

Tuesday	1	2	3	4	5
Sub Topic	Capture and Separation - Sorbents 1	Geologic - Frio Brine Field Project (1)	Public Outreach and Education	Sequestration Policy and Feasibility Studies (1)	Geologic - Monitoring, Mitigation, and Verification (1)
Session Chair(s)					
1:30	Pilot Plant Testing of Aqueous Piperazine and Potassium Carbonate for CO ₂ ; Eric Chen, Gary Rochelle, Babarunde Oyekan; Paper 129	Frio Brine Pilot Project Overview; Frio Brine Pilot Project Overview; Susan D. Hovorka, Dan Collins, Sally Benson, Larry Myer, Charles Byrer, Karen Cohen; Paper 231	Building Public Acceptance for the Regional Carbon Sequestration Partnerships; Sarah Wade, Hannes Leetaru, Judith Bradbury, Pamela Tomski, James Dobbs, Martha Krebs, 2 T.B.D.s ; Paper 41	A North American CO ₂ Storage Supply Curve: Key Findings and Implications for the Cost of CCS Deployment; RT Dahowski, JJ Dooley, CL Davidson, S Bachu, N Gupta, J Gale; Paper 11	A Survey of MM&V Technologies for Geologic Sequestration; Chuji Wang, Susan Scherrer, M. John Plodinec, and J. S. Lindner; Paper 166
1:50	Development of Na and K-Based Sorbents for CO ₂ Capture from Flue Gas; Chong Kul Ryu, Joong Beom Lee, Tae Hyoung Eom, Je Myung Oh, Chang Keun Yi; Paper 113	Subsurface Characterization of the Frio CO ₂ Brine Pilot Injection Site, Liberty County, Texas; Paper 240	Attitudes regarding CO ₂ Capture and Storage from a Swedish perspective; Anders Hansson and Mårten Bryngelsson; Paper 187	Scope for Deployment of Carbon Capture and Storage Technologies in the UK up to 2020; Jon Gibbins, Stuart Haszeldine, Sam Holloway, Jonathan Pearce, John Oakey, Simon Shackley and Carol Turley; Paper 216	Measurement, Modeling, and Analysis of CO ₂ in the Near-Surface Environment for Geologic Carbon Sequestration Verification; Jennifer L. Lewicki and Curtis M. Oldenburg; Paper 193
2:10	Energy Integrated CO ₂ Capture; L. E. Hakka, John Sarlis, Karl Stephenne; Paper 74	From Concept to Reality: A systematic management approach for field implementation of the Frio Brine Pilot Test ; Daniel J. Collins, Edward Miller, Susan D. Hovorka, Mark H. Holz, Larry R. Myer; Paper 48	Top Ten Most-Asked Questions about Carbon Sequestration and How to Answer Them; Sarah Forbes, Scott Klara, Bob Kane; Paper 223	Assessment of full carbon budget of Italy: the CarbIUS project; Dario Papale, Andrea Vannini, Piermaria Corona, Stefano Grego, Paolo Ciccioli, Simona Castaldi, Paolo De Angelis, Franco Maglietta, Markus Reichstein, Riccardo Valentini; Paper 145	Implications of soil gas survey results over known CO ₂ systems for long-term monitoring; Rick Allis, Deborah Bergfeld, Joe Moore, Kevin McClure, Craig Morgan, Tom Chidsey, Jason Heath and Brian Macpherson; Paper 131
2:30	Integrating Monoethanolamine (MEA) Regeneration with CO ₂ Compression to Reduce CO ₂ Capture Costs; Kevin S. Fisher, Majeed Jassim, Gary T. Rochelle, Carrie Beitler, Curtis Rueter, Katherine Searcy, José D. Figueroa; Paper 38	Flow Modeling for the Frio Brine Pilot; Christine Doughty, Karsten Pruess, Sally Benson ; Paper 139	Climate Change and Sequestration for Pre-Teens: Development of a Multi-Disciplinary School Curriculum; Jeremy Kranowitz, Brooke Carson, Rachel Pokrandt; Jeremy Kranowitz; Paper 233	4B Weyburn Project Seismic Monitoring of CO ₂ Injection at the IEA GHG Weyburn CO ₂ Monitoring and Storage Site: What Have We Learned; Don White, Keith Hirsche, Tom Davis, and Shawn Maxwell; Paper 163	Surface Environmental Monitoring At the Frio CO ₂ Sequestration Test Site, Texas; H. S. Nance, Henry Rauch, Brian Strazisar, Grant Bromhal, National Energy Technology Laboratory, Art Wells, Rod Diehl, Ron Klusman, Jennifer Lewicki, Curt Oldenburg, Yousif K. Kharaka, Evangelos Kakouros; Paper 95
