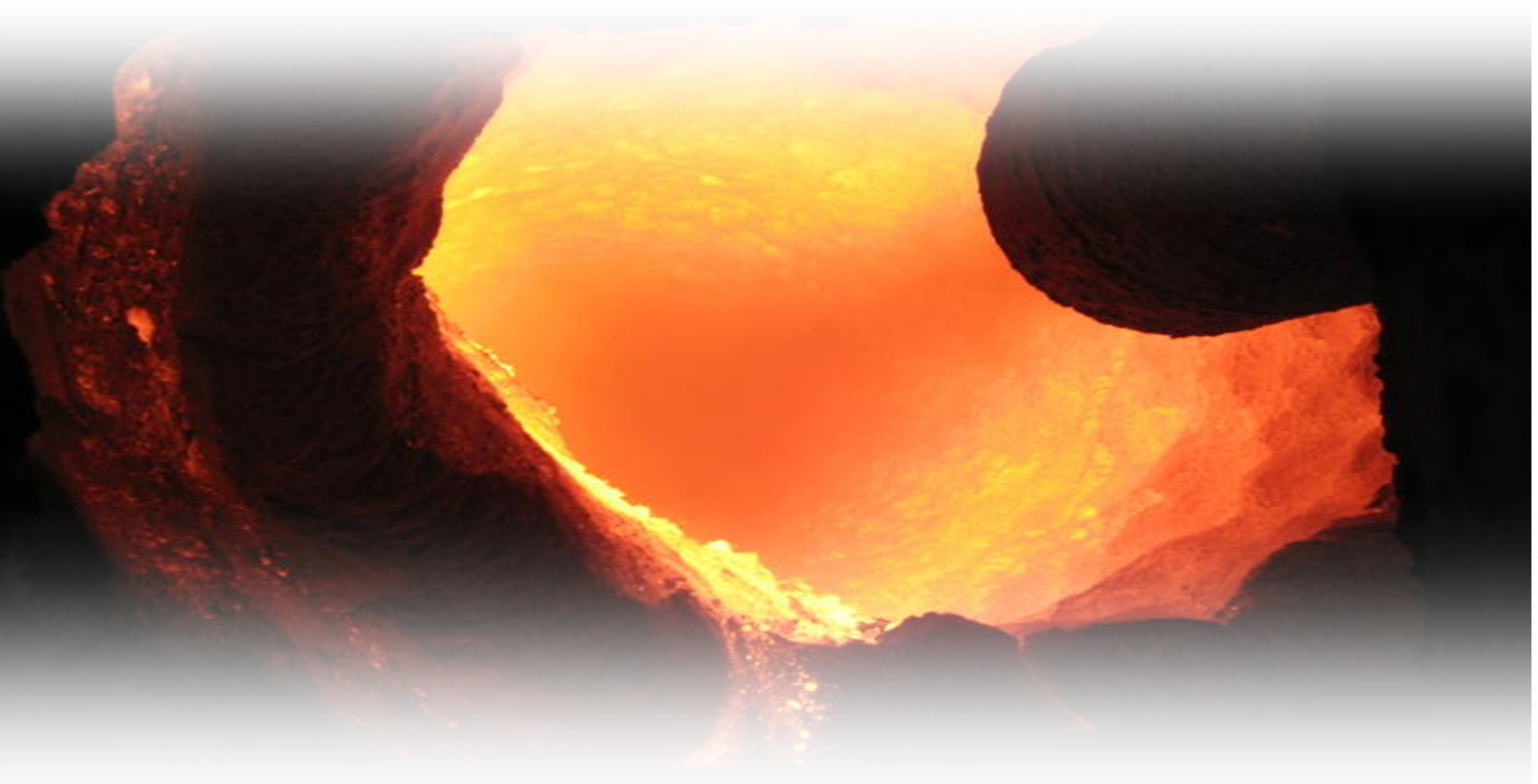
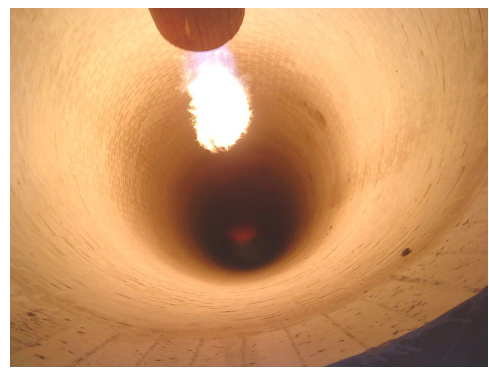
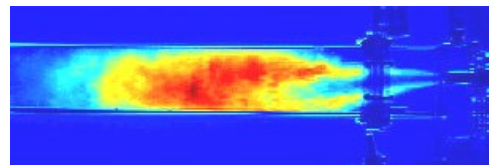
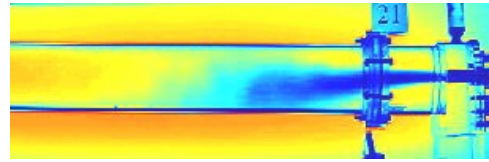
Combustion

