



Sedimentary Geology Division

GEOLOGICAL SOCIETY OF AMERICA

Volume 18, Number 2

Fall 2004

Table of Contents:

Message from the Chair	page 1
Denver 2004 Field Trips: Pre-Meeting & Post-Meeting Trips.....	page 2
Short Courses & Workshops	page 5
Topical and Discipline Sessions: Invited & Volunteered Papers.....	page 5
Pardee Keynote Symposia Invited Papers	page 7
New Novel Written by Sedimentary Geology Division Co-Founder	page 8
Earth System Processes 2 (ESP2) 2005 Meeting Announcement	page 8

MESSAGE FROM THE CHAIR

Your Division has been busy over the past few months. At the upcoming GSA Annual Meeting we are sponsoring or co-sponsoring 12 field trips, 1 short course, 1 Pardee Keynote Symposium, and 16 Topical and Discipline Sessions. We have held elections and have determined this year's Laurence L. Sloss and Student Research Grant awardees.

Michael C. Pope was elected as Second Vice-Chair for the upcoming year, and the officer roster will cycle through with Laura Crossey becoming the Chair and Chris Paola moving to First Vice-Chair. I will become Past Chair. If anyone would like to become a Division Officer, please contact any one of the officers and they will forward your name to the Nominating Committee. Because of our system of one year rotations you have a chance to gradually learn about the Division as you move from Second Vice-Chair to First Vice-Chair to Chair, so the overall commitment is not onerous.

The Division's *Laurence L. Sloss* award will be presented to **Dr. James Lee Wilson** during the Division Reception this year. The Call for Nominations is usually in the February issue of *GSA Today* (March 1 deadline for nominations), so please participate by nominating an outstanding colleague.

The **Student Research Grant Award** for the best student proposal will be presented to Isla S. Casteñeda for her research on the sedimentology of Lake Malawi.

GSA Annual Meeting – Sedimentary Geology Division Booth

► ► Stop by the Division's booth in the exhibit hall (tri-sponsored with the Geobiology & Geomicrobiology Division and the Limnogeology Division) to get a schedule of sedimentary sessions, posters, and events during the meeting, pick up a Sedimentary Geology Division sticker for your badge, make a donation for a logo 4-color pen or polished rock slab, and meet like-minded colleagues!

We are also still collecting sedimentary-related books, software, rocks, or other items to distribute (for a donation) at the booth. Please bring your contributions to the booth or send them *now* to Carol de Wet, Dept of Earth and Environment, PO Box 3003, Franklin and Marshall College, Lancaster, PA 17604.

If you would like to help the Division, please sign up to be in the booth for a short stint during the meeting. (If you are interested in someday becoming a Division officer, this is a great opportunity to meet fellow members and learn more about the Division.)

(continued on p. 2)

Message From the Chair (*continued from p. 1*)**Division Reception: Refreshments, Awards and Sedimentary Science**

► ► Everyone is invited! It is not a closed business meeting for Division officers but is first and foremost a venue for ALL of the members to see each other and interact in an informal setting. The meeting is Monday, November 8th, 5:45-7:00 pm, Rm 203, Colorado Convention Center, right after the technical session ends.

We will have wine and hot cheese hors-d'oeuvres, (Boursin Canapes, Baked Brie En Croute, and Spanakopita) as well as coffee, lemonade and ice tea. Optical Apparatus Co., Enviroscan, and SPECTRO Analytical Instruments, Inc. have contributed towards our refreshments this year.

Rick Sarg, President of our sister society, SEPM, will give a brief report on "SEPM Current Status and a Look Ahead"; Howard Harper, Executive Director of SEPM will give an update on the Geoscienceworld aggregate; and Dave Lehman, ExxonMobil (retired) will briefly discuss the job market for geoscience students (good!) and how alumni can reinvest in their former departments along the University of Austin, Texas model.

We will recognize Dr. James Lee Wilson as an outstanding individual who has made significant contributions to the field of sedimentology through the Laurence L. Sloss Award for Sedimentary Geology, and encourage emerging stars with the Student Research Grant award.

We are looking forward to a great meeting in Denver in November and hope to see all of you at the Division events!

