

7:00 a.m. - 8:00 a.m.

CONTINENTAL BREAKFAST EXHIBIT HALL

8:00 a.m. - 10:00 a.m.

Welcoming Remarks and Keynote Presentations in Heritage Hall East Plenary Speakers

10:00 a.m. - 10:30 a.m.

COFFEE BREAK IN EXHIBIT HALL *Coffee Break Sponsored by:*



THOROUGHBRED 1	THOROUGHBRED 2-3	THOROUGHBRED 4	THOROUGHBRED 5-7
Disposal I	Ponds I	Beneficial Use I	Landfill I

10:30 a.m.

#019 - Leaching Management and Control at a South African Power Plant
Kelley Reynolds-Clausen, Jaco Nel, Melanie van der Heyde

#177 - In Situ Treatment for Dewatering and Stabilization of Pond Ash Deposits
Gary Ahlberg

#224 - CCR Characterization and Typical Properties
Mark Rokoff, Sherry Bugg, Tara Masterson

#102 - In Situ Characterization of Beneficial Enhanced Engineered Fill at TVA's Gallatin Ash Stacking Facility
David J. White, Pavana Vennapusa, Brendan FitzPatrick, Jason F. Hill, Nicholas McClung

11:00 a.m.

#027 - Determination of Site-Specific Reference Background Concentration Levels
May Raad

#190 - Numerical Modeling to Evaluate Hydrological Dynamics and Risk Assessment of Bottom Ash Ponds at a Former Coal-Fired Electric Power Plant
Khandaker Ashfaq, Michael Kladias, Shawn Sager, Tamar Schlekat

#105 - Results in Reclaiming and Recycling Coal Combustion Residuals for Encapsulated Beneficial Reuse
William Fedorka, Jimmy Knowles, John Castleman

#118 - John E Amos CCR Landfill Soil Nail Wall
Sam N. Spear, Charles F. Straley, Ron Harris, Terry Herdman, John Massey-Norton, Steve Roberts, Pat Keith, Nick Jones

11:30 a.m.

#049 - Biogeochemistry: A Novel Approach to Managing and Marketing CCR
Andrea M. Rocha, Jacques Smith, and Duane Graves

#192 - Engineered Soils for Cost Effective Coal Ash Cover Systems
Marc S. Theisen

071 - A Promising Utilization Fly Ash from a Chinese Power Plant: Manufacturing of Foam Glass
Jing Li, Xinguo Zhuang, Eliseo Monfort, Xavier Querol, Alejandro Saburit Llaudis, Oriol Font, Natalia Monreno, Francisco Javier Garcia Ten

#179 - In-situ solidification/stabilization as an alternative closure strategy for coal combustion residuals
Adam Chwalibog, Jeff Gillow, David Caballero

Noon to 1:00 p.m.

COMPLIMENTARY LUNCH PROVIDED IN HERITAGE EAST

REGENCY BALLROOM 1	REGENCY BALLROOM 2	REGENCY BALLROOM 3	
Chemistry I	Mining & Reclamation I	Cement & Concrete I	
<p>#173 - Vanadium - Toxicology, Occurrence, and "Do Not Drink" Warnings <i>Lisa JN Bradley, Laura Fell, Mark Jackson</i></p>	<p>#043 - Beneficial Re-use of CCR's for Coal Mine Reclamation <i>Kathleen Whysner, Dale W. Evans</i></p>	<p>#031 - Excavatable and Early Strength CLSM Using LOI Fly Ash and Limestone Screenings <i>James T. Locum, L.K. Crouch, Daniel Badoe</i></p>	
<p>#238 - Methodology for Predictive Groundwater Quality Compliance Analysis with Focus on Cobalt, Lead, Lithium, and Molybdenum <i>Stuart J. Cravens, Nathaniel R. Keller, Eric J. Tlachac</i></p>	<p>#144 - Cemented Backfill Characterization - Mining Industry Perspective and Application to CCR Materials <i>Patsy Moran, Jeff Gillow</i></p>	<p>#182 - Air-Entraining Agent (AEA) Adsorption by Fly Ash: Distinguishing Between Unburned and Activated Carbon <i>Anupam R Joshi, E. Ivan Diaz-Loya, Doug Rhodes, Rafic Minkara</i></p>	
<p>#087 - Enrichment and leaching behaviour of trace elements from oxy-coal combustion fly ashes <i>Patricia Cordoba, Ruth Diego, Miguel Angel Delgado Calvo, Mercedes Maroto-Valer, Xavier Querol Carceller</i></p>	<p>#258 - Characterization of fly ash fractions to trace the extent of pollution <i>Amabalika Niyogi</i></p>	<p># 167 - Use of Supplementary Cementitious Materials in Australian Construction: Historical Perspectives, Recent Standard Reviews and Future Impacts <i>Craig Heidrich</i></p>	

