

BURN AFTER READING

FIRING IMAGINATIONS AND ENGINEERING EXCELLENCE

FCT COMBUSTION NEWSLETTER: FEB 2018

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With 2018 already well underway, we are looking forward to a rewarding year for FCT Combustion and our customers.

While we are operating in a highly competitive market, FCT continues to be awarded and deliver on projects around the globe. The current year we are in will be a record year for FCT yet again with projects running in every continent except Antarctica, covering a wide range of industries including cement, iron ore pellet, lime, alumina products, pulp and paper etc.

Growing an awareness of our company and its capabilities is key to ensuring its continued growth. We have established more offices around the globe to get closer to our customers and deliver a better service than what the market has been used to.

Currently, we are building our footprint in South East Asia with the help of our agents, our presence at local conferences and events and delivering on projects such as a TurbuJet burner for CIMA's Perlis cement kiln.

Meanwhile, we continue to invest heavily in research and development. We anticipate that our latest burner, the Turbu-Flex™, will be launched in April. With new flexibility to adapt to different solid fuels, particularly alternative fuels, while maximizing burner performance, it will minimize fuel costs and emissions.

May I take this opportunity to wish you the very best for the year ahead.

Managing Director
FCT International

Con Manias



PROJECTS ACROSS THE GLOBE

RECENTLY COMPLETED OR CURRENTLY ACTIVE PROJECTS ACROSS FCT COMBUSTION

Americas

Ash Grove Cement, Durkee. Gyro-Therm MKII precessing jet burner for natural gas firing.

Cemento Chimborazo, Riobamba, Ecuador. Clay drying plant including petcoke fluidized bed, hot gas generator and triple shell rotary dryer, including fuel feeding and exhaust system.

Ciner Wyoming, Green River, Wyoming. Special hot gas generator.

Lafarge Canada, Exshaw, Alberta. Gyro-Therm MKII precessing jet burner for natural gas firing.

Lehigh Hanson, Fleetwood, Pennsylvania. Gyro-Therm MKII precessing jet burner for natural gas, coal and RDF firing.

Undisclosed client, South America. 36 burners and 29 valve trains for an iron ore pelletizing plant.

Europe

CBR Cimenteries - Heidelberg Group, Antoing, Belgium. Burner upgrade: Upgrade at burner centre and tip to increase performance using a higher momentum. Main target is to enable oxygen injection in the flame core, while reducing primary air amount and improving the use of alternative fuels.

Kerneos, Le Teil, France. New burner system for kiln producing high alumina clinker: Including accessories, igniter, flame sensor, valve train, compressor and BMS. Main target is to modernize the plant and reduce NOx emissions.

Imerys, Vatutine, Ukraine. New burner system for kiln producing chamotte: Including accessories, igniter, flame sensor, primary air fan and trolley. Main target is to increase the solid alternative fuels firing in the kiln while keeping emissions under control and modernize the plant.

Erdemir Mining Industry & Trade – Ermaden Group, Sivas, Turkey. New burner system for iron ore pelletizing kiln: Including accessories, natural gas and fuel oil valve trains as well as BMS engineering. Main target is to modernize the plant and allow simultaneous usage of fuel oil and natural gas while keeping the emissions under control.



Ash Grove Cement, Durkee.



CBR Cimenteries - Heidelberg Group, Antoing, Belgium.

Asia-Pacific

LMS Energy, Australia. Review of landfill gas flare design and operation for combustion performance.

Cement Industries of Malaysia Berhad (CIMA), Bukit Ketri, Perlis, Malaysia. Turbu-Jet AF burner with primary air blower and trolley assessment for kiln line no. 2.

SinoSteel Equipment and Engineering Company, Algeria. 30 iron ore pellet kiln burner systems including valve trains and BMS systems.

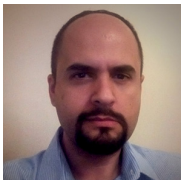
Vale Oman Pelletizing Company, Sohar, Oman. CFD modeling of iron ore pelletizing kiln burner.



LMS Energy, Australia.