Workshop

Registration Brochure

21 - 23 February 2012

Stamford Grand Hotel, Glenelg
South Australia, Australia



Sustainability, Alternate Fuels, Industrial Combustion and Carbon Emissions

Introduction

This unique event is a must for all people with an interest in sustainability, use of alternative fuels in industrial processes and reduction of the carbon footprint of mineral processing industries. Internationally renowned European and Australian specialists are being brought together in Australia to offer their experiences in these fields in a workshop environment that will encourage interaction and discussion. The workshop will aim to provide attendees with an overview on carbon emission mitigation, and practical details related to implementation of alternative fuel programs. It will also include a strong combustion and burner design element for optimisation of combustion efficiency and lowering emissions, as well as a specialist program on cement production with low embedded CO₂. As such, it is expected that attendees will be better equipped after this workshop to develop carbon emission strategies and sustainability plans for their own organisations. The presenters have worked in heavy industry for many years, and the workshop draws extensively on their experience and on their appreciation of the needs of managers and engineers working in that industry.

The proposed workshop program topics:

Day 1 - Sustainability techniques and technologies

Day 2 - Optimisation of Combustion processes

Day 3 - Cement and clinker production with less embodied CO₂

Who should attend?

- Design Engineers will benefit from a greater understanding of the technologies that can be used to improve sustainability and reduce carbon emissions.
- Plant engineers will gain fresh insights and be introduced to the latest ideas and technology for firing alternative fuels and process optimisation techniques to reduce costs and emissions.
- Specialists in combustion will broaden their knowledge in this field and gain techniques to improve efficiency and reduce emissions.
- Managers, sales personnel, and maintenance engineers will gain insights into their high temperature process and how important combustion is to the operation of the process.
- Cement and related industries sustainability managers and practitioners will gain further insights into potential strategies for lowering carbon emissions.

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Workshop Presenters

Dr Michael Clark, Whitehopleman

Michael Clark, PhD, is a Partner at Whitehopleman, a consultancy firm providing products and solutions for improving plant performance and profitability to the cement industry. Dr. Clark has more than 30 years of experience in manufacturing processes, operations, industry technology, business appraisal, benchmarking systems, cement process modeling, and restructuring in the cement industry in Asia, Africa, Middle East, US, and Eastern Europe. He also has experience in developing the worldwide "five star" rating system used to assess cement factories. Prior, Dr. Clark was Manager of Cement Operations and Senior Applications Engineer at ABB Linkman Systems, UK and a project manager at Blue Circle Industries, Masons Works, UK.

Dirk Lechtenburg and Geof Pile, MVW Lechtenberg

MVW is led by Dirk Lechtenburg, one of the pioneers in the field of the production and use of alternative fuels. He has developed many RDF projects all over the world. Before founding MVW Lechtenberg in 2004, he was managing director of a RDF processing plant belonging to one of the biggest private owned Dutch logistic companies, Emons Group. Geof Pile (MVW's Australian representative) and Hans Joerg Diller will share MVW's experiences.

