



University of North Dakota
Department of Geology and Geological Engineering

Leading Edge of Earth and Planetary Science and Other Guest Speakers



1988–1989:

- John Valley University of Wisconsin: "Siljan Ring Complex–Black Gold or Fools Gold?"
- Christopher J. Hunter, Canadian Industries Ltd. and NuWest Explosives, Inc. Winnipeg, Manitoba: "Explosive Products and their Application" and "Design Considerations for an Open Pit Mine with Emphasis on Blasting"
- Tom Stevens, Water Well Users Association: "Advances in Water–Well Drilling Technology"
- Alistair Brown, AAPG Distinguished Lecturer, Dallas, TX: "Stratigraphy from 3-D Seismic Data"
- David Hastings, National Geophysical Data Center: "Geographic Information Systems and Image Processing"
- Jack Sepkowski, University of Chicago: "The Periodicity of Mass Extinctions"
- Paul Morgan, University of Northern Arizona: "Archean Heat Flow, or Why is Archean Crust so Old?"
- Jim Richardson, North Dakota State University: "Effects of Saline Ground Water on Soils of Eastern ND"
- Crawford Elliott, Case Western Reserve University: "Origin of the Clay Minerals at the Cretaceous-Tertiary Boundary in Denmark" and "Kinetics of the Smectite to Illite Transition: Two Examples . . . the Denver Basin and Southern Appalachian Basin"
- John Ferry, Johns Hopkins University: "A Petrologist's View of Fluid Flow in the Crust"
- Jack Horner, Museum of the Rockies: "Transgression, Regression and the Evolution of Dinosaurs" and "The Social Behavior of Dinosaurs"
- Radko A. Kuhnel, Delft University of Technology, The Netherlands: "Generation of Artifacts During Sample Preparation" and "Underground Coal Gasification Test at Centralia, Washington: Heat Impact on Host Rocks"
- Randy Bassett, National Ground Water Association Darcy Lecturer, University of Arizona: "The Utility of Chemical Modeling in Natural and Environmentally Stressed Hydrologic Systems"
- Gary Bennett, University of Toledo: "Hazardous Waste: Bury, Burn or Recycle"
- Gary Strathearn, University of California-Los Angeles: "Stromatolite Ecology" and "Pollution of Los Angeles Drinking Water"
- Larry Edwards, University of Minnesota: "High Precision ²³⁰Th Ages of Corals and the Timing of Quaternary Sea Level Fluctuations and Tectonic Uplift"
- Ardyth Simmons, Department of Geology, State University of New York – Buffalo: "The Mohon Mountain Volcanic Field as a Microcosm of Events in the Development of the Colorado Plateau - Basin and Range Transition Zone in Middle Tertiary Time" and "The Nature of Alkalic Enrichment in Dacites and Andesites of the Mohon Mountain Volcanic Field"
- Ron Mathoney, Arizona State University: "Investigation of the Low-temperature SiO₂-H₂O Oxygen Isotope Fractionation" and "Future Research Directions in Paleoclimatology and Environmental Aqueous Geochemistry"

1989–1990:

- Paul Silver, Carnegie Institute of Washington: "Seismic Anisotropy and the Structure of the Subcontinental Mantle"
- James Papike, South Dakota School of Mines and Technology: "Origin and Evolution of S-Type Granite Systems: A View from the Black Hills"
- David Blackwell, Southern Methodist University: "Thermal Tectonics of the Western United States"
- Ronald Greeley, Arizona State University: "Geology of the Outer Planets in the post Voyager Era"
- Edward Nuhfer, University of Wisconsin-Platteville: "In-Situ Measurement of Modern Sedimentation"
- Timothy Holst, University of Minnesota – Duluth: "Early Proterozoic

Penokean Orogeny"

- Carl Vender, Staff Engineer, Knife River Coal Co. and President, North Dakota Chapter of AIME: "Slope Stability of Surface Coal Mines" and "Engineering Applications at Beulah Mine, North Dakota"
- Jay Lehr, National Ground Water Association: "Ground-Water Remediation" and "Ground Water Management Policies in China and Russia"
- Bob Diffendal, University of Nebraska-Lincoln: "External and Regional Events Affecting the Geologic History of the Great Plains During the Period from 37 to 1.6 Million Years Ago"
- Joe Downey, United States Geological Survey: "Regional Aquifers of North Dakota and Adjacent Areas of Canada"

1990–1991:

- Carlos Aiken, University of Texas: "Geological and Geophysical Applications of the Global Positioning System"
- Bill Schuh, North Dakota State Water Commission, "Application of Steady-state Unsaturated Flow Monitoring Techniques to Quantify Soil Hydraulic Changes in an Artificial Recharge Basin"
- Jim Richardson, North Dakota State University: "Wetlands Soils and Hydrology"
- John Lewry, University of Regina: "Evidence for Massive Crustal Imbrication, Nappe Tectonics and Early Mylonite Zones in Accreted Juvenile Terranes of the Trans-hudson Orogen" and "Differing Ways of Viewing the Anatomy of North America"
- Julie Brigham-Grette, University of Massachusetts: "Pliocene-pleistocene Sea-level and Glacial History of the Bering Land Bridge: Emphasis on the Important Bits" and "Arctic Antics"
- Ed Lewis, Greater Yellowstone Coalition: "Greater Yellowstone, An Uncertain Future"
- Jack Hess, Desert Research Institute: "Transient Response of the Hydrologic System to Global Climate Change"
- Tom Winter, United States Geological Survey: "Hydrology of Lakes and Wetlands with Emphasis on Ground-Surface Water Interaction"
- William Ruddiman, Columbia-Lamont Geological Observatory: "Forcing of Late Cenozoic Climate Changes" and "Plio-pleistocene Glacial Cycles"
- Eiliv Larsen, Norwegian Geological Survey: "Late-Quaternary Land-sea Interactions: Fennoscandia and Svalbard – the Nordic Seas" and "Formation of DeGeer Moraines and Implications for Deglaciation Dynamics"

1991–1992:

- Ken Bradbury, Wisconsin Geological and Natural History Survey: "Wellhead Protection in Fractured Aquifer Settings"
- Jerry Sweeney, Lawrence Livermore Laboratories: "Thermal Maturation of Petroleum Source Rocks" and "Chemical Kinetic Modeling of Hydrocarbon Generation, Expulsion, and Cracking"
- David Butler University of Georgia: "Geomorphic Processes at an Alpine Treeline in Glacier National Park"
- James Ingle, Stanford University: "Birth and Death of the Japan Sea"
- Don Anderson, California Institute of Technology: "Probing the Interior of the Earth"
- Tom Early, Oak Ridge National Laboratory: "TCE and Tc-99 Migration in Groundwater at the Paducah Gas Diffusion Plant, Kentucky" and "Importance of Geochemistry in Groundwater Investigations"
- Peter Scholle, Southern Methodist University: "Depositional Diagenetic Patterns in Permian Carbonates of Central East Greenland" and "Late Stage Evaporite Replacement in Permian Reef Complexes, West Texas"
- Christopher C. Maples, Kansas Geological Survey: "Planes, Trains, Automobiles, and Donkey Carts–Geological Field work in the People's Republic of China" and "Carboniferous Lagerstätten–Patterns, Processes and Speculations"
- Thor Hansen, Western Washington University: "Asteroid Impacts and the Cretaceous-Tertiary Extinction–End of the Dinosaur Era" and "The

First Two Million Years after the Cretaceous-Tertiary Extinction"

•James Kennett, University of California Santa Barbara: "Cenozoic Climate Change – Paleoclimatology and Event Stratigraphy" and "Abrupt Global Warming and Extinctions at the Paleocene/Eocene Boundary"

1992–1993:

- Douglas Smith, Vanderbilt University: "Evidence for Rapid Initiation of Blueschist Uplift in the Geologic History of Cedros Island, Baja California" and "Shallow Magnetic Inclinations in the Cretaceous Valle Group, Baja California: Remagnetization, Compaction, or Terrane Translation?"
- Rod McGinn, Brandon University: "Making War with Elephants: Erosion and Sedimentation Processes along the Manitoba Escarpment" and "In Search of the Holocene Esker"
- Desmond Collins, Royal Ontario Museum: "The Challenge of the Burgess Shale" and "Burgess Shale: Contingency of Classification"
- Sara Foland, Amoco Denver, AAPG Distinguished Lecturer: "Tectonics of Northern Offshore California" and "Uses of Innovative Techniques in Mature Basin Exploration, Arkoma Basin, Oklahoma"
- Stephen Porter, Planetary Science Institution: "The Little Ice Age" and "Paleomonsoons of Central China"
- William K. Hartmann, Planetary Science Institute: "Artist in the Space Frontier" and "Cratering, Collisions, and Catastrophism in Our Solar System"
- Hugh Hendry, University of Saskatchewan: "Gravels on a One-way Trip . . . a Comparison of Gravelly Successions Deposited by Unidirectional Currents on Land and in the Sea" and "Correlation, Sedimentation and Tectonic Setting of the Martin Group, Northern Saskatchewan"
- Talib Syed, Simon Hydro-Search, Denver: "Overview of Subsurface Disposal Operations and Regulatory Impacts"

1993–1994:

- Anne Raymond, Texas A&M University: "Carboniferous Continents, Coal, and Climate: How to Choose a Paleogeographic Reconstruction" and "Looking for the Frasnian-Famennian Mass Extinction on Land: Phytogeography of the Late Devonian"
- John Brady, Mineralogical Society of America Distinguished Lecturer, Smith College: "Why Walden Pond Is an Imperfect Model for a Lava Lake" and "Marble-hosted Talc Deposits in Sw Montana: Evidence for Deep Circulation of Proterozoic Sea Water"
- Jim Grant, University of Minnesota-Duluth: "Contact Metamorphism and Partial