2007 Eastern Section, American Association of Petroleum Geologists Annual Meeting
36th Annual Meeting

September 16–18, 2007
Hyatt Regency Lexington and Lexington Center
Lexington, Kentucky

Sponsored by
Eastern Section, American Association of Petroleum Geologists
Kentucky Society of Professional Geologists
Kentucky Geological Survey
Department of Earth and Environmental Sciences, University of Kentucky

Final Announcement

Meeting Web Site: www.esaapg07.org

Kentucky Geological Survey
UNIVERSITY OF KENTUCKY

KENTUCKY
SOCIETY
OF
PROFESSIONAL
GEOLOGISTS
Welcome!

We invite you to join us in Lexington, Ky., for the 36th Eastern Section AAPG annual meeting, September 16–18, 2007. The Bluegrass Region’s central location and scenic geology provide a perfect setting for discussing energy issues in the Appalachian, Illinois, and Michigan Basins. Our meeting theme, Winning the Energy Trifecta, reflects the challenges we face exploring for, developing, and utilizing energy resources in an environmentally sustainable way. The Lexington organizing committee has planned technical sessions, workshops, and field trips to address these three major areas of energy industry activity.

Since we last met in Lexington 10 years ago, we have a beautiful new meeting space in the Lexington Center. Exhibits, posters, and oral sessions will all be together in the same area, adjacent to the Hyatt Regency lobby. We have an outstanding technical program with 90 oral and poster presentations. Exhibitors and attendees alike will benefit from the Exhibitor’s Showcase, a session during the meeting that will allow our exhibitors to present longer demonstrations to a larger audience. The Opening Session on Sunday afternoon will feature representatives from the various divisions of AAPG, and will include addresses by Will Green, president of AAPG, and national officer candidates. The Eastern Section Awards Ceremony will follow the Opening Session to recognize outstanding contributions to the Section.

We have emphasized unconventional natural gas resources in the technical program, with sessions on Devonian black shales and coalbed methane, and an unconventional reservoir analysis workshop. In addition, our Devonian Shalebration will run throughout the meeting. This self-guided core workshop will feature Devonian-Mississippian organic-rich shale cores from the Appalachian, Illinois, and Michigan Basins. New carbon sequestration research will be presented in two DEG sessions. The DPA is sponsoring a special session on geology and public policy, where we can consider the impact our work has on others.

In addition to the unconventional reservoir workshop, there will be four other workshops. These include hands-on software training, CO₂ enhanced oil recovery, and a 1-hour ethics course over lunch. Five field trips round out the technical program. A pre-meeting trip to Mammoth Cave National Park and related karst features will include oil and gas resources in the area. Another pre-meeting trip designed for K-12 teachers will cover the Falls of the Ohio. A trip by canoe through the Kentucky River Palisades offers a spectacular look at the Ordovician High Bridge Group (Black River equivalent). After the meeting, a coal geology trip will focus on fresh new outcrops in roadcuts on Ky. 15 in the eastern part of the state, and a trip to Shakertown will include a boat cruise on the Kentucky River.

Lexington is always popular with guests, and two trips to interesting and beautiful areas are planned as part of the guest activities program. In addition to the traditional icebreaker reception on Sunday evening, we are planning a night of live harness racing at the Red Mile, complete with buffet dinner. If you didn’t know what a trifecta was before, you will after this evening! The meeting hotel is the Hyatt Regency Lexington, centrally located downtown. Shops and restaurants are also conveniently located below the meeting venue in the Lexington Center. We hope that you’ll find this year’s program educational, challenging, and stimulating. Please help us make the meeting a success by joining us in the Bluegrass!

Officers

Eastern Section, American Association of Petroleum Geologists

President: Jim Drahovzal
Vice President: Dan Billman
Secretary: Bob Jacobi
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Sponsors
We express our gratitude and appreciation to the following companies and organizations for their generous sponsorship and support. The sponsor list is current as of June 15, 2007. There is still time to sponsor the meeting. Several recognition levels are available. We have a special opportunity to sponsor the Monday evening racing event and have a horse race named for your company. Please see the meeting Web site for more details, or contact Mike Sanders at msasjs@aol.com, (859) 266-6546, or Gil Cumbee at gcumbee@spadecorp.com, (502) 867-9002.

Platinum Level
Chesapeake Energy Corporation
Kentucky Governor’s Office of Energy Policy

Gold Level
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Silver Level
Cumberland Valley Resources
WesternGECO (Houston)
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Bronze Level
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Calendar of Events
Saturday, September 15, 2007
7:30 a.m.–7:30 p.m. Field Trip 1: Geology of the Mammoth Cave and Nolin River Gorge Region with Emphasis on Hydrocarbon and Karst Resources
8:00 a.m.–5:00 p.m. Field Trip 2: Geology of the Falls of the Ohio
9:00 a.m.–1:00 p.m. Workshop 1 a.m.: PETRA® Software Training, introductory and advanced sessions
2:00–5:00 p.m. Workshop 1 p.m.: PETRA® Software Training, advanced session only
6:00–8:00 p.m. Student Job Quest reception, Hyatt Regency Chicago–San Francisco rooms

Sunday, September 16, 2007
8:00 a.m.–5:00 p.m. Field Trip 3: Kentucky River Palisades Canoe Trip
8:00 a.m.–5:00 p.m. Workshop 2: EOR and the Expanding World of Carbon Dioxide Flooding, Hyatt Regency Washington–San Francisco
8:00 a.m.–2:00 p.m. Student Job Quest interviews, Hyatt Regency Chicago, Mary Todd Lincoln, and Henry Clay
7:30 a.m.–2:00 p.m. AAPP Executive Committee meeting, Hyatt Regency Atlanta
12:00 noon–5:00 p.m. Exhibitor setup, Lexington Center Thoroughbred prefunction area
2:00–5:00 p.m. Devonian Shalebration, core layout/setup, Hyatt Regency Ballroom Center
3:00–4:30 p.m. Opening Session, Lexington Center Thoroughbred 1
4:30–6:00 p.m. Eastern Section AAPG Awards Ceremony
6:30–8:30 p.m. Icebreaker reception, Lexington Center Thoroughbred prefunction area

Monday, September 17, 2007
7:00–8:00 a.m. Presenters’ and Judges’ Breakfast, Hyatt Regency Ballroom West
7:00–8:30 a.m. House of Delegates Breakfast (by invitation), Hyatt Regency Atlanta
7:30 a.m.–5:00 p.m. Presentation Center and Judges’ Room open, Lexington Center Thoroughbred 5
8:00 a.m.–12:00 p.m. Technical Session 1: Oil and Gas Geology: Eastern North America, Lexington Center Thoroughbred 1
8:00 a.m.–12:00 noon Technical Session 2: Carbon Sequestration Demonstration and Evaluation in the Eastern United States (DEG), Lexington Center Thoroughbred 2
8:00 a.m.–12:00 noon Technical Session 3: Tectonics and Sedimentation, Lexington Center Thoroughbred 3
8:00 a.m.–5:00 p.m. Poster Session 1: Oil and Gas, Carboniferous Geology, Coal and Tar Sands (EMD), Lexington Center Thoroughbred 6–7
8:00 a.m.–5:00 p.m. Exhibit Hall, Lexington Center Thoroughbred prefunction area
8:00 a.m.–5:00 p.m. Devonian Shalebration, core workshop, Hyatt Regency Ballroom Center
8:00 a.m.–5:00 p.m. Spouse Hospitality Room, Mary Todd Lincoln Boardroom
12:00 noon–2:00 p.m. Eastern Section AAPG Executive Council Meeting (by invitation), Hyatt Regency Atlanta–Chicago
12:00 noon–1:30 p.m. Workshop 3: Ethical Conduct and Your Professional Career: The AAPG Code of Ethics (DPA workshop, ticketed), Hyatt Regency San Francisco–Washington
Tuesday, September 18, 2007
7:00–8:00 a.m. Presenters’ and Judges’ Breakfast, Hyatt Regency Ballroom West
7:00–8:00 a.m. Eastern Section Committee on Section Meetings Breakfast (by invitation), Hyatt Chicago
7:30 a.m.–5:00 p.m. Presentation Center and Judges’ Room open, Lexington Center Thoroughbred 5
8:00 a.m.–12:00 noon Technical Session 7: Black Shale: Geology, Geochemistry, and Resources, Lexington Center Thoroughbred 1
8:00 a.m.–12:00 noon Technical Session 8: Geologic Sequestration Technology and Policy (DEG), Lexington Center Thoroughbred 2
8:00 a.m.–12:00 noon Exhibitor Showcase, Lexington Center Thoroughbred 3
8:00 a.m.–5:00 p.m. Poster Session 2: Carbon Sequestration (DEG), and Tectonics and Sedimentation, Thoroughbred 6-7
8:00 a.m.–1:30 p.m. Devonian Shalebration, core workshop, Hyatt Regency Ballroom Center
8:00 a.m.–5:00 p.m. Spouse Hospitality Room, Lincoln Boardroom
8:00 a.m.–4:00 p.m. Exhibit Hall, Lexington Center Thoroughbred prefunction area
12:00 noon–1:30 p.m. DPA-DEG-EMD Luncheon (ticketed), Hyatt Regency Ballroom West
1:30–5:30 p.m. Technical Session 9: Oil and Gas Business and Enhanced Recovery, Lexington Center Thoroughbred 1
1:30–4:30 p.m. Technical Session 10: Coalbed Methane (EMD), Lexington Center Thoroughbred 2
1:30–5:00 p.m. Workshop 4: Unconventional Reservoir Analysis Workshop (ticketed), Hyatt Regency Ballroom Center
3:00–8:00 p.m. Field Trip 5: History, Economic Geology, and Geology of the Shakertown Area on the Kentucky River