AGENDA & SESSIONS

Tuesday, May 9, 2017

THOROUGHbred 1	THOROUGHbred 2-3	THOROUGHbred 4	THOROUGHbred 5-7
Disposal II	Ponds II	Aggregates	Landfill II
1:00 p.m.			
<p>#212 - Coal Combustion Residual (CCR) Remediation - A Road Map for How to Get There from Here <i>Douglas R. Gray, Bryon Dahlgren</i></p>	<p>#193 - Geotechnical Considerations in Surface Impoundment Management and Closure John Seymour, Omer Bozok</p>	<p>#080 - Coal Residues: The New Golden Treasure Haim Cohen, Roy Nir Lieberman, Yaniv Knop</p>	<p>#092 - Selecting the Right Closure Cap Option for Your Surface Impoundment or CCR Landfill <i>Steven C. Lamb, Floyd Cotter</i></p>
1:30 p.m.			
<p>#015 - Partially Saturated Silt Behavior Effects on Fly Ash Stacking <i>Kenneth Hardin, Luke Williams</i></p>	<p>#205 - A Program Approach to Performing A Three-Stage Seismic Evaluation for a Fleet of Ash Basin Dams <i>Ramachandran Kulasingam, Ahmed Zein, John Volk, Rajendram Arulnathan, Richard Davidson, Gabriel Lang, Sharat Gollamudi</i></p>	<p>#086 - CCR and ELG: A Joint Approach to Bottom Ash Management <i>David A Weakley II</i></p>	<p>#119 - Exposed Geomembrane Cover Systems for Coal Ash Facilities <i>Clay Reichert</i></p>
2:00 p.m.			
<p>#014 - Coal Fly Ash Silo Operating Procedure Modification for Optimization of Moisture Control at TVA's Bull Run Fossil Plant Fly Ash Disposal Area <i>Eric Hageman, Jason Hill</i></p>	<p>#226 - Geotechnical Characteristics and Safety Considerations for Wet Ash Basin Closure Chris D. Hardin, Milind Khire, David Causey</p>	<p>#018 - A Preliminary Study on Carbonated CFBC/MSWI Bottom Ash Aggregates <i>H.J. Kim, D.W. Jin, H.K. Lee</i></p>	<p>#156 - Geotechnical Benefits of Synthetic Turf Final Cover Systems <i>Ming Zhu, William Tanner, Paul O'Malley, Michael Ayers</i></p>
2:30 p.m.			
<p>#024 - Coal Combustion Residues and Groundwater: It's Complicated <i>Bob Kleinmann</i></p>	<p>#240 - Liquefaction Screening of Coal Fly Ash Impoundments <i>Miguel A Pando</i></p>	<p>#069 - CCR Closures and Geocomposite Drains <i>Aigen Zhao, Bill Betke, Steve Mayes</i></p>	<p>#180 - A Case History on Exposed Geomembrane Cover Systems and the Wind Defender® Ballast System at Dominion Virginia Power's Curly Hollow Landfill <i>Elliot Pugh, Chris Gee, Ryan Kamp</i></p>
3:00 p.m.			
COFFEE BREAK IN EXHIBIT HALL			

REGENCY BALLROOM 1

REGENCY BALLROOM 2

REGENCY BALLROOM 3

Chemistry II

Chemical Classification

Cement & Concrete II

#009 - Surface compaction model use and sorptive capacity evaluations for inorganic constituents from coal combustion residuals to guide monitored natural attenuation assessment
Jason Nolan, Mark Velleux, Todd Wilson, James Hallden, Mark Filardi, Bill Miller

#026 - Fly ash Classification - Old and New Ideas
John M. Fox

#239 - Compressive, Flexural, and Tensile Strengths of Various Mortar Mixes Containing Synthetic Lightweight Aggregate
Alyssa M. Bonora, Christopher W. Swan

#035 - Impact of Coal Combustion Residues on Groundwater Quality for Coal Mine Reclamation
Chin-Min Cheng, Maria Amaya, Tarunjit Butalia, Robert Baker, Harold W. Walker, John Massey-Norton, William Wolfe

#126 - Arsenic in Coal Combustion Residuals Management Settings - Analytical Challenges
Jeff Gillow, Mike Hay, Richard Murphy

#077 - Development of the Fracturing Proppant with Low Density and High Strength Using High Alumina Fly Ash
Shuqiang Ding, Guanghui Gao, Yang Dong, Jinder Jow, Shih-yaw Lai

#213 - Groundwater grab samples from direct-push screen points: data quality adequacy for coal ash investigation
Zackary Smith, Elizabeth Perry, Gabriel Knight

#155 - Evaluating Metals Sequestration in Ash by Powdered Activated Carbon
J. Wong, S. Glesmann, D. Park, M. Mitchek, R. Minkara

#076 - Fly Ash versus Bottom Ash. Making alkali hybrid cement
A Qu-Bo Palomo, Olga Maltseva, Ana Fernandez-Jimenez

#160 - An Approach to Using Geochemical Analysis to Evaluate the Potential Presence of Coal Ash Constituents in Drinking Water
Jacob Chu, Paula Panzino, Lisa JN Bradley

#172 - When Science, Advocacy, Public Health, and Politics Collide: Toxicology, Occurrence, and "Do Not Drink" Warnings for Hexavalent Chromium
Lisa JN Bradley, Laura Fell, Mark Jackson

#233 - The Strength Characteristics of Mortar Concretes Containing Synthetic Lightweight Aggregate and Calcium Carbonate
Christopher W. Swan, Matthew J. Ramos

3:30 p.m. - 5:00 p.m.

POSTER SESSION AND POSTER RECEPTION - POSTER HALLWAY

Happy Hour
Sponsored by:



POSTERS

013 - Trench Backfill Material Using Plant Coal Ash

Le H. M. Tri, Park D.W., Seo J.W. and Seo W.J.

021 - Laser separation of rare earth elements from coal ashes

Tran X. Phuoc, Ping Wang

028 - Effect of ash particle sizes on the compressive strength and thermal conductivity of geopolymer synthesized with alkali activated low-calcium ground coal bottom ash

Hyo Kim, Ji-Young Lee

029 - The mechanism of early stage compressive strength attainment in low-calcium ground coal bottom ash geopolymer

Hyo Kim, Sung-il Hong

063 - New Materials Obtained from Fly Ash and TiO₂ Used for Self-Cleaning buildings' façade

Maria Visa, Anca Duta, Ion Visa

072 - Monitoring of PM_{2.5} in coal ash samples & heavy metals stabilization by carbonation process

Thriveni. T, Ramakrishna. CH, Ahn Ji Whan

088 - Success in Promoting Beneficial Use of Maryland CCRs

Robin G. Lee, Leonard G. Rafalko, Paul Petzrick

130 - Surface Impoundment Closure – A Case Study of Two Grading Approaches

Jonathan N. Hotstream, Michael J. Amstadt, Dennis A. Marshall

140 - High Capacity Fly Ash Wellscreen

Paul C. Schmall, Gregory M. Landry

147 - An Assessment of the Health Risk Associated with NORM Exposure from Coal Ash

Andrew D. Monnot, Kevin M. Towle, Bethany Winans, James Keenan

154 - Applications and Geotechnical Properties of Mixed CCR and Coal Refuse Materials