2:50	Temperature effect on the capture of carbon dioxide by immobilized amine sorbents; M. L. Gray, D. J. Fauth, Y. Soong, K. J. Champagne, H. Pennline, J. P. Baltrus, T. Filburn; Paper 239	Integrated work for measuring, monitoring, and verifying CO ₂ distribution; Shinichi Sakurai, Nadja Mueller, T. S. Ramakrishnan, Austin Boyd, Tom Daley, Mike Hoversten; Paper 21	The "Stabilization Wedge" Game: A Tool for Communicating the Scale of the Greenhouse Gas Problem; Roberta Hotinski, Sarah Wade; Paper 134	A Mechanical Earth Model for the Weyburn CO ₂ Monitoring and Storage Project and its Relevance to Long-Term Performance Assessment; Rick Chalaturnyk, Jaime Jimenez and Steve Whittaker; Paper 236	Use of Gas Phase Tracers for Monitoring CO ₂ Injection at the Frio Test Site; Karsten Pruess, Barry Freifeld, Mack Kennedy, Curt Oldenburg, Tommy J. Phelps and M.C. van Soest; Paper 152
3:10	CO ₂ Capture: Enzyme vs. Amine; Michael C. Trachtenberg, Lihong Bao; Paper 128	Pressure Transient Data Collection and Analysis from the Frio Brine Pilot; Sally M. Benson, Christine Doughty, Karsten Pruess; Paper 3		Prediction of CO ₂ Distribution and Storage Performance in Weyburn EOR Patterns with Different CO ₂ Injection Strategies; David H.-S. Law, David L. Cuthiell and Mafiz Uddin; 161	
3:30	C O F F E E B R E A K				

Tuesday	6	7	8	9	10A
Subtopic	Capture and Separation - Oxyfuel Combustion	Geologic - Frio Brine Field Project (2)	Geologic Sequestration (1)	Sequestration Policy and Feasibility Studies (2)	Regulatory Analysis
Session Chair(s)					
4:00	Decarbonized Electricity Production from Coal by Means of Oxygen Transport Membranes; M. Romano, S. Napoletano, P. Chiesa and S. Consonni ; Paper 188	Geochemistry of Water and Gases in the Frio Brine Pilot Test: Baseline Data and Changes During and Post CO2 Injection; Yousif K. Kharaka, David R. Cole, William D. Gunter, Kevin G. Knauss, Seay Nance; Paper 79	CO2 Sequestration Capacity Classification; Scott M. Frailey and Robert J. Finley; Paper 64	Carbon, Hydrogen and Energy Flow Chart: Insights and Implications for the US in 2050; Gene Berry, John Ziagos and Julio Friedmann; Paper 55	Regulatory Aspects of Deep (Geological) CO2 Storage; M. Stenhouse, J. Gale, M. Wilson and H. Herzog; Paper 175
4:20	CO2 Compression Units for Oxy-Fuel Combustion; Kourosh E. Zanganeh, Ahmed Shafeen, Carlos Salvador, Murlidhar Gupta, and Bill Pearson; Paper 228	Comparison of Single and Multiphase Tracer Test Results from the Frio CO2 Pilot Study, Dayton, Texas; Robert Trautz, Barry Freifeld, and Christine Doughty; Paper 135	Models for Environmentally Sound and Economically Viable Carbon Dioxide Sequestration Opportunities; Timothy R. Carr, Alan P. Byrnes, Martin K. Dubois, Scott W. White and Richard G. Nelson; Paper 57 (1)	Policy Implications from Regional Energy Growth; David Shropshire, Susan Capalbo; Paper 19	Regulatory Considerations for Geologic Sequestration of Carbon Dioxide; Michel J. Paque, John A. Veil, Paul Jehn, and Ben Grunewald, Robert F. Van Voorhees; Paper 210