DENVER 2004 FIELD TRIPS

Eric Erslev, Dept of Earth Resources at Colorado State University, and Eric Nelson, Dept of Geology and Geological Engineering at Colorado School of Mines. For information about a trip, please contact the field trip leader or Eric Erslev, Dept of Earth Resources, Colorado State University, Ft. Collins, CO 80523; (970) 491-5661; fax 970-491-6307; <erslev@cnr.colostate.edu>.

PRE-MEETING TRIPS

[B = breakfast; L = lunch; R = refreshments; D = dinner; ON = overnight lodging.]

Navajo Sand Sea of Near-Equatorial Pangea: Tropical Westerlies, Slumps, and Giant Stromatolites [401] Tues-Sat, Nov 2 - 6. Co-sponsored by *GSA Sedimentary Geology Division*. David Loope, Dept of Geosciences, Univ of Nebraska, Lincoln, NE 68508; (402) 472-2647; fax (402) 472-4917; <dloope1@unl.edu>; Len Eisenberg; Erik Weiss. Max: 15, min: 10. Cost: \$475. (5L, R, 4ON, vans). Begins and ends in Grand Junction, Colorado.

Upclose and personal, full-day inspection of two spectacular Navajo sandstone outcrops, one on the Utah/Arizona border along the west edge of the Paris Plateau, and the other near the crest of the Waterpocket Fold in Capitol Reef National Park. Emphasis will be on cyclic cross-bedding, trace fossils, giant stromatolites, mass flows and paleo-wind reconstructions.

Geology of the Silvercliff-Rosita Hills Mining District and Spanish Peaks Area [403] Fri and Sat, Nov 5-6. Cosponsored by *GSA Sedimentary Geology Division*. Paul R. Krutak, P. Krutak Geoservices International, PO Box 369, 2118 Main Street, Rye, CO 81069; (719) 489-2282 (phone & fax); <pkrutakgeos@hotmail.com>; John R. Barwin; Marty Horn. Max: 36. Cost: \$185 (2L, 1D, R, 1ON, vans). The first day covers the mining geology of the Silver Cliff-Rosita Hills mining district on the west flank of the Wet Mountains, CO, with visits to the old Geysers, Bull Domingo, and Bassick mines and the BP CO₂ facility at Sheep Mtn. The second day covers the Spanish Peaks intrusives in the Raton Basin and examines the Black Hills and Silver (Dike) Mountain plutons, and two radial dikes (Profile Rock and Devil's Stairway) associated with West Spanish Peak. We will also visit synorogenic fanglomerates at Cordova (Apishapa) Pass and Laramide structures associated with the Culebra Thrust.

Pre-Meeting Field Trips (*continued from p. 2*)

Hyperpycnal Wave-Modified Turbidites of the Pennsylvanian Minturn Formation, North-Central Colorado [404] Fri-Sat, Nov 5-6. Cosponsored by *GSA Sedimentary Geology Division*. Paul M. Myrow, Dept of Geology, Colorado College, Colorado Springs, CO 80903; (719) 389-6789; fax (719) 389-6910, <pmyrow@coloradocollege.edu>; Karen Houck; Charles Kluth; Michael Lamb; Claire Lukens; Jeff Parsons. Max: 36; min: 12. Cost: \$155.

We will examine the spatial and stratigraphic distribution of turbidites in the Pennsylvanian Minturn Formation, north-central Colorado and particle hydrodynamic interpretations. The beds contain evidence for both density-induced flow and storm-generated waves. Successions of sedimentary structures and beds with reverse-to-normal grading indicate deposition from hyperpycnal flows and a direct link to the hydrograph of floods that produced these flows.

A New K-T Boundary in the Denver Basin [406] Sat, Nov 6. Cosponsored by *GSA Sedimentary Geology Division*. Kirk Johnson, Denver Museum of Nature and Science, Denver, CO 80205; (303) 370-6448, fax (303) 331-6492; <kjohnson@dmns.org>; Richard Barclay. Max: 45; min: 12. Cost: \$105. This trip to the plains east of Denver will visit a recently discovered exposure of the Cretaceous-Tertiary boundary. This is the only known surface section in the Denver Basin that preserves the K-T iridium and shocked mineral anomalies. Located on the west side of the Bijou Creek valley on property owned by the Plains Conservation Center, this site has also produced Cretaceous dinosaurs, other vertebrates and plants, and Paleocene mammals, crocodiles, turtles, and plants.