Robert Snow

159 - Importance of the "Relative Source Contribution" Factor when Setting Drinking Water Standards for Select Coal Ash Metals

Brenten Williams, Christy Barlow, Andrew Monnot, Brent Finley

170 - Achieving Groundwater Protection Standards for Appendix IV Constituents: The Problem with Using Background in the Absence of Maximum Contaminant Levels (MCLs)

Ari Lewis, Andrew Bittner

200 - Mesoporous Silica from Coal Fly Ash

Chenchen Li, Xiuchen Qiao

244 - Rare Earth Elements in the Lopingian Coal from the Dahebian Mine, Liupanshui Coalfield, Guizhou, China

Shifeng Dai, Hongjian Song, James C. Hower, Colin R. Ward, David French

246 - The Correlation between the pH of Solutions and the Formation of Ettringite in the Creation of Piezoelectric CSA Cements

Sarah Hodges, Tom Robl, Robert Jewell, Tristana Duvall

248 - Mechanical properties of fly ash-based geopolymer containing IGCC slag

Seunggu Kang, Soobin Park, John J. Bang

POSTERS, CONTINUED

253 - Frost Resistance of Ternary Cementitious Concretes Containing Cement-Fly Ash-Silica Fume

Chang-Seon Shon, Arman Abdigaliyev, Dong-Un Lee

255 - Combined Iron Reduction and Solidification/Stabilization Process to Immobilize Heavy Metals in Concentrated Flue Gas Desulfurization Brines

Wenlong Zhang, Harshad Oswal, Jay Renew, Ching-Hua Huang, Kirk Ellison

259 - Technical Development and Application of Coal Ash Recycling Resources

Jin-Gyu Lim, Tae-Sang Kwon, Bi-Ung Heo, Sang-Chul Kim

260 - Universal CLSM Using High LOI Fly Ash and Limestone Screenings without Portland Cement

James T. Locum, L.K. Crouch, Daniel Badoe

262 - Influence of Alkali activator Dosage on Strength of CFBC Fly Ash Based Geopolymer

Shi G. Chen, Xiao J. Li, Qun Y. Wang, Lu T. Jia, Yong H. Li, Ya J. Wei

265 - Advanced and Hybrid Closures of CCR Impoundments: Methods for Faster and Less Expensive Alternatives to Standard Clean Close and Cap in Place

Russell B. Stapp

266 - Effect of optical filtering on ash content determination

Ergin GÜLCAN, Özcan GÜLSOY

7:00 a.m. to 8:00 a.m.

CONTINENTAL BREAKFAST EXHIBIT HALL

Breakfast
Sponsored by:



THOROUGHbred 1	THOROUGHbred 2-3	THOROUGHbred 4	THOROUGHbred 5-7
Ponds III	Ponds VII	Rare Earth Elements I	Groundwater & Environment I

8:00 a.m.

#218 - Strategic Management of Active CCR Impoundments -
Jeremy M Thomas

#169 - Stability Evaluation and Monitoring During Staged Construction of Fly Ash Closure Projects
Christopher D. Hardin, Gregory L. Hebel, Tony Simmons

#006 - High Yield, Economical and Environmentally Benign Production of Rare Earth Elements from Coal Fly Ash
Prakash Joshi, Dorin Preda, Matthew Boucher, James Hower, John Groppo, Zia Abdullah, Martin Toomajian

#157 - Molybdenum Impacts in Groundwater due to Coal Combustion Residuals: Environmental Chemistry and in situ Treatment
Michael Hay, Shannon Ulrich, Stephanie Offenberger, Jeff Gillow

8:30 a.m.

#225 - Evaluating Impoundment Closure Scenarios using Fate and Transport Modeling
Jacob J. Walczak, Meng Wang, Brian Hennings

#145 - Dewatering and Containment of Coal Ash Using Geotextile Tubes for Ash Pond Closure
Meena Viswanath, Ming Zhu, Tom Stephens, Kirk Foley

#158 - Partitioning of REE into Fly Ash Glasses at Boiler Temperatures
Clint Scott, Allan Kolker, Jorge Vazquez, James C. Hower, Christina L. Lopano

#051 - Boron Treatment Technology for CCR Wastewater, Ash Leachate, and Groundwater
Allison Kreinberg, Bruce Sass Linxi Chen, and Duane Graves

9:00 a.m.

#230 - Evaluating Worker and Community Safety in Coal Ash Surface Impoundment Closure Decision-Making
Ali Boroumand, Kurt Herman, Ari Lewis

#164 - Innovative Retaining Structure and Slope Stabilization Technologies
Justin Anderson

#162 - Rare Earth Element Recovery from Coal Fly Ash by Alkali Sintering and Leaching Methods
Ross K. Taggart, Jack F. King, James C. Hower, Heileen Hsu-Kim

#004 - Why Arsenic Levels in Groundwater can be Naturally Above MCL?
Ishwar P Murarka

9:30 a.m.

#234 - Automated Data Acquisition Systems - How do they Function and When Might they be Appropriate for your CCR Surface Impoundment Instrumentation Monitoring Program?
Peter Zimmerman, Paul Booth, Greg Dutson

#168 - Lessons Learned from Geotechnical Characterization of Pondered Fly Ash and their Impacts on Pond Closure Design and Construction
Robert Bachus, Paul Sabatini, William Wolfe, Tarunjit Butalia, Pedro Amaya

#066 - Evolution of the Properties of Organic Matter and Mineral Phases of Reclaimed Coal Fly Ash
Xenia Wirth, Chris R. Shearer, Susan E. Burns, and Kimberly E. Kurtis

#148 - Conceptual Groundwater Remedial Alternatives at Coal Combustion Residuals (CCR) Sites
Herwig Goldemund, Jeff Ahrens

10:00 a.m.