Dr Peter Mullinger, Visiting Research Fellow, University of Adelaide

Peter is a specialist in industrial combustion systems, fuels handling and gasification and a respected authority on research into lignite. In 1984 Peter founded FCT in the UK to apply more scientific methods for solving combustion and heat transfer problems in the process industries. This work covered a wide range of process and equipment such as steam boilers, rotary kilns, gasifiers, flash calciners, flash smelters, fluid bed incinerators, metal smelters, petrochemical fired heaters, ore roasters, etc for a clients such as Alcoa, BP, Exxon, Queensland Alumina, WMC and numerous cement and lime producers. In 1999 Peter became the Associate Professor in the Department of Chemical Engineering at the University of Adelaide where he continued to research combustion and gasification with a focus on the gasification and combustion of brown coals and lignite with the objective of improved process efficiency and reduced greenhouse gas emissions.

Peter is the lead author of *Industrial and Process Furnaces – Principles, Design and Operation*, the world's first book on industrial furnace design, (included with this workshop.)

Workshop Presenters ...Continued

Professor Graham Nathan, University of Adelaide

Professor Nathan is the founding Director of The University of Adelaide's Centre for Energy Technology. Gus has worked with a wide range of thermal energy systems including the combustion of fossil and bio-fuels, concentrated solar thermal and geothermal energy, and now specialises in their hybridisation. He has published widely, with more than 90 publications in leading journals, 150 in peer-review conferences and 8 patents. Past technology developments include being principal leader of the Chief Design Team for the award winning fuel and combustion system for the Sydney 2000 Olympic Relay Torch and joint leadership of the development of low NO_x combustion technology in rotary cement kilns. His research specializes in the development and application of laser diagnostic methods to complex turbulent reacting flows.

Con Manias, FCT Combustion

Con Manias is Managing Director of the FCT Group of companies, which provide custom designed combustion equipment and services as well as on-line mineral analysis equipment to mineral processing operations. FCT is also the main provider of flames and flame effects to the Olympic Games and other large international events. Con has 38 years of experience in senior technical and managerial positions within the chemical and cement manufacturing industries where he has been responsible for introducing many new and innovative technologies into those industries. He is a regular speaker at International conferences with themes of innovation and technology in industry.

David Rapson, FCT Combustion

David has extensive process experience working predominantly in the cement industry but also in alumina, lime, nickel and iron ore pellet operations. A chemical engineer from Adelaide University, David has spent the last 15 years working with FCT as Technical Manager and more recently as Technical Sales Manager. He has extensive site experience with combustion systems and the interaction between flames and emissions, efficiency and quality.

Workshop Program

Day 1 - Tuesday 21 February

8.00am	Registration Opens
9.00am - 9.30am	Keynote Speaker
9.30am - 10.30am	MVW Lechtenberg Status of alternative Fuels utilization in Australia's Industry (by Geof Pile) Implementation of Alternative Fuels in the Cement / Lime and Power generating Industry, Economics and sustainability (Dirk Lechtenburg) Impact on Refuse derived fuels in the cement industry (by. Dr. Hans Joerg Diller, MVW) Process, Environment, costs How to implement Alternative Fuels in the Industry (Dirk Lechtenburg).
10.30am - 11.00am	Morning Tea
11.00am - 12.30pm	MVW Lechtenberg (continued)
12.30pm - 1.30pm	Lunch
1.30pm - 3.00pm	Mr Con Manias Alternative Materials Utilisation – A practical guide to successful implementation.
3.00pm - 3.30pm	Afternoon Tea
3.30pm - 5.00pm	Professor Graham Nathan Emerging opportunities for concentrated solar thermal energy in the minerals and resource sector. The presentation will review a range of emerging technologies in which concentrated solar thermal power offers real potential to make an economically competitive contribution to the minerals and resource sector. These opportunities span off-grid power generation systems hybridised with fossil fuels through to the direct use of concentrated solar radiation - to provide process heat for minerals processing, to reduce the energy consumption of crushing & comminution, or to produce "solar fuels" from coal or biomass. These systems have potential to reduce carbon intensity by about 30%. The presentation will describe these technologies, discuss their economic potential and evaluate their commercial status.

