

TMS



ANODE TECHNOLOGY

for the Aluminum Industry

**Leading Experts Discuss How to Optimize
Anode Quality and Performance**

Sponsored by:

TMS
The Minerals, Metals & Materials Society

the TMS Aluminum Committee
and the Light Metals Division.



COURSE PREVIEW

Registration Deadline August 8, 2014

www.tms.org/anode2014/ab



MEETING INFORMATION

REGISTER NOW for ANODE TECHNOLOGY for the Aluminum Industry

Learn from Experts in the Field How to Make the Most of Your Anode Operations

Leading experts in the anode technology field discuss the latest principles and operating practices needed for consistent production of high-quality anodes. The course will provide:

- An overview of anode production processes and their effect(s) on Potroom operations.
- An understanding of the practices and procedures necessary for production of "Quality" anodes.
- Practical solutions for improving anode production efficiency and performance.

Anode Technology for the Aluminum Industry will be beneficial to plant managers, anode area managers, process engineers, technical managers, and anode area supervisors.

REGISTRATION

Anode Technology for the Aluminum Industry registration will open on Sunday, September 7 at 6 p.m.

Course registration is required to attend the lectures and special events.

The **\$2,250** registration fee includes: Sunday evening welcome reception, morning and afternoon refreshment breaks, daily lunch, lectures, course notes, industry tours, and graduation dinner.

Registration Deadline: August 8, 2014

To register, visit www.tms.org/anode2014/ab.

COURSE SCHEDULE

Following an introduction to the Hall-Heroult Process, with emphasis upon anode production and usage, these topics will be covered in subsequent sessions:

- **Anode Raw Materials—Petroleum Coke**
- **Anode Raw Materials—Coal Tar Pitch**
- **Green Anode Production**
- **Baking**
- **Rodding Shop**
- **Anode and Butt Testing**

- **Potroom Performance**
- **Pollution Control Technology**
- **Principles for Learning from Data**

Lectures will begin daily at 8 a.m. The course will conclude on Friday, September 12 at 1 p.m.

For a complete course agenda please visit www.tms.org/anode2014/ab.

SPECIAL EVENTS

The following events and activities are included with course registration:

Sunday, September 7 • 6 p.m. – 8 p.m.

Welcome Reception • The Tropicana

Tuesday, September 9 • 4 p.m. – 8 p.m.

Lazar Anode Technologies Tour • Hawesville, Kentucky

Lazar Anode Technologies is developing a cutting-edge carbon baking technology with the demonstration scale testing of the Lazar Continuous Carbon Baking Furnace. As part of this tour, attendees will learn about the process and operations involved.

All attendees are required to wear closed toed shoes, cotton clothing, long-sleeve knit shirts, and jeans.

Shuttles will depart The Tropicana at 3:50 p.m. following the conclusion of lectures. Dinner will be provided by Century Aluminum after the tour.

Wednesday, September 10 • 1 p.m. – 6 p.m.

Century Aluminum Plant Tour • Sebree, Kentucky

Century's Sebree aluminum smelter with production of over 200,000 mt aluminum per year is located about 25 miles south of Evansville, IN. The tour will include visits to the Green Mill, Baking, and Rodding areas.

Personal protective equipment will be provided; all attendees are required to wear cotton clothing (jeans, knit shirts, etc).

Shuttles will depart the The Tropicana at 1 p.m.

Thursday, September 11 • 6 p.m. – 9 p.m.

Graduation Dinner • Biaggi's Ristorante Italiano

Shuttles will depart from the The Tropicana at 5:30 p.m.

Graduation dinner sponsored by Century Aluminum

HOUSING & TRAVEL

The course will take place at The Tropicana Executive Conference Center in Evansville.