Wednesday, September 19, 2007
8:00 a.m.–6:00 p.m. Field Trip 4: Coal Geology along Ky. 15
8:00 a.m.–5:00 p.m. Workshop 5: GeoGraphix® Advanced Mapping Workshop

Judging
WE NEED YOUR HELP! Your participation in judging papers and posters for the 2007 Eastern Section AAPG meeting is encouraged. This important function will determine winners of Eastern Section awards: (1) the A.I. Levorsen Memorial Award for Best Oral Presentation; (2) the Margaret Hawn Mirabile Memorial Award for Best Student Presentation; (3) the Vincent E. Nelson Memorial Award for Best Poster Presentation; (4) the Energy Minerals Division Awards for Best Oral and Poster Presentations; (5) the Division of Environmental Geosciences Awards for Best Oral and Poster Presentations; and the (6) Best Student Poster Award. Your effort will consist of judging and evaluating one oral or poster session and attending the complimentary judges’ breakfast. To become a part of this year’s judging, contact Patrick Gooding at the Kentucky Geological Survey, University of Kentucky, (859) 389-8810 or gooding@uky.edu, or simply mark your registration form. Thank you.

Exhibits
Exhibits by over 30 different companies and government agencies are planned for the 2007 meeting. The exhibits will be located in the newly remodeled prefunction area outside of the Thoroughbred session rooms in the Lexington Center. The icebreaker will be held there on Sunday evening, and the oral and poster papers will be presented there on Monday and Tuesday. Also on Monday and Tuesday, morning and afternoon coffee breaks will take place in the exhibit hall. The exhibit area will form the core of the meeting.

New for 2007 is the Exhibitors’ Showcase on Tuesday morning. This will permit interested exhibitors to make a 30-minute presentation or demonstration before a larger audience in one of the technical session rooms.

Exhibit hours are:
Sunday, September 16, 6:00–8:30 p.m.
Monday, September 17, 8:00 a.m.–5:00 p.m.
Tuesday, September 18, 8:00 a.m.–4:00 p.m.

Companies interested in exhibiting at this year’s meeting should contact Dan Wells at (859) 523-3892, d.wells@insightbb.com, or Geaunita Caylor at (859) 257-2820, gcaylor@engr.uky.edu.
Technical Program

Sunday Afternoon, September 16, 3:00–6:00 p.m.

Opening Session, 3:00–4:30 p.m., Lexington Center Thoroughbred 1
Presiding: James A. Drahovzal, President, Eastern Section
  James A. Drahovzal, President, Eastern Section AAPG
  David Harris, General Chair
  Andrew Wulff, President, Kentucky Society of Professional Geologists
  Will Green, AAPG President
  Tom Ewing, DPA President
  Doug Patchen, EMD President
  Charles Groat, DEG President
  AAPG officer candidates

Awards Ceremony, 4:30–6:00 p.m., Lexington Center Thoroughbred 1
Presiding: Lee Avary
  Energy Minerals Division Best Poster Award
  Ralph L. Miller Memorial Best EMD Paper Award
  Division of Environmental Geosciences Best Paper Award
  Vincent E. Nelson Memorial Best Poster Award
  Margaret Hawn Mirabile Memorial Best Student Paper Award
  A.I. Levorsen Memorial Award
  Certificates of Merit
  Division of Environmental Geology (Eastern Section) Meritorious Contributions Award
  Gordon H. Wood Jr. Memorial Award (Eastern Section EMD)
  Outstanding Educator Award
  George V. Cohee Public Service Award
  Distinguished Service Award
  Honorary Membership Award
  John T. Galey Memorial Award
  Galey Memorial Address

Monday Morning Oral Sessions, 8:00 a.m.—12:00 noon

TS1: Oil and Gas Geology: Eastern North America
Thoroughbred 1
Kevin Strunk and Christopher Swezey, Session Chairs

8:30  Characteristics of Hydrocarbon Reservoirs in Paleozoic Rocks in Kentucky, Patrick J. Gooding
9:00  Secondary Porosity Development in the Galena (Trenton) Dolomite of Northern Illinois: Implications for Regional Fluid Flow and Hydrocarbon Accumulation, Dean W. Ekberg, John P. Grube, and Joan E. Crockett
9:30  Provenance of Oil on the Findlay Arch Based on Geochemistry and Basin Modeling (Illinois, Appalachian, and Michigan Basins), Elisabeth L. Rowan, Joseph R. Hatch, Robert T. Ryder, and John E. Repetski
10:00 Break
10:30  Hydrothermal Dolomite (HTD) in the Michigan Basin, USA, David A. Barnes, T.M. Parris, William B. Harrison III, and G. Michael Grammer
11:00  Trenton/Black River Hydrothermal Dolomite Reservoirs in Québec: The Emergence of a New and Highly Promising Play along the St. Lawrence Platform, Robert Thériault
11:30  Carper Sandstone Potential in the Illinois Basin, James Blumthal

TS2: Carbon Sequestration Demonstration and Evaluation in the Eastern United States (DEG Session)
Thoroughbred 2
Tim Carr and Bill Harrison, Session Chairs

8:00  CO2 Sequestration Potential of the North Michigan Silurian Reef Trend, Brian Toelle, Chaoqing Yang, and Tracee Imai
9:00  Facies and Rock Properties for Reservoir and Caprock Intervals in the Midwest Regional Carbon Sequestration Partnership (MRCSP) State-Charlton #4-30 Test Well, Otsego County, Michigan, William B. Harrison III, David A. Barnes, G. Michael Grammer, and Phil Jagucki

10:00  Break


11:00  Testing the Efficacy of CO₂ for Enhanced Oil Recovery in the Illinois Basin: Preliminary Results, Rex Knepp, James R. Damico, Scott M. Frailey, John P. Grube, and Beverly Seyler


TS3: Tectonics and Sedimentation
Thoroughbred 3
William A. Thomas and Frank R. Ettensohn, Session Chairs

8:00  How Far Did the Appalachian Thrusts Move? A Study of the Burning Spring and Pine Mountain Structures, S. Parker Gay Jr.

