— FOURTH ANNUAL CONFERENCE ON CARBON CAPTURE & SEQUESTRATION— AGENDA

Monday, May 2, 2005

12:00 REGISTRATION OPENS

3:00 EXHIBITS OPEN

- 6:00 OPENING COCKTAIL RECEPTION IN EXHIBIT AREA
- 7:00 OPENING CONFERENCE WELCOME DINNER Host: EM Publication & Forums

Tuesday, May 3, 2005

7:00 **CONTINENTAL BREAKFAST** *Host: EM Publications & Forums*

8:00 OPENING KEYNOTE PLENARY

WELCOME REMARKS

Scott Klara, Chair Conference Steering Committee Deputy Director, Off. of Coal & Power R&D National Energy Technology Laboratory U. S. Dept. of Energy

Carl Bauer, (Acting) Director U.S. DOE NETL

8:05 KEYNOTE ADDRESS

MODERATOR: Carl Bauer, (Acting) Director U.S. DOE NETL

Mark Maddox, Prin. Dep. Asst. Secy. U.S. DOE Fossil Energy

OPEN DISCUSSION

8:45 Moving to Utilize Carbon Capture/Sequestration Technologies—A Path Forward to Reduce CO₂ Emissions

> *BP C0*₂ *Capture and Geological Storage Technology Programme: from Science to Field Application*

Gardiner Hill, Grp. Technology Mgr., Environmental Technology BP

Climate Initiative and CO₂ Sequestration - A Schlumberger Perspective

T.S. Ramakrishnan, Science Advisor, CO_2 Sequestration Research, Schlumberger-Doll Research

OPEN DISCUSSION

9:15 Where We Are Today, What We Have Learned Thus Far, What Remains to Be Done to Further Facilitate the Deployment of Carbon Capture, Transmission and Sequestration Technologies

MODERATOR: Scott Klara,

U.S. DOE NETL

Bill Reynen, Co-Chair Carbon Sequestration Leadership Forum; CANMET Energy Technology Cenre, Ottawa, Canada

OPEN DISCUSSION

9:40 What Is Needed to Facilitate Commercial Deployment of Carbon Capture, Transmission and Sequestration Technologies

> Harry Audus, General Manager Intl Energy Agency Greenhouse Gas R&D Programme; IEA Environ. Projects LTD

David Hawkins, Director Air & Energy Programs Natural Resource Defense Council

OPEN DISCUSSION

10:25 COFFEE BREAK Host: EM Publications & Forums

10:45 Assessment of the State of Development of Carbon Sequestration Technologies in North of America

MODERATOR: **Sean Plasynski** Sequestration Tech. Manager U.S. DOE NETL

Terrestrial Sequestration

G. Phillip Robertson, Professor Dept. of Crop & Soil Sciences W.K. Kellogg Biological Station Michigan State University

OPEN DISCUSSION

Geological Sequestration

Sally M. Benson, Head CO2 Capture and Storage Prog. Earth Science Division Lawrence Berkeley National Lab.

OPEN DISCUSSION

Capture Technology

Dr. Massoud Rostam-Abadi, Head Energy & Environ. Engineering Sect. Illinois State Geological Survey MW Geol. Sequestration Consortium

OPEN DISCUSSION

Mineralization

Richard P. Walters, Assoc. Dir. U.S. DOE Albany Research Ctr.

OPEN DISCUSSION

11:50 What Has Been Learned, What Is the Future Direction of Selected North American Carbon Emission Reduction

Projects Utilizing Carbon Capture and Sequestration

MODERATOR: Melissa Miller, Los Alamos National Laboratory

The Weyburn Project

Mike Monea, Executive Director Petroleum Technology Research Centre

The Frio Project

Susan Hovorka, Research Scientist Bureau of Economic Geology University of Texas at Austin

OPEN DISCUSSION

12:30 LUNCH Host: EM Publications & Forums

> **POSTER GROUP I SESSION A** (Open for Browsing: Paper Authors Not Required to Be Present)

1:30 TECHNICAL SESSIONS

Capture and Separation - Sorbents (1)

Geologic - Frio Brine Field Project (1)

Public Outreach and Education

Sequest. Policy & Feasibility Studies (1)

Geologic - Monitoring, Mitigation and Verification (1)

- 2:30 Weyburn Project
- 3:30 **COFFEE BREAK** Host: EM Publications & Forums
- 4:00 TECHNICAL SESSIONS

Capture and Separation - Oxyfuel Combustion

Geologic - Frio Brine Field Project (2)

Geologic Sequestration (1)

Sequest. Policy & Feasibility Studies (2)

Regulatory Analysis

5:00 Advanced Concepts - Biomass Offsets

6:20 TECHNICAL SESSIONS END

- 6:20 **POSTER GROUP I SESSION B** (Paper Authors Required to be Present)
- 6:30 **COCKTAIL RECEPTION** Host: EM Publications & Forums

