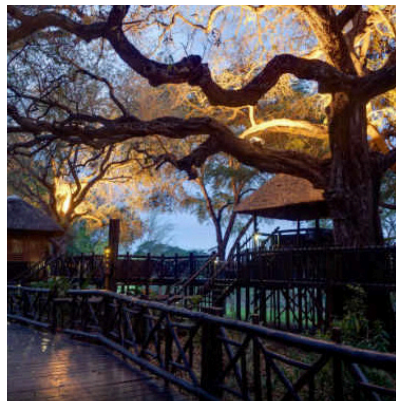
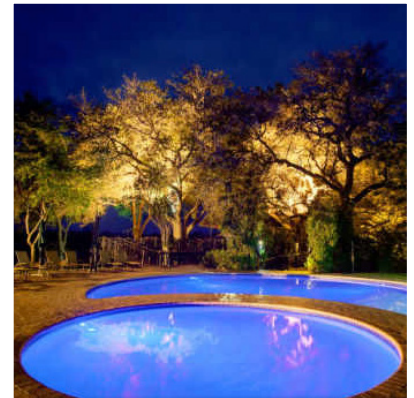
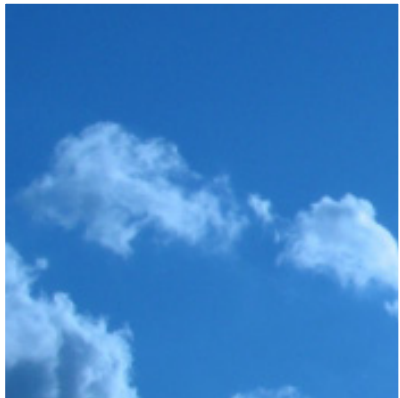
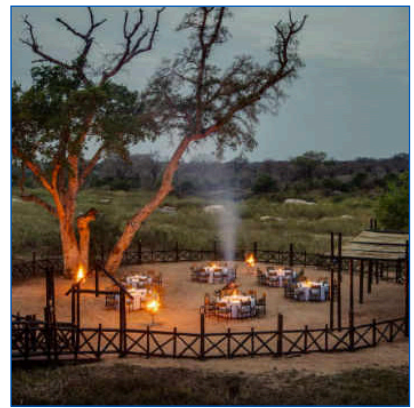
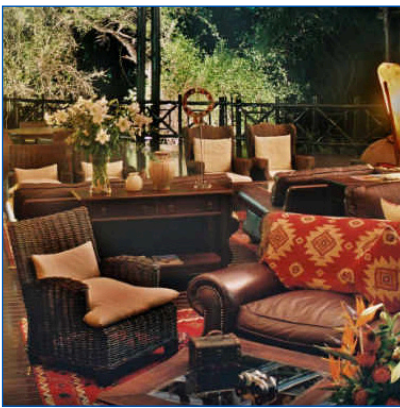




Multi-pollutant Emissions from Coal (MEC)

Wednesday 1–3 March 2017

workshop programme



08:30	Registration – outside meeting room (Hubya)
09:00-10:00	<p>Session 1 - Welcome to South Africa</p> <p>Welcome to MEC Lesley Sloss, International Energy Agency – Clean Coal Centre, UK</p> <p>Update on results from Energy Efficiency and Emission Challenges Workshop Lesley Sloss and Colin Henderson, IEA CCC, UK</p> <p>PLENARY Ultra-low emissions policy development in China Han Shui, Chief Engineer, National Energy Administration, China</p>
10:00-10:40	<p>Session 2 - The challenge for emission reductions in growing economies</p> <p>Session chair: Peter Nelson, MacQuarrie University, Australia</p> <p>Status quo and future prospects of multi-pollutants and mercury emission control technologies in China Xie QieYe, EPPEI, China</p> <p>Mercury emissions from South Africa's coal-fired power stations Kristy Langerman, Eskom, South Africa</p>
10:40-11:10	Coffee break (veranda area)
11:10-12:30	<p>Session 2 (continued)</p> <p>Mercury emissions from coal combustion in Indonesia Edward Pakpahan, Ministry of Environment, Indonesia</p> <p>Minamata related activities in Southeast Asia Wojciech Jozewicz, Arcadis, USA</p> <p>Emissions reduction from coal-fired power plants by operational improvements Joshua Charles, Lehigh University, USA</p> <p>Questions and discussion</p>
12:30-14:00	Lunch (hotel restaurant)
14:00-15:10	<p>Session 3 - Emissions from coal combustion</p> <p>Session chair – Wojciech Jozewicz, Arcadis USA</p> <p>Ambient atmospheric mercury in the vicinity of large coal-fired power stations Peter Nelson, MacQuarrie University, NSW, Australia</p> <p>Characteristics of distribution, migration and emission of trace elements in a 660 MW coal-fired power plant Yufeng Duan, Southeast University, China</p> <p>Emission of mercury in a 35 MW (thermal) industrial-scale oxyfuel combustion power plant Yongchun Zhao, Huazong University, China</p> <p>Questions and discussion</p>
15:10-16:00	Coffee break (veranda area)
16:00-17:00	<p>Session 4 - Emissions from coal combustion under new EU legislation</p> <p>Session chair – Colin Henderson, IEA CCC UK</p> <p>Challenges for European power plant operators for mercury reduction after completion of the BREF-LCP process Andreas Wecker, VGB PowerTech, Germany</p> <p>Expert opinion on BAT-associated emission levels (BAT-AELs) for mercury emissions to air from existing lignite-fired power plants with pulverised combustion (PC) boilers in the LCP BREF review process Alfons Kather, Hamburg University of Technology, Germany</p> <p>Questions and Discussion</p>
17:00	End of Day 1
18:30	<p>Gala Dinner sponsored by Cabotcorp</p> <p>The conference dinner will be in the African Conference Room. Dress code is smart casual (ties are not required). The evening will include traditional African music and dancing.</p>