4:40	Performance Simulation and Cost Assessment of Oxy-Combustion Process for CO2 Capture from Coal-Fired Power Plants; Rajani K Varagani, Fabienne Châtel-Pélage, Pavol Pranda, Hamid Farzan, Stanley J. Vecchi, Massoud Rostam-Abadi, Yongqi Lu, Arun C. Bose; Paper 5	Monitoring Geologically Sequestered CO2 during the Frio Brine Pilot Test using Perfluorocarbon Tracers; Scott D. McCallum Tommy J. Phelps, David E. Riestenberg, Dave R. Cole, Barry M. Freifeld, Robert C. Trautz, Susan D. Hovorka; Paper 43	Volumetric Equations for CO2 Storage in Coalbeds, Oil and Gas Reservoirs, and Saline Formations; Andrew Anderson, Scott M. Frailey, Hannes Leetaru and Akanni Lawal; Paper 62	"Wedge" analysis of stabilization scenario based on SRES ; Jeffery B. Greenblatt, Robert H. Socolow, Keywan Riahi ; Paper 126	Review of Existing Injection Well Permit Regulations and Expectations of Future Geologic Sequestration CO2 Regulations with Monitoring Conditions ; Philip W. Papadeas, Daniel J. Collins, Susan D. Hovorka, Mark H Holz, Paul Knox ; Paper 33
5:00	The Potential for Clean Energy Production Using Oxy-Fuel Combustion and Integrated Pollutant Removal; Thomas Ochs, Danylo Oryshchyn, Thomas Weber, Cathy Summers; Paper 26	Preliminary Reactive Transport Modeling and Laboratory Experiments Conducted in Support of the Frio Pilot Test; Kevin G. Knauss , James W. Johnson, Yousif K. Kharaka; Paper 27	Reservoir Selection for Optimised Geological Injection and Storage of Carbon Dioxide: A Combined Geochemical and Stratigraphic Perspective; Maxwell N. Watson and Catherine M. Gibson-Poole; Paper 110	The Electricity Supply Wedge: A Strategic Plan to Reduce the Carbon Dioxide Intensity of Power Generation in the United States; Phil DiPietro, Vello Kuuskraa, Jason Hummel; Paper 52	10B Advanced Concepts - Biomass Offsets Carbon sequestration from coal and propane combustion gases at industrial scale using microalgae; M Olaiola, S Flores, T Nakamura; Paper 17
5:20	Improvement of NI Based Oxygen Carriers for Chemical Looping Combustion; Juan Adánez, F. García Labiano, P. Gayán, J. Celaya, A. Abad ; Paper 138	Monitoring CO2 saturation using Pulsed Neutron Capture Method; N. Mueller, T. S. Ramakrishnan and A. Boyd, S. Sakurai; Paper 22	An Assessment of the Geologic Storage Capacity of California Sedimentary Basins; Larry Myer, Sally Benson, John Clinkenbeard, Cameron Downey, Howard Herzog ; 123	Carbon Accounting Rules and Guidelines for the United States Forest Sector; Richard A. Birdsey; Paper 87	Co-Firing Biomass Fuels with Coal and the Potential Impact on Terrestrial Sequestration; John Kadyszewski, Aaron Dushku, Nick Martin, Tim Pearson, and Sandra Brown; Paper 225