Day 2 - Wednesday 22 February

8.00am	Registration Opens
9.00am - 10.30am	Dr Peter Mullinger Fuels; Fundamentals of flames; Atomisation and pulverization; Gas, Oil and Pulverised coal burners; NOx reduction techniques.
10.30am - 11.00am	Morning Tea
11.00am - 12.30pm	Dr Peter Mullinger (continued)
12.30pm - 1.30pm	Lunch
1.30pm - 3.00pm	Dr Michael Clark The process remains a mass balance when using alternative materials – what goes in must come out, or build up within the system. Clinker chemistry and mineralogy might be changed by exotic species. Coatings, rings, build-ups and ball formation might be problematic. Increased emissions of acid gases, heavy metals or hydrocarbons might be encountered, either continuously or intermittently. To manage and control the process in these circumstances requires monitoring of the real clinker mineralogy and emissions, combined with a detailed understanding of the interactions within the process that can be provided by modelling.
3.00pm - 3.30pm	Afternoon Tea
3.30pm - 5.00pm	Visit to FCT Case studies showing how physical modelling helped solve industrial problems, fuel consumption and emissions; Actual demonstration of physical modeling; Demonstration of on-line XRD analyser.

Workshop Program

Day 3 - Thursday 23 February

8.00am	Registration Opens
9.00am - 10.30am	Dr Michael Clark The manufacture of clinkers and cements with less embodied CO ₂ . The imperative of reducing CO ₂ emissions, carbon taxation, emissions trading schemes and the clean development mechanism. Waste heat power generation, biomass alternative fuels, blended cements and alternative clinkers. Carbon capture and storage and the technology options for carbon capture.
10.30am - 11.00am	Morning Tea
11.00am - 12.30pm	Dr Michael Clark (continued)
12.30pm - 1.30pm	Lunch
1.30pm - 3.00pm	Dr Peter Mullinger Chemical reactions and pollutant formation in the cement process Impact of alternate fuels on processes.
3.00pm - 3.30pm	Afternoon Tea
3.30pm - 5.00pm	Site vVsit to ResourceCo facility at Wingfield ResourceCo produce a process engineered fuel for the power generation and cement industries. www.resourceco.com.au

Disclaimer

The information presented in this program and brochure is correct at the time of printing. In the event of unforeseen circumstances, the Workshop Organising Committee reserves the right to delete or alter items in the Workshop Program.



General Information

Workshop Venue

Stamford Grand Hotel, Glenelg
Moseley Square
Glenelg, South Australia 5045
Australia
T: +61 8 8376 1222
F: +61 8 8375 0699

Stamford Grand Adelaide Hotel at Glenelg, one of Australia's leading resort style hotels, that boasts panoramic views of the ocean, city and Adelaide Hills. Located right on the beachfront at Glenelg, the Stamford Grand Adelaide Hotel provides Adelaide beachside hotel accommodation, less than 20 minutes from the city, and only minutes from the airport.

Glenelg is a vibrant seaside-shopping community that reflects the casual lifestyle and relaxing atmosphere of life by the sea. With long sandy beaches, enjoy any number of leisure activities by the sea including bike riding, sailing, fishing, shopping, cinemas or eating out.

Car Parking & Public Transport

A multi-storey car park is located adjacent to the hotel. Day parking is charged at a hourly rate with a maximum \$8.00 per day for Workshop Delegates (validation of ticket required). Valet parking for delegates staying overnight in the hotel is charged at \$22.00 or self-parking for \$15.00 per night.

There are several trams and buses providing transport throughout the city of Adelaide. For more detailed information visit the website:

<http://www.adelaidemetro.com.au/>

Dress Standards

Smart Business dress is suggested for the Workshop sessions and the Dinner.

Name Badges

All delegates will be issued with a name badge at registration. Admittance to all sessions and catering breaks will require presentation of your badge.

