

ADVISORY BOARD TRACK H



This Track provides presentations on current technologies and strategies concerning CCS, CCR, ELG and coal ash in the energy industry.

Monday | 1PM - 3PM

H1. CCR & ELG COMPLIANCE MGMT.



H1.1 NOVEL APPROACHES TO ELG COMPLIANCE

Tyler Cromey, Research Engineer, Southern Company Services



H1.2 DESIGNING A PERFORMANCE TEST PROGRAM FOR A CARBON CAPTURE PROCESS

Rick Krenzke, Project Director, TRC



H1.3 STATES VS FEDS: WHO HAS THE BALL ON WATER AND ASH COMPLIANCE?

CO-CHAIR - Jason Eichenberger, Assoc. Civil Engineer, Burns and McDonnell



H1.4 USE OF SLURRY WALL SYSTEMS TO SUPPORT CCR CLOSURE & CORRECTIVE ACTION

Dale Evans, Senior Director of Technology, Remedial Construction Services; Kate Whysner



H1.5 MASS DISCHARGE METRICS TO SUPPORT REMEDY SELECTION AT COAL ASH SITES

Stephanie Jones, Environmental Engineer, Geosyntec Consultants

Monday | 3:30PM - 5:30PM

H2. COAL ASH, CCR & FGD



H2.1 GEOCHEMICAL ANALYSIS OF COAL ASH CONSTITUENTS IN DRINKING WATER

Paula Panzino, Technical Expert, Haley & Aldrich, Inc.; Jacob Chu, Lisa Bradley



H2.2 RULES SHIFT AMERICA'S RESOURCE ABUNDANCE TO SHORTFALL

Danny Gray, P.E., Executive Vice President, Charah, LLC



H2.3 HOW DENSE SLURRY TECHNOLOGY CAN HELP ACHIEVE ZERO LIQUID DISCHARGE

CO-CHAIR - Dale Timmons, Program Manager, NAES Corporation



H2.4 REQUALIFYING FLY ASH FOR BENEFICIAL USE/SALE USING AMENDED SILICATES

Steve Baloga, P.E., VP Engineering and Environmental Services, Novinda Holdings, Inc.



H2.5 ADVANTAGES OF ZLD COMPLIANT DENSE SLURRY ASH DISPOSAL SYSTEMS (DSS)

Tobias Lutz, Product Manager, Putzmeister Solid Pumps GmbH; Uli Freitag



H2.6 RECLAIMING AND RECYCLING COAL COMBUSTION RESIDUALS FOR BENEFICIAL USE

CO-CHAIR - Bill Fedorka, Executive Director, Advanced Technology and Projects, SEFA

H3. CCR RULE

H3.1 GROUNDWATER MONITORING AT CCR FACILITIES: NEXT STEPS

CO-CHAIR - Tammy Rauhen, Senior Engineer, Golder Associates; Craig Schuettpeiz, Todd Stong

H3.2 CCR DATA MANAGEMENT: TOOLS TO AUTOMATE DATA COLLECTION & ANALYSIS

Christine Lew, Manager, Environ. Software/Data Mgmt Svcs, Tetra Tech, Michael Ungs

H3.3 CCR RULE LOCATION RESTRICTION FUNDAMENTALS & STRATEGIES

CO-CHAIR - Eric Nelson, Vice President, Senior Project Manager, SCS Engineers

H3.4 SITING & DESIGN OF NEW UWLS AND GWM SYSTEMS PURSUANT TO THE CCR RULE

Gary Pendergrass, Principal Geological Engineer & Environmental Group Leader, GeoEngineers, Inc.

H3.5 HONEY I SHRUNK THE POND: CONSIDERATIONS FOR TANK BASED LOW VOLUME WWT

Dave Guinta, Chemical Engineer, Burns & McDonnell; Jared Troyer, Duke Energy

H3.6 IMPLICATIONS AND STRATEGIES FOR THE CCR RULE LOCATION RESTRICTIONS

Thomas Dehlin, Senior Engineer, Fossil Power Tech., Sargent & Lundy; David Nielson

H4. CCR & ELG

H4.1 CCR INDUSTRY - BENCHMARKING THE INDUSTRY TO PREPARE FOR CHANGE

Mark Rokoff, Vice President, AECOM

H4.2 EVALUATION OF CCR GROUNDWATER MANAGEMENT STRATEGIES

CO-CHAIR - John Hesemann, Regional Environmental Practice Mgr, Burns & McDonnell; Wayne Weber

H4.3 LESSONS LEARNED FROM ELG COMPLIANCE PROJECTS

CO-CHAIR - Kevin McDonough, Vice President of Sales and Marketing, United Conveyor Corporation

H4.4 ENGINEERED IMPOUNDMENTS TO MANAGE CCRs AND LOW VOLUME WASTEWATER

Craig Schuettpeiz, Senior Project Engineer, Golder Associates, Ryan Shedivy, Todd Stong, Golder Associates; Jennifer Charles, Great River Energy