5:40	Advanced Oxy-fuel Boilers for Cost-Effective CO2 Capture; G. Maxwell Christie, Bart van Hassel, Juan Li and Leonard Switzer; Paper 215	Time-Lapse Monitoring of CO2 Injection with Vertical Seismic Profiles (VSP) at the Frio Project; T.M. Daley*, L.R. Myer, G.M. Hoversten, E.L. Majer; Paper 61	The Development of a Performance Assessment Framework for Geologic CO2 Sequestration; H.S. Viswanathan, G. Guthrie, R. Pawar, P.H. Stauffer, S. Chipera, P.C. Lichtner, J.W. Carey ; Paper 130	Sequestered Carbon: a Thermodynamic-Based Policy Proposal; Jonathan E. Schrag, Klaus S. Lackner; Paper 105	Biomass with Carbon Capture; Eric D. Larson, Haiming Jin Robert H. Williams, Fuat E. Celik; Paper 80
6:00	A comparison of Oxygen Supply Systems for Combustion Applications; Bart VanHassel, Juan Li, John Sirman; Paper 243	Lessons Learned and Questions Restated as a Result of the Frio Brine Pilot ; Susan D. Hovorka, Sally Benson, Larry Myer; Paper 230		Alternative Approaches to Reducing Petroleum Use and CO2 Emissions By Means of a Hydrogen Economy: Technology and Economic Modeling and Scenario Analysis; Peter Balash, Donald Hanson, John Ruether, David Schmalzer, John Molburg, Dale Keairns, Kenneth Kern, Kathy Stirling, John Marano, Jeffrey Price and Robert Vagnetti; Paper 181	Gasification-Based Liquid Fuels and Electricity from Cost-Competitive, Low-GHG-Emitting Synthetic Liquid Fuels via Coordinated Energy Production with CO2 Capture and Storage from Coal and Biomass; Robert H. Williams; Paper 77

Wednesday	11	12	13	14	15
Subtopic	Capture and Separation - Sorbents 2	Geologic - Risk Assessment Issues	Geologic Sequestration (2)	Capture - Membranes	Terrestrial - Science, Technology, and Economics
Session Chair(s)					
10:30	CO2 capture by anti-sublimation Thermo-economic process evaluation; D. Clodic, R. El Hitti, M. Younes, Alain Bill & François Casier; Paper 24	Potential for gas leakage along fracture conduits within the proposed national CO2 Storage Test Site, Teapot Dome (NPR-3), Wyoming; Sean T. Brennan, Kristin Dennen, Robert C. Burruss; Paper 107	Enhanced isolation performance of geologic CO2 storage sites through mineral trapping; Experimental and field assessment of model predictions; James W. Johnson*, Kevin G. Knauss, S. Julio Friedmann, Scott H. Stevens; Paper 9	Membrane-based hybrid process to capture CO2 from warm flue gas; Yingjie Qin, Yong Pu, Huifang Fan, P. Kosaraju, G. Obuskovic, & K. K. Sirkar; Paper 142	West Coast Partnership: Opportunities for Reducing Emissions by Managing Forest Fuel Loads ; John Kadoszewski, Aaron Dushku, Sandra Brown, Sean Grimland, and Tim Pearson; Paper 224
10:50	Dry Regenerable Carbonate Sorbents for Capture of Carbon Dioxide from Flue Gas; David Coker, David A. Green, Raghubir P. Gupta, Thomas O. Nelson, Jeffrey W. Portzer, José D. Figueroa; Paper 67	HSE Screening Risk Assessment for Geologic CO2 Storage Sites; Curtis M. Oldenburg; Paper Paper 96	Design of a CO2Geological Sequestration Pilot Project in Basalt Formations of North Western India; Balesh Kumar, K. Prasad Saripalli, and Prasad Saripalli, Ph. D., P.E; Paper 220	Combined Power Generation and Carbon Sequestration Using Direct FuelCell ; Hossein Ghezel-Ayagh, Robert Sanderson, Dilip Patel, and Mohammad Farooque; Paper 173	Methods to Simulate Terrestrial Carbon Sequestration Activities: from Process Models to Economics; Ronald D. Sands, Cesar Izaurralde, Bruce A. McCarl; Paper 25
