



International Acid Gas Injection Symposium 2010



Gold Sponsor: Gas Liquids Engineering Ltd.

Sept. 27, 2010, Sour Gas Treatment Workshop by Ray Tomcej

Sept. 28, 2010, Acid Gas Injection Symposium

Sept. 29, 2010, Acid Gas Injection Symposium

Sept. 29, 2010, Acid Gas Injection Workshop by John Carroll

Organizer: Sphere Technology Connection Ltd.

Address: 5500 Falsbridge Dr. NE
P.O. Box. 98071 Falconridge RPC
Calgary, Alberta, Canada T3J 0K6

Website: <http://AGIS2010.spheretechconnect.com>

E-mail: training@spheretechconnect.com

Phone: 1-403-619-6215 / **Fax:** 1-888-8944941

Host Venue: Radisson Hotel Calgary Airport

Address: 2120-16th Avenue NE
Calgary, AB, Canada T2E 1L4

Phone: 1-403-291-4666 / **Fax:** 1-403-291-6498

Reservations: 1-800-395-7046 US/Canada

Discounted room rates are available at the host
hotel for registered attendees.

Contact us for more details.



AGIS2010 Speaker Schedule

Tuesday, 28 September, 2010



7:30 Registration

8:00 Breakfast Snack

8:25 Welcome

8:30 E. Wichert¹, J. van der Lee²

1. Sogapro Engineering, Ltd., CANADA
2. Virtual Materials Group, CANADA

Analysis of Acid Gas Injection Variables

9:00 D.T. Lescinsky, A.A. Gutierrez, J.C. Hunter,
and J.W. Gutierrez
Geolex, Inc., USA

Acid Gas Injection in the Permian Basin: Recent Case Studies from Southeast New Mexico

9:30 J. Zhang¹, Guo Gang², Li Shugang³
1. Xi'an University of Petroleum, CHINA
2. Changqing Oil Field Company, PetroChina, Xi'an, China;

Study on Heteropolysaccharide in Acid Gas Injection Application

10:00 Coffee

10:15 B. R. Giri, P. Blais and R. A. Marriott
Alberta Sulphur Research Ltd., CANADA

Viscosity and Density Measurements for Sour Gas Fluids at High Temperatures and Pressures

10:45 K.A.G. Schmidt¹, S.E. Quiñones-Cisneros²
B.R. Giri³, P. Blais³, and R.A. Marriott³
1. University of Alberta, CANADA
2. Universidad Nacional Autónoma de México, MÉXICO
3. Alberta Sulphur Research Ltd., CANADA

A New Reference Viscosity Model for Hydrogen Sulfide

11:15 H. Motahhari, M.A. Satyro, and H.W. Yarranton
University of Calgary, CANADA

Acid Gas Viscosity Modeling with the Expanded Fluid Viscosity Correlation

11:45 X. Bian, Z. Du, and J. Du
Southwest Petroleum University, CHINA

Compressibility Factor of High CO₂-Content Natural Gases: Measurement and Correlation

12:15 Lunch

1:15 Stefan Bachu

KEYNOTE

Alberta Innovates – Technology
Futures, CANADA

Subsurface Characteristics of Acid Gas Disposal Operations in Western Canada: A Precursor to CO₂ Storage

2:00 Y.I. Holubnyak, S.B. Hawthorne, B.A. Mibeck
D.J. Miller, J.M. Bremer, S.A. Smith
J.A. Sorensen, E.N. Steadman, and J.A. Harju
University of North Dakota, USA

Comparison of CO₂ and Acid Gas Interactions with Reservoir Fluid and Rocks at Williston Basin Conditions

2:30 S. Renard¹, J. Sterpenich¹, J. Pironon¹, and M. Lescanne²
1. Nancy University, FRANCE
2. TOTAL, FRANCE

Impact of SO₂ and NO on Carbonated Rocks Submitted to a Geological Storage of CO₂: An Experimental Study.

3:00 Coffee

3:15 J. Giove
Department of Energy, USA

United States' Carbon Capture and Storage Demonstration Programs

3:45 R. Jain
InnoSeptra LLC, USA

Novel CO₂ Capture Process Suitable for Near-Term CO₂-EOR

4:15 W. Zhu¹ and J. Cheng²
1. University of Science Technology Beijing, CHINA
2. Daqing Petroleum Administration Bureau
of Petroleum, CHINA

Pilot Test Research on CO₂ Drive in Very Low Permeability Oil Field of in Daqing Changyuan

End of the Day

AGIS2010 Speaker Schedule

Wednesday, 29 September, 2010

7:30 **Registration**

8:00 **Breakfast Snack**

8:30 N. Jacquemet^{1,2}, J. Pironon¹, V. Lagneau³, and J. Saint-Marc⁴

1. Nancy Université, FRANCE

2. BRGM, FRANCE

3. MINES ParisTech, FRANCE

4. TOTAL, FRANCE

Well Cement Ageing in Various H₂S-CO₂ Fluids at High Pressure and High Temperature: Experiments and Modeling

9:00 J. Wang¹, D. Ryan¹, E.J. Anthony¹, N. Wildgust² and T. Aiken²

1. CanmetEnergy, Natural Resources, CANADA

2. IEA Green house Gas R&D Programme, UK

Effects of Impurities on CO₂ Transport, Injection and Storage

9:30 Mehran Pooladi-Darvish^{1,2}, Olga Zatsepina¹

Farhad Qanabari², and Hamed Tabatabaie²

1. Fekete Associates Inc., CANADA

2. University of Calgary, CANADA

CO₂ and Acid Gas Storage in Geological Settings as Gas Hydrate

10:00 **Coffee**

10:15 J. Yang, E. Zhao, L. Wang, and S. Saha

Honeywell, CANADA

Evaluation and Improvement of Sour Property Packages in Unisim Design

10:45 R.A. Tomcej

Tomcej Engineering Inc., CANADA

Prediction of Acid Gas Dew Points in the Presence of Water and Volatile Organic Compounds

11:15 B. Sporer

Amine Experts, CANADA

Carbon Capture using Amine-Based Technology

11:45 N.A. Hatcher, J.L. Nava and R.H. Weiland

Optimum Gas Treating, USA

Amine and Physical Solvent Treating, and Dehydration, as Mass Transfer Rate Processes

12:15 **Lunch**

1:15 W. Wright

John M. Campbell and Company, CANADA

Dehydration-through-Compression. Is it Adequate?

2:00 J. Jarosch and M. Philippin

LEWA Pumps, GERMANY

Acid Gas and Carbon Dioxide Injection with Reciprocating Diaphragm Metering Pumps

2:30 X. Wan, T. Sun, Y. Zhang, C. Mu, and Y. Wang

Daqing Oil Field, CNPC, CHINA

Field Experience with CO₂-Flood. Site Experiment in Wellblock Shu101, Yushulin Oil Field, Daqing

3:00 **Coffee**

3:15 C.A. Ehlig-Economides¹, M.J. Economides²

K.S. Zaki³, and A. Abou-Sayed³

1. Texas A&M University, USA

2. University of Houston, USA

3. Advantek International, USA

Waste and Water Disposal Wells as Analogs to CO₂ Sequestration

3:45 Y.I. Holubnyak, B.A. Mibeck, J.M. Bremer, S.A. Smith,

J.A. Sorensen, C.D. Gorecki, E.N. Steadman, and J.A.

Harju University of North Dakota, USA

Geochemical Modeling of Huff 'N' Puff Oil Recovery with CO₂ at the Northwest McGregor Oil Field

4:15 D. Burns

Green Joule Energy Ltd, CANADA

Enhanced Oil Recovery Project: Dunvegan C Pool



End of the Day

AGIS2010 Posters

1. K.A.G. Schmidt, F.-Y. Jou, and A.E. Mather

University of Alberta, CANADA

The Solubility of Methane in Propylene Carbonate

2. J.J. Carroll

Gas Liquids Engineering, CANADA

The Next Generation Sour Gas Plants. How to Deal With the Acid Gas?

3. Y. Wu

Sphere Technology Connection, CANADA

The Future Potential of CO₂ EOR in China

4. W. Zhu, Y. Ju, Y. Long, and J. Liu

University of Science Technology Beijing, CHINA

Porous Flow Mathematical Models of Multiphase Complex Flow with Sulfur Deposition

5. D. Zhong¹ and X. Zhang²

1. China University of Petroleum, CHINA

2. PetroChina, CHINA

Characteristics and Formation Mechanism of Permian Shanxi Tight Gas Reservoir of Changbei Gas Field, Ordos Basin

6. X. Yang, C.-Y. Sun, X.-L. Tang, B.-Z. Peng, and G.-J. Chen

China University of Petroleum, CHINA

Phase Behavior of China Reservoir Oil at Different CO₂ Injected Concentrations

7. D. Zeng^{1,2}, Y. Lin¹, L. Huang¹, D. Zhu², T. Gu¹, and T. Shi²

1. Southwest Petroleum University, CHINA

2. Southwest Oil and Gas Field Company, CHINA

Anticorrosion Performance Research of L245/825 Welding Gap of Clad Pipe in H₂S + CO₂ Environment

8. Y. Sun^{1,2}, Y. Lin², T. Shi², P. Liao³, X. Shen³, H. Liu¹, and H. Zhao¹

1. CCDC, CHINA,

2. Southwest Petroleum University and

3. Southwest Oil & Gas Co, CHINA

Casing Selection and Design for Ultra-Deep, Ultra- High Pressure, High H₂S Gas Wells with Plastic Creep Formation

9. Y. Hu¹, L. Huang¹, Y. Hu², Q. Li², M. Hao¹, and S. Yang¹

1. CNPC, China Petroleum Exploration and Development Research Institute, CHINA

2. China University of Geosciences, CHINA

CO₂ flooding as an EOR Method for Low Permeable Reservoirs

10. H. Zhu, Y. Lin, K. Wang, L. Hu, and H. Fu

Southwest Petroleum University, CHINA

Coupled Mathematical Model of Gas Migration in Cemented Annulus with Mud Column in Acid Gas Well