H4.5 OPERATE LIKE THERE IS NO TOMORROW WITH CCR UNIT CLOSURES IN MIND

Jason Pokorny, Senior Project Manager, Haley & Aldrich

H4.6 A DETAILED OVERVIEW OF THE KLEENWATER PILOT SYSTEM FOR ELG COMPLIANCE

Mark Pastore, VP Technology, KLeeNwater

H5. COAL ASH, CCR & CCP

H5.1 PURSUING 100% CCP BENEFICIAL USE... AND BEYOND

Neal Kochis, Senior Project Manager, Haley & Aldrich

H5.2 CCR LANDFILL CHALLENGES FROM SITING THROUGH CONSTRUCTION

Gabe Lang, Program Manager, Senior Engineer, AECOM; Dave Skeggs, Rachel Combs

H5.3 PROTECTING THE "CLOSED LOOP" IN WET BOTTOM ASH SYSTEMS

CO-CHAIR - Paul Pigeon, Associate, Golder Associates

H5.4 RESEARCH ON DECARBONIZATION OF FLY ASH BY TRIBOELECTRIC SEPARATOR

Youjun Tao, Professor, China University of Mining & Technology; Ling Zhang, Zhang Weichi, Xue Yawen

H5.5 A CLOSURE IN-PLACE SUCCESS, WHILE FACILITATING FUTURE SOLAR FACILITY

Jason Ffarek, Senior Associate, Sargent & Lundy; David Jolivet, Sargent & Lundy; William Skalitzky, Jeffery Maxted, Alliant Energy

H5.6 MICROWAVE-ASSISTED RECOVERY OF REES FROM COAL COMBUSTION PRODUCTS

Megan Macala, Research Scientist, AECOM; Elliot Roth, AECOM; Tracy Bank, AECOM; Phillip Tinker, AECOM; Bret Howard, U.S. Dept. of Energy NETL; Evan Granite, U.S. Dept. of Energy NETL

H6. FGD, ELG & CCR



H6.1 ADVANCES IN NON-BIOLOGICAL POWER WASTEWATER TREATMENT

Charles McCloskey, Industrial Wastewater Business Manager, Evoqua Water Technologies



H6.2 BOTTOM ASH OPTIONS FOR ELG AND CCR COMPLIANCE

CO-CHAIR - Gerald Long, Manager, North America, United Conveyor Corporation



H6.3 RESPONSIBLE MANAGEMENT OF FGD BYPRODUCTS

CO-CHAIR - Keith Ambrose, Chemical Engineer, Duke Energy



H6.4 OPTIMIZING FGD SYSTEMS FOR MERCURY CONTROL AND ELG WASTEWATER

Gary Blythe, Principal Process Engineer, AECOM; Katherine Dombrowski



H6.5 AN INNOVATIVE FINAL CLOSURE AND REVETMENT TECHNOLOGY FOR CCR

Paul O'Malley, Vice President, Sales, Watershed Geo

H7. CCS



H7.1 POLICY PARITY FOR CARBON CAPTURE

CO-CHAIR - Heather Greenley, Program Coordinator, USEA



H7.2 THE U.S. DEPARTMENT OF ENERGY'S MAJOR CCS DEMONSTRATION PROJECTS

CO-CHAIR - Thomas Sarkus, Industrial Partnerships Manager, National Energy Technology Laboratory



H7.3 A METHOD FOR PREDICTING CCR LANDFILL LEACHATE GENERATION VOLUME

Cedric Ruhl, Senior Engineer, Wood Group PLC.



H7.4 FTIR MONITORING SYSTEM PROVIDES TIGHTER CONTROL ON EMISSIONS FROM C

Jim Cornish, Sales & Support Manager, Gasmeter Technologies



H7.5 IMPROVED ECONOMICS FOR CARBON CAPTURE RETROFITS AT EXISTING PC PLANTS

Robert James, General Engineer, US DOE NETL; Eric Grol, Jeff Hoffmann, Travis Shultz, US DOE NETL; Eric Lewis, Leidos

H8. RARE EARTH ELEMENTS



H8.1 RECOVERY OF RARE EARTH METALS FROM COAL COMBUSTION RESIDUALS

Joseph Laurino, President, Periodic Products, Inc.; Zachary Huba



H8.2 TEA OF BIOLOGICAL PROCESS FOR REE RECOVERY FROM END-OF-LIFE MATERIALS

CO-CHAIR - David Reed, Research Scientist, Idaho National Laboratory; Y. Jiao, D. Park, A. Brewer, S. Singer, W. Bourcier LLNL, V. Thompson, Y. Fujita, M. Crain-Zamora, M. Yim, M. Jindra, V. Nguyen, INL; H. Jin, M. Gupta, J. Sutherland, Purdue; L. Ho, BioReactor Sci, S. Woods, NTEC; L. Lammers, UC Berkeley



H8.3 RARE EARTH ELEMENTS IN COAL AND COAL COMBUSTION PRODUCTS

Elliot Roth, Research Engineer, NETL/AECOM; Megan Macala, AECOM/NETL; Ronghong Lin, ORISE; Tracy Bank, AECOM/NETL; Bret Howard, NETL; Evan Granite, NETL; Yee Soong, NETL



H8.4 DETERMINATION OF RARE EARTHS IN COAL COMBUSTION BY-PRODUCTS

CO-CHAIR - Evan Granite, Research Chemical Engineer, USDOE / NETL; Elliot Roth -NETL, Tracy Bank - NETL, Mary Anne Alvin - NETL, Ken Ladwig - EPRI



H8.5 RECOVERY OF RARE EARTH ELEMENTS FROM NORTH DAKOTA LIGNITE COAL

Daniel Laudal, Manager-Major Projects, Inst. for Energy Studies, University of North Dakota;