Geological Reconnaissance of Dinosaur Ridge, Red Rocks, and the Front Range of the Rocky Mountains near Morrison, Colorado [411] Sat, Nov 6. Cosponsored by *GSA Geoscience Education Division; GSA Sedimentary Geology Division*. Norbert E. Cygan, Friends of Dinosaur Ridge, Morrison, CO 80456; (303) 697-3466; fax (303) 697-8911; <necygan@aol.com>; T. Caneer; Harald Drewes and other volunteers from Dinosaur Ridge <www.dinoridge.org>. Max: 45; min: 12. Cost: \$90 (IL, bus). *Also offered as a post-meeting trip.* Visit classic dinosaur bones and footprints at Dinosaur Ridge in the vicinity of Morrison, Colorado. Investigate the stratigraphy and depositional systems of the sedimentary rocks in the foothills. Examine the four lava flows at North Table Mountain and discuss the vent area for the flows. Review regional geology from area overlooks. Visit the geologic display at the new Red Rocks visitor center, the Precambrian unconformity located nearby, selected Precambrian outcrops, an oil seep in the Dakota group, and a textbook example of a uranium roll front.

Paleoclimate, Paleohydrology, and Paleoecology of the Morrison Formation in the Front Range of Colorado [414] Sat, Nov 6. Cosponsored by *GSA Sedimentary Geology Division*. Stan Dunagan, Dept of Geology, Geography & Physics, University of Tennessee, Martin, TN 38238; (731) 587-7959; fax (731) 587-1044; <sdunagan@utm.edu>; Christine Turner; Fred Peterson; Tim Demko. Max: 30; min: 10. Cost: \$105 (IL, R, vans). New interpretations of isotopic, sedimentologic, and paleoecologic data from the Morrison Formation suggest that the Front Range foothills area of Colorado was the site of Late Jurassic wetland/lacustrine deposition. Visit Denver-Fort Collins area outcrops; see spectacular lacustrine stromatolite heads, charophyte-bearing mudstone and limestone, and paleosols. A regional paleoclimatic/paleohydrologic framework provides context for the reinterpretation of these distal Morrison deposits.

Paleontology and Volcanic Setting of the Florissant Fossil Beds [415] Sat, Nov 6. Cosponsored by *GSA Sedimentary Geology Division; Paleontological Society*. Herb Meyer, National Park Service, Florissant Fossil Beds National Monument, PO Box 185, Florissant, CO 80816; (719) 748-3253; fax (719) 748-3253; <herb_meyer@nps.gov>; Steven Veatch; Amanda Cook. Max: 36; min: 12. Cost: \$125 (1L, R, bus). The world-renowned site at Florissant preserves late Eocene plants and insects in lake sediments and lahars that formed in close association with nearby volcanism. Includes visits to an outcrop and overlook of the Thirtynine Mile volcanic field, to the petrified forest and visitor center at Florissant Fossil Beds National Monument, and to a site where fossil leaves and insects can be collected.

Pre-Meeting Field Trips (*continued from p. 3*)**Stratigraphy and Paleobiology of Mammoth Sites in the Denver Area [416]** Sat, Nov 6.

Cosponsored by GSA Sedimentary Geology Division. Russ Graham, Director, Earth & Mineral Sciences Museum, Pennsylvania State Univ, University Park, PA 16802; (814) 865-6427; fax (814) 863-7708; Bart Weis; Jim Dixon. Max.: 36; min.: 12. Cost: \$95 (IL, R, vans). We will examine sites in the Denver area where mammoths have been found. The implications of the taxonomy and stratigraphic positions of the finds and how they relate to our understanding of mammoth evolution will be discussed. Associated taxa provide a framework for interpreting the environments these mammoths inhabited.

POST-MEETING TRIPS**Upper Cambrian and Lower Ordovician Stratigraphy of West Texas and Southern New Mexico [418]** Wed-Sat, Nov 10-13.