Overnight rooms are available at Le Merigot Hotel (across the driveway from Tropicana) at a discounted rate of **\$139 per night** for a single/double room. To make your reservation call toll-free **1-800-342-5386 or 821-433-4000** and reference the group code TMSANO. **This rate is available until August 7, 2014.**



ABOUT THE PRESENTERS



Euel Cutshall has more than 35 years' experience in the carbon anode area, working for Reynolds Metals Company and Alcoa. During his career, Cutshall has worked at more than 20 aluminum smelters and anode production facilities. He emphasizes improving quality and consistency of the anode production process using existing equipment and raw materials. Cutshall has numerous publications and has served in various capacities within TMS: Anode Area Session chair, Anode Area Subject chair, Aluminum Committee chair, Light Metals Division chair, and TMS president in 1998.



Barry Sadler has more than 30 years in the aluminum industry in a range of positions, but always with a focus on anode carbon technology. He worked in research, production management, organizational development, and corporate technical management for Comalco/Rio Tinto in Australia and New Zealand for more than 20 years. An industry consultant for the past 12 years, Sadler provides advice, training, and support to clients worldwide, and is a regular lecturer at the University of Auckland courses and various conferences. He was the 2013 editor of TMS's *Light Metals* proceedings, and has served as the chair of the TMS Aluminum Committee.



Stephen Lindsay has worked in numerous technical and managerial capacities at Alcoa's smelting locations for more than 30 years. He has had articles published in *Light Metals*, proceedings of the Australasian Smelting Technology Conferences, and the proceedings of International Alumina Quality Workshops. Lindsay also has served TMS as the editor of *Light Metals*, subject chair of Reduction Technology, and in other capacities. He was awarded Best Paper for Reduction Technology in 2006 and 2009, has contributed to TMS industrial electrolysis courses and short courses, and has served as an instructor for graduate programs at the University of New South Wales and the University of Auckland.



Les Edwards is VP of Technical Services at Rain CII Carbon, where he has worked since 1998. He is responsible for customer technical support, laboratory and quality management, and R&D. Prior to joining Rain CII, Edwards spent 11 years working for Comalco Aluminium in Australia in a variety of roles related to carbon and refractory materials and aluminum smelting. He has regularly contributed to TMS meetings for the last 20 years in the form of technical papers, program organizer of Electrode Technology Sessions, and chair of two keynote sessions.



Robert H. Wombles is vice president of global customer technical service for Koppers Inc., where he has worked since 1997. Wombles is responsible for coordinating Koppers' customer technical service efforts globally, and all technical issues involving the company's line of pitch products. Before joining Koppers, Wombles spent 22 years with Ashland Petroleum Company in various R&D positions, including vice president of R&D. He has spent 38 years as an industrial chemist, holds 17 U.S. patents, and has authored numerous technical papers and presentations.



Keith Sinclair has 30 years' experience helping businesses achieve maximum results with process improvement efforts. After 10 years working in industrial engineering, operations, and business improvement roles with Alcoa, he founded Sinclair Associates, Inc. in 1986. He developed a business process improvement strategy called "Integrated Process Management," which he has taught in a range of manufacturing and processing industries. His client list includes everything from small, privately held companies to large international firms, with clients in the United States, Europe, Asia, Australia, South America, and Southern Africa. Keith is a frequent speaker with TMS on topics related to process improvement and data analytics specifically in Carbon Plants.



UPCOMING MEETINGS

For additional meeting information,
visit www.tms.org/meetings

TMS

MS&T14[®]

MS&T14

October 12-16, 2014

David L. Lawrence Convention Center, Pittsburgh, Pennsylvania

Registration opening summer 2014

TMS2015

144th Annual Meeting & Exhibition

TMS2015

March 15-19, 2015

Swan & Dolphin Hotels • Walt Disney World • Orlando, Florida

Call for papers opens May 1, 2014



TMS 2014 Industrial Aluminum Electrolysis Course

November 16-20, 2014 • Dubai, UAE

www.tms.org/anode2014/ab

Hear industry experts explain how to optimize your anode production operation. Anode Technology for the Aluminum Industry will provide:

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- An understanding of the practices and procedures necessary for production of "Quality" anodes.
- Practical means of improving anode production efficiency and performance.

Registration Deadline: August 8, 2014

REGISTRATION IS NOW OPEN

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