— FOURTH ANNUAL CONFERENCE ON CARBON CAPTURE & SEQUESTRATION—

Wednesday, May 4, 2005		9:25	Update on the Upcoming Intergovernmental Panel on Climate Change Report on Carbon Capture and	POST	POSTER GROUP II SESSION A (Open for Browsing: Paper Authors Not Required to Be Present)		
7:00	CONTINENTAL BREAKFAST	Sequestration			-		
	Host: EM Publications & Forums			1:30	TECHNICAL SESSIONS		
8:00	The Growing U.S. Global Partnership		Heleen de Coninck,		Capture - Feasibility Studies		
0.00	to Pursue and Support Development & Deployment of Carbon Capture,	IPCC Working Group III Technical Support Unit, Energy Research Centre of the Netherlands			Geologic Sequestration (3)		
	Transmission & Sequestration				Advanced Conversion/Capture Concepts		
	Technologies as a Step Toward a Hydrogen Economy	0	PEN DISCUSSION		Geologic - Coal Seams (1)		
	MODERATOR: Edward L. Helminski	0	I EN DISCUSSION		Terrestrial - Science, Technology & Economics (2)		
	Conference Coordinator President, EM Publications & Forums	9:35	Proposed U.S. Guidelines for Voluntary Reporting of Greenhouse Gas Emissions and Emission Reductions & their Possible Use in Carbon Trading Markets		Geologic - Monitoring, Mitigation and Verification (2)		
	John F. Turner, Asst. Secretary Bureau of Oceans and International		ese in curson rrunnig frankets	3:30	COFFEE BREAK		
	Environmental and Scientific Affairs U.S. State Department	МО	DERATOR: Iain Wright, C0, Project	3.30	Host: EM Publications & Forums		
			hager, BP Technology Group				
	OPEN DISCUSSION	SION Off. of		3:40	TECHNICAL SESSIONS		
	OPEN DISCUSSION		Off. of Policy & Int'l Affairs U.S. DOE		Geologic - Coal Seams (2)		
8:30	Overview/Status Report on Carbon		William Hohenstein , Director Global Change Program Office		Sequestration Policy and Feasibility Studies (3)		
	Capture, Sequestration R&D & Deployment in Canada		U.S. Dept. of Agriculture		Geologic Sequestration (4)		
	Graham R. Campbell Director General, Office of Energy	0	PEN DISCUSSION		Geologic - Monitoring, Mitigation and Verification (3)		
	Research & Development, Natural Resources Canada	10:15	COFFEE BREAK Host: EM Publications & Forums		Ocean Sequestration		
(OPEN DISCUSSION			5:00	Geologic - Frio Brine (3)		
		10:30 TECHNICAL SESSIONS					
9:00	Legal Issues That Need to Addressed to Facilitate Deployment of Carbon Capture,		Capture and Separation - Sorbents (2)	6:20	TECHNICAL SESSIONS END		
	Transmission and Sequestration Technologies Jolyon Thomson	Geologic - Risk Assessment Issues	6:20	POSTER GROUP II SESSION B (Paper Authors Required to be Present)			
			Geologic Sequestration (2)				
		Capture - Membranes		6:30	COCKTAIL RECEPTION		
	United Kingdom		Terrestrial - Science, Technology & Economics	0.50	Host: EM Publications & Forums		
(OPEN DISCUSSION	12:30	LUNCH Host: EM Publications & Forums				

- FOURTH ANNUAL CONFERENCE ON CARBON CAPTURE & SEQUESTRATION-

Thursday, May 5, 2005

7:00 **CONTINENTAL BREAKFAST** *Host: EM Publications & Forums*

8:00 **OPENING PLENARY ADDRESS**

Working to Develop a Publicly Acceptable Regulatory Framework to Facilitate the Deployment of Carbon Capture, Transmission and Sequestration Technologies

MODERATOR: **Robert Finley**, Center Dir. Illinois State Geological Survey

Jeff Holmstead, Asst. Administrator Office of Air and Radiation U.S. Environmental Protection Agency

OPEN DISCUSSION

8:30 **REGIONAL PARTNERSHIPS**

The Regional Partnerships—Identifying the Most Promising Regional Carbon Sequestration Deployment Opportunities through Private and Public Partnerships

LEAD SPEAKER/MODERATOR:

John T. Litynski, Project Director Regional Carbon Sequestration Partnerships, U.S. DOE NETL

Dr. Robert J. Finley, Center Dir. Illinois State Geological Survey MW Geological Sequestration Consortium

Dr. Gerald R. Hill, Technical Advisor Southern States Energy Board SE Reg. Carbon Sequestration Partnership

Edward Steadman, Sr. Research Advisor; Energy & Env.; Research Ctr. Plains CO2 Reduction Partnership

Dr. Susan M. Capalbo, Dir. Spec. Projs.; Montana State Univ.-Bozeman Big Sky Regional Carbon Sequestration Partnership

Dr. Brian J. McPherson, NM Institute of Mining & Technology Southwest Regional Partnership on Carbon Sequestration

Dr. Larry Myer, Technical Director California Energy Commission West Coast Regional Carbon Sequestration Partnership

David A. Ball, Manager, Battelle; MW Reg. Carbon Sequestration Partnership 10:00 COFFEE BREAK

Host: EM Publications & Forums

10:15 An Assessment of Current and Potential Regulations Governing the Employment of Carbon Capture, Transmission and Sequestration Technologies

MODERATOR: **Scott Reeves**, Executive Vice President, Advanced Resources Int'l.