Cosponsored by GSA Sedimentary Geology Division. John F. Taylor, Geoscience Dept, Indiana University of Pennsylvania, Indiana, PA 15705; (724) 357-4469; fax (724) 357-5700; <jftaylor@iup.edu>; Raymond L. Ethington; James D. Loch; Paul R. Myrow; Robert L. Ripperdan. Max: 20; min: 12. Cost: \$325 (2L, R, 3ON, vans). *Begins and ends in El Paso, Texas.* This trip transects southern New Mexico and western-most Texas to examine variable lithofacies and faunas in the Bliss Formation and El Paso Group. Improved time control from new biostratigraphic (trilobite and conodont) and carbon isotope data improves correlations between ranges and allows evaluation of hypotheses that link faunal changes at uppermost Cambrian and Lower Ordovician stadial boundaries with paleoceanographic events.

Ancient Depositional Environments Control Modern Aquifer Quality: Stratigraphy of Groundwater resources in The Denver Area [419] Thurs, Nov 11.

Cosponsored by GSA Sedimentary Geology Division. Robert G.H. Reynolds, Denver Museum of Nature & Science, Denver, CO 80205; (303) 370-6047; fax (303) 331-6492; <denverbasin@dmns.org>. Max: 22; min: 10. Cost: \$110 (IL, R, vans). We will travel south of Denver to Daniels Park, Castle Rock, and Wildcat Mountain, where we will see the rock record portraying the evolution of the Denver basin. We'll take two half-mile hikes up Castle Rock and Wildcat Mountain to admire the view, see the local rock layers, and discuss aquifer stratigraphy.

Cenozoic Geology and Fossils of the Pawnee Buttes Area, Northeast Colorado [420] Thurs, Nov 11.

Cosponsored by GSA Sedimentary Geology Division and Colorado Scientific Society. Emmett Evanoff, Dept of Geological Sciences, University of Colorado, Boulder, CO 80309; (303) 444-2644 (phone and fax); <emmettevanoff@earthlink.net>. Max: 36; min: 12. Cost: \$85 (IL, R, vans). Northeast Colorado has been the focus of Cenozoic vertebrate paleontologists and stratigraphers since the days of Marsh and Cope. This trip will examine the geology of the Cenozoic record in the vicinity of the Pawnee Buttes, including the Eocene-Oligocene White River Formation and the Miocene Ogallala Group. Ancient valley fills, wind and river deposits, floods of gravel from the Front Range, and the vertebrates associated with these deposits will all be seen and discussed on this trip.

Geological Reconnaissance of Dinosaur Ridge, Red Rocks, and the Front Range of the Rocky Mountains near Morrison, Colorado [422] Thurs, Nov 11.

Cosponsored by GSA Geoscience Education Division; GSA Sedimentary Geology Division. Norbert E. Cygan, Friends of Dinosaur Ridge, Morrison, CO 80456; (303) 697-3466; fax (303) 697-8911; <necygan@aol.com>; T. Caneer; Harald Drewes and other volunteers from Dinosaur Ridge <www.dinoridge.org>. Max: 45; min: 12. Cost: \$90 (IL, bus). *Also offered as a pre-meeting trip.* Visit classic dinosaur bones and footprints at Dinosaur Ridge in the vicinity of Morrison, Colorado. Investigate the stratigraphy and depositional systems of the sedimentary rocks in the foothills. Examine the four lava flows at North Table Mountain and discuss the vent area for the flows. Review regional geology from area overlooks. Visit the geologic display at the new Red Rocks visitor center, the Precambrian unconformity located nearby, selected Precambrian outcrops, an oil seep in the Dakota group, and a textbook example of a uranium roll front.

SHORT COURSES AND WORKSHOPS

GSA Sponsored Professional Development Courses.

GSA short courses will be held immediately before the Annual Meeting and are open to members and nonmembers. If you register for *only* a short course, you must pay a \$40 non-registrant fee in addition to the course fee. This fee may be applied toward the meeting registration fee if you decide to attend the meeting. Preregistration is recommended; on-site registration is an additional \$30.

Continuing Education Unit (CEU) Service.

