



**De Nora
Announces
The 19th
Chlorine/Chlorate Seminar**

De Nora: Global Technology & Service

**SEPTEMBER 18-20, 2007
Renaissance Cleveland Hotel
Cleveland, Ohio USA**

De Nora provides a wide range of products, technology, and services to the electrochemical industry. Proprietary Dimensionally Stable Anodes (DSA[®]) and equipment serve the worldwide Chlor-Alkali and Chlorate industries, special application anodes, technologies, and processes.



DSA is a registered United States trademark of De Nora.



Corporate re-engineering has impacted the Chlor-Alkali and Chlorate industries worldwide. Companies found that they could no longer afford to maintain a large staff of highly experienced technical individuals. Instead, companies now call upon suppliers such as De Nora to provide technical resources. De Nora offers this seminar as a way to provide basic required technical information to the industry's engineers and provide an opportunity to meet and discuss issues with their peers.

De Nora Tech
Corporate Headquarters
100 Seventh Avenue, Suite 300
Chardon, Ohio 44024 USA



September 18-20 Planned Agenda Topics

TUESDAY, SEPTEMBER 18

GENERAL Session

- Global Chlor-Alkali Market – A Delicate Balancing Act to Profitability
- Looking Forward: Public Policy Possibilities in the Future
- Chemistry of Nitrogen and Bromine Species in Brine and Removal by Air Stripping
- The Effects of Brine Impurities on Dimensionally Stable Anodes
- Review of Gas Diffusion Electrodes: Current & Future Technologies
- Technical Assistance in the IDN Network
- Fuel Cell Applications in Chlor-Alkali & Chlorate Plants

WEDNESDAY, SEPTEMBER 19

CHLORATE Session

- Chlorate Market Overview
- Effects of Electrolyte Impurities in Chlorate Cells
- Rectifier / Transformer Maintenance: Squeezing More from Equipment
- Drying Sodium Chlorate
- Crystallizing Sodium Chlorate
- Chlorate Cell Chemistry & Electrochemistry
- Open Forum

DIAPHRAGM Session

- Back Pulse Filtration
- The Effects of Brine Impurities on Diaphragm Cell Operation – Polyramix[®] vs. Polymer Modified Asbestos Diaphragms
- Fundamentally Characterizing Polyramix[®] Diaphragms

WEDNESDAY, SEPTEMBER 19 (CONTINUED)

DIAPHRAGM Session (continued)

- Cathode Analysis Study
- Jumper Switch Design and Its Safe Operation
- Prometa[®] pDCPD in the Chlor-Alkali Industry
- Improving the Operation of a Diaphragm Cell Evaporator System

MEMBRANE Session

- Activated Cathodes for Industrial Electrolysis
- HCl Electrolysis
- Nafion[®] Continuous Evolution for the Chlor-Alkali Industry
- Sulphate Removal Using Nanofiltration
- On-Site Salt-to-Chlorine Plants
- Performance Improvements of the UHDE BM2.7 Technology
- Flemion[®] – New Membrane Development

MERCURY Session

- Mercury Cell Technology & Operation Improvements
- Sulfur-Impregnated Carbon for Removing Mercury From Chlor-Alkali Wastewaters: Lessons Learned
- European Mercury Plant Status
- History of & How to Measure Fugitive Mercury Emissions from Mercury Cell Chlor-Alkali Cell Rooms

THURSDAY, SEPTEMBER 20

- Tours to Fairport Harbor Research and Chardon Plant
- SEP Training (class size limited)
- Lanly Plant Tour
- Watteredge Plant Tour

Further information regarding Seminar registration and agenda will be available on the De Nora website in June.

Seminar Fee:

\$100.00 per customer attendee

\$500.00 per vendor attendee (by permission)



Special Discounts and Deadline Dates

The Renaissance Hotel has offered our attendees a special hotel rate. Please advise hotel registration that guest will be attending the De Nora Seminar. The cutoff date for this special rate is August 24, 2007. Please contact the Renaissance Hotel at 1-800-HOTELS-1 for reservations.

De Nora Tech

Fax: 440-285-0312

E-mail: seminar@eltechsystems.com

Web: www.denoratech.com

For further information contact:

Chuck Schultz: 440-285-0241

Marilyn Messner: 440-285-0321

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We hope you can join us!