8:30  Palinspastic Reconstruction around a Recess in the Appalachian Thrust Belt in Georgia, B.S. Cook and W.A. Thomas

9:00  Crosscutting versus Abutting Joints: A Reflection of Overburden-Induced Joint-Normal Stress in Devonian Black Shale, Western New York, Gary G. Lash and Terry Engelder

9:30  Horses, Kentucky Bluegrass, and the Origin of Upper Ordovician, Trenton-Age Carbonate Reservoir and Source Rocks in East-Central United States, Frank R. Ettensohn

10:00  Break

10:30  Preliminary Interpretation of Syn-Rift and Early Post-Rift Stratigraphy on the St. Lawrence Promontory, John S. Allen and William A. Thomas

11:00  Conasauga Mushwad Shale Gas Play in the Appalachian Thrust Belt in Alabama, William A. Thomas

11:30  The Mississippian Floyd Shale in the Black Warrior Foreland Basin, Alabama and Mississippi, Carrie A. Kidd and William A. Thomas

Monday Afternoon Oral Sessions, 1:30–5:30 p.m.

TS4: Black Shale: Production and Drilling in the Eastern United States
Thoroughbred 1
Brandon Nuttall and Harry Rowe, Session Chairs

1:30  Predicting Cumulative Production of Devonian Shale Gas Wells from Early Well Performance Data, Appalachian Basin of Eastern Kentucky, Brandon C. Nuttall

2:00  Shale Plays Revitalize Northeast Gas Activity, David D. Reimers

2:30  Update of New Albany Shale Potential in Illinois, Beverly Seyler and Joan E. Crockett

3:00  Michigan’s Antrim Shale Play—A Two-Decade Template for Successful Devonian Gas Shale Development, Wayne R. Goodman and Timothy R. Maness

3:30  Break

4:00  Geology and Development of Devonian Shale in Eastern Kentucky, Joe Morris and Jim Pancake

4:30  Producing and Potential Shale Gas Reservoirs of the Eastern United States, James L. Coleman, Christopher S. Swezey, Robert C. Milici, and Robert T. Ryder

5:00  Optimization of Hydraulic Fracturing Performance in the Fractured Utica Shale of Northeastern United States, J. Paktinat, Joe Pinkhouse, Jeff Little, Gary G. Lash, and Michael A. Forgione

TS5: Carboniferous Stratigraphy and Geochemistry (EMD Session)
Thoroughbred 2
Josh Hickman and Steve Greb, Session Chairs

1:30  From Clastic to Carbonate Facies: Borden Delta Destruction and Evolution of the Slade Carbonate Platform: Tectonics versus Eustasy, D. Brent Wilhelm and Frank R. Ettensohn

2:00  Sequence Stratigraphy of the Pottsville Formation in Southern Ohio, Ronald L. Martino, Andrew McCormick, and Charles Sorden

2:30  Preliminary Study of a Producing, Late Mississippian, Low-Stand Sand Body at the Base of the Big Lime on and near the Pine Mountain Thrust Sheet in Southeastern Kentucky and Northeastern Tennessee: Relationships to Ouachita Tectonism, Frank R. Ettensohn and Matthew B. Vest

3:00  Palynologic Correlation of Late Middle Pennsylvanian Coal Beds in the Central Appalachian Basin, Cortland F. Eble and Stephen F. Greb

3:30  Mercury in the Coals and Fly Ashes from Bulgarian Power Plants, James C. Hower, Irena J. Kostova, Maria N. Marks, and Daniel J. Hedges
TS6: Geology and Public Policy (DPA Session)
Thoroughbred 3
Don Juckett and John Kiefer, Session Chairs
1:30  AAPG Invades Washington—What the Headlines Don’t Tell You, Don Juckett
2:00  Talking about Earth to Policy Makers: The Real Big Picture, Linda Rowen
2:30  Using a Field Experience to Communicate Natural Resource Issues to Policy Makers: The Kansas Field Conference, Robert S. Sawin, Rex C. Buchanan, and Shane A. Lyle
3:00  Geology and Public Policy at Local and State Levels, John Kiefer
3:30  Break
4:00  Science Policy from the Senate Perspective, Allyssoon Anderson
4:30  You’ve Won Your Energy Trifecta—Now for Some Thoughts on Keeping Your Winnings, Rick Derry
5:00  Discussion

Monday Poster Sessions, 8:00 a.m.–5:30 p.m.

Oil and Gas
1.  Reprocessing the United States Magnetic Anomaly Map Using the Comprehensive Model, Adam Shaw, Joseph Batir, Matthew McIndoo, Dhananjay Ravat, Peter Milligan, Thomas G. Hildenbrand, Robert Kucks, and Patricia Hill
2.  Aeromagnetic Gradient Anomalies Help Locate New Oil and Gas Reservoirs, Harold Robert Beaver
7.  Residence Time of Light Alkanes in Soils, Daniel H. Vice and Philip M. Halleck
9.  Geophysical Signature within the Northern Nile Delta, Egypt, Ahmad Muhammad Sobhy Helaly

Carboniferous Geology, Coal, and Tar Sands (EMD Session)
10.  Revisiting Some Carboniferous Stratigraphic Correlations in Ohio, Ernie R. Slucher
13.  Geology of the Kyrock and Nolin River Gorge Region, Edmonson County, Kentucky, Kenneth W. Kuehn and Michael T. May

Tuesday Morning Oral Sessions, 8:00 a.m.–12:00 noon

TS7: Black Shale: Geology, Geochemistry, and Resources
Thoroughbred 1
Brandon Nuttall and Harry Rowe, Session Chairs
8:00  Organic Matter Preservation in Devonian-Mississippian Marine Black Shales of Central Kentucky (U.S.A.), Susan M. Rimmer and Harold D. Rowe
8:30  Production History and Reservoir Characteristics of the Antrim Shale Gas Play, Michigan Basin, William B. Harrison III
9:00  Update on Regional Assessment of Gas Potential in the Devonian Marcellus and Ordovician Utica Shales of New York, Richard Nyahay, James Leone, Langhorne B. Smith, J.P. Martin, and D.J. Jarvie
9:30  Geochemical Constraints on the Origin and Volume of Shale Gases in the Eastern Illinois Basin, Dariusz Strapoć, Maria Mastalerz, Arndt Schimmelmann, and John Rupp
10:00  Break
10:30  Fluid and Gas Geochemistry of Organic-Rich Shales in the Appalachian Basin, Stephen Osborn and Jennifer McIntosh
11:00  Appalachian Devonian Gas Isotopes Suggest Lower Maturity Plays than in the Fort Worth Basin Barnett Play, Jackie Reed, John Zumberge, and Stephen Brown
11:30  Dropstones, Glaciation, and Black Shales: New Inferences on Black-Shale Origins from the Upper Ohio Shale in Northeastern Kentucky, Frank R. Ettenson, Thomas R. Lierman, and Charles E. Mason

TS8: Geologic Sequestration Technology and Policy (DEG Session)
Thoroughbred 2
Tim Carr and Bill Harrison, Session Chairs
8:00  Reducing Methane Emissions and Improving Profits in Upstream Oil and Gas, James E. Rice and Donald Robinson
8:30  Climate Change and Carbon Sequestration Programs in New York, John P. Martin and Amanda Stevens
9:00  Flow in Porous Media: Experiments and Simulations with Application to CO₂ Sequestration, Dustin Crandall, Goodarz Ahmadi, and Duane H. Smith
9:30  Experimental Determination of Reaction Rates and Modeling of the Long-Term Fate of CO₂ in Deep Geological Formations, Peng Lu, Qi Fu, William E. Seyfried Jr., Brian R. Strazisar, Sheila W. Hedges, Zuoping Zheng, and Chen Zhu
10:00 Break
10:30  Simulation of Sparging in Connection with Leakage of Sequestered Carbon Dioxide, E. Gessner, G. Ahmadi, G. Brohmal, and D. Smith
11:00  A New Application of Low Altitude Airborne Multispectral Mapping of Rock Microfractures and Joint Systems to Maximize Conventional and Unconventional Hydrocarbon Production, and Related Sequestration Injection of Carbon Dioxide, Bruce R. Moore
11:30  Petrologic and Petrophysical Evaluation of the Lockport Dolomite (Middle Silurian) for Geological Sequestration of CO₂ in the Central Appalachian Basin, Christopher D. Laughrey, Jaime Kostelnik, Kristin M. Carter, and John A. Harper

Exhibitor Showcase
Thoroughbred 3
Dan Wells, Session Chair
Companies to be announced

Tuesday Afternoon Oral Sessions, 1:30–5:30 p.m.