Larry Bengal, Director Arkansas Oil and Gas Commission; Chair, Interstate, Oil and Gas Commission Carbon Sequestration Task Force

Bruce Kobelski, Team Leader Underground Injection Control Office of Water, U.S. EPA

(An EPA Regional Representative)

OPEN DISCUSSION

11:00 An Overview of the U.S. DOE Programs and Priorities

> MODERATOR: Edward L. Helminski, President, EM Publications & Forums

Carbon Capture & Sequestration R&D Supported by the DOE Office of Science FY05/FY06

Nick Woodward, Geosciences Res. Prog., U.S. DOE Office of Science

OPEN DISCUSSION

The DOE/NETL Comprehensive FY05/FY06 Program to Support the Development and Deployment of Carbon Capture. Transmission& Sequestration Technologies

Scott Klara, Chair Conference Steering Committee Deputy Director, Office of Coal & Power R&D U.S. DOE-NETL

OPEN DISCUSSION

12:00 CLOSING REMARKS/OPEN FORUM WITH CONFERENCE PARTICIPANTS

Scott Klara, Chair Conference Steering Committee Deputy Director, Off. of Coal & Power R&D U.S. DOE-NETL

Conference Steering Committee Members

A Rapporteur's Observations

12:30 CONFERENCE ADJOURNS

TECHNICAL SESSIONS

CAPTURE AND SEPARATION – SORBENTS (1)

GEOLOGIC - FRIO BRINE FIELD PROJECT (1)

PUBLIC OUTREACH AND EDUCATION

SEQUESTRATION POLICY AND FEASIBILITY STUDIES (1)

WEYBURN PROJECT

GEOLOGIC - MONITORING, MITIGATION, AND VERIFICATION (1)

CAPTURE AND SEPARATION – OXYFUEL COMBUSTION

GEOLOGIC - FRIO BRINE FIELD PROJECT (2)

GEOLOGIC SEQUESTRATION (1)

SEQUESTRATION POLICY AND FEASIBILITY STUDIES (2)

REGULATORY ANALYSIS

ADVANCED CONCEPTS - BIOMASS OFFSETS

CAPTURE AND SEPARATION - SORBENTS (2)

GEOLOGIC - RISK ASSESSMENT ISSUES

GEOLOGIC SEQUESTRATION (2)

CAPTURE - MEMBRANES

TERRESTRIAL - SCIENCE, TECHNOLOGY, AND ECONOMICS (1)

CAPTURE - FEASIBILITY STUDIES

GEOLOGIC SEQUESTRATION (3)

ADVANCED CONVERSION/ CAPTURE CONCEPTS

GEOLOGIC - COAL SEAMS (1)

TERRESTRIAL - SCIENCE, TECHNOLOGY, & ECONOMICS (2)

GEOLOGIC - MONITORING, MITIGATION, & VERIFICATION (2)

GEOLOGIC - COAL SEAMS (2)

SEQUESTRATION POLICY AND FEASIBILITY STUDIES (3)

GEOLOGIC SEQUESTRATION (4)

GEOLOGIC - MONITORING, MITIGATION, AND VERIFICATION (3)

GEOLOGIC - FRIO BRINE FIELD PROJECT (3)

OCEAN SEQUESTRATION

TUES	1	2	3	4	5
	Capture and Separation -	Geologic - Frio Brine Field		Sequestration Policy and Feasibility	Geologic - Monitoring,
Sub Topic	Sorbents 1	Project (1)	Public Outreach and Education	Studies (1)	Mitigation, and Verification
Session Chair(s)	Jose D. Figueroa U. S. DOE - NETL	Susan Hovorka, Bureau of Econ. Geology, U of T of Austin and Sally Benson, LBNL	Melissa Miller Los Alamos National Laboratory	Ramesh Srivastava Science Applications International Corp.	Brian McPherson NM Institute of Mining & Technology
Room	Walnut	Plaza C Ballroom	Plaza A Ballroom	Plaza B Ballrom	Beech
1.30	and Potassium Carbonate for CO2 ; Eric Chen, Gary Rochelle, Babatunde Oyenekan; Paper 129	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	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 CO2 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 S. Lindner; Paper 166
1:50	Development of Na and K-Based Sorbents for CO2 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 CO2 Brine Pilot Injection Site, Liberty County, Texas; Paper 240	Attitudes regarding CO2 Capture and Storage from a Swedish perspective; Anders Hanssona and Mårten Bryngelssonb; 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 Analysi CO2 in the Near-Surface Environmen Geologic Carbon Sequestration Verification; Jennifer L. Lewicki and Curtis M. Oldenburg; Paper 193
	Energy Integrated CO2 Capture; L. E. Hakka, John Sarlis, Karl Stephenne; Paper 74	Flow Modeling for the Frio Brine Pilot; Christine Doughty, Karsten Pruess, Sally Benson; Paper 139	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 known CO2 systems for long-term monitoring; Rick Allis, Deborah Berg Joe Moore, Kevin McClure, Craig Morgan, Tom Chidsey, Jason Heath a Brian Macpherson; Paper 131
2:30	Regeneration with CO2 Compression to Reduce CO2 Capture Costs; Kevin S.	Pressure Transient Data Collection and Analysis from the Frio Brine Pilot; Sally M. Benson, Christine Doughty, Karsten Pruess; Paper 3	Climate Change and Sequestration for Pre Teens: Development of a Multi- Disciplinary School Curriculum; Jeremy Kranowitz, Brooke Carson, Rachel PokrandtJeremy Kranowitz; Paper 233	4B Weyburn Project Mike Monea, Petroleum Tech. Research Centre Seismic Monitoring of CO2 Injection at the IEA GHG Weyburn CO2 Monitoring and Storage Site: What Have We Learned; Don White, Keith Hirsche, Tom Davis, and Shawn Maxwell; Paper 163	Application of Multi-Component Deformation Monitoring to CO2 Sequestration; Eric Davis, Jing Du , S Marsic, William Roadarmel; Paper 1
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	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	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 CO2 Monitoring and Storage Project and its Relevance to Long-Term Performance Assessment; Rick Chalaturnyk, Jaime Jimenez and Steve Whittaker; Paper 236	
	Michael C. Trachtenberg, Lihong Bao;	Monitoring CO2 saturation using Pulsed Neutron Capture Method; N. Mueller, T. S. Ramakrishnan and A. Boyd, S. Sakurai; Paper 22		Prediction of CO2 Distribution and Storage Performance in Weyburn EOR Patterns with Different CO2 Injection Strategies; David HS. Law, David L. Cuthiell and Mafiz Uddin; Paper 161	