All courses sponsored by GSA offer CEUs. A CEU is defined as 10 contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction. A contact hour is defined as a typical 60-minute classroom instructional session or its equivalent. Ten instructional hours are required for one CEU.

CANCELLATION DEADLINE: October 7, 2004.

1. Evaporites: A Practical Approach [501] Fri and Sat, Nov 5-6, 8 am – 5 pm, Hyatt Regency Hotel. Cosponsored by *GSA Sedimentary Geology Division*.

Evaporites are responsible for trapping or creating hydrocarbon reservoirs worldwide and are associated with numerous base and precious metal accumulations. Yet the role of evaporates in many studies of these systems is largely ignored. This is no longer the case. John Warren brings more than 20 years of experience in the applied petroleum and mineral sciences into detailed discussion of the role of evaporites as he traces and explains the evaporate-hydro-carbon-metal association from deposition through diagenesis to halokinesis and metamorphism. Throughout, the emphasis is on recognizing and predicting the importance of subsurface dynamics when working in evaporitic terrains. Designed for practicing geologists and geophysicists or anyone holding a bachelor's degree with a specialization in the earth sciences and an interest in evaporates, participants will be shown how techniques of applied sedimentology can be successfully applied to the search and production of hydro-carbons and metals in evaporitic terrains. Participants encouraged to bring a laptop computer to this course.

Faculty: John Warren, University of Brunei Darussalam, Ph.D., Flinders University of South Australia. Limit: 30. Fee: \$365; includes course manual and lunch. CEU: 1.6.

Attention Students: Short Course or Field Trip Subsidies Available

The Division will subsidize a short course *or* a field trip for all students who are valid *GSA Sedimentary Geology Division* members. Students *must pay the full course or trip fee* when registering but will be reimbursed \$100 after the GSA meeting by the Sedimentary Geology Division. To be reimbursed, students must apply by e-mail *before the Annual Meeting* to Paul K. Link, Sedimentary Geology Division Secretary, at <linkpaul@isu.edu>. Students must provide their GSA member number, Social Security number, mailing address, and certify that they are members of the Sedimentary Geology Division. For details about the course, please visit <www.geosociety.org/meetings/2004/cwGSA.htm>.

TOPICAL & DISCIPLINE SESSIONS: INVITED & VOLUNTEERED PAPERS

T40. Hydrogeomorphology, Chemistry, Archaeology, and Evolution of Coastal Plain Depressions and Related Features. *GSA Hydrogeology Division; GSA QG&G Division; GSA Sedimentary Geology Division.* Hydrogeology; Quaternary Geology/Geomorphology; Stratigraphy. C. William Zanner, Univ of Nebraska, Lincoln; Andrew H. Ivester, Univ of West Georgia, Carrollton, GA. ORAL and POSTER

T41. The Gulf of Mexico – Past, Present and Future: Relating Ecology to Geology. *GSA Quaternary Geology and Geomorphology Division; GSA Sedimentary Geology Division.*

Marine/Coastal Science; Environmental Geoscience; Quaternary Geology/Geomorphology. Charles W. Holmes, Center for Coastal Geology, St. Petersburg, FL; John W. Tunnell, Harte Institute for Gulf of Mexico Research, Corpus Christi, TX. ORAL and POSTER

Topical & Discipline Sessions (continued from p. 5)