THE PEOPLE OF FCT

Americas



Pedro Ladeira has joined FCT Inc as an Engineering VP having previously been at Cimento Tupi, Verde Potash and Holcim (Argentina & Brasil). With a solid background in process optimization and product development, management and operational improvements, and holding three patents for novel process routes, he is an excellent addition to our strong team.

Asia-Pacific

Wengky Ho Kin Weng has been appointed as agent for FCT Combustion in Malaysia. Elite Technic Industrial Engineering Co company, of which he is a partner, was founded in the 1970s and specializes in cement plant supplies, grinding media, refractories, industrial textiles and other manufacturing supplies.

FCT Combustion would like to acknowledge the assistance of its previous agent in Malaysia, Joe Khor, who is retiring from his position and moving back to Australia.

IN THE SPOTLIGHT



**Roger Hassold
General Manager Business Development**

Roger views the world through client eyes, having been a Process Engineer, Production Manager and Technical manager in cement, lime and clinker production. After more than twenty years in global high temperature processing industries, his commercial and technical understanding delivers insights for how to cost effectively optimize plants.

His senior management experience has transferred into delivering successful projects for clients in North America, Canada, Australia, the Middle East and South East Asia for FCT Combustion since joining in 2014. Roger has a strong analytical mind, with a focus on burner design and optimization using CFD modeling.

His track record of delivering value to customers and leading teams, saw him appointed to the role of General Manager Business Development Asia Pacific in June 2017.

CONFERENCE HIGHLIGHTS AND UPCOMING EVENTS

Americas

FCT presented at **INTERCEM Americas 2017 in Las Vegas in November**. We enjoyed meeting with our customers and associates there.

Pedro Ladeira will be presenting 'Implementing long term 100% thermal substitution with alternative fuels' at the **Alternative Raw Materials & Fuels Conference 2018 in Cancun, Mexico on February 22-24, 2018**. FCT will also be exhibiting at this conference and we look forward to meeting with our customers and associates there.

FCT will be presenting and exhibiting at the **60th Annual IEEE-IAS/PCA Cement Industry Technical Conference in Nashville, Tennessee on May 6-10, 2018**.

FCT will be attending the **NLA Annual Meeting in Houston, Texas on June 11-13 2018**.

FCT will be exhibiting and presenting at **XXXIV FICEM Technical Congress 2018 in Panama City, Panama in September 2018**.

FCT will be attending the **4th Symposium on Iron Pelletizing, Quebec City, Canada on September 30 to October 8, 2018**.

FCT will be presenting at the **2018 PEERS Conference in Portland, Oregon on October 28-31, 2018**. FCT will also be exhibiting at this conference and we look forward to catching up again with our customers and associates at this time.

Europe

Con Manias and Joel Maia are attending **Global CemFuels Conference & Exhibition in Berlin from 20-21 February 2018**. The conference focuses on alternative fuels for cement and lime production.

Asia-Pacific

FCT's CEO Asia-Pacific Jordan Parham and General Manager Business Development Asia-Pacific Roger Hassold attended the **Australia-Indonesia Business Summit in Adelaide in late November**. The summit, which includes a focus on resources and energy, facilitated introductions between Indonesian regional governments and Australian investors and businesses.

Roger Hassold, General Manager Business Development Asia-Pacific will represent FCT at the **25th ASEAN Federation of Cement Manufacturers Technical Symposium & Exhibition in Bandung, Indonesia in April 2018**. He will be presenting on 'Maximizing Alternate Fuels using modeling and flexible burner design'.

Engineers Hassan Basri (Manager of Manufacturing Department) and Mohammad Yusri Yahya (Assistant Manager of Mechanical Maintenance) from Cement Industries of Malaysia Berhad (CIMA), Malaysia visited FCT to inspect the fabrication of their Turbu-Jet AF burner.



CIMA's Hassan Basri and Mohammad Yusri Yahya with (centre) FCT's Nader Qamar.



FCT's Nader Qamar, Jordan Parham and Roger Hassold with CIMA's Hassan Basri and Mohammad Yusri Yahya.