COFFEE BREAK - EXHIBIT HALL

Coffee Break
Sponsored by:



REGENCY BALLROOM 1	REGENCY BALLROOM 2	REGENCY BALLROOM 3	
FGD I	Ash Management I	Cement & Concrete III	
<p>#236 - Current Industry State of Knowledge on Brine - Encapsulation <i>Kirk Ellison, Corné Pretorius, Jeff MacSween</i></p>	<p>#220 - Trends in the CCR Market - Optimizing for Success <i>Mark Rokoff</i></p>	<p>#222 - Field Study on the Long Term Durability of Low-Energy, Low-CO2 Cements <i>Robert Jewell, Robert Rathbone, Thomas Robl</i></p>	
<p>#241 - Encapsulation of Concentrated FGD Wastewater in Poned and Production CCR using NuRock Process <i>Abhisek Manikonda, Akpovona Ojaruega, Quincy Esteban, Vincent Ogunro</i></p>	<p>#107 - Integrated Data Management Systems Improve Work Flow and Reporting for Coal Ash Sites <i>Natasha Hausmann, Greg Jirak, Karen Fletcher, Jorge Salcedo</i></p>	<p>#151 - An Investigative Study on the Feasibility and Performance of High-Volume Recycled Content Concrete Pavement <i>Jonathan T. Drury, Austin J. Messerle, Jeffery S. Volz</i></p>	
<p>#231 - Mineralogical & Geochemical Evaluations of Brine-Encapsulated Monoliths <i>Corné Pretorius, Shameer Hareeparsad, Kirk Ellison</i></p>	<p>#022 - Environmental Factors Associated with Decommissioning that can Impact Cost, Schedule and Reuse Options <i>William Ahlert, Mark Filardi</i></p>	<p>#171 - Updating Fly Ash Specifications to Meet the Future Needs of the Concrete Industry <i>Ivan Diaz Loya, Rafic Minkara, Craig Wallace, Ben Franklin</i></p>	
<p>#056 - The Role of Dense Slurry in Achieving Zero Liquid Discharge <i>Dale Timmons, Istvan Kovacsics</i></p>	<p>#020 - South Africa's power producer's revised Coal Ash Strategy and Implenentation Progress <i>Nico Singh, Kelley Reynolds-Clausen</i></p>	<p>#150 - An Experimental Study on Bond Strength of Reinforcing Steel in High-Volume Fly-Ash Concrete <i>Trevor J. Looney, Jonathan T. Drury, Jeffery S. Volz</i></p>	

AGENDA & SESSIONS

Wednesday, April 10, 2017

THOROUGHbred 1	THOROUGHbred 2-3	THOROUGHbred 4	THOROUGHbred 5-7
Ponds IV	Ponds VIII	Rare Earth Elements II	Groundwater & Environment II

10:30 a.m.

#214 - CCR Pond Dewatering - Critical Issues and Planning Decisions for Dewatering of Ponds
Jeffery B. Heyman, Richard Bird, Stephen Couture

#135 - In Situ Solidification/Solidification (ISS) Applications for CCR Unit Closure
Christopher A. Robb, Daniel Woeste

#113 - Distributions and Extraction of Rare Earth Elements from Coal and Coal By-Products
Elliot Roth, Tracy Bank, Ronghong Lin, Megan Macala1, Bret Howard, Aaron Walsh, Robert Thompson, Evan Granite, Yee Soong

#228 - Emerging Water Management Challenges at Coal-Fired Power Stations to Address New USEPA Regulations
Catherine Magliocco, Matthew Munz, Zel Jones, Michael Condran

11:00 a.m.

#216 - Smarter, Cheaper, Ash Dewatering
Steven Kosler, David Seeger

#138 - Remediation of Coal Combustion Residuals Using Microbially-Induced Calcite Precipitation
Abby A. Thane, Eric Troyer, Al Cunningham, Lee Spangler, Ben Gallagher, Adrienne J. Phillips

#008 - Rare Earth Element Distribution in Fly Ash Derived from the Fire Clay (Kentucky) coal
Madison M. Hood, Ross K. Taggart, Ryan C. Smith, Heileen Hsu-Kim, John G. Groppo, Kevin R. Henke, Uschi M. Graham, James C. Hower

#232 - Managing Springs Emanating from Coal Combustion Residual Disposal Impoundments
Mark L. Orzechowski, Daniel M. Tolmer

11:30 a.m.

#227 - Coal Ash 2.0: A Strategic Resource
Claudio Arato, Bruce Sifton

#176 - Coal Ash Pond Water Management using Super Absorbent Polymers
Milind V. Khire, Sai Sahithi Annamraju, Chris Hardin, Richard P. Traver, Quint Barefoot

#149 - Preliminary Techno-Economic Evaluation of a Novel Membrane Based Separation and Recovery Process for Rare Earth Elements from Coal Combustion Residues
Zachary Hendren, Young Chul Choi, Helen Hsu-Kim, James C. Hower, Mark Wiesner

124 - How to Manage a Statistically Significant Increase (SSI) During Groundwater Detection Monitoring under the CCR Rule
Bob Glazier

12:00 - 1:00 p.m.

LUNCH ON YOUR OWN

REGENCY BALLROOM 1

REGENCY BALLROOM 2

REGENCY BALLROOM 3

FGD II

Mining & Reclamation II

Cement & Concrete IV

#245 - Brine-Encapsulation Case Study for Coal Ash Landfill Leachate Treatment
Vincent Ogunro, Sunyoung Bae, Kirk Ellison

#183 - Identification of the Mechanisms and Long-Term Prediction of Leaching Behavior of Major and Trace Elements from Fly Ash Monofills in Mine Sites
Mina Mohebbi, Farshad Rajabipour, Barry E. Scheetz

#165 - Use of Supplementary Cementitious Materials in Australian Construction: Historical Perspectives, Recent Standard Reviews and Future Impacts
Craig Heidrich, Warren South, Daksh Baweja

#254 - Mass Transport Release of Heaving Metals from solidified/stabilized co-disposed fly gas desulfurization brine and coal fly ash monoliths
Jay E. Renew, David Kosson, Ching-Hua Huang