- T42. Authigenic Minerals in Modern and Ancient Terrestrial Aquatic Environments.** *GSA Limnogeology Division; GSA Sedimentary Geology Division, GSA Geobiology and Geomicrobiology Division.* Limnogeology; Sediments, Carbonates; Sediments, Clastic. Daniel Larsen, Univ of Memphis, Memphis, TN; Daniel Deocampo, California State University, Sacramento, CA. ORAL
- T43. Hydrologic and Paleoclimatic Significance of Nonmarine Microbial Carbonates (Tufas, Microbialites, Stromatolites and Thrombolites).** *GSA Limnogeology Division; GSA Sedimentary Geology Division; GSA Geobiology and Geomicrobiology Division.* Limnogeology; Sediments, Carbonates; Paleoclimatology/Paleo-oceanography. Michael R. Rosen, U.S. Geological Survey, Carson City, NV; Robin Renaut, University of Saskatchewan, Saskatoon, Saskatchewan. ORAL
- T44. Lacustrine Records of Landscape Evolution.** *GSA Limnogeology Division; GSA Quaternary Geology and Geomorphology Division; GSA Sedimentary Geology Division.* Limnogeology; Quaternary Geology/Geomorphology; Sediments, Clastic. Jeffrey T. Pietras, BP Exploration Alaska, Inc., Anchorage, AK; Eric C. Carson, San Jacinto College, Houston, TX; Alan R. Carroll, University of Wisconsin, Madison, WI. ORAL
- T45. Alkaline Evaporative Lakes and Playas: Insights into Microbial Physiology and Mineral Facies in Semiarid Settings.** *GSA Geobiology and Geomicrobiology Division; GSA Limnogeology Division; GSA Sedimentary Geology Division.* Geomicrobiology; Geochemistry, Aqueous; Limnogeology. David Finkelstein, Indiana Univ, Bloomington, IN; Thomas R. Kulp, U.S. Geol Survey, Menlo Park, CA; Lisa M. Pratt, Indiana Univ, Bloomington, IN. ORAL and POSTER
- T46. Biomineralization in Terrestrial Hot Springs: The Preservation of Thermophiles in Past and Present-Day Systems.** *GSA Geobiology and Geomicrobiology Division; GSA Sedimentary Geology Division.* Geomicrobiology; Paleontology/Paleobotany; Geochemistry, Aqueous. Paul A. Schroeder, Univ of Georgia, Athens, GA; Sherry L. Cady, Portland State Univ, Portland, OR. ORAL
- T47. Ocean Chemistry through the Precambrian and Paleozoic.** *GSA Sedimentary Geology Division.* Paleoclimatology/Paleoceanography; Sediments, Carbonates; Geochemistry, Other. Matthew R. Saltzman, The Ohio State University, Columbus, Ohio; Michael C. Pope, Washington State University, Pullman, Wash. ORAL
- T49. Stable Isotopes in Fossils and Paleosols: Records of Late Cenozoic Environmental Change.** *GSA Sedimentary Geology Division.* Geochemistry, Other; Paleoclimatology/Paleoceanography; Paleontology/Paleobotany. Yang Wang, Florida State University and National High Magnetic Field Lab, Tallahassee, FL; Pennilyn Higgins, University of Florida, Gainesville, FL. ORAL
- T50. Marine Hard Substrates: Colonization and Evolution.** *Paleontological Society; GSA Sedimentary Geology Division.* Paleontology/Paleobotany; Marine/Coastal Science; Stratigraphy. Stephen K. Donovan, National Natuurhistorisch Museum, Leiden; Paul D. Taylor, The National History Museum, London. ORAL
- T55. Anatomy of an Anachronistic Period: The Early Triassic Environment and Its Effect on the History of Life.** *Paleontological Society; GSA Sedimentary Geology Division.* Paleontology/Paleobotany; Sediments, Carbonates; Paleoclimatology/Paleoceanography. Adam D. Woods, California State Univ, Fullerton, CA; Frank Corsetti, Univ of Southern California, Los Angeles, CA. ORAL
- T56. Paleontology and Stratigraphy of the Late Eocene Florissant Formation, Colorado.** *Paleontological Society; GSA Limnogeology Division; GSA Sedimentary Geology Division.* Paleontology/Paleobotany; Geoscience Information/Communication; History of Geology. Herbert W. Meyer, Florissant Fossil Beds National Monument, Florissant, CO; Dena M. Smith, Univ of Colorado, Boulder, CO. ORAL

Topical & Discipline Sessions (*continued from p. 6*)

T57. The Concept of Layer-Cake Stratigraphy – Then and Now. *GSA History of Geology Division; GSA Sedimentary Geology Division.* History of Geology; Stratigraphy.

