



Seventh International Chlorine Technology Conference & Exhibition

15-17 April 2008 – Lyon, France

Conference Programme



Euro Chlor
representing the chlor-alkali industry

Programme

Tuesday 15 April 2008

08.00 Welcome desk – Coffee and visit to the exhibition

Technology Session Part 1

Chair: Alistair Steel (Euro Chlor)

- 09.30** Opening remarks – Alistair Steel (Euro Chlor Executive Director)
09.40 Thermodynamics in control valves on liquid chlorine – Stephan Misrachi (KD Valves France – Descote valves)
10.00 Control valves for chlorine in accordance with GEST 98/245 – Practical experience and ways to expand applications – Gunter Wodara (Phönix Armaturen-Werke Bregel GmbH)
10.20 Panel discussion
10.35 Coffee break in exhibition hall
11.15 Assessment of various H₂/Cl₂ pressure control systems in membrane electrolysis – Yves Ropars (Technip France)/Joachim Gram (Technip Germany GmbH)
11.35 Arkema's new chlor-alkali facility at Saint Auban, France – Nick Prout (Simon Carves Ltd)/Jean-Christophe Millet (Arkema)
11.55 Intelligent systems and the chlor-alkali industry: Realizing maximum efficiencies – Gilles J. Tremblay (R2)
12.15 Panel discussion
12.30 Lunch – Visit to exhibition

Technology Session Part 2

Chair: Alistair Steel

- 14.00** In-line hydrogen specific sensors for chlorine industry – Prabhu Soundarrajan (H₂Scan Corporation)
14.20 New on-line analyser technology for safety and control – Chris Du Bois (AppliTek Inc.)
14.40 Analysis of the effect of brine impurities to membrane properties – Kazuo Umemura (Asahi Glass Co Ltd)
15.00 Advantages of the new GORE® filtration tube for brine purification – Rolf Lenhardt (WL Gore and Associates GmbH)
15.20 Panel discussion
15.40 Coffee break in exhibition hall
16.20 Developments in the use of CPVC systems in critical industrial environments – Tom Breiner (Lubrizol Corporation)
16.40 Modular skid mounted chlor-alkali plants – Charles J. Kotzo (PEng Conve & AVS Inc.)
17.00 Underground waste disposal – Alexander Baart (K&S – Entsorgung)
17.20 Creating value from chlorocarbon by-products – Gérard Malugani (Vichem)
17.40 Panel discussion
18.00 End of session – Exhibition open until 19.00

Wednesday 16 April 2008

Technology Session Part 3

Chair: Alistair Steel

- 08.00** Cathodic re-activation and retrofitting by Zero Gap Technique – Angelo Ottaviani (Industrie De Nora S.p.A.)
- 08.20** The INEOS experience: more than just power – Roger S. Pilkington (INEOS Technologies)
- 08.40** Development of Electrolysis Technology and next step for CEC – Akiyoshi Manabe (Chlorine Engineers Corp. Ltd)
- 09.00** Setting new standards: the next generation of Uhde electrolysis cells – Joerg Marciniak (Uhde GmbH)
- 09.20** Recent developments of Asahi Kasei Chemicals Corp's ion exchange membranes technology
– Hiroyoshi Houda (Asahi Kasei Chemical corp.)
- 09.40** Power Generation with PEM fuel cells at chlor-alkali plant – Adriaan Verhage (Nedstack Fuel Cell Technology B.V.)
- 10.00** Panel discussion
- 10.30** Coffee break in exhibition hall

Chair: Jürgen Baune (Chairman, General Technical Committee)

- 11.10** Opening remarks – Jürgen Baune (Akzo Nobel)
- 11.20** Comparison of fuel cells and ODC for energy recovery from hydrogen – Thomas Turek
(TU Clausthal – Institute für chemische verfahrenstechnik)
- 11.45** Impact of electricity costs on European chlor-alkali industry – Alistair Steel (Euro Chlor)
- 12.10** The World Chlorine Council (WCC) activities and progress – Arseen Seys (Managing Director, WCC)
- 12.30** Lunch – visit exhibition
- 14.30** Update on the French chlorine industry – Clarisse Durand (French Ministry of Ecology)
- 14.50** Update on the North American chlor-alkali industry – Frank Reiner (US Chlorine Institute)
- 15.15** RusChlor technical recommendations and Russian legislation on chlorine – Boris Jagud (RusChlor)
- 15.40** Coffee break in exhibition hall

Safety

Chair: Philippe Engel (Chairman, GEST)

- 16.20** Training – Philippe Engel (Arkema)
- 16.40** Moisture measurement in chlorine gas by Tunable Diode Laser Absorption Spectroscopy (TDLAS)
– Hans Welmink (Akzo Nobel)
- 17.00** Chlorine valve recommendations – Matthew Jessop (INEOS Chlor)
- 17.20** New obligations and solutions for safe chlorine rail transportation in Europe – Rheinhard Mattick (BASF)
- 17.40** Chlorine liquefaction – Steve Ingleby (INEOS Chlor)
- 18.00** End of session – Exhibition open until 20.00
- 18.30** Cocktails in exhibition hall

Thursday 17 April 2008

Environmental protection

Chair: Helmut Krehenwinkel (Chairman, Environmental Protection WG)

- 8.00 EU regulation on Mercury export ban and storage obligation – Caroline Andersson (Euro Chlor)
- 8.20 Update on the IPPC chlor-alkali BREF/Dismantling of phased out mercury electrolysis units – Jean-Pascal Valentin (Syndicat des Halogènes et Dérivés)
- 8.40 Evolution of mercury emissions – Helmut Krehenwinkel (Evonik Degussa)

Health

Chair: Jan Sije Huismans (Chairman, Health WG)

- 9.00 Implications of REACH for the chlor-alkali industry – David Farrar (INEOS Chlor)
- 9.20 Impact of Electromagnetic Fields (EMF) Directive on the chlor-alkali industry (health) – Jean-Claude Besson (Arkema)
- 9.40 Impact of EMF Directive on the chlor-alkali industry (measurement) – Joachim Lange (Solvay)
- 10.00 Coffee break in exhibition hall
- 10.40 Mercury and Chlorine – Establishment of OEL at EU-level – Herbert Bender (BASF)
- 11.00 Chlorine gassing and Mercury exposure/Best Practices in worker protection and treatment – Jan Sije Huismans (Akzo Nobel)
- 11.30 Swimming pools and chlorinated by-products – Véronique Garny (Euro Chlor)
- 11.50 Conference conclusions
- 12.00 Lunch – Visit exhibition
- 14.00 The end