TS9: Oil and Gas Business and Enhanced Recovery
Thoroughbred 1
Kevin Strunk and Christopher Swezey, Session Chairs
1:30  Asset Protection in a Politicized Environment: Drilling and Production in the 21st Century, James H. Viellenave and David Seneshen
2:00  Recent Appalachian Basin Mergers and Acquisitions—2007, Tim Knobloch and Benjamin Thomas
3:00 Break
3:30  Examining Stimulation Options in Light of Big Lime Geological Characterization, B.J. Davis
4:00  Reservoir Analysis of the Cypress Sandstone (Chesterian) for Enhanced Oil Recovery and Carbon Sequestration, Henderson County, Kentucky, Kathryn G. Takacs and T.M. Parris
4:30  Soil Gas Hydrocarbons: A Dual Purpose Geochemistry that Locates REDOX Cells and Identifies Specific Organic Signatures in Petroleum Exploration, Dale A. Sutherland

TS10: Coalbed Methane (EMD Session)
Thoroughbred 2
Josh Hickman and Steve Greb
1:30  Carbon Sequestration, CBM, and Coal-to-Liquids Conversion in Appalachia: Critical Need for Understanding Unmineable and Deep Coal Resources, Stephen F. Greb, Cortland F. Eble, and Gerald A. Weisenfluh
2:00  Hydrodynamic Control of Coalbed Methane Reservoir Performance in the Black Warrior Basin, Jack C. Pashin
2:30  CBM Gas Composition Trends—Central and Northern Appalachian Basin, Michael G. McClure and Matthew W. Frost
3:00 Break
3:30  Evaluation of Coalbed Methane Potential and Gas Adsorption Capacity in the Western Kentucky Coalfield, Sarah M. Mardon, Kathryn G. Takacs, Cortland F. Eble, James C. Hower, and Maria Mastalerz
4:00  Compound-Specific Carbon and Hydrogen Stable Isotope Ratios of Coalbed Gases in Southeastern Illinois Basin, Dariusz Strapoń, Maria Mastalerz, Cortland Eble, Arndt Schimmelmann, and John Rupp
Tuesday Poster Sessions, 8:00 a.m.–5:30 p.m., Thoroughbred 6-7

**Carbon Sequestration (DEG)**

1. **Thickness and Extent of Saline Cambrian Reservoirs in the Ohio Region Is Controlled, in Part, by the Underpinning Precambrian Complex and Paleotopography,** Mark T. Baranoski


3. **Enhanced Oil Recovery (EOR) and Geological Carbon Sequestration (GCS) Potential in the Middle Devonian Richfield Member of the Detroit River Group, Michigan Basin, USA,** Amanda Wahr and David A. Barnes

4. **Petrology and Petrophysics of Middle Devonian/Middle Silurian Potential CO\textsubscript{2} Sequestration Reservoirs in the Central Appalachian Basin,** Christopher D. Laughrey, Jaime Kostelnik, Kristin M. Carter, and John A. Harper

5. **Use of Digital Log Analysis to Evaluate the Heiderberg Group as a Confining Layer for CO\textsubscript{2} Sequestration,** J. Eric Lewis, Ronald R. McDowell, Katharine L. Avary, and Kristin M. Carter


**Tectonics and Sedimentation**

7. **Middle Ordovician Carbonates of Central Kentucky,** Patrick J. Gooding and Robert R. Daniel

8. **Silurian Shelf Sequences, Wabash Platform, Mid-Continent North America: Records of Global Climate Change,** J. Fred Read and Alison Spengler

9. **Late Middle Devonian Tectonic Activation of the Appalachian Basin, Western New York and Northwestern Pennsylvania,** Gary G. Lash

10. **Sequence Framework of Mississippian Carbonates, Kentucky, West Virginia, and Virginia, U.S.A.,** Thomas C. Wynn, Aus Al-Tawil, and J. Fred Read

11. **Log-Derived Lithostratigraphy and Digital Mapping of Ste. Genevieve Oolite Bodies at Owensville North Consolidated Field, Gibson County, Indiana,** Katy J.G. Swan and Brian D. Keith

12. **Seismic and Sedimentary Facies Distribution of the St. Bernard Lobe, Mississippi Delta,** D. Brent Wilhelm and Paul Howell


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**Field Trips**

All field trips leave from and return to the Hyatt Regency Lexington (conference center). Professional development credits will be awarded for field trips. **All trips require preregistration and meeting registration.** If you have questions about field trips, please contact the field trip coordinator, Stephen Greb, at greb@uky.edu, (859) 257-5500, ext. 136, or the field trip leaders.

**Premeeting, Saturday, September 15**

**Field Trip 1. Geology of the Mammoth Cave and Nolin River Gorge Region with Emphasis on Hydrocarbon and Karst Resources (KSPG Annual Field Conference)**

**Trip Leaders:** Michael May and Ken Kuehn, Western Kentucky University, michael.may@wku.edu, kenneth.kuehn@wku.edu

**Cost:** $75

**Depart:** 7:30 a.m., **return:** 7:30 p.m.

**Transportation, lunch, dinner, and a guidebook provided**

Mammoth Cave, the world’s longest cave, is a 2½ hour drive from Lexington. The cave is a national park, world heritage site, and an international biosphere reserve. The field trip includes a cave tour, examination of the regional surface geology, and the hydrocarbon resources associated with Mississippian and Pennsylvanian strata in the region. This trip is co-sponsored by the Kentucky Society of Professional Geologists and will have dual duty as the fall field trip for the Society.

In addition to visiting Mammoth Cave, we will drive past the Arthur Oil Field near the southwestern edge of the national park and then northwest to investigate the Mississippian-Pennsylvanian unconformity at the Nolin Reservoir Dam. Significant relief (exceeding 50 meters) is associated with the unconformity in the Brownsville Paleovalley at the Nolin Dam. Both basal Pennsylvanian and Mississippian sandstones visible in the gorge of the Nolin...
River near the reservoir have been exploited as tar sands, and some seeps will be visible in the spillway cuts. From the reservoir, we
will travel to the old asphalt mining town of Kyrock, Ky., located near the Nolin River. In Kyrock we will see abandoned quarries that
contain conglomeratic and asphaltic sandstones and we will investigate the colorful history of asphalt mining in the region, including a
tour of the former Kyrock mining engineer’s 1920s home. There is renewed interest in heavy oil and asphalt resources, which will be
discussed on the trip.

The temperature in the cave stays between 12.7° and 18°C, so visitors are encouraged to carry light jackets. Also, because the cave
floors and stairs can be slick and wet, visitors should wear durable, flat-soled footwear that offers good traction. The walk into and out
of the cave is relatively easy on paved trails. Other stops at Nolin Reservoir and Kyrock are easy walks. Climbing will not be required,
and most walking will be at the edge of paved or gravel surfaces.

Field Trip 2. Geology of the Falls of the Ohio
K-12 teacher field trip and workshop (open to all meeting attendees)
Trip Leader: Stephen Greb, Kentucky Geological Survey, greb@uky.edu, (859) 257-5500, ext. 136
Cost: $45
Depart: 8:00 a.m., return: 5:00 p.m.
Transportation, lunch, interpretive center fees, workshop, and a guidebook will be
This trip is planned for K-12 educators, but geologists will also enjoy the fossil
to attend. From Lexington we will travel an hour
to Clarksville, Ind., and the famous Falls of the Ohio. The day will begin
with an educational workshop concerning how fossils form and the geology
and paleontology of the Falls of the Ohio. This will be followed by a tour of the
visitors center and lunch. We’re fortunate because the Eastern Section AAPG
meeting corresponds with the park’s annual Fossil Festival, which includes vendors
(of rocks, minerals, fossils, and jewelry), speakers, and other activities. Trip
participants will have time during lunch to browse the festival.