Registration Desk

The registration desk will be open from the following times:

Tuesday 21 February:	8.00am - 5.00pm
Wednesday 22 February:	8.00am - 5.00pm
Thursday 23 February:	8.00am - 5.00pm

Liability/Insurance

In the event of industrial disruptions or natural disasters, FCT, the Organising Committee, and All Occasions Group (encompassing All Occasions Management and Travelscene at All Occasions) cannot accept responsibility for any financial or other losses incurred by the delegates. FCT, the Organising Committee and the All Occasions Group take no responsibility for injury or damage to persons or property occurring during the Workshop. All insurance, including medical cover, or expenses incurred in the event of the cancellation of the Workshop is the individual delegate's responsibility. Attendees are encouraged to choose a travel insurance policy that includes loss of fees/deposits through cancellation of your participation in the Workshop, or through the cancellation of the Workshop itself, loss of airfares for any reason, medical expenses, loss or damage to personal property, additional expenses and repatriation should travel arrangements have to be altered. FCT, the Organising Committee, and All Occasions Group will take no responsibility for any participant failing to insure.

Privacy Policy

The All Occasions Group (encompassing All Occasions Management and Travelscene at All Occasions) complies with all legislation which is designed to protect the rights of the individual to privacy of their information, including the Privacy Act 1988 (Cth). Information collected with respect to your registration for participation in this Workshop will only be used for the purposes of planning, conduct of the event or communication regarding future events. These details may be made available to parties directly related to the Workshop including but not limited to the All Occasions Group, venues, accommodation and travel providers (for the purposes of room/travel bookings and Workshop options), key sponsors (subject to strict conditions) and other related parties as deemed necessary. It is also usual practice to produce a 'Delegate List' of attendees at the Workshop and to include the individual's details in such a list. By completing the registration form, you acknowledge that the details supplied by you may be used for the above purposes. It is your responsibility to ensure that all information provided to the All Occasions Group is accurate and kept up to date. To access or update your information, please email or fax the All Occasions Group on Candice@aomevents.com or +61 8 8125 2200.

Registration & Accommodation Information

Registration Fees (All fees are quoted in Australian Dollars and include GST)	Early Bird Rates (until 9th January 2012)	Regular Rates (from 10th January 2012)
Full (3 day) attendance	\$2,050.00	\$2,400.00
Day 1 & 2 attendance fee (Tuesday & Wednesday only)	\$1,350.00	\$1,600.00

Registration Entitlements and Information

Your registration entitles you to:

- Tuition
- All Seminar Materials
- Lunch, morning and afternoon tea
- Dinner on Wednesday 22 February (venue TBC)
- Upon completion of the workshop attendees are awarded with a certificate and a copy of Peter Mullinger's book "Industrial and Process Furnaces".

A social dinner will be held on the evening of Wednesday 22nd February and is inclusive in the registration fee. Details regarding the dinner will be notified to each delegate once finalised.

How to Register

The preferred method of registering is online via the Workshop website at:

www.aomevents.com/fctworkshop2012

If this is not convenient, please complete the registration form at the end of this brochure. A separate registration form is required for each delegate (a clear photocopy of the form is acceptable).

Registration Acknowledgement

Confirmation of your registration will be sent via email within 24 hours of receiving your registration form. If you do not receive confirmation please contact the workshop secretariat on +61 8 8125 2200.

Accommodation

Accommodation bookings are available with the Stamford Grand Hotel, and can be made through the registration form. Please refer to the following information:



Deluxe Room

\$205.00 per night (room only rate)

Delegates are offered the full buffet breakfast rate of \$25.00 per person per day (additional to the above rate).

For alternate accommodation options or flight assistance please contact Travelscene at All Occasions



Phone: +61 8 8125 2222

Email: travel@aomevents.com

Registration & Accommodation Information ...Continued

Payment Policy

Payment of early bird registration fees is required before or on the date to qualify for the rate. After this date, all unpaid early bird registrations will automatically roll over and will be charged at the regular rate. Full payment is required prior to the commencement of the FCT Workshop. Admission to the Workshop and social functions may be refused if payment has not been received. Late fees based on a sliding scale will apply to any outstanding invoices after the conclusion of the Workshop.