TUES	6	7	8	9	10A
	Capture and Separation -	Geologic - Frio Brine Field		Sequestration Policy and Feasibility	
Subtopic	Oxyfuel Combustion	Project (2)	Geologic Sequestration (1)	Studies (2)	Regulatory Analysis
Session Chair(s) Room	George Guthrie Los Alamos National Laboratory Walnut	Susan Hovorka, Bureau of Economic Geology, University of Texas at Austin Sally Benson, LBNL Plaza C Ballroom	Scott Reeves Advanced Resources International Plaza A Ballroom	Jared Ciferno U. S. DOE - NETL Plaza B Ballrom	Anhar Kerimjee U. S. Environmental Protection Agency Beech
	Coal by Means of Oxygen Transport Membranes; M. Romano, S. Napoletano,	Surface Environmental Monitoring At the Frio CO2 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	Classification; Scott M. Frailey and Robert J. Finley; Paper 64	Insights and Implications for the US in 2050; Gen	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	Use of Gas Phase Tracers for Monitoring CO2 Injection at the Frio Test Site; Karsten Pruess, Barry Freifeld, Mack Kennedy, Curt Oldenburg, Tommy J. Phelps and M.C. van Soest; Paper 152	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
	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. Vecci, Massoud Rostam-Abadi, Yongqi Lu, Arun C. Bose; Paper 5	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.	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	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
	The Potential for Clean Energy Production Using Oxy-Fuel Combustion and Integrated Pollutant Removal; Thomas Ochs, Danylo Oryshchyn, Thomas Weber, Cathy Summers; Paper 26	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	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 Robin Graham, ORNL Carbon sequestration from coal and propane combustion gases at industrial scale using microalgae; M Olaizola, S Flores, T Nakamura; Paper 17 (NOT PRESENTED)
5:20	Labiano, P. Gayán,J. Celaya, A. Abad ; Paper 138	G.M. Hoversten, E.L. Majer; Paper 61	Capacity of California Sedimentary Basins; Larry Myer, Sally Benson, John Clinkenbeard, Cameron Downey, Howard Herzog ; Paper 123	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	Imaging of a CO2 Plume; M. Wilt, J.	_	Sequestered Carbon: a Thermodynamic-Based Policy Proposal; Jonathan E. Schrag, Klaus S. Lackner; Paper 105 (NOT PRESENTED)	Gasification-Based Liquid Fuels and Electricity from 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	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	Microbially Enhanced Geologic Sequestration of Supercritical CO2; A. B. Cunningham, R. Gerlach, A. Phillips, and L. Spangler; Paper 150	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	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

WED	11	12	13	14	15
	Capture and Separation -	Geologic - Risk Assessment			Terrestrial - Science, Technology,
Subtopic	Sorbents 2	Issues	Geologic Sequestration (2)	Capture - Membranes	and Economics (1)
Session Chair(s) Room 10:30	Jose D. Figueroa U. S. DOE - NETL Walnut CO2 capture by anti-sublimation Thermo economic process evaluation; D. Clodic, R El Hitti, M. Younes, Alain Bill & François Casier; Paper 24	conduits within the proposed national CO2 Storage Test Site, Teapot Dome (NPR-3), Wyoming; Sean T. Brennan,	assessment of model predictions; James	Geo Richards U. S. DOE - NETL Plaza B Ballrom 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	F. Blaine Metting, Pacific Northwest National Laboratory Charles Rice, University of Kansas Beech Managing and Enhancing Carbon in Soils through Soil Aggregation; Rice et al; Paper 245
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,	Kristin Dennen, Robert C. Burruss; Paper 107 HSE Screening Risk Assessment for Geologic CO2 Storage Sites; Curtis M. Oldenburg; Paper 96	Pilot Project in Basalt Formations of	Combined Power Generation and Carbon Sequestration Using Direct FuelCell ; Hossein Ghezel-Ayagh, Robert Sanderson, Dilip Patel, and Mohammad Farooque: Paper 173	Enhancing Soil Humification: Laboratory Studies with a Model System; JE Amonette, J Kim, CT Garten, Jr., CC Trettin, RS Arvidson, and A Luttge;
11:10	Jeffrey W. Portzer, José D. Figueroa; Paper 67 Novel Lithium Silicate-based Sorbents for High Temperature Carbon Dioxide Removal; Weijiong Li, Brian S. Turk,	The impact of a well bore failure during CO2 sequestration operation ; Rajesh Pawar, Hans Ziock, and George	D., P.E; Paper 220	Elaboration of Zero Emissions Membrane Piston Engine System (ZEMPES) for Propane Fuelling; Shokotov M., McGovern J., Bolton, Shokotov V.,	Paper 219 Advanced Genetic Studies Seek to Enhance Carbon Sequestration in Plants and Soils; Wullscheleger; Paper 246
	Santosh K. Gangwal, Thomas O. Nelson, Raghubir P. Gupta; Paper 51 Enzymatically Driven, Cost-Efficient,	Zyvoloski; Paper 212 Degradation of Well Cements Exposed to		Foy K., Yantovski E.; Paper 109 Design and Evaluation of Ionic Liquids as Novel	In Field Soil Carbon Determination Using
11:30	Paper 127	Carbonated Brine; Andrew Duguid, Mileva Radonjic and George Scherer; Paper 186	Matter, David S Goldberg, Taro Takahashi; Paper 91	CO2 Absorbents for Sequestration; Edward J. Maginn, Joan F. Brennecke, JaNeille K. Dixon, Jessica L. Anderson and Haizhong Zhang; Paper 209	A Noninvasive INS Method In Comparison With Conventional Soil Core And Excavations; Lucian Wielopolski, Sudeep Mitra, George Hendrey, Ram Oren, and Kurt Johnsen; Paper 56
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	SO2 in Sandstone-Shale Formation; Tianfu Xu, John A. Apps, Karsten Pruess and Hajime Yamamoto; Paper 118	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	affected by long-term management and water erosion; Izaurralde, RC, JR Williams, WM Post, AM Thomson, WB McGill, LB Owens, and R Lal; Paper 247
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		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	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.
12:30			LUNCH		