After lunch we’ll have a field trip on the fossil beds. Thousands of fossil corals are
visible in the Devonian Jeffersonville Limestone bedrock. The length and duration
of the field trip will depend on river level. When the river is high, less of the fossil
beds is exposed. When the river is low, vast expanses of fossil-bearing rock are
exposed. There is no fossil collecting at the Falls, but if time allows we will stop at nearby locations where fossils can be collected.

Participants should dress comfortably for walking. If it’s a sunny day, bring sunscreen, sunglasses, and a hat, as the sun tends to reflect
off the bedrock. Bring shoes that offer good traction and can get wet, because the bedrock along the river can be slippery when wet,
and, depending on water level, there may be areas where you want to wade.

For more information on the Falls of the Ohio: www.fallsoftheohio.org. For information on the 2007 Fossil Festival:
www.fallsoftheohio.org/fossil_festival.shtml

Sunday, September 16
Field Trip 3. Kentucky River Palisades Canoe Trip
Trip Leaders: John Hickman and Bethany Overfield, Kentucky Geological Survey,
jhickman@uky.edu, boverfield@uky.edu
Cost: $75
Depart: 8:00 a.m., return: 5:00 p.m.
Transportation, canoe rental, lunch, and a guidebook will be provided
Limit: 20 people

Within the Inner Bluegrass Region of Kentucky, the rapid vertical incision of the
Kentucky River and its major tributaries during the Pleistocene created a series of
limestone cliffs, locally known as The Palisades. The Palisades offer scenic exposures
of the Middle Ordovician Lexington and High Bridge Group limestones (Trenton and
Black River equivalents, respectively). The only way to see many of these exposures is
from the water.

The field trip will leave from the Hyatt Regency and travel the short distance to the
Kentucky River near Boonesborough, Ky. Along the way, we’ll stop to view the
Kentucky River Fault. Then we’ll drive down to river level and start the canoe trip.
On the water, we’ll see multiple exposures of the Middle Ordovician Camp Nelson Limestone of the High Bridge Group (Black River equivalent). Bounding faults of the Elk Lick Creek Graben are also exposed. The first half of this approximately 7-mile canoe trip will focus on the Camp Nelson Limestone, while the second half will be primarily a scenic paddle highlighting central Kentucky flora and fauna. Our lunch stop will be at Hall’s on the River, a well-known restaurant on the banks of the Kentucky. If time allows, we’ll stop at the type section of the Upper Ordovician Clays Ferry Formation on the trip back to the Hyatt Regency.

Because of the physical exertion inherent in canoeing, this field trip may be strenuous, but will involve no whitewater. Limited bathroom stops will be available because of the remote location, although there will be facilities at the lunch stop. If it’s a sunny day, bring sunscreen, sunglasses, and a hat. Inclement weather is also possible, so dress/prepare accordingly. Participants assume liability for all equipment (cameras, cell phones, etc.) they bring with them in the canoes.

Post-Meeting: Wednesday, September 19

Field Trip 4. Coal Geology along Ky. 15
Trip Leaders: Stephen Greb and Cortland Eble, Kentucky Geological Survey, greb@uky.edu, eble@uky.edu
Cost: $45
Depart: 8:00 a.m., return: 6:00 p.m.
Transportation, lunch, and a guidebook will be provided.
Limit: 22 people

New roadcuts along Ky. 15 near Jackson, approximately 1½ hours east of Lexington, provide excellent exposures of upper Lower and lower Middle Pennsylvanian strata on the western margin of the central Appalachian Basin. Controls on coal formation and Pennsylvanian stratigraphy will be investigated, as will facies and sequence-stratigraphic surfaces, including examples of marine flooding surfaces and scour-based sequence boundaries. If time allows, there will also be an opportunity to examine mountaintop mining and post-mine land uses of mined lands near Hazard, Ky.

Post-Meeting: Tuesday, September 18

Field Trip 5. History, Economic Geology, and Geology of the Shakertown Area on the Kentucky River: Field Trip and Boat Cruise
Trip Leaders: Frank R. Ettensohn, University of Kentucky, f.ettensohn@uky.edu; Warren Anderson, Kentucky Geological Survey, wanderson@uky.edu; Don Pelly, Shaker Village, don@shakervillageky.org
Cost: $85
Depart: 3:00 p.m., return: 8:00 p.m.
Transportation and buffet dinner will be provided.
Limit: minimum 20, maximum 50 people

The trip centers on the history, economic geology, and geology of Shakertown, a former community settled by the Shakers, or Shaking Quakers, in 1806. The Shakers, or Society of Believers, were a religious cult devoted to utopian Christian socialism that came to America in the late 1700s. Through missionary endeavors, mainly on the frontier in the east-central United States, several colonies like this one at Pleasant Hill in central Kentucky were founded, where communal ownership of land, pacifism, shared labor, and common worship could be practiced. They were especially well known for their craft, building, and farming industries, much of which was supported by the unique geological setting of the community, which will be examined on the trip.

As the Shaker community began to decline after the Civil War, the mining of calcite, barite, and fluor spar was developed on properties near Shakertown. The minerals occur in veins or fracture-fill deposits associated with the Lexington and Kentucky River Fault Systems in the Central
Kentucky Mineral District, and much of the trip will be devoted to examining the old mines and understanding the origin of the deposits and the geologic and economic conditions that permitted a short period of intense mining.

The trip will end with a geologic riverboat cruise from Shaker Landing on the Kentucky River, where the origins of the Kentucky River Palisades, a unique central Kentucky landform, will be examined. A buffet dinner will be served on the cruise.

**Workshops**

Professional development credits will be awarded for all workshops. For more information on workshops, please contact Marty Parris, Workshops Chair, mparris@uky.edu or (859) 257-5500 ext. 159.

**Premeeting, Saturday, September 15**

**Workshop 1. PETRA® Geological Software Training**

Instructor: TBA  
Saturday, September 15, 9:00 a.m.–5:00 p.m.  
Morning Session: Computer Training Lab B108, W.T. Young Library  
Afternoon Session: Room 102, Mining and Mineral Resources Building; both at the University of Kentucky  
Cost: Morning session, $50; afternoon session, $25. Register for either or both sessions.  
Includes:  
Morning session (9:00 a.m.–1:00 p.m.): transportation from Hyatt Regency, course notes, lunch, and breaks  
Afternoon session (2:00 p.m.–5:00 p.m.): transportation from Hyatt Regency, course notes, and break  
Limit: 24 participants in the morning, 50 participants in the afternoon  

This workshop, taught by IHS staff, will provide hands-on training for PETRA® geological software, a product of IHS Corp. PETRA® can be used for comprehensive well and production data management and visualization, gridding and contouring of geological surfaces, cross-section display utilizing digital or raster well logs, petrophysical analysis, and production analysis.

The morning session will be a hands-on introduction to PETRA®. The afternoon session will be conducted lecture style and is designed for people in need of more intermediate level training on PETRA®’s capabilities, including topics suggested by PETRA® users who have attended previous classes. Some exercises will use data from the Kentucky Geological Survey’s well database.

**Premeeting, Sunday, September 16**

**Workshop 2. EOR and the Expanding World of Carbon Dioxide Flooding**

Instructors: Steve Melzer, Melzer Consulting; Bernie Miller, Miller Energy Technologies  
Sunday, September 16, 8:00 a.m.–5:00 p.m.  
Hyatt Regency Lexington, Washington–San Francisco  
Cost: $50 (registration through national AAPG)  
Includes: course notes and breaks  
Limit: 50  

This course will provide an overview of the modern-day practices of carbon dioxide enhanced oil recovery (CO₂-EOR). CO₂-EOR is the leading EOR technique for light oils and has grown to 80 active projects worldwide, with an estimated 30 in various planning stages today. New sources of CO₂ are expected to become available around the world as energy demand grows and as concerns over CO₂ emissions from new energy sources require capture of these emissions. Application of CO₂-EOR techniques has been primarily limited in the past by two factors: the lack of nearby CO₂ sources and excessive volatility in oil prices. In this new world environment wherein oil prices are high and CO₂-EOR provides a potential sink for large amounts of captured CO₂, an exciting growth environment should materialize.