09:00-10:30

Session 5 – Monitoring and measurement

Session chair – Steve Niksa, Niksa Energy Associates

Environmental mercury measurement: fundamentals, history, experience and current status in the USA for research and monitoring of air and emissions

Eric Prestbo, Tekran, USA

Determination of the total mercury and mercury thermospecies in coal

Nikolay Mashyanov, Lumex, Russia

Continuous mercury emissions measurement at concentrations lower than 10 µg/m³

Deborah Padwater, Sick, Germany

Metrology of oxidized mercury

Milena Horvat, Josef Stefan Institute, Slovenia

Questions and discussion

10:30-11:00

Coffee break (veranda area)

11:00-12:30

Session 6 – Emission control with sorbents

Session chair – Eric Prestbo, Tekran

Cost effective reduction of mercury using powdered activated carbon injection

Jamie Fessenden, Carbotcorp, USA

Evaluation of MinPlus sorbent for mercury capture

Jost Wendt, University of Utah, USA

Removal of elemental mercury from coal combustion flue gas by zinc sulphide with large surface area

Hailong Li, Central South University, China

Questions and discussion

12:30-14:00

Lunch (hotel restaurant)

14:00-15:30

Session 6 (continued)

Mercury removal from flue gas by modified clay minerals

Prof Junying Zhang, Huazhong University, China

Research on mercury emission and control during coal combustion in HUST-SKLCC

Yongchun Zhao, Huazhong University, China

Mercury compliance in North America using powdered activated carbon

Sheila Glesmann, ADA Technologies, USA

Questions and discussion

15:30

Coffee (veranda area) and **END OF DAY 2**

16:45

Meet in foyer for Sunset Game Drive (please confirm booking upon registration)

No food or drink is allowed on the game drive as this will attract the animals (but not in a good way). Please be aware that the temperature may drop during the drive. Also be prepared for insects. The drive will leave at 17:00 and we must be ready and aboard the jeeps by then.

20:00

Return from Game Drive

20:00

Dinner at hotel, drinks sponsored by BSEF

Dinner (casual) in the hotel restaurant with drinks provided by BSEF. Dinner is served from when we arrive until 22:00, so there is time to freshen up after the game drive and make your way to dinner at your leisure.

04:45	<p>Meet in foyer for Dawn Game Drive Casual dress. Be prepared for the temperature to increase during the drive. No food or drink will be allowed on the drive. Coffee and rusks will be available to eat in reception before we leave. We must be aboard the jeeps and ready to leave by 0500.</p>
08:00	<p>Return from Game Drive</p>
09:30-10:40	<p>Session 7 - Emissions control – emerging systems Session chair – Jost Wendt, University of Utah</p> <p>Multi-pollutant control by fixed sorbent systems Ole Petzoldt, W L Gore, Germany</p> <p>Mercury emissions control by packed bed scrubbers Graham Dickson, Celec, Canada</p> <p>Control of mercury emissions – alternative methods John Meier, Nalco, USA</p> <p>Questions and discussion</p>
10:40-11:00	<p>Coffee (veranda area)</p>
11:00-12:30	<p>Session 7 (continued)</p> <p>Effects of NH₄Br additive in coal on mercury transformation and removal during coal combustion Yufeng Duan, Southeast University, China</p> <p>Effect of various precipitating agents at different operating parameters on Hg partitioning in the wet limestone FGD Ida Masoomi, Sahar Mazdeyasna, Barbara Klein, Günter Scheffknecht, Stuttgart University, Germany</p> <p>Emerging markets for multi-pollutant control systems Lesley Sloss, IEA CCC, UK</p> <p>Questions and discussion and close of MEC</p>
12:30-14:00	<p>Lunch (hotel restaurant)</p>
14:00-15:20	<p>UNEP Coal Combustion Partnership Meeting</p> <p>An update on the Minamata Convention Gunnar Futsaeter, UN Environment, Switzerland</p> <p>An update on the UN Environment Coal Partnership - Current and proposed projects in S E Asia and Africa Wojciech Jozewicz, Arcadis, USA, and Lesley Sloss, Partnership Lead, UK</p> <p>A summary of the BAT/BEP document Wojciech Jozewicz, Arcadis, USA</p> <p>Questions and discussion</p>
15:20-15:50	<p>Coffee break (veranda area)</p>
15:50-17:00	<p>Discussion on how the Partnership could contribute to implementation of Minamata</p>
17:00	<p>End of meeting</p> <p>If you are staying in the hotel overnight on Friday evening, dinner at the hotel will be included as part of your hotel package.</p>