11:10	Novel Lithium Silicate-based Sorbents for High Temperature Carbon Dioxide Removal; Weijiong Li, Brian S. Turk, Santosh K. Gangwal, Thomas O. Nelson, Raghubir P. Gupta; Paper 51	The impact of a well bore failure during CO2 sequestration operation ; Rajesh Pawar, Hans Ziock, and George Zyvoloski; Paper 212	Comparison of Ion Transport Membranes; Kirsten Foy, Jim McGovern; Paper 111	Elaboration of Zero Emissions Membrane Piston Engine System (ZEMPES) for Propane Fuelling; Shokotov M., McGovern J., Bolton, Shokotov V., Foy K., Yantovski E.; Paper 109	Opportunities and Challenges of Sequestering Carbon in the Terrestrial Ecosystems of the Midwestern Region; R. Lal, L. Biehl, S. Duiker, P. Grace, W. McFee, B. Needleman, X. Niu, P. Robertson, M. Sperow, Z. Tan; Paper 60
11:30	Enzymatically Driven, Cost-Efficient, Capture of Flue Gas CO2; Michael C. Trachtenberg, Lihong Bao, David A. Smith, Stefanie L. Goldman, Xioqiu Wu; Paper 127	Degradation of Well Cements Exposed to Carbonated Brine; Andrew Duguid, Mileva Radonjic and George Scherer; Paper 186	Geochemical effects of CO2 sequestration in sandstones under simulated in-situ conditions; Marcus Wigand, Hartmut Schütt, Erik Spangenberg; Paper 121	Design and Evaluation of Ionic Liquids as Novel CO2 Absorbents for Sequestration; Edward J. Maginn, Joan F. Brennecke, JaNeille K. Dixon, Jessica L. Anderson and Haizhong Zhang; Paper 209	Terrestrial carbon pools in southeast and south-central United States: State level inventories, potentials, and economic impacts ; Fengxiang X. Han, M. John Plodinec, Yi Su, and David L. Monts ; Paper 153
11:50	CO2 Capture Utilizing Solid Sorbents; Ranjani Siriwardane and Edward Fisher; Paper 192	Mitigation strategies for the risk of CO2 migration through wellbores ; V. Barlet, TS Ramakrishnan, B. Goffé, K. Bennaceur, M. Supp, and E. Nelson; Paper 151	Tests of In-Situ CO2-Water-Rock Reactions During Carbon Dioxide Injections in Basaltic Rocks: Toward permanent sequestration of CO2; Juerg M Matter, David S Goldberg, Taro Takahashi; Paper 91	Novel Polymeric-Metallic Composite Membranes for CO2 Separations at Elevated Temperatures; K.A. Berchtold, J.S. Young, A.R. Greenberg, V. Khare, E.S. Peterson, J.R. Klaehn, J. Acquaviva, F. Onorato, S.D. Hopkins; Paper 116	Enhancing Soil Humification: Laboratory Studies with a Model System; JE Amonette, J Kim, CT Garten, Jr., CC Trettin, RS Arvidson, and A Lutge; Paper 219
12:10	Feasibility Test for CO2 Capture by Dry sorbents in Two Fluidized Bed Reactors; Chang Keun Yi, S.H. Jo, Y.W. Seo, S.D. Park, K.H. Moon, J.S. Yoo, J.B. Lee, C.K. Ryu; Paper 103	Modeling Critical Leakage Pathways in a Risk Assessment Framework: Representation of Abandoned Wells; M.A. Celia, S. Bachu, J. Nordbotten3, D. Kavetski, S. Gasda; Paper 115	Mineral Trapping of CO2 with H2S and SO2 in Sandstone-Shale Formation; Tianfu Xu, John A. Apps, Karsten Pruess, and Hajime Yamamoto; Paper 118	New Soluble N-Substituted Polybenzimidazoles by Post-Polymerization Modification ; John R. Klaehn, Thomas A. Luther, Christopher J. Orme, Michael G. Jones, Alan K. Wertsching, and Eric S. Peterson, Jennifer S. Young, Kathryn A. Berchtold, Alan R. Greenberg, Vivek Khare, Jim Acquaviva, Frank Onorato, Scott Hopkins, and Pall Corporation; Paper 199	In Field Soil Carbon Determination Using A Noninvasive INS Method In Comparison With Conventional Soil Cores And Excavations; Lucian Wielopolski, Sudeep Mitra, George Hendrey, Ram Oren, and Kurt Johnsen; Paper 56