Screening of candidate reservoirs will be covered, along with discussion of conventional CO₂ sources used in the past and the coming new era of CO₂ sources. The reservoir attributes of the existing 30-year database of CO₂ floods will be reviewed. Oil recovery from beneath the conventional oil column will be addressed. These intervals of high water content and smaller percentages of oil, called transition or residual oil zones, produce only water on primary or secondary recovery, have become economic CO₂ targets today, and can represent a huge potential resource in many parts of the country. Some of the tools to detect and quantify these residual oil zone targets will be addressed.

The CO₂-EOR experience in the eastern region of the United States has been limited to a few projects because of the lack of high-volume reliable CO₂ sources. However, recent small-scale CO₂-EOR projects have been successful in Kentucky, and some results of these projects will be reviewed. **Registration is through AAPG’s Education Department at www.aapg.org.**
During the Meeting, Monday, September 17

Workshop 3. Ethical Conduct and Your Professional Career: The AAPG Code of Ethics

One-hour course with luncheon
Instructor: Dr. T.E. Ewing, President, AAPG Division of Professional Affairs
Monday, September 17, 12:00 noon–1:30 p.m.
Hyatt Regency Lexington, Washington–San Francisco
Cost: $20 for the first 25 registrants; additional tickets at $30
Includes: lunch, handout
Limit: 50

As members of AAPG, we subscribe to a code of ethics that is supposed to guide our conduct as professional geologists. Where did this code come from, and how does ethical behavior as promoted by AAPG fit into our careers and professional development? In this presentation, Dr. Ewing describes and analyzes the code of ethics, and relates it to our training as geoscientists, our professional growth, and long-term career plans. This course fulfills the 1-hour credit in ethics required for professional registration in various states.

During the Meeting, Tuesday, September 18

Workshop 4. Analysis of Unconventional Reservoirs
Instructor: Jay Terry, Schlumberger
Tuesday, September 18, 1:30–5:00 p.m.
Hyatt Regency Ballroom Center
Cost: $30
Includes: course notes, break
Limit: 25

This course will provide an overview of techniques and tools for evaluating the productivity of unconventional reservoirs in fractured shale gas and coalbed methane plays. Use and analysis of conventional air-suite logs will be covered, as well as dipole sonic and the formation microscanner (FMI). Particular emphasis will be given to developing rules of thumb for analysis of and completions in tight rocks. Depending on time and interest, consideration will also be given to acquiring information in horizontal wellbores.

Post-Meeting, Wednesday, September 19

Workshop 5. GeoGraphix® Advanced Mapping Training
Instructor: Fred Poland, Landmark-GeoGraphix®
Wednesday, September 19, 8:00 a.m.–5:00 p.m.
Computer Training Lab B108, W.T. Young Library, University of Kentucky
Cost: $100
Includes: transportation from Hyatt Regency, course notes, lunch, and breaks
Limit: 24
Prerequisites: Basic familiarity with GESXplorer™ software.

This course covers surface substitution, mapping anisotropic data, mapping unconformities, faulting, integrating well and seismic data, and volumetrics. An overview lecture introduces each topic, followed by in-depth exercises designed to reinforce the practical points of the lesson. GeoAtlas™ software, ZoneManager WellBase™ software, XSection™ software, and Query Builder™ software also are used in conjunction with IsoMap® software to provide students with different methodologies used in surface modeling.

After this course, students should be able to: (1) manually edit contours and create a new grid from them, (2) handle edge effects, clustered and linear data, and gridding artifacts to achieve a more geologically reasonable map, (3) handle multiple depositional environments and geometries in a single map surface, (4) create and modify fault polygons and build faulted surfaces, (5) map unconformity surfaces and subcrop isopachs, (6) use different velocity methods to convert a time surface to a depth surface, (7) model complex geometries for creating a volumetric grid, (8) define volumetric polygons and calculate volumetric quantities, and (9) view multiple surface geometries and renderings in three dimensions.
Special Events

Icebreaker
Sunday, September 16
Lexington Center Thoroughbred prefunction area
6:30–8:30 p.m.

Our meeting begins with the traditional opening icebreaker reception. Take this opportunity to meet old friends and make new contacts. Preview the newest in technology and services in the exhibit hall, and relax with drinks and delicious hors d’oeuvres. DON’T MISS IT.

Devonian Shalebration
We are pleased to announce that the 2007 Eastern Section AAPG meeting will feature the Devonian Shalebration, a special display of Devonian organic-rich shale cores from the Appalachian, Illinois, and Michigan Basins. This core show will be similar to last year’s popular Core Blast at the Buffalo, N.Y., meeting. Cores will be on display during the meeting on Monday and Tuesday, September 17-18, in the Hyatt Regency Ballroom Center. Attendees will be free to examine the cores any time during the meeting. Rather than making formal presentations, core presenters are encouraged to prepare a brief poster and core labels to document the location, key features, and interpretations of the cored interval. This self-guided format worked well last year in Buffalo. Geophysical logs and log interpretations for the cored interval are especially encouraged since they are the data that most of us work with. The idea is to have a look at rocks we do not commonly see, in order to make better exploration decisions.

You are encouraged to loan Devonian shale core for display during the meeting. Display cores can range from completely interpreted intervals to cores with little more than logs and production data. Cores can be shipped to the Kentucky Geological Survey’s Well Sample and Core Library before the meeting, and will be delivered to the Hyatt Regency for the meeting. Return shipping can be arranged. Shipping expenses will be covered by the meeting.

For more information or to participate in the Shalebration, please contact:
Dave Harris, Kentucky Geological Survey, Lexington, dcharris@uky.edu, (859) 257-5500, ext. 175
or
Brandon Nuttall, Kentucky Geological Survey, Lexington, bnuttall@uky.edu, (859) 257-5500, ext. 174

Presenters’ and Judges’ Breakfast
Monday and Tuesday, September 17-18, 7:00–8:00 a.m.
Hyatt Regency West Ballroom

On the day of their paper, presenters in both oral and poster sessions are invited to meet session presiders and learn about the room setup at this complimentary breakfast. Judges will also meet to receive judging material and review assignments and procedures.

AAPG House of Delegates’ Breakfast
Monday, September 17, 7:00–8:00 a.m.
Hyatt Regency Atlanta

The Eastern Section House of Delegates and the Eastern Section Executive Committee will hold a breakfast meeting, hosted by the House of Delegates Chairman (by invitation only).

Eastern Section–AAPG Council Luncheon
Monday, September 17, 12:00 noon–1:30 p.m.
Hyatt Regency Atlanta-Chicago

This meeting will include the announcement of the results of the new officer elections (by invitation only).
A Night of Racing
Monday, September 17
6:00 p.m. until the last race (or until your money runs out!)
Red Mile racetrack; transportation provided
Cost: included in registration

In keeping with our racing theme, we have reserved the clubhouse at the Red Mile, the historic harness racing track just a few blocks from the Hyatt Regency. Enjoy a buffet dinner served by one of Lexington’s best caterers while watching the live races. We will have a cash bar, private betting windows, and even a lesson in handicapping. We will have one of the night’s races named for the meeting, and will award the trophy in the winner’s circle. If you thought drilling wells was risky, just try horse racing!

AAPG-DEG/DPA/EMD Luncheon
Tuesday, September 18, 12:00 noon–1:30 p.m.
Hyatt Regency Ballroom West

Join your colleagues at this combined annual luncheon. A few brief remarks will be made by each division president. Dr. James Cobb, Kentucky State Geologist and director of the Kentucky Geological Survey, will be our luncheon speaker. He will report on a recently completed study by the National Research Council, “The Future of Coal in the U.S.” The luncheon is open to all meeting attendees.