#256 - Fabricated Geomembranes for Coal Combustion Residual Containment
Timothy D. Stark, Patrick J. Elliott

#127 - New Application for Coal Fly Ash and Pondered Aggregate Fines
Hamid Akbari, Robert Mensah-Biney, Gemma Dove, Brooks Strausborger, Jonathan Simms

#247 - The Effects of Flye Gas Desulfurization Gypsum (FGD Gypsum) on P Fractions in a Coastal Plain Soil
Kun He, Xiaoping Li, Longli Dong, Yumei Mao

#104 - Mechanical properties and functional durability of fly ash pellets, adsorbents in wastewater treatment
Ion Visa, Adrian Duta, Maria Visa, Anca Duta

#215 - Use of fly ash in CSA concrete
Rod Jones, Nikolaos Strompinis

AGENDA & SESSIONS

Wednesday, May 10, 2017

THOROUGHbred 1	THOROUGHbred 2-3	THOROUGHbred 4	THOROUGHbred 5-7
Ponds V	Ponds IX	Rare Earth Elements III	Groundwater & Environment III
1:00 p.m.			
<p>#217 - Pond Closure Design-Build Delivery, Steven Kosler <i>Steven Kosler, Paul Schmall</i></p>	<p>#082 - Estimating the Post-Liquefaction Shear Strength of Impounded Coal Combustion Residuals <i>Andrew R. Fuggle, J. Grant Martin</i></p>	<p>#114 - Selective Recovery and Concentration of Rare Earth Elements from Coal Ash Leachate Using Liquid Membranes <i>Ryan C. Smith, Ross Taggart, James C. Hower, Mark Wiesner, Helen Hsu-Kim</i></p>	<p>#084 - Permitting Wet Areas from Coal Ash Impoundments with Consideration of Natural Conditions <i>Matt Huddleston, Kathy Webb</i></p>
1:30 p.m.			
<p>#045 - Use of Slurry Wall Systems to Support CCR Impoundment Closure and Corrective Action <i>Dale W. Evans, Kathleen Whysner</i></p>	<p>#089 - Macroencapsulation: Obtaining On-Site Clean Closure by using Beneficial Reuse of Non-Traditional Materials <i>John P. Swenson, Jeffrey T. Crate, Scott Sheridan</i></p>	<p>#011 - Poned and landfilled fly ash as a source of rare earth elements: Notes on the study of ash from a Kentucky power plant <i>James C. Hower, John G. Groppo, Kevin R. Henke, Uschi M. Graham, Madison M. Hood, Prakash Joshi, Dorin V. Preda</i></p>	<p>#106 - Multiple Lines of Evidence Facilitate Background Groundwater Well Selection in a Geologically Complex Site <i>Natasha Hausmann, Mark Shibata, Luke Shannon, Brian Bjorklund</i></p>
2:00 p.m.			
<p>#204 - Rehabilitation of Ash Basin Spillways <i>John Bove, Kevin Dill, Barry Quinn</i></p>	<p>#096 - Integrated Approach to Dewatering and Stabilization of Ash Basins for Closure <i>Christopher D. Hardin, Paul Schmall</i></p>	<p>#128 - Recovery of Rare Earth Elements from Coal Ash with a Recycling Acid Leach Process <i>Rick Peterson, Mike Heinrichs, Annie Lane, Rachid Taha, Justin Glier</i></p>	<p>#125 - Mass Flux Performance Metrics for Justification of Monitored Natural Attenuation Groundwater Remedies under the CCR Rule <i>Bob Glazier</i></p>
2:30 p.m.			
<p>#132 - Ash Slurry Dewatering Method Selection & Implementation at the TVA Kingston Ash Recovery Project <i>John Trimble</i></p>	<p>#099 - Performance of an Alternative Final Cover System at the Little Blue Run Disposal Facility <i>Rick J. Buffalini, Daniel M. Tolmer</i></p>	<p>#199 - Leaching Rare Earth Elements (REE's) from Coal Ash by Mineral Acids <i>Yan Luo, Hanjing Tian, James Hower, Maohong Fan</i></p>	<p>#139 - Comparison of Groundwater Sampling Methods for Monitoring CCR Units <i>Joseph Robb</i></p>
3:00 p.m.			
COFFEE BREAK - EXHIBIT HALL			

REGENCY BALLROOM 1

REGENCY BALLROOM 2

REGENCY BALLROOM 3

FGD III

Regulations

Cement & Concrete V

#050 - Sulfur-Oxidizing Bacteria Convert Problematic Waste into Marketable Resource
Jacques J. Smith, Duane Graves, Linxi Chen, Allison Kreinberg, Brianna Wallace, and Robby White

#221 - Assessing CCR Rule Adoption by States - How Will This Work
Mark Rokoff

#078 - Scrubbing Hazardous Wastes of the Spanish Phosphate Industry and Used Tires Ash via Coal Fly Ash and Incorporation of the Product in Concrete for Civil Engineering Purposes
Roy Nir Lieberman, Haim Cohen, Natalia Moreno, Jesus de la Rosa, Yaniv Knop, Xavier Querol

#146 - Investigation of Hydrogen Sulfide Formation in FGD By-Products
Bruce Sass, Duane Graves, Linxi Chen, Allison Kreinberg, Kenneth Ladwig

#100 - An Economic Approach to Dewatering Coarse-Grained Coal Combustion Residuals
Ryan Shedivy

#249 - The Effect of Spray Dryer Absorber Ash as an Asphalt Mix Performance Enhancer
Clayton Cloutier, Konstantin Sobolev, Thomas Jansen, Robert Meidl, Ervin Dukatz

#032 - Geotechnical Properties of Flue-Gas Desulfurization (FGD) Sludge Material
R. Eric Pease, Alan F. Rauch, Ken Ladwig

#073 - Storing Coal, Fly Ash, FGD Gypsum and Limestone in Concrete Domes
Benjamin Davis, Michael Hunter

#121 - Asian Ash Pond Characteristics and Use for Portland/Calcium Sulfoaluminate Hybrid Cements
Tristana Y. Duvall, Robert B. Jewell, Anne E. Oberlink, Thomas L. Robl

#065 - The Effects of Wood Source and Combustion Conditions on Properties of Biomass Fly Ash
Xenia Wirth, Yeboah, Nortey .N.N. Yeboah, Susan E. Burns

#081 - How Fly Ash Paste Disposal helped Europe's Largest Brown Coal Power Station to reduce its Water consumption by 90%
Andreas Broedel, Uli Freitag

#079 - Mechanical Characterization of Fly-Ash/Borosilicate Based Geopolymers
Gianmarco Taveri, Ivo Dlouhy

AGENDA & SESSIONS

Wednesday, May 10, 2017

THOROUGHbred 1	THOROUGHbred 2-3	THOROUGHbred 4	THOROUGHbred 5-7
Ponds VI	Ponds X	Beneficial Use III	Groundwater & Environment IV

3:30 p.m.