12:30	LUNCH				

Wednesday	16	17	18	19	20
Subtopic	Capture - Feasibility Studies	Geologic Sequestration (3)	Advanced Conversion/Capture Concepts	Geologic - Coal Seams (1)	Geologic - Monitoring, Mitigation, and Verification (2)
Session Chair(s)					
1:30	A new 'capture ready' power plant project in Saskatchewan; Max Ball, Bob Stobbs, Larry Ward, Jon Gibbins and Malcolm Wilson ; Paper 218	Deep Saline Reservoirs as a Carbon Sequestration Target in the Illinois Basin; H. E. Leetaru, S. C. Rittenhouse, S. M. Frailey, D. A. Keefer, D. G. Morse, R. J. Finley and J. H. McBride; Paper 178	Exploring the Potential to Enhance Aqueous Olivine Carbonation Reactivity, while Avoiding the Cost of Mineral Pretreatment Activation ; Michael J. McKelvy, Andrew V.G. Chizmeshya, Kyle Squires, Kringan Saha, Hamdallah Béarat, Firas Alawneh, R.W. Carpenter, and Youngchul Kim ; Paper 83	Opportunities and Constraints on Carbon Dioxide Sequestration and Enhanced Coalbed Methane Recovery in coal in British Columbia ; Barry Ryan, Dave Richardson, and Dave Hughes; Paper 182	Feasibility of seismic monitoring of CO2 sequestration in the deep formations in the Ohio River Valley Region; Haibin Xu, Ben Flack, Richard Salter, and Randal Utech, Neeraj Gupta, T.S.Ramakrishnan and Austin Boyd; Paper 133
1:50	Systems Analysis of a Carbonate/Bicarbonate Cycle for CO2 Capture from a PC Power Plant; Jared Ciferno, Phil DiPietro, and Tom Tarka; Paper 180	Reactive transport modeling using Toughreact of the long term CO2 storage at Sleipner, North Sea; P. Audigane, I. Gaus, K. Pruess , T. Xu; Paper 101	Accelerated cation release during non-steady state dissolution of Mg-silicates: Implications for mine tailings and sequestration of CO2 ; James Thom, Greg Dipple; Paper 29	Geologic CO2 Sequestration Potential of Coal deposits in the Northern Great Plains; Dr. Charles R. Nelson; Paper 49	Instrumentation of Deep Monitoring Well at the Penn West CO2-EOR Pilot; Rick Chalaturnyk, Gord Wichert, Bill Gunter, Don Lawton and Stefan Bachu; Paper 222
2:10	Conceptual Design of a Fossil Hydrogen Infrastructure with Capture and Sequestration of Carbon Dioxide: Case Study in Ohio; Joan Ogden, Ph.D., Nils Johnson, Christopher Yang, Jason Ni, José Figueroa; Paper 31	Uncertainty in carbon dioxide sequestration capacity estimates in saline aquifers using geochemical models; Douglas E Allen, Brian Strazisar, Yee Soong, Sheila Hedges, Bob Dilmore, PJ Pique; Paper 76	CO2 Mineralization Using Calcium Silicate Technology; Yixin Shao*, Sean Monkman and Arthur Zhou; Paper 4	The Coal-Seq II Consortium: Advancing the Science of CO2 Sequestration in Deep, Unmineable Coalseams; Scott R. Reeves; Paper 82	Time-Lapse Crosswell EM and Seismic Imaging of a CO2 Plume; M. Wilt, J. Little, P Zhang Schlumberger, T Daly, L Myer, M Hoversten, K Dodds, D Sherlock; Paper 120