Charles W. Byers, University of Wisconsin, Madison, WI. ORAL

T59. Resolving the Late Paleozoic Gondwanan Ice Age in Time and Space: Comparison of Southern and Northern Hemisphere Records. *GSA Sedimentary Geology Division.* Stratigraphy; Sediments, Clastic; Sediments, Carbonates. Christopher R. Fielding, Univ of Nebraska, Lincoln; Tracy D. Frank, Univ of Nebraska, Lincoln. ORAL

T60. Sedimentary Geology and Earth History: Retrospective and Prospective: In Honor of the Career and Contributions of Robert H. Dott Jr. *GSA Sedimentary Geology Division; GSA History of Geology Division.* Stratigraphy; History of Geology; Geoscience Education. Joanne Bourgeois, Univ of Washington, Seattle, WA; Marjorie A. Chan, Univ of Utah, Salt Lake City, UT; Gary Kocurek, Univ of Texas, Austin, TX. ORAL and POSTER

T61. Frontiers in Understanding the Geologic Record of Climate Change: A Session in Honor of William W. Hay. *GSA Sedimentary Geology Division; GSA Geobiology and Geomicrobiology Division; GSA Limnogeology Division; GSA Structural Geology and Tectonics Division.*

Paleoclimatology/ Paleoceanography; Marine/Coastal Science; Paleontology/Paleobotany. Eric J. Barron, Pennsylvania State Univ, University Park; Robert DeConto, Univ of Massachusetts, Amherst. ORAL and POSTER

T72. Impact Geology. *GSA Planetary Geology Division; GSA Sedimentary Geology Division.*

Planetary Geology. David King, Auburn University, Auburn, AL; Jared Morrow, Univ of Northern Colorado, Greeley. ORAL and POSTER

T81. Regional Geology of the Northern Rockies: A Session Honoring Betty Skipp. *GSA SG&T Division; GSA Sedimentary Geology Division; SEPM – Society of Sedimentary Geology.* Tectonics; Structural Geology; Stratigraphy. Paul K. Link, Idaho State Univ, Pocatello; Susanne Janecke, Utah State Univ, Logan; David Lageson, Montana State Univ, Bozeman. ORAL and POSTER

T106. Geological Context of Early Humans from Ethiopian Rift Basins. *GSA Archaeological Geology Division; GSA Sedimentary Geology Division; GSA Limnogeology Division.* Archaeological Geology; Stratigraphy; Paleontology/Paleobotany. Jay Quade, Univ of Arizona, Tucson; Jonathon Wynn, Univ of Oregon, Eugene. ORAL

PARDEE KEYNOTE SYMPOSIA INVITED PAPERS

The Pardee Keynote symposia are made possible by a Grant from the Joseph T. Pardee Memorial Fund. Pardee keynote sessions are special events of broad interest to the geoscience community; they represent issues on the leading edge in a scientific discipline or area of public policy, address broad fundamental issues, and are interdisciplinary. Selection is on a competitive basis. This year's eight Pardee Symposia were reviewed and accepted by the GSA Annual Program Committee. (All speakers are invited.)

Monday, November 8, 2004 1:30-5:30 p.m., Colorado Convention Center, Ballrooms 2 & 3.

P1. Early Paleoproterozoic (2.5-2.0 Ga) Events and Rates: Bridging Field Studies and Models. *Geochemical Society: Astrobiology Program; GSA Sedimentary Geology Division; SEPM – Society for Sedimentary Geology.* Precambrian Geology; Paleoclimatology/Paleoceanography; Tectonics.

Andrey Bekker, Geophysical Lab, Carnegie Institution of Washington, Washington, D.C.; Mark E. Barley, The University of Western Australia, Western Australia, Australia; Robert H. Rainbird, Geological Survey of Canada, Ottawa, Ontario. Field-oriented and modeling studies dealing with the 2.5-2.0 Ga Earth's evolution. Session will be focused on relationships between tectonics, change in atmospheric composition, and climatic changes as well as the rates of these changes.

NEW NOVEL WRITTEN BY DIVISION CO-FOUNDER

Don't miss this one! "Dissensions," George D. Klein's first *novel*, focuses on surviving intrigue in academe by outflanking dysfunctional colleagues, the academic 'system', and winning at the highest level. George is a GSA Senior Fellow and a co-founder of the Sedimentary Geology Division. You can learn more about "Dissensions" and place your order via <www.xlibris.com/bookstore> or at <<http://www2.xlibris.com/bookstore/bookdisplay.asp?bookid=22528>>.