#207 - Drainage and Flow Management for Stilling Pond Closure - TVA Kingston
Christopher Backus, Thomas Kovacic, Zachary Kaczor, Gabriel Lang, Rachel Combs

#059 - In-Situ Stabilization Pilot Test for Coal Ash - Applicability of the Results to the Closure of Coal Ash Impoundments
Paul R Lear

#097 - Innovative Methods for Site Access and Insitu Testing of Impounded Ash Materials
Christopher D. Hardin, Kevin Harshberger, Roger Falmezger

#046 - Utilizing Cut-Off Walls for Groundwater Remediation Issues Associated with Coal Ash Landfills and Impoundments
Sean Rome

4:00 p.m.

#210 - Long Term Management of Non-CCR Wastewater at TVA Bull Run
Nick Golden, Rachel Combs, Steve Walker

#067 - Lessons Learned from a Wet Ash Pond Closure
Christopher Colangelo, John Glover

#174 - Use of Coal Combustion Ash in Coating Mortar
Kalil N. H. Sampaio, Antonio Eduardo B. Cabral

#141 - Dynamic Waste Water Modeling for Coal Burning Power Plants
Greg Behrens, Mike Damian

4:30 p.m.

#237 - Brine - Encapsulation Bench & Field Testing Recommendations
Kirk Ellison, Nortey Yeboah, Corné Pretorius

#061 - Zeolite Materials Obtained from Fly Ash Used for Removal of Heavy Metals and dye from Complex Wastewaters
Maria Visa, Popa Nicoleta, Andreea Chelaru

#264- CCR Barrier Systems: Mitigating Risk from Leakage with Proven Advanced Technologies
Abigail Gilson-Beck, Jimmy Youngblood

6:00 - 10:00 p.m.

HORSE PARK OFF-SITE RECEPTION - Bus transportation will line-up outside the front doors of the Hyatt Regency Hotel (lobby level) from 5:30 p.m. - 6:15 p.m. on Wednesday, May 10. Buses will drop-off in front of the Alltech Arena main entrance. Transportation back to the hotel will begin at 9:00 p.m. Final bus leaves at 10:00pm.

REGENCY BALLROOM 1

REGENCY BALLROOM 2

REGENCY BALLROOM 3

Geotech I

Beneficial Use II

Cement & Concrete VI

#188 - Performance of Spray Dryer Absorber Fly Ash to Stabilize a Paper Mill Sludge Landfill
Mike Ruetten, Karl M. Krueger, Dawn DeJardin, Thomas Jansen, John Rabe

#116 - Standard Guide for Beneficial Use of Coal Combustion Products Stored in Landfills or Surface Impoundments
Rafic Minkara, Ivan Diaz, Marty Leedy, Bill Petruzzi, Angela Gerderman

#120 - Spray Dryer Absorber Materials (SDAM) Current Research
Robert Jewell, Ken Ladwig, Thomas Robl, Anne Oberlink, Tristana Duvallet, Kevin Henke

#161 - The Relative Impacts of the Use of Calcium and Sodium Dry Sorbent Injection (SDI) reagents
Michael D. Schantz, Gerald Hunt

#143 - CCR Sampling and Testing for Geotechnical and Beneficial Reuse Evaluations
W. Randy Pettyjohn, N.N. Nortey Yeboah, Gregory L. Hebel

#136 - Non-spec Fly Ash Remediation
Jeffrey Whidden, Joe Thomas

#257 - What is a "Practical" (ASTM C 618) SAI--Strength Activity Index for Fly Ashes that can be used to Proportion Concretes Containing Fly Ash?
Edwin Dunstan

#261- Superheated steam jet milling
Bill Martin

#075 - Fly Ash versus bottom ash; reactivity in alkaline environment. Effect of particle size distribution
Ana Fernandez-Jimenez, Olga Maltseva, Angel Palomo

7:00 a.m. - 8:00 a.m.

CONTINENTAL BREAKFAST

THOROUGHbred 1	THOROUGHbred 2-3	THOROUGHbred 4	THOROUGHbred 5-7
Ponds XI	Ponds XIV	Ash management II	Groundwater & Environment V

8:00 a.m.

#186 - CCR Pond Construction Access Evaluation Monitoring and Proofing Methods
J. Grant Martin, Gregory L. Hebel

#202 - Borrow Area Evaluation for Ash Pond Closure at Power Stations
Patrick Fitzgerald

#122 - Comparison of EN 450 and ASTM 618 Specifications and Testing Procedures for Fly Ash Used in Concrete
Thomas Robl, Anne Oberlink, Robert Jewell, Ken Ladwig

#042 - Strategies for Managing Impacted Groundwater at Coal Combustion Residue (CCR) Impoundment Sites - Screening and Implementation
Jim Romer, Bruce Wielinga, Konrad Quast, Jim Field

8:30 a.m.

#194 - A Solution to Pondered Coal Ash
Kunigal Shivakumar, Wade Brown, Kazi Imran

#025 - Solar Options to be used on Utility's Ash Ponds
Gretchen Dolson, Duke Kuvaas

#196 - Pursuing 100% CCP Beneficial Use - Is It Achievable?
Neal P. Kochis, Steven F. Putrich, Lisa JN Bradley

#016 - Challenges of Monitoring Groundwater at CCR Sites in Karst Terrain
Thomas M. Reed, Alison L. Dunn, Nicholas G. Schmitt

9:00 a.m.