Payment Methods

Payment must accompany all registration forms and may be made by either:

- ◆ **Cheque** payable to 'AOG Trust Account 3 – FCT 2012'
- ◆ **Credit card** (MasterCard, Visa, American Express or Diners Club).
Accounts paid by a credit card will incur a processing fee of 2.8% for Visa and MasterCard, 3.6% for American Express and 4.95% for Diners.
- ◆ **Electronic Funds Transfer:** Commonwealth Bank, AOG Trust Account 3 - FCT 2012
BSB 065-112, Account number 1016 3945
(To allow us to identify your EFT payment, please enter your surname as the statement reference. A remittance advice must also be forwarded by email, mail or fax).

Cancellation Policy

By completing and submitting this registration form, you are indicating your intention to attend the Workshop and you will be liable for a cancellation fee if you are unable to attend. Registration cancellations must be sent in writing (mail, fax or email), to All Occasions Management. Registration cancellations received up to 20 days prior to the Workshop will receive a full refund, less a \$110.00 handling fee. Registration cancellations received less than 20 days and up to seven days prior to the Workshop will receive a 50% refund. No refunds will be given for registration cancellations received within seven days of the Workshop; however a substitute delegate may be nominated. Refunds from any deposits forwarded to hotels, tour companies or other related business will be at the discretion of the supplier.

Registration Form Submission Details / Registration Enquiries Contact

Please forward your completed the form with payment to:

FCT Combustion Workshop
C/- All Occasions Management
41 Anderson Street
THEBARTON SA 5031

Enquiries: Candice Sferco & Alison Bennett, All Occasions Group

Phone: +61 8 8125 2200

Facsimile: +61 8 8125 2233

Email: alison@aomevents.com

Workshop Contact

David Rapson

FCT Combustion Pty Ltd

Phone: +61 8 8352 9932

Email: david.rapson@fctinternational.com

Registration Form

Delegate Information

Title _____ Given Name _____ Family Name _____

Preferred name on badge (if different to above) _____

Organisation _____

Position _____

Mailing address _____

City _____ State _____

Postcode _____ Country _____

Phone _____ Fax _____ Mobile _____

Email _____

Special Requirements (e.g.. Dietary requirements, mobility issues) _____

I do not consent to have my details on the delegate list. (refer to privacy policy).

All Occasions Group uses commercial electronic messages (i.e. email updates, newsletters etc.) to keep delegates informed on both current and future events. You will automatically be kept informed of workshop and accommodation specials.

No, I would not like to be kept informed of workshop, travel and accommodation specials.

Registration Fees (All fees are quoted in Australian Dollars and include GST)	Early Bird Rates (until 9th January 2012)	Regular Rates (from 10th January 2012)
Full (3 day) attendance	<input type="checkbox"/> \$2,050.00	<input type="checkbox"/> \$2,400.00
Day 1 & 2 attendance fee (Tuesday & Wednesday only)	<input type="checkbox"/> \$1,350.00	<input type="checkbox"/> \$1,600.00

Dinner

I will be attending the Dinner on Wednesday 22 February (included in full registration) Yes No

Accommodation Booking

I wish to book accommodation at the Stamford Grand Hotel at \$205 per night rate (credit card required to guarantee booking).

Check in Date _____ Check out Date _____ Special Requirements _____

Payment Information

Please Note: FULL PAYMENT is required prior to the commencement of the Workshop. Admission to the Workshop and the Dinner will be refused if payment has not been received. Payment or payment advice must accompany this form and may be made by:

Cheque payable to AOG Trust Account No.3 - FCT 2012

Electronic Funds Transfer: Account Name: AOG Trust Account 3 - FCT; Bank: Commonwealth Bank Australia; BSB: 065-112; Account Number: 1016 3945

To allow us to identify your EFT payment, please enter your surname as the reference.

Please debit my **credit card** for the registration fee*

AND/OR

Use this **credit card** as guarantee to secure my accommodation booking (no charge made by All Occasions Group)

MasterCard * Visa * AMEX * Diners *

Card holder's name as it appears on the card _____

Card Number _____ CVV _____

Expiry Date _____ Signature _____

*Please note that debits to your credit card will appear as "All Occasions Group" on your statement. *Accounts paid by credit card will incur a processing fee of 2.8% for Visa and MasterCard, 3.6% for AMEX and 4.95% for Diners Card.

Please return this completed form to All Occasions Group: alison@aomevents.com OR Fax: +61 8 8125 2233