EARTH SYSTEM PROCESSES (ESP2)

2005 MEETING ANNOUNCEMENT

Slightly more than a year from now, the Geological Society of America and the Geological Association of Canada will be hosting the second Earth System Processes meeting. Chris Beaumont, Don Canfield and I have taken the reins from the Ians (Dalziel and Fairchild) as co-chairs of this meeting, a follow-up to the very successful ESP-1 meeting in Edinburgh, Scotland, 2001.

WHERE AND WHEN? Earth System Processes 2, Calgary, Alberta, Canada, August 8-11, 2005.

For those of you who did not attend the ESP-1, you may wish to visit the website at <<http://www.geosociety.org/meetings/edinburgh/index.htm>>. In particular, follow the Media Coverage link to see how well the meeting was received.

See you in Calgary in August 2005. There's no more beautiful place to be in the summer than the Canadian Rockies; we give it three thumbs up! Plan to extend your stay for field trips, field work, or vacation.

Lee Kump, for Chris Beaumont and Don Canfield

2003-2004 Sedimentary Geology Division Officers

Carol deWet, Chair

Department of Geosciences
Franklin and Marshal College
PO Box 3003
Lancaster, PA 17604-3003
(717) 291-4388 (voice)
(717) 291-4186 (fax)
carol.dewet@fandm.edu

Laura Crossey, 1st Vice-Chair

Department of Earth &
Planetary Sciences
University of New Mexico
Albuquerque, NM 87131
(505) 277-5349 (voice)
(505) 277-8843 (fax)
lcrossey@unm.edu

Christopher Paola, 2nd Vice-Chair

Dept Geology & Geography - 108 PH
University of Minn - Twin Cities
310 Pillsbury Dr SE
Minneapolis, MN 55455-0219
(612) 624-8025 (voice)
(612) 624-4398 (fax)
cpaolo@tc.unm.edu

Paul K. Link, Secretary-Treasurer

Department of Geology, Box 8072
Idaho State University
Pocatello, ID 83209-8072
(208) 282-3846 (voice)
(208) 282-4414 (fax)
linkpaul@isu.edu

Doug Burbank, Past Chair

Institute for Crustal Studies
Dept of Geological Sciences
University of California
Santa Barbara, CA 93106-0001
(805) 893-2586 (voice)
(805) 893-2314 (fax)
burbank@geology.ucsb.edu

Katherine A. Giles, JTPC Rep (01-03)

Department of Geological Sciences
New Mexico State University
Box 3 AB
Las Cruces, NM 88003
(509) 646-2033 (voice)
(509) 646-1056 (fax)
kgiles@nmsu.edu

Daniel Larsen, JTPC Rep (02-04)

Dept of Geological Sciences
University of Memphis
PO Box 526061
Memphis, TN 38152-3550
(901) 678-4358 (voice)
(901) 678-2178 (fax)
dlarsen@memphis.edu

Linda Kah, JTPC Rep (04-06)

Dept of Earth & Planetary Sciences
University of Tennessee - Knoxville
Knoxville, TN 37996-1410
(865) 974-6399 (voice)
(869) 974-2368 (fax)
lkah@utk.edu

Chris Hepburn, GSA Liaison

Boston College
Dept of Geology & Geophysics
140 Commonwealth Avenue
Chestnut Hill, MA 02467-3809
(617) 552-3642 (voice)
(617) 552-2462 (fax)
hepburn@bc.edu

Rick Sarg, SEPM Rep

ExxonMobil Exploration
233 Benmar
Houston, TX 77060
rick.sarg@exxonmobil.com

Mariana L. Rhoades, Editor

St. John Fisher College
Chemistry Department
3690 East Avenue
Rochester, NY 14618-3597
(585) 385-7388 (voice)
(585) 271-7376 (fax)
mrhoades@sjfc.edu

Rebecca J. Dorsey, Webmaster

Department of Geological Sciences
1272 University of Oregon
Eugene, OR 97403-1272
(541) 346-4431 (voice)
(541) 346-4692 (fax)
rdorsey@darkwing.uoregon.edu