WED	16	17	18	19	20
			Advanced Conversion/		Terrestrial - Science, Technology,
Subtopic	Capture - Feasibility Studies	Geologic Sequestration (3)	Capture Concepts	Geologic - Coal Seams (1)	& Economics (2)
Session Chair(s)	Timothy Fout U. S. DOE - NETL	Charryl Berger Los Alamos National Laboratory	Rich Walters U.S. DOE, Albany Research Center	David Hyman U. S. DOE - NETL	F. Blaine Metting, Pacific Northwest National Laboratory Charles Rice, University of Kansas
Room	Walnut	Plaza C Ballroom	Plaza A Ballroom	Plaza B Ballrom	Beech
1:30	A new 'capture ready' power plant projec in Saskatchewan; Max Ball, Bob Stobbs, Larry Ward, Jon Gibbins and Malcolm Wilson ; Paper 218	Sequestration Target in the Illinois Basin; H. E. Leetaru, S. C. Rittenhouse, S. M.	while Avoiding the Cost of Mineral	Opportunities and Constraints on Carbon Dioxide Sequestration and Enhanced Coalbed Methane Recovery in coal in British Columbia ; Barry Rya Dave Richardson, and Dave Hughes; Paper 182	south-central United States: State level
1:50	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	Reactive transport modeling using Toughreact of the long term CO2 storage at Sleipner, North Sca; 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, Grey Dipple; Paper 29	Geologic CO2 Sequestration Potential of Coal deposits in the Northern Great Plains; Dr. Charle R. Nelson; Paper 49	West Coast Partnership: Opportunities fo Reducing Emissions by Managing Forest Fuel Loads ; John Kadyszewski, Aaron Dushku, Sandra Brown, Sean Grimland, and Tim Pearson; Paper 224
2:10	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	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	Kiln Dust; Deborah N. Beach, John S.	The Coal-Seq II Consortium: Advancing the Science of CO2 Sequestration in Deep, Unmineable Coalseams; Scott R. Reeves; Paper 82	Methods to Simulate Terrestrial Carbon Sequestration Activities: from Process Models to Economics; Ronald D. Sands, Cesar Izaurralde, Bruce A. McCarl; Paper 25
2:30	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	M. Dilmore, Y. Soong, S. W. Hedges, and	The Low Cost of Geological Assessment: Policy and Economic Implications for Underground CO2 Storage; Julio Friedmann and James J. Dooley; Paper 191 (NOT PRESENTED)	Geologic - Monitoring, Mitigation, & Verifi. (2) John Litynski, DOE - NETL Feasibility of seismic monitoring of CO2 sequestration in the deep formations in th Ohio River Valley Region; Haibin Xu, Ber Flack, Richard Salter, and Randal Utech, Neeraj Gupta, T.S.Ramakrishnan and Austin Boyd; Paper 133
2:50	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	Paper 125		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
3:10			COFFEE BREAK		