2:30	A Zero-Emission Multi-Fuel Power Plant Demonstration Facility With Carbon Capture and Sequestration Capabilities; R. Anderson, S. Doyle, B. Griffin, K. Pronske, and F. Viteri; Paper 172	Microbially Enhanced Geologic Sequestration of Supercritical CO2; A. B. Cunningham, R. Gerlach, A. Phillips, and L. Spangler; Paper 150	Carbon Dioxide Sequestration in Cement Kiln Dust; Deborah N. Beach, John S. Gierke, and Jennifer Numrich; Paper 99	History Matching of the Allison Unit CO2-ECBM Pilot and Albert Flue Gas Injection Micro-Pilot Test: Validation and Application of a Dynamic Permeability Model; Julio Friedmann and James J. Dooley; Paper 191	Joint inversion of crosswell seismic and EM data for CO2 saturation; G. M. Hoversten, T Daly, L. Myer, M. Wilt, J. Little, P Zhang, K Dodds, D Sherlock; Paper 73
2:50	Summary of Phase I Capture and Separation Activities of the Regional Carbon Sequestration Partnerships Program; José Figueroa, Neeraj Gupta, Dennis Leppin, Mark Musich, John Plodinec, Massoud Rostam-Abadi, John Ruby, David Shropshire ; Paper 104	Effective Use of Brines for Biomimetic CO2 Sequestration; G M Bond, S Date, N Liu, Teri Dunn, T Villanova, C Hockensmith, J Stringer, B J McPherson ; Paper 86	Sequestration of CO2 in Combustion Byproduct-Augmented Brine Solutions; R. M. Dilmore, Y. Soong, S. W. Hedges, and P.J. Pique; Paper 185		Application of Multi-Component Deformation Monitoring to CO2 Sequestration; Eric Davis, Jing Du , Scott Marsic, William Roadarmel; Paper 122
3:10	Alstom's Development of Advanced CFB Based CO2 Mitigation Technologies ; David G. Turek, Gregory N. Liljedahl, Nsakala ya Nsakala, and Herbert E. Andrus; Paper 208	"CASTOR" - CO2 from Capture to Storage - An innovative European Integrated Project; P. Le Thiez, T.A. Torp, P. Feron, P. Zweigel, E. Lindeberg; Paper 204	Material Resource Considerations for Ex Situ Carbon Sequestration; S. J. Gerdemann, D. C. Dahlin, W. K. O'Connor, L. R. Penner, and H. Rush; Paper 125		Integration of Numerical Simulation Results and Seismic Observations of a Field CO2 Injection Test; Rajesh Pawar, Robert Benson, and Bruce Stubbs; Paper 213
3:30	COFFEE BREAK				

Wednesday	21	22	23	24	25
Subtopic	Geologic - Coal Seams (2)	Sequestration Policy and Feasibility Studies (3)	Geologic Sequestration (4)	Geologic - Monitoring, Mitigation, and Verification (3)	Ocean Sequestration
Session Chair(s)					
4:00	Effects of Gas-Induced Shrinkage and Swelling on Economics for Sequestration of CO ₂ in Coal Seams; Grant S. Bromhal, F. Burcu Gorucu, Sinisha Jikich, W. Neal Sams, Turgay Ertekin, Duane H. Smith; Paper 90	Identifying Cost-Effective CO ₂ Control Levels for Coal-Fired Power Plant; Anand B. Rao, Chao Chen and Edward S. Rubin; Paper 137	The In Salah CO ₂ Storage Assurance Project: Report on Year 1; Mohammed Keddam, Pal Ingsoy, Iain Wright; Paper 112	Numerical analysis of plume evolution patterns using two different equations in a CO ₂ Pilot injection test area ; Weon Shik Han, Brian J.O.L. McPherson, Rajesh Pawar, Jason Heath ; Paper 20	Progress In Carrying Out Ocean CO ₂ Perturbation Experiments; Peter G. Brewer, Edward T. Peltzer; Paper 238
