

## PRE-CONFERENCE WORKSHOPS

Pre-conference workshops will be organised in conjunction with World Gold 2009:

### GOLD PROCESSING WORKSHOP

**Technological developments and their applications in gold processing**

Convenor: Guy Deschênes

### ENVIRONMENTAL SUSTAINABILITY WORKSHOP

**Environmental Sustainability and the Gold Industry: From Strategies to Delivery**

Convenors: Jenny Broadhurst and Brett Cohen



# WORLDGOLD CONFERENCE

2009

26–30 October 2009

Johannesburg, South Africa



## SPONSORSHIP

Sponsorship opportunities are available. Companies wishing to sponsor or exhibit should contact the Conference Co-ordinator.

## TOPICS

World Gold 2009 will reflect on these key issues with greater focus on improved efficiency and the latest technology in:

- geological mapping
- gold mining
- mineral processing, and
- extraction and refining
- human resources
- financial resources.

Thus, we are focusing on more environmentally friendly, resource efficient and energy efficient mining and recovery methods. Papers are therefore called for under the following themes:

- Environmental Efficiency**
- Resource and Energy Efficiency**
- Mining Efficiency**
- Technical Efficiency**

## BACKGROUND

The Southern African Institute of Mining and Metallurgy (SAIMM), the Canadian Institute of Mining, Metallurgy and Petroleum (CIM) and the Australasian Institute of Mining and Metallurgy (AusIMM) will jointly convene a World Gold Conference every two years. In 2009 it will be held in Johannesburg, South Africa and hosted under the auspices of the SAIMM. Some important aspects of the current mining environment will provide opportunities and threats for the industry in the foreseeable future, which include:

- All-time high gold metal prices
- All-time high non-gold metal prices present opportunities for By- and Co-products from gold operations
- Minimal exploration success for the last 10 years and little immediate prospect for revolutionary success is leading to revisiting known 'old' (sub-marginal) deposits
- Lower precious metal content
- Increasing refractoriness
- More energy efficient mining and processing



# First Announcement & Call for Papers

# Call for Papers

## MAIN THEMES

### Environmental Efficiency

- Environmental opportunities and issues
- Social and political challenges
- Cleaner wastes & storage
- Alternative waste storage and management systems
- Community opportunities arising from improved metal contributions

### Resource and Energy Efficiency

- Water
- Electricity
- Waste Utilization

### Mining Efficiency

- Technological developments to reduce mining costs and health and safety issues
- Effect of reserves and grades on mining and processing strategies
- Current health and safety issues
- Activities in various aspects of mining: rock mechanics, ventilation, back filling
- Fuel cells in mining practice
- Geological Mapping

### Technical Efficiency

- Exploration and feasibility studies for improved performance, geological mapping
- Applied mineralogy and surface analysis to assist in improving processing
- Sampling techniques and accounting
- Reduction of comminution costs and improvement in classification efficiency
- Advantages in using recovery of gold by gravity prior to leaching
- Selection of gravity recovery technologies
- Efforts in the development of alternative lixiviants
- Use of ion exchange resins in cyanidation plants
- Impact of preg-robbing in cyanidation practice
- New operations and new applications in the treatments of refractory gold ores

- Improvements of cyanidation to increase metal recovery, reduce reagents addition and toxicity of effluents, agitation
- Plant automation and control strategies
- Practical applications of modelling to reduce processing costs and to improve recovery
- Improvements in activated carbon/zinc cementation and refining practices
- Improvement in leaching of refractory gold minerals and silver minerals
- Developments and applications in effluent treatment

### Human and Financial Resources

- Training requirements
- State of academic institutions
- Health considerations for the gold mining industry
- Financing of projects in difficult market conditions.

## CALL FOR PAPERS

Prospective authors are invited to submit titles and abstracts of their papers, in **English**, and to indicate the topic under which the paper should be categorised. The abstracts should be no longer than 500 words and should be submitted to:

**Conference Co-ordinator, Jackie van der Westhuizen, 'World Gold Conference'**

SAIMM, P.O. Box 61127, Marshalltown 2107, South Africa  
Accepted papers will be subject to peer review. All accepted papers will be published and presented at the conference. Authors are required to register for the conference to present their papers.

**Tel: 27 (11) 834-1273/7; Facsimile 27 (11) 838-5923 or E-mail: jackie@saimm.co.za**

## KEY DATES

27 February 2009	Submission of abstracts
26 March 2009	Acceptance of abstracts
23 April 2009	Submission of final papers
26–30 October 2009	Conference

## The Southern African Institute of Mining and Metallurgy

Conference Co-ordinator, Jackie van der Westhuizen, World Gold Conference 2009

P.O. Box 61127, Marshalltown, 2107, Tel: 27 11 834-1273/7

THE DETAILS OF THIS FORM CAN BE POSTED TO US, or E-MAILED jackie@saimm.co.za or  
FAXED TO: 27 11 838-5923 / 833-8156

- I am interested in attending the World Gold Conference 2009
- I expect to be accompanied by my partner
- I may be interested in participating in a technical visit
- I intend to submit an abstract of the proposed paper entitled:

Title of paper: .....

Personal Details: Name .....

Address .....

Tel: ..... Fax: .....

E.mail: .....