WED	21	22	23	24	25
		Sequestration Policy and		Geologic - Monitoring, Mitigation, and	
Subtopic	Geologic - Coal Seams (2)	Feasibility Studies (3)	Geologic Sequestration (4)	Verification (3)	Ocean Sequestration
Session	Tony Kovscek	Jared Ciferno	Geo Richards	Sarah Forbes	Heino Beckert
Chair(s)	Stanford University	U. S. DOE - NETL	U. S. DOE - NETL	U. S. DOE - NETL	U. S. DOE - NETL
Room	Walnut	Plaza C Ballroom	Plaza A Ballroom	Plaza B Ballrom	Beech
3:40	Effects of Gas-Induced Shrinkage and Swelling on Economics for Sequestration of CO2 in Coal Seams; Grant S. Bromhal F. Burcu Gorucu, Sinisha Jikich, W. Neal Sams, Turgay Ertekin, Duane H. Smith; Paper 90	Identifying Cost-Effective CO2 Control Levels for Coal-Fired Power Plant; Anan B. Rao, Chao Chen and Edward S. Rubin Paper 137		Numerical analysis of plume evolution patterns using two different equations in a CO2 Pilot injection test area ; Weon Shik Han, Brian J.O.L. McPherson, Rajesh Pawar, Jason Heath; Paper 20	Progress I n Carrying Out Ocean CO2 Perturbation Experiments; Peter G. Brewer, Edward T. Peltzer; Paper 238
4:00	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 CO2 Capture and Storage Potential and Economics: an Integrated Modeling Analysis of CO2 Sources and Reservoirs for three Key Electric Power Regions; MA Wise, RT Dahowski, JJ Dooley, CL Davidson; Paper 45	CO2 Capture Project – Phase 2: Breaking the technology mold; Gardiner Hill & Linda Curran; Paper 78	PFLOTRAN: Massively Parallel 3-D Simulator fo CO2 Sequestration in Geologic Media; Chuan Lu and Peter Lichtner; Paper 40	-
4:20	Measurement and Modeling of Sorption- Induced Coal Strain; Eric P. Robertson and Richard Christiansen; Paper 196	Models of CO2 Transport and Storage Costs and Their Importance in CCS Cost Estimates; Sean T. McCoy and Edward S Rubin; Paper 92		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
4:40	Laboratory Investigation of Coalbed Methane Recovery by Gas Injection; G Q. Tang, W. Lin, and A. R. Kovscek; Paper 179	Coupling CO2 Capture and Storage with Coal Gasification: Defining "Sequestration-Ready" IGCC; Jennie C. Stephens; Paper 144	Impact of Flowing Formation Water on Residual CO2 Saturations in Deep Aquifers; P.H.Stauffer, R. Pawar, H.S. Viswanathan; Paper 84	Analysis of 30-year CO2-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	Pulverized Limestone for Benign Ocean Storage; D. Golomb, E. Barry, D. Ryan, C. Lawton, P. Swett, R. Warzinski, R. Lynn; Paper 206
5:00		CO2 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	Geologic - Frio Brine Field Project (3) Susan Hovorka, Bureau of Econ. Geology, Univ. of Texas at Austin Sally Benson, LBNL Integrated work for measuring, monitoring, and verifying CO2 distribution; Shinichi Sakurai, Nadja Mueller, T. S. Ramakrishnan, Austin Boyd, Tom Daley, Mike Hoversten; Paper 21	Optimum CO2 sequestration using Ocean Nourishment; Ian S F Jones and Mohammednoor Altarawneh; Paper 235
5:20		National Gasification Strategy for Energy Independence & Carbon Progress; William G. Rosenberg and Michael R. Walker; Paper 200 (NOT PRESENTED)	the Altmark Natural Gas Field, Germany	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	Field Studies of CO2/Water Coflow Injection for Ocean Carbon Sequestration Costas Tsouris, David Riestenberg, Peter Brewer, Edward Peltzer, Peter Walz, Aaron Chow, Eric Adams; Paper 1
5:40		Technological options for CO2 capture in India; R.R.Sonde; Paper 171 (NOT PRESENTED)	Comparison of Ion Transport Membrane Kirsten Foy, Jim McGovern; Paper 111	Lessons Learned and Questions Restated as a Result of the Frio Brine Pilot ; Susan D. Hovorka, Sally Benson, Larry Myer; Paper 230	Simulation of Sinking CO2 Hydrate Composite Plumes; Eric Adams, Aaron Chow , Costas Tsouris; Paper 108