4:20	Heterogeneous Permeability in Appalachian Coal: Implications for Carbon Sequestration and Enhanced Coalbed Methane Recovery; Jack C. Pashin, Richard E. Carroll, J. Matthew Conrad, Michael J. Miller, Michael T. Karmis, Nino Ripepi ; Paper 132	Regional Differences in CO ₂ Capture and Storage Potential and Economics: an Integrated Modeling Analysis of CO ₂ Sources and Reservoirs for three Key Electric Power Regions; MA Wise, RT Dahowski, JJ Dooley, CL Davidson; Paper 45	CO ₂ Capture Project – Phase 2: Breaking the technology mold; Gardiner Hill & Linda Curran; Paper 78	PFLOTTRAN: Massively Parallel 3-D Simulator for CO ₂ Sequestration in Geologic Media; Chuan Lu and Peter Lichtner; Paper 40	Mass Transfer from CO ₂ Drops and the Apparent Solubility of CO ₂ under Deep-Ocean Conditions; Yi Zhanga, Ronald J. Lynn, Gerald D. Holderc and Robert P. Warzinskib; Paper 190
4:40	Rearrangement of Argonne Premium Coals After Exposure to CO ₂ ; John. W. Larsen, Angela L. Goodmanb, Ryan N. Favors and Megan M. Hild ; Paper 184	Models of CO ₂ Transport and Storage Costs and Their Importance in CCS Cost Estimates; Sean T. McCoy and Edward S. Rubin; Paper 92	Analysis of In-Situ Stress Regime in the Alberta Basin, Canada, for Performance Assessment of CO ₂ Geological Sequestration Sites ; Christopher D. Hawkes, Stefan Bachu, Kristine Haug, and Osman H. Ahmed; Paper 202	Assessment of Potential Well Leakage in the Weyburn Site Using a Stochastic Approach; W. Zhou, M. Stenhouse, and R. Arthur; Paper 53	Numerical Simulation of Mortality of Zooplankton Caused by Direct Injection of Carbon Dioxide in the Ocean; Toru Sato, Yuji Watanabe and Koji Toyota; Paper 198
5:00	Measurement and Modeling of Sorption-Induced Coal Strain; Eric P. Robertson and Richard Christiansen; Paper 196	Coupling CO ₂ Capture and Storage with Coal Gasification: Defining “Sequestration-Ready” IGCC; Jennie C. Stephens; Paper 144	Impact of Flowing Formation Water on Residual CO ₂ Saturations in Deep Aquifers; P.H.Stauffer, R. Pawar, H.S. Viswanathan; Paper 84	Analysis of 30-year CO ₂ -Brine interaction with a West Texas oil well completion; J. William Carey, Scott Wehner, Michael Hirl, Michael Raines, Rajesh Pawar George Guthrie Jr.; Paper 241	CO ₂ -in-Water Globulsion Stabilized by Pulverized Limestone for Benign Ocean Storage; D. Golomb, E. Barry, D. Ryan, C. Lawton, P. Swett, R. Warzinski, R. Lynn; Paper 206
5:20	Laboratory Investigation of Coalbed Methane Recovery by Gas Injection; G.-Q. Tang, W. Lin, and A. R. Kovscek; Paper 179	CO ₂ for Enhanced Oil Recovery Needs Enhanced Incentives; J. Michael Austell, Michael E. Moore,Dr. Carl-W Hustad; Paper 72	Carbon Dioxide Sequestration in Saline Aquifers: Evaporation, Precipitation and Compressibility Effects; Mohammad Piri, Jean H. Prevost, and Richard Fuller; Paper 149	Frio (3)	Optimum CO ₂ sequestration using Ocean Nourishment; Ian S F Jones and Mohammednoor Altarawneh; Paper 235
5:40		National Gasification Strategy for Energy Independence & Carbon Progress; William G. Rosenberg and Michael R. Walker; Paper 200	Numerical Simulations of CO ₂ Injection in the Altmark Natural Gas Field, Germany; D. Rebscher, F. May, C.M. Oldenburg, Bundesanstalt für Geowissenschaften und Rohstoffe (BGR); Paper 35		Field Studies of CO ₂ /Water Coflow Injection for Ocean Carbon Sequestration; Costas Tsouris, David Riestenberg, Peter Brewer, Edward Peltzer, Peter Walz, Aaron Chow, Eric Adams; Paper 1
6:00		Technological options for CO ₂ capture in India; R.R.Sonde ; Paper 171			Simulation of Sinking CO ₂ Hydrate Composite Plumes; Eric Adams, Aaron Chow , Costas Tsouris; Paper 108