Cost: $15 per person for the first 75 persons; additional tickets available at $25

Guest Activities
Monday, September 17, 2007

Natural Bridge State Resort Park
Depart the Hyatt Regency 8:15 a.m.
Return to the Hyatt Regency by 3:30 p.m.
Cost: $25 per person, with transportation, sky lift tickets, and lunch included

Wear your boots or sturdy sneakers, bring your camera, sketchbooks, or notebooks, and join us for a morning at Natural Bridge State Resort Park in eastern Kentucky’s rugged land of towering cliffs and natural arches. Hike or ride the sky lift to the top of the bridge. The hiking will be slow and easy—lots of time for sketching or photography or just looking. Lunch will be in the park lodge dining room.

Check out their Web site at parks.ky.gov/resortparks/nb.

Tuesday, September 18, 2007

A Morning in the Bluegrass
Depart the Hyatt Regency 9:15 a.m.
Return to the Hyatt Regency 2:00 p.m.
Cost $20 per person with transportation, farm donation, and lunch included

Come with us to visit Old Friends (www.oldfriendsequine.org), a nonprofit rescue/retirement operation at Dream Chase Farm, where champion racehorses enjoy their retirement. Later, we’ll shop and have lunch in the delightful little town of Midway, where trains still run down the middle of Main Street, all in the midst of the rolling Bluegrass country.

Other Events in the Area
Participants may be interested in other events occurring in the Bluegrass Region at about the same time as our meeting. For an up-to-date listing of events, please visit the Lexington Convention and Visitors Bureau Web site at www.visitlex.com. Additional information can be obtained by calling the Lexington Convention and Visitors Bureau at (800) 845-3959.

Child Care
For child care arrangements during the meeting, please contact Geaunita Caylor at (859) 257-2820, gcaylor@engr.uky.edu.
**Registration**

The preregistration deadline is September 1, 2007. Please complete the registration form on the inside back cover of this booklet and mail it with your check or credit card number for all registration fees. Or visit the meeting Web site at www.esaapg07.org and download the registration form as an Adobe Acrobat PDF file. Mail registration forms and payment to:

ES-AAPG annual meeting  
c/o UK Extended Campus Programs  
107 Mining and Mineral Resources Bldg.  
University of Kentucky  
Lexington, KY 40506-0107  
fax (859) 257-2173

If you are paying with a credit card, you may fax your completed registration form to Sue Manley at (859) 257-2173. If you register by fax, please do not send another copy of your registration form by mail. Full payment must accompany registration. Please complete separate registration forms for each professional or student attendee. If you are registering a spouse or guest, be sure to include that person’s preferred name for the badge information. **Speakers and poster presenters must register to attend the meeting.** After the preregistration deadline of September 1, 2007, the late registration fee goes into effect. Cancellations must be made in writing.

If an event is filled to capacity, you will be notified and your name placed on a waiting list.

Questions on registration? Contact John Hickman, Registration Chair, at jhickman@uky.edu, (859) 257-5500 ext. 171.

Your registration packet may be picked up at the registration booth in the Lexington Center exhibit area beginning at 1:00 p.m. on Sunday, September 16, 2007. Registration fees are as follows:

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Registration Hours:  
- Sunday, September 16, 1:00–8:00 p.m.  
- Monday, September 17, 7:30 a.m.–5:00 p.m.  
- Tuesday, September 18, 7:30 a.m.–4:00 p.m.

**Cancellation Policy**

You will receive a refund, less a 15 percent administrative fee, if your cancellation request is received in writing on or before September 7, 2007. Requests for refunds after September 7, 2007, cannot be honored. Substitutions in registrants may be made at any time. Please advise us in advance of any name changes.

**Parking**

Free parking will be provided to all registered meeting participants. The parking lot located on High Street directly across from the Hyatt Regency/Lexington Center must be used. Your parking pass will be provided with registration materials at check-in.

**Hotel Accommodations**

The Hyatt Regency Lexington is the headquarters hotel for the meeting and is located at 400 West Vine Street in downtown Lexington. **Hotel accommodations are not included in the registration fee and are the responsibility of the registrant.** A block of rooms has been reserved at the Hyatt Regency for $99 single or double and $109 triple or quad (plus 6 percent state sales tax and 7.4 percent occupancy tax). If you wish accommodations, please contact the Hyatt Regency at (859) 253-1234 or (800) 233-1234 and ask for the AAPP room block to receive the special rate. **The cutoff date for the room block is August 24, 2007.** Reservations after this date will be accepted on a space-available basis only. The Hyatt has shuttle service to and from Blue Grass Airport, operating from 5:45 a.m. to 12:00 midnight. A courtesy phone is available at the airport.

**Transportation**

Lexington is located at the crossroads of two major Interstate highways, I-64 (east-west) and I-75 (north-south). Blue Grass Airport, served by major national carriers, is a 15 to 20 minute drive to downtown Lexington. Rental cars and taxi services are available at the airport. Louisville’s Standiford Field is approximately 75 miles west of Lexington; the Greater Cincinnati/Northern Kentucky Airport is approximately 75 miles north of Lexington.
Directions to the Lexington Hyatt Regency

I-64 coming from east: Take exit 113 (Paris Pike) and turn right at the end of the ramp. Travel approximately 2.75 miles into downtown Lexington. After crossing Main Street and then Vine Street, the Hyatt Regency/Civic Center is on the right. Turn right at High Street (traffic light near top of hill) and then the first right is the Hyatt Regency entrance.

I-64 coming from west and I-75 coming from north: After I-64 and I-75 have joined, take exit 113 (Paris Pike) and turn right at the end of the ramp. Once on Paris Pike, follow same directions as for I-64 East.

I-75 from south: Take exit 104 (Athens) and turn left at the end of the ramp. Travel approximately 6.5 miles into downtown Lexington. At the traffic light at Broadway turn left. After crossing Vine Street, the Hyatt Regency/Civic Center is on the right. Turn right at High Street (traffic light near top of hill) and the first right is the Hyatt Regency entrance.

From Blue Grass Field: Exit Blue Grass Field onto Man O’ War Boulevard, turning left. Man O’ War Boulevard ends at Versailles Road, which is the next intersection. Turn right. Follow Versailles Road toward town. After approximately 4.5 miles, it will become a one-way street and bend to the right. Versailles Road at this point becomes West Maxwell Street. Move into the left lane and follow West Maxwell to South Broadway (approximately 4 blocks). There is a traffic light at South Broadway. Turn left. At the next traffic light, turn left onto High Street, and the Hyatt Regency is on the right.
Student Job Quest: 
A Geoscience Employment Opportunity

Why should I attend?
If you are looking for a summer internship or for full-time employment, then this is a great opportunity to interview with several companies at one place and time. On Saturday evening, September 15, there will be a reception, poster session, and networking opportunity. On Sunday, September 16, students will have the chance to meet with company representatives. Representatives from major oil and gas corporations will be there. Prizes totaling $850 will be awarded (see below).

How Do I Attend?
By September 5, 2007:

(1) Register for the main meeting (see form below or visit www.esaapg07.org)

(2) Be sure to mark the box on the registration form for the Student Job Quest

(3) Submit your resume in an electronic file format (.doc or .pdf). Maximum us two 8½ x 11 pages.

(4) Submit a one-page abstract if entering the poster contest (see abstract guidelines on the AAPG meeting Web site, www.esaapg07.org). You are not required to present a poster; however, this is an excellent opportunity to showcase yourself and your work for prospective employers!

• Resumes and abstracts will be forwarded to participating companies before the Student Job Quest so tentative interview schedules can be set up.
• Prizes of $500, $250, and $100 will be awarded for first, second, and third places, respectively.
• An abstract book will be provided to each participant free of charge.

How Much Does it Cost?
The cost is $40, which covers BOTH the general Eastern Section AAPG meeting and the Student Job Quest.