POSTER SESSIONS

GROUP I

DETERMINATION OF THE CONTRIBUTION OF NATURAL SINKS/PROCESSES OF CARBON SEQUESTRATION & CAPTURE

EDUCATION AND OUTREACH

INTERNATIONAL INITIATIVES AND PROGRAMS

RISK ASSESSMENT

SEPARATION AND CAPTURE

TECHNOLOGY/SYSTEMS FOR THE MEASUREMENT, MONITORING AND VERIFICATION OF CARBON EMISSIONS

SEQUESTRATION OF CARBON EMISSIONS IN GEOLOGIC FORMATIONS

GROUP II

ADVANCED CONVERSION/ CAPTURE CONCEPTS

ENHANCING NATURAL SINKS/ TERRESTRIAL SEQUESTRATION

MODELING AND ASSESSMENT

OCEAN SEQUESTRATION

SEPARATION AND CAPTURE

TECHNOLOGY/SYSTEMS FOR THE MEASUREMENT, MONITORING AND VERIFICATION OF CARBON EMISSIONS

TERRESTRIAL SEQUESTRATION

SEQUESTRATION OF CARBON EMISSIONS IN GEOLOGIC FORMATIONS

TUES GROUP I					-
GROUPI	Determination of the Contribution of Natural Sinks/Processes of	2	³ International Initiatives and	4	5
Subtopic	Carbon Sequestration & Capture	Education and Outreach	Programs	Risk Assessment	Separation and Capture
	Spatial and Temporal Variations of SOC in Reclaimed Minesoils; M. K. Shukla and R. Lal; #195 (NOT PRESENTED)	Audience-Pleasing Physical Models to Support CO2 Outreach; Susan D. Hovorka, Roberta Hotinski, Samuel J. Friedmann; #232	Carbon sequestration through reforestation projects in China and Argentina: a multiple benefit approach; Lucia Perugini*; Riccardo Valentini; Antonio Lumicisi; #167	Societal Attitudes To Clean Coal Energy– An Exercise In Knitting Fog; Anna Littleboy, Peta Ashworth, Ann Pisarski, Simon Niemeyer, Margaret Gooch and Naomi Boughen; #229	CO2 Capture by Formation of Hydrates – Economic Analysis and New Promoter Process; S.S. Tam, Gordon Deppe, R.P. Currier, and D.F. Spencer; #50 (UNAVAILABLE)
					The Design of Metal Organic Frameworks for the Separation of Carbon Dioxide from Flue Gas and Gasification Streams; John J. Low, Randall Snurr, Omar Yaghi; #234
					Carbon Dioxide Capture And Separation Techniques For Power Generation Point Sources; Henry Pennline*, McMahan Gray, James Hoffman, Kenneth Jones, David Luebke, Ranjani Siriwardane, and James Yeh; Poster 1
	6			7	
Subtopic	Technology/Systems for the Measurement, Monitoring and Verification of Carbon Emissions		Sequestration of Carbon E	missions in Geologic Formations	
	GIS Knowledge Integration for Carbon Sequestration: the Cyberinfrastructure Approach; G.N. Keating, P.M. Rich, M.S. Witkowski, and H.S.Viswanathan; #28	Two micron continuous wave laser for optical detection of carbon dioxide; Kevin S. Repasky, Christopher Melton, John L. Carlsten, Joseph A. Shaw, and Lee Spangler; #0	A first-order assessment of potential CO2 storage capacity in U.S. basalt formations Casie L Davidson, H Todd Schaef, Robert T Dahowski; #10	The U-Tube: A Novel System for Sampling and Analyzing Multi-phase Borehole Fluid Samples during the Frio Brine Pilot Test; Barry M. Freifeld, Robert C. Trautz, Yousif K. Kharaka, Tommy J. Phelps, Larry R. Myer, Susan D. Hovorka, and Daniel J. Collins; #37	CO2/Brine/Carbonate Rock Interactions: Dissolution and Precipitation; Reid B. Grigg and Robert K. Svec, Peter C. Lichtner and William Carey, and Charles E. Lesher; #47
	Federation of Distributed Resources and Distributed Multidisciplinary Expertise;	Findings of Storage Potential Assessment in Deep Saline Formations in the Ohio River Valley Region; Neeraj Gupta, P. Jagucki, J. J. Dooley, M. J. Mudd, and C. W. Byrer; #6	Duncan Ph.D , Alan Lee Brown Ph.D.; #13 (UNAVAILABLE)	Reservoir geology of the Morrow Formation, eastern Colorado and western Kansas: implications for CO2 sequestration and EOR; David W. Bowen; #39	Aerometric Measurement of CO2 flux from Crystal Geyser, UT: Implications for Health, Safety, and Environmental Consequences of CO2 Leakage for a deep storage site; Frank Gouveia; #54
	Application of the API Compendium and SANGEATM Software to Geologic Sequestration Projects; Steven Crookshank, Susann Nordrum, Mahesh Gundappa, Terri Shires; #69 (UNAVAILABLE)	and Brine Alterations during Super-Critical	McGrail, Antoinette T. Owen, Bob Hunter,	Numerical simulation of CO2 injection and sequestration in saline and hydrate bearing aquifers; M. D. White, B. P. McGrail; #42 (UNAVAILABLE)	Basinwide Implications of Large CO2 Injected Volumes into Deep Saline Formations; Scott M. Frailey, Hannes Leetaru, Ed Mehnert, Mark A. Person and Victor Bense; #63
	UK Works on CCS and the EU ETS; Tim Dixon; #140	8	The Stability of Dawsonite; John P. Kaszuba, J. William Carey, Dale Counce; #23 (UNAVAILABLE)	Deep Basalt Formations: A Reactive Reservoir for Permanent Carbon Dioxide Storage; B. Peter McGrail, H. Todd Schaef, and Frank A. Spane; #44 (UNAVAILABLE)	Studies of Carbon Dioxide Sorption on Argonne Premium Coals via Attenuated Total Reflectance-Fourier Transform Infrared Spectroscopy; Ryan N. Favors, Megan M. Hill, Angela L. Goodman, and John W. Larsen; #158 (UNAVAILABLE)