#197 - CCR Pond Closure Strategies - The Tried & the True, Plus New Technologies/Tools with Case Study Examples
Steven F. Putrich, Jason M. Pokorny, Neal P. Kochis

#034 - Utilizing Alternative Caps that Meet Subtitle D Equivalency Requirements for CCR Landfill and Impoundment Closures to Gain Significant Savings and Secondary Use Opportunities
Mark Roberts, Steven Flanders

#223 - Beneficial Use of CCR's Under the CCR Rule
Gabriel Lang, Daniel Jones

#142 - 165 ft Overfill of 130 Acre Coal Mine Slurry Pond Including Dam Stability and Groundwater Considerations
Dan Whalen

9:30 a.m.

#111 - Post-Closure Observations at Fly Ash Impoundments
Pedro J Amaya

#070 - Recent Insights into Mechanically-Enhanced Evaporation of Mine Affected Waters
Daniel M. Couton, Joane C. Timones

#163 - Coal Ash Beneficial Reuse Evaluation Consistent with Requirements of the Federal CCR Rule
Ari Lewis, Andrew Bittner, Eric Dube

#033 - Using the Conceptual Site Model to Tackle the \$64,000 Questions Surrounding Groundwater Monitoring and Corrective Action
Carla Landrum, Jim Field, Tim Glover

10:00 a.m.

COFFEE BREAK

REGENCY BALLROOM 1	REGENCY BALLROOM 2	REGENCY BALLROOM 3	
Landfill III	Landfill VI	Disposal III	
<p>#083 - Groundwater Monitoring Requirements of the CCR Rule - What's Next? <i>Tom Mann, Kathy Webb</i></p>	<p>#058 - A Comparison of Actual vs Predicted Leachate Generation <i>Cedric H. Ruhl, Chris Jordan</i></p>	<p>#017 - ZLD at Coal Fired Power Plants Results in Chlorides Buildup - Causes and Cures <i>Ivan Cooper</i></p>	
<p>#064 - CCP Dewatering Using a Horizontal Well <i>Ryan J. Baeten, Julie A. Zimdars, Leif Tolokken, Michael Lubrecht, Daniel Christensen</i></p>	<p>#057 - Action Leakage Rate Calculation <i>Christopher S. Jordan, Cedric H. Ruhl</i></p>	<p>#039 - In-Situ Solidification and Stabilization of CCR: Bench Scale Study Results <i>Tony Moran, Benjamin Gallagher, Margaret Carrillo-Sheridan, James Redwine, Anthony Saylor, Dimitri Vlassopoulos</i></p>	
<p>#090 - Case History - CCR Landfill Cover System Stormwater and Infiltration Water Design and Management <i>Kenneth R. Daly, Evan Andrews, Cedric Ruhl, Mark Shumpert</i></p>	<p>#181 - Water Balance Modeling of Final Covers of CCR Landfills <i>Milind V. Khire, Banafsheh Saghaei</i></p>	<p>#040 - In-Situ Solidification and Stabilization of CCR: Potential Applications and Cost Analysis <i>Margaret Carrillo-Sheridan, Benjamin Gallagher, James Redwine, Dimitri Vlassopoulos, Tony Moran</i></p>	
<p>#091 - Performance Evaluation of Mini-Pilot Test Beds Treated with Water Repellent Organo-silane (OS) <i>William Boivin, Vincent Ogunro, Milind Khire, John Daniels</i></p>	<p>#103 - CCR Landfill Liner System Performance Evaluation <i>Kenneth R. Daly, Cedric H. Ruhl</i></p>	<p>#198 - Codisposal of CCR and FGD Wastewater <i>Sue Longo</i></p>	

AGENDA & SESSIONS

Thursday, May 11, 2017

THOROUGHbred 1	THOROUGHbred 2-3	THOROUGHbred 4	THOROUGHbred 5-7
Ponds XII	Ponds XV	Panel Discussion	Groundwater & Environment VI

10:30 a.m.

#134 - Sustainable Closure of Fly Ash Impoundments
Al Briggs, Jacob Catt, Ron Froh, Jay Clayton

#109 - AEP's CCR Impoundment Closure Projects - Lessons Learned, Insights, and Exemplary Practices
Guy Cerimele

#263 - Panel - The Role of Advisory Boards in the CCR Industry
Moderated by John L. Daniels and Patricia D. Galloway

#047 - Real Life Technical Challenges with CCR Groundwater Monitoring Implementation
Sean Rome

11:00 a.m.

#133 - Integrated Management of CCR Pond Closures
Frank Lenzo, Jon Forbort, Richard Murphy

#117 - Practical Considerations for CCR Facility Design, Operations, and Maintenance
Evan Andrews, Joshua M. Bell, Kenneth R. Daly, Mark Shumpert

#263 - Panel - The Role of Advisory Boards in the CCR Industry
Moderated by John L. Daniels and Patricia D. Galloway

#052 - Modeling Potential Benefits to Groundwater Resulting from Various Surface Impoundment Closure Options
Andrew Bittner, John Kondziolka

11:30 a.m.

#044 - Work Area Quantification to Guide CCR Construction Closure Programs
Dale W. Evans, Kathleen Whysner

#115 - U.S. EPA's Final CCR Rule: A Clean Closure Success Fox Lake Generating Station Interstate Power and Light Company
William Skalitzky, Douglas J. Dahlberg, Jason D. Fifarek

#263 - Panel - The Role of Advisory Boards in the CCR Industry
Moderated by John L. Daniels and Patricia D. Galloway

#201 - Evaluating Compatibility of CCR with Leachate Collection System to Insure Rule Compliance
Brian Cole, Jeff Kuhn

12:00 - 1:00 p.m.

