

# POSTER PRESENTATIONS

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## Capture and Separation

**Cost Efficient Amine Plant Design for Post Combustion CO<sub>2</sub> Capture From Power Plant Flue Gas -- Part I**

*Gerald N. Choi, Ph.D.*

**In-Duct Sorbent Injection for CO<sub>2</sub> Capture**

*Gemma Grasa*

**Dry Regenerable Sodium Sorbents for Capture of Carbon Dioxide from Flue Gas**

*David A. Green*

**Capture of Carbon Dioxide Using Zeolitic Molecular Sieve**

*James S. Hoffman*

**Study on Carbon Dioxide Removal by Absorption of Ammonium Solution**

*Dr. Kunlei Liu*

**Development of Novel Low-Cost Carbon-Based CO<sub>2</sub> Sorbents**

*Dr. M. Mercedes Maroto-Valer*

## Geologic Separation

**Microbiological CO<sub>2</sub> Conversion to Methane in Sedimentary Aquifers**

*Christian Fouillac*

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## Illinois Basin Screening Criteria for Geologic CO<sub>2</sub> Sequestration

*Scott M. Frailey*

## Goals & Configuration of an Induced CO<sub>2</sub> Leakage Experiment at Teapot Dome, WY

*S. Julio Friedmann*

## CO<sub>2</sub> Sequestration: Long-term Simulations of Mineral-Aquifer Reactions

*Helge Hellevang*

## The Gulf Coast Carbon Center: Identifying Candidate Geologic Carbon Sequestration Sinks and Sources and Assessing Their Economics for an Intermediate-Scale Field Demonstration Project

*Eugene M Kim, Ph.D.*

## Storage of CO<sub>2</sub> in Hydrate Reservoirs

*Professor Bjorn Kvamme*

## The IEA Weyburn CO<sub>2</sub> Monitoring and Storage Project

*Mike Monea*

## **Carbon Management and Resource Recovery - The Alberta Challenge and Opportunity**

*Dr. Ian J. Potter*

## An Assessment of Potential Carbon Sequestration Volumes in Indiana's Petroleum Fields, Aquifers, Unminable Coal Seams, and Shales

*Premkrishnan Radhakrishnan*

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**Human Health Risk Assessment of CO<sub>2</sub>: Survivors of Acute High-Level Exposure and Populations Sensitive to Prolonged Low-Level Exposure**

*Susan A. Rice, Ph.D., D.A.B.T.*

**Potential for Geologic Storage of CO<sub>2</sub> in Western Maryland - Phase I Studies**

*John Sherwell*

**Review of the Thermodynamic Properties and their Prediction Using an Equation of State for the System CO<sub>2</sub>/H<sub>2</sub>O/Electrolyte Mixtures**

*Ioannis N. Tsimpanogiannis, Ph.D.*

**Seq. Rates, Duration, Capacity, and Saturation: Det. Factors for Current and...**

*Tristram O. West*

## Advanced Concepts

**Enhanced Practical Photosynthetic CO<sub>2</sub> Mitigation**

*David J. Bayless, Ph.D., PE.*

**Scaleup of Controlled Landfill Bioreactor at the Yolo County Central Landfill**

*John Benemann*

**Laboratory-scale Pilot of Enzyme-catalyzed CO<sub>2</sub> Sequestration with Produced Waters as Cation Source**

*Dr. Gillian M. Bond*

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## **Challenges and Opportunities in Mitigating Greenhouse Gas Emissions From Landfills**

*Charlie Byrer*

## **The Selection of Marine Microalgae for Maximum Flue Gas CO<sub>2</sub> Biofixation Potential**

*Michael Huesemann, Ph.D.*

## **CO<sub>2</sub> Hydrate Formation in Aqueous Solutions: Phase Field Theory of Nucleation and Growth**

*Professor Bjorn Kvamme*

## **Carbon Dioxide Sequestration by Synechococcus sp. Strain PCC8806**

*Brady D. Lee*

## **Biogeochemical Sequestration of Carbon Dioxide and Heavy Metals in Fly Ash**

*Ji-Won Moon*

## **Numerical Studies of Hydrate Crystal Growth During CO<sub>2</sub> Sequestration**

*Dongxiao Zhang, Ph.D.*

## **Capture and Separation (II)**

### **Economical Carbon Capture, Storage and Utilization**

*Danny Day*

### **Computational Analysis of Combustion of Separated Coal-Gas in O<sub>2</sub>/CO<sub>2</sub>**

*Elizabeth Fisher*

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## **IGCC System Analysis Utilizing Various Condenser Cooling Platforms Including CO2 Sequestration**