WED							
GROUP II	8	9	10	11	12		
	Advanced Conversion/Capture	Enhancing Natural					
Subtopic	Concepts	Sinks/Terrestrial Sequestration	Modeling and Assessment	Ocean Sequestration	Separation and Capture		
	Calcifying Cyanobacteria; Brady D. Lee,	Forestry and Agriculture Greenhouse Gas Modeling Forum: Improving Representation of Terrestrial Sequestration in U.S. and Canadian Biophysical and Economic Models; Kenneth Andrasko, Steven Rose, Ralph Alig, Jan Lewandrowski, Robert MacGregor, Brian Murray; #34 (NOT PRESENTED)	and Storage Demonstration Projects in China; Kyle Meng, Michael Celia , Robert H. Williams; #226	Advanced technology for assessing the effects of CO2 sequestration on deep-sea organisms: A seafloor respiration system and a hyperbaric fish- trap respirometer; Barry, JP, Buck, KR, Drazen, J, Okuda, C., Levesque, C., Risi, M., Parker, M., Bird, L.; #16	Comparative study of the factors affecting CO2 adsorption on coals; Vyacheslav Romanov (presenter), Ph.D., Angela Goodman, Ph.D., Yee Soong, Ph.D.; Poster 4 (UNAVAILABLE)		
	Accelerated Carbonation of Contaminated Land and Waste Residues as a Contribution to Carbon Sequestration; S.J.R. Simons, M. Fernández Bertos, C.D. Hills and P. Carey; #205	USA, 1999-2003; C.M. Gough, C.S. Vogel,	Improvement on reflectance based carbon estimation models; S. Chod Stephens, V. Phil Rasmussen, R. Douglas Ramsey, Ralph E. Whitesides, Gregory S. Searle, Robert L. Newhall; #14	Formation And Dissolution Of Co2 Hydrate Composite Particles In A High-Pressure Water Tunnel Facility; Robert P. Warzinski, Ronald J. Lynn, David E, Riestenberg, Jorge Gabitto, Costas Tsouris; #85(1)	Sequestration potential in Illinois Basin coal beds: Facts and uncertainties Agnieszka Drobniak, Christopher Korose, Maria Mastalerz, Thomas R. Moore, John Rupp; Poster 5		
		Measuring Soil Carbon and Nitrogen Using Laser-Induced Breakdown Spectroscopy (LIBS); Ronny D. Harris, Michael H. Ebinger, Clifton W. Meyer and David A. Cremers; Poster 3	A Spatially Explicit Assessment of Carbon Sequestration Potential in the Southwest Carbon Partnership Region; Robert Blaisdell, Joel Brown, Jay Angerer, Jerry Stuth; #30		Southwest Regional Partnership on Carbon Sequestration: A Test Case Model in the San Juan Basin; David Borns, Peter Kobos, Len Malczynski and Orman Paananen; #155		
			A Potential Role for "Slipstream" H2 from Coal IGCC with CO2 Capture and Storage in an Emerging H2 Economy for Transportation; Thomas G. Kreutz; #2 (UNAVAILABLE)		Amino-acid salts for CO2 capture from flue gases; J.P. Brouwer, P.H.M. Feron, N.A.M. ten Asbroek; #147		
	13	14	15				
	Technology/Systems for the Measurement, Monitoring and						
Subtopic	Verification of Carbon Emissions	Terrestrial Sequestration	Sequestr	ration of Carbon Emissions in Geologic Fo	ormations		
	A promising remote sensing approach for mapping ecosystem carbon sequestration; Abdullah F. Rahman and Daniel A. Sims; #156	Effects of nitrogen fertilization and crop rotation on soil carbon and nitrogen dynamics on a silt loam soil in west central Illinois; Sindhu Jagadamma, Rattan Lal, Robert G. Hoeft, Eric A. Adee; #136 (NOT PRESENTED)	Recovery Potential in Illinois Basin Oil Reservoirs; Rex Knepp, Damon Garner, Scott M. Frailey, Beverly Seyler, John Grube, Don Keefer, and Sarah Rittenhouse; #65	Mapping and Characterization for Geologic Sequestration by the Midwest Regional Carbon Sequestration Partnership (MRCSP); Wickstrom, Lawrence H., Erik R. Venteris, John A. Rupp, Stephen F. Greb, Gerald R. Baum, William B. Harrison, Kristin M. Carter Michael E Hohn; #98 (UNAVAILABLE)	Comparison of Gas Flux And Soil Gas Composition at Two Oil Fields: Rangely, Colorado With CO2-EOR, and Teapot Dome, Wyoming at Baseline Condition; Ronald W. Klusman; #197 (NOT PRESENTED)		
	Airborne VHF Radar for the Remote Sensing of Biomass and Carbon; Patrick W. Johnson; #203 (UNAVAILABLE)		Properties for CO2 Sequestration and Enhanced Coalbed Methane Production in the	CO2 Sequestration and Leakage Calculation using Enhanced Coalbed Methane Recovery Simulator; Yuki Funahashi, Sohei Shimada, Koji Yamamoto, Osamu Kitamura; #114 (UNAVAILABLE)	Stability, Reactivity, and Crystal Structure of Na-K Dawsonite; J. William Carey, Ren-Guan Duan, Steve Chipera, Rahul Dastidar; #242		
		Increased Plant Productivity in Coal Spoil- Amended Soils; J.E. Fessenden-Rahn, M.H. Ebinger, and P.J. Unkefer; #244 (NOT PRESENTED)		Horizontal Well for ECBM Recovery and CO2 Storage in Unminable Thin Seams: Pure CO2 vs CO2 Enriched Flue Gas; Sevket Durucan and Ji- Quan Shi; #143 (UNAVAILABLE)			
			-	CO2 Sequestration in Gas Shales of Kentucky; Brandon C. Nuttall, James A. Drahovzal, Cortland F. Eble, and R. Marc Bustin; #165	Pre-CO2 Injection Reservoir Assessment, Naval Petroleum Reserve No. 3, Natrona County, Wyoming; Kristin Dennen, William Burns, Robert Burruss, Kendra Hatcher; #106		
			geologic formations; Qinjun Kang and Peter C. Lichtner; #97	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; Ji-Quan Shi and Sevket Durucan; #194	Development of an empirical model to assess the CO2-ECBM potential of a poorly explored basin; Ben Laenen and Alexandra Hildenbrand; #221		