LUNCH ON YOUR OWN

REGENCY BALLROOM 1

REGENCY BALLROOM 2

REGENCY BALLROOM 3

Landfill IV

Landfill VII

Disposal IV

#094 - Working Through Location Restrictions to Expand the Ottumwa Midland Landfill
Eric Nelson, Lindsay Motl

#101 - Cost and Compaction Optimization for TVA's KIF Ash Stacking Facility
David J. White, Pavana Vennapusa, Brendan FitzPatrick, Jason F. Hill, Nicholas McClung

#250 - We Don't Have No Stinkin' Dirt? Coal Ash Pond Closures (Traditional and an Alternative Method)
Anna Saidon

#178 - Project Considerations for Bottom Ash Conversions
John Leach

184 - Overview of Final Cover Systems for CCR Unit Closures and Major Design Considerations
Ming Zhu, Cuneyt Gokmen, Rudolph Bonaparte, John Seymour

#002 - Wet-to-Dry Conversions
Gerald Long

#208 - TVA Gallatin Environmental Integrity Program
Gabriel Lang, David Skeggs, James Ferrara, John Lesley, Ron Nash, Rachel Combs, Michael Clemmons

#095 - GCL Chemical Compatibility Testing with CCR Landfill Leachate
Jason D. Ross, Michael G. Rowland

#023 - Developing Cost Effective Strategies for Pre-Demolition Assessment at Coal Fired Power Plants
Robert Shrier

THOROUGHbred 1	THOROUGHbred 2-3	THOROUGHbred 4	THOROUGHbred 5-7
Ponds XIII	Ponds XVI	Geotech II	Groundwater & Environment VII
1:00 p.m.			
<p>#048 - CCR Microparticulates and the Trouble They Cause <i>Linxi Chen, Jacques Smith, Duane Graves, Scott Sheridan, Brian Adair, and Neil Davies</i></p>	<p># 038 - Recent Experience in In Situ Dewatering of Coal Combustion Residuals: A Practical Approach <i>Gregory M. Landry, Paul C. Schmall</i></p>	<p>#012 - Opportunities for CCR Management with Geotextile Tubes <i>Christopher Timpson</i></p>	<p>#211 - Coal Combustion Residual (CCR) Groundwater Data Evaluation: From Monitoring to the Right Remediation Path <i>Bryon Dahlgren, Douglas R. Gray</i></p>
1:30 p.m.			
<p>#085 - Environmental Risk Assessments of Coal Ash Impoundments <i>Matt Huddleston, Kathy Web</i></p>	<p>#010 - Closure of the 448-4D Ash Basins at the Savannah River Site <i>Paul R Lear, Andrew White, Tripp Winfree</i></p>	<p>#003 - Geosynthetic Reinforcement in Surface Impoundment Closures <i>John D. Herrmann, Steve Gale</i></p>	<p>#235 - Ballasted Flocculation Clarification for Ash Pond Dewatering <i>Charles McCloskey, Frank Sassaman</i></p>
2:00 p.m.			
<p>251 - Characteristics of Municipal solid waste incineration (MSWI) Fly Ash and Bottom Ash Samples <i>Thriveri. T, Ramakrishna, CH, Ahn Ji Whan</i></p>	<p>#108 - Water Treatment Options for Ash Pond Dewatering <i>Hari Parthasarathy, Brianna Wallace, Robby White</i></p>	<p>#036 - Remediation of Coal Ash Ponds with Landfill Overfills <i>Tarunjit Butalia, William Wolfe, Chin-Min Cheng, Pedro Amaya</i></p>	
2:30 p.m.			
	<p>#185 - Statistically significant exceedance - understanding false positive error <i>Arun Kamhari</i></p>	<p>#041 - Structural Considerations for In-Place Closure of CCR Impoundments <i>Don Grahlherr, Christopher Lewis</i></p>	
3:00 p.m.			
CONFERENCE ENDS			

REGENCY BALLROOM 1

REGENCY BALLROOM 2

REGENCY BALLROOM 3

Landfill V

Landfill VIII

Cement & Concrete VII

#060 - Design, Case Histories, and Specification of Geocomposite Leachate Collection Layers for Coal Ash Landfills
Aigen Zhao, Steve Mayes, Vill Betke

#093 - Mitigating Hydrogen Sulfide Issues at Coal Combustion Residuals and Municipal Solid Waste Co-disposal Sites
Jeff Marshall

#053 - Using Mercury Capture Systems with Fly Ash for Cement Manufacturing
Melissa Harrison, Christopher Poling, Thomas Lesniak

#206 - Controlled Blasting for CCP Landfill Construction
Dave Skeggs, Gabe Lang, Greg Hempen, Rachel Combs, Michael Clemmons

#209 - Instrumentation Monitoring of CCR Fills within an Active Ash Pond
Marc Bachman, Michael Wall, Gabriel Lang, David Skeggs, Nick McClung, Rachel Combs

#123 - Coal Ash Use Study for Duke Energy, North Carolina
Anne Oberlink, Tom Robl, Bob Jewell, Ken Ladwig, Maria Guimaraes, Greg Hebel, Nortey Yeboah

#195 - CCR Utility Waste Landfills: Optimization of Airspace & Technology Applications with Case Study
Jason M. Pokorny, Steven F. Putrich, Derrick A. Shelton

#129 - Effect of Moisture Conditioning and Handling on Leaching and Physical Properties of Sodium Bicarbonate Flue Gas Desulfurization Materials
Jonathan N. Hotstream, Robert Stanforth, Douglas R. Genthe, Curtis Madsen

#175 - Feasibility of Coal Ash Utilization from Pecem Power Plant Landfill in Concrete
Thays G. Araújo, Antonio Eduardo B. Cabral

#037 - Remining of Coal With Reclamation Using CCRs
Robert Baker, Tarunjit Butalia, Chin-Min Cheng

#005 - Extraction of Silica (Si) and Alumina (Al) from Coal Combustion Residues (CCR's) using Ammonium Sulphate and Citric Acid
Vidyadhar V. Gedam, Pawan Kumar Labhassetwar