Where Do I Send My Resume and Abstract?
Katharine Lee Avary
West Virginia Geological Survey
1 Mont Chateau Road
Morgantown, WV 26508
avary@geosrv.wvnet.edu

Questions: avary@geosrv.wvnet.edu or call (304) 594-2331
2007 Eastern Section Annual Meeting Registration Form

Please print or type

Name: __________________   ______   _____________________________________  Name for badge: __________________

FIRST NAME M.I. LAST NAME

AAPG member   Yes   No  AAPG member #: ________________

Company name: __________________________________________

Address: __________________________________________________________________________________________________

City: _______________________________________ State: _____ Zip: ___________ Country: __________________

Phone: (_____) _____-______ ext _______ Fax: (_____) _____-______ E-mail: ________________________________

Spouse/Guest's name: ___________________________________________  Name for badge: __________________

I volunteer to judge:   Oral   Poster  Either

REGISTRATION FEES

BY SEPT. 1, 2007     AFTER SEPT. 1, 2007

Professional registration, AAPG member $160     $185     $_____________

Professional registration, non-member $185     $200      $_____________

Spouse/guest registration $40       $45       $_____________

Student registration $40       $40       $_____________

Check if attending Student Job Quest

Check if attending Sunday Icebreaker

SPECIAL EVENTS     FEE   Tickets     COST

All Division (EMD-DPA-DEG) Luncheon, ($15 for first 75 persons), Tuesday $15 _____ $_____________

Field trip 1: Geology of the Mammoth Cave/Nolin River Gorge Region, Saturday $75 $_____________

Field trip 2: Falls of the Ohio (50 person limit), Saturday $45 $_____________

Field trip 3: Ordovician Carbonates—Kentucky River Palisades (20 person limit), Sunday $75 $_____________

Field trip 4: Eastern Kentucky Coal Field Geology (22 person limit), Wednesday $45 $_____________

Field trip 5: History, Economic Geology, and Geology of Shakertown Area, Tuesday Eve. $85 $_____________

Workshop 1-a.m.: PETRA® Software Training, Introductory Session (limit of 24), Sat. a.m. $50 $_____________

Workshop 1-p.m.: PETRA® Software Training, Advanced Session (limit of 50), Sat. p.m. $25 $_____________

Workshop 2: CO₂ Enhanced Oil Recovery (50 person limit), Sunday $50 (Register at AAPG Web site) $_____________

Workshop 3: Ethical Conduct and Your Professional Career ($20 for first 25), Monday $20 $_____________

Workshop 4: Unconventional Reservoir Analysis (25 person limit), Tuesday p.m. $30 $_____________

Workshop 5: GeoGraphix® Advanced Mapping (24 person limit), Wednesday $100 $_____________

GUEST ACTIVITIES

Guest Trip 1: Natural Bridge State Resort Park, Monday $25 $_____________

Guest Trip 2: A Morning in the Bluegrass—Dream Chase Farm, Tuesday $20 $_____________

Total amount enclosed: $___________

Registration fee includes admission to all technical and poster sessions, exhibits, ice breaker, and reception. All amounts in U.S. dollars. Payment must accompany registration form. Refunds, less a 15% administrative fee, are available for cancellation requests received in writing by Sept. 7, 2007. NO REFUNDS AFTER SEPTEMBER 7, 2007.

Mail or fax this form and payment information to:

2007 ES-AAPG Registration
c/o Extended Campus Programs
107 Mining & Mineral Resources Bldg.
University of Kentucky
Lexington, KY 40506-0107

e-mail: ESAAPG@gmail.com
fax: 859.257.2173

Questions or need more information? Call us at:
(859) 257-2820

Please make checks payable to: 2007 Eastern Section AAPG Meeting

Credit Card:      Visa     Master Card     Discover     American Express

Name on Card: ________________________________  Card Number: ___________________________

CVV number (security code) _____________________ Expiration Date: __________________________

Signature: _________________________________________________

By registering for the Eastern Section meeting, I release and agree to indemnify the AAPG Eastern Section and the Kentucky Society of Professional Geologists, and the agents, officers, servants, and employees of each, from all liability for any loss, damage, or injury sustained by me while involved in any way with the meeting except that the AAPG Eastern Section and the Kentucky Society of Professional Geologists are not released from such liability to the extent the same is caused by its actual negligence or willful misconduct.

☐ I have carefully read and understand this waiver and release.
Please complete a separate copy for each field trip you are registering for.

I, ____________________________, in consideration of the receipt by me of permission from the American Association of Petroleum Geologists (“AAPG”) Eastern Section to participate in a Field Trip entitled ____________________________, to be conducted on ____________________________, 2007, and sponsored by the AAPG Eastern Section, the receipt of such permission being hereby acknowledged, and being fully aware that the Field Trip may involve hazardous and/or dangerous activities, and/or be in a location in and/or around other hazardous and dangerous conditions, and recognizing and accepting the risks, known and unknown, involved in a Field Trip, hereby release and will indemnify, defend and hold harmless AAPG, the AAPG Eastern Section, the agents, officers, servants, and employees of AAPG, the AAPG Eastern Section, and the leader or leaders of the Field Trip (collectively referred to as “indemnitees”) of and from any and all liabilities, claims, demands, actions, and causes of action whatsoever arising out of or relating to any loss, damage, or injury, including death, as may be sustained by me, and to any loss, damage, or injury to any property of mine, while involved in any way with the Field Trip, including without limitation traveling to and from the site or sites of the Field Trip (whether by air, water, or land transportation) and at and during all stops and layovers during the Field Trip.

This release and indemnity includes without limitation liabilities, claims, demands, actions, and causes of action to or by third parties as well as to or by me. This release and indemnity includes without limitation liabilities, claims, demands, actions, and causes of action arising out of or relating to any loss, damage, or injury caused in any way by the concurrent or contributory negligence of any indemnitee. This release and indemnity includes without limitation liabilities, claims, demands, actions, and causes of action arising out of or relating to any loss, damage, or injury caused in any way by the sole negligence of any indemnitee. Having made all inquiries deemed by me to be appropriate, I hereby voluntarily assume all risks of loss, damage, or injury, including death, as may be sustained by me or any property of mine while involved in any way with the Field Trip.

In the event the release by me of any indemnitee of any liability, claim, demand, action, or cause of action described herein is determined to be invalid or unenforceable, I agree that my total recovery of damages from the indemnitees, or any of them, both actual and punitive, shall be limited to $100.00 or the cost of admission to the Field Trip, whichever is less.

In the event any provision of this Release and Indemnity Agreement is determined to be invalid or unenforceable, all other provisions hereof shall continue to be enforceable and shall be interpreted as though said invalid provision had never been contained herein.

This release shall be binding upon my distributees, heirs, next of kin, executors, administrators, and personal representatives.

IN SIGNING THIS RELEASE AND INDEMNITY AGREEMENT, I HEREBY ACKNOWLEDGE AND REPRESENT THAT I HAVE READ THE FOREGOING RELEASE AND INDEMNITY AGREEMENT, UNDERSTAND IT, AND I HAVE SIGNED IT VOLUNTARILY. I UNDERSTAND AND AGREE THAT I WOULD NOT BE ALLOWED TO PARTICIPATE IN THE FIELD TRIP IF THIS RELEASE AND INDEMNITY AGREEMENT WERE NOT SIGNED AND AGREED TO BY ME, AND THAT THE AGREEMENT BY ME TO THE TERMS AND CONDITIONS OF THIS RELEASE AND INDEMNITY AGREEMENT IS AN ESSENTIAL PART OF THE CONSIDERATION FROM ME FOR ME TO BE ALLOWED TO PARTICIPATE IN THE FIELD TRIP.

Dated: ____________________________

(Signature) _____________________________________________

(Name Printed) ___________________________________________
The 2007 Organizing Committee

General Chair          Dave Harris
Technical Program      Jim Drahovzal
Finance                Tom Sparks
Exhibits               Dan Wells
Sponsorship            Mike Sanders and Gil Cumbee
Field Trips            Steve Greb
Workshops              Marty Parris
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Graphics and Media     Meg Smath and Collie Rulo
Guest Programs         Ann Watson
Student Volunteers Coord.  Dave Moecher and Melissa Dieckmann
Student Job Quest      Lee Avary and Dave Moecher
Meeting Coordinator    Geaunita Caylor

Meeting Web Site: www.esaapg07.org

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Extended Campus Programs
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