*Robert E. James*

## **Carbon Dioxide Capture and Separation Technologies Assessment and Evaluation for the Southwest Partnership Region**

*Dennis Leppin, PE.*

## **Zero Emission Power Generation With CO2 Reduction By Fayalite**

*Jim McGovern*

## **Experimental Analysis of Aerodynamic Factors Affecting Carbon Dioxide Capture**

*Sepideh Lamehi Rashti*

## **Chemical-looping Combustion for Clean Energy Production From Methane and an Oxygen Carrier Reaction**

*Sebastien Roux*

## **The Integrated Plasma Fuel Cell (IPFC) Energy Cycle**

*Meyer Steinberg*

## **Geologic Sequestration (II)**

### **Hydrological And Geochemical Monitoring for a CO2 Sequestration Pilot in a Brine Formation**

*Sally Benson*

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## **The Significance of Mixed-Volatile (CO<sub>2</sub>-CH<sub>4</sub>) Densities, Viscosities and Vapor-Liquid Equilibria in CO<sub>2</sub>-Enhanced Coalbed Methane Production**

*James G. Blencoe, Ph.D.*

## **Tabulation of a Coal Database for the Sequestration of CO<sub>2</sub> in Coal Seams**

*Don Harrison*

## **Understanding Carbonate Formation During Carbon Dioxide Sequestration in Saline Brine Formations**

*Dr. M. Mercedes Maroto-Valer*

## **High Pressure Flow-Through Column for Simulating Fluid and Gas Flow in Geologic Media**

*Scott D. McCallum*

## **CO<sub>2</sub> Injection in the Altmark Natural Gas Field, Germany: Simulations of Water Injection to Delay CO<sub>2</sub> Breakthrough**

*Curt M. Oldenburg*

## **Experimental Studies of CO<sub>2</sub> Sequestration: CO<sub>2</sub>-SO<sub>2</sub> Injection in Ferric Iron-Bearing Sediments**

*James L. Palandri*

## **Geologic Sequestration of CO<sub>2</sub>: A Uniform Strategy for Assessing Mineralization Trapping Potential Across Rock Types**

*Robert W. Smith, Ph.D.*

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## **Case Study - Rangely Weber Sand Unit CO2 Injection Project, Colorado**

*Ronald K. Wackowski*

## **Elucidation of Structural Changes in Confined Coal Under High Pressure CO2 Using Small Angle X-Ray Scattering**

*Randall E. Winans*

## **Kinetic Modeling and Geochemical Reactions for Sequestration of CO2 in Deep Saline Aquifer**

*Biniam Zerai*

## **Terrestrial Sequestration**

### **Carbon Sequestration and Mineland Reforestation**

*Christopher Barton, Ph.D.*

### **Sequestration Learning by Doing - The Carbon Offset Opportunity Program**

*Patrick R. Esposito II*

### **Effects of Cover Crops to Offset Soil Carbon Changes Under No-till on an Ohio Farm When Biomass is Harvested**

*L. Everett*

### **Building Confidence in Carbon Management Through Adaptive Management**

*Diana Hollis*

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## **The Effects of Carbon Credit Payment Methods on a Carbon Trading Market**

*Ching-Hsun Huang, Ph.D.*

## **The Role of Aggregation and a Rigorous Mgmt. System in the Creation of Agri**

*John A. McMorris III*

## **Eco-Carbon Accounting for Evaluating Environmental Impact and Co-Benefit of Combined Carbon Management Projects: 1) Application Case Studies**

*Yasuko Nomura*

## **Modeling Approaches for Understanding & Predicting Soil Carbon Sequestration: Field to Landscape to Region**

*Dr. Keith Paustian*

## **Using the C-Lock System To Improve MMV Efficiency and Reduce Costs in Soil Carbon Offset Projects**

*Patrick Zimmerman*

## **Advanced Concepts (II)**

### **Optimization of the Mineral Activation Process to Sequester CO<sub>2</sub> at Low Pressures and Temperatures**

*John M. Andrésen*

### **Capturing Carbon-dioxide from the Atmosphere: Kinetics, Energetics and Scaling**

*Manvendra K. Dubey, Ph.D.*

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## Could Sequestration of CO<sub>2</sub> be Combined with the Development of Enhanced Geothermal Systems?

*Christian Fouillac*

## Measurement of Carbonation in Recycled Concrete

*Jennifer Leipold*

## Mineral Carbonation: Energy Costs of Pretreatment Options and Insights Gained from Flow-Loop Reaction Studies

*Larry Penner*

## Accelerated Weathering of Limestone: An Inexpensive Means of Capturing and Sequestering CO<sub>2</sub> at Coastal Sites

*Greg Rau, Ph.D.*

## Capturing Carbon Dioxide Directly from the Atmosphere: Results of an Experimental Program

*Frank Zeman*

## Long-term Storage of CO<sub>2</sub> as Magnesium Carbonate in Finland

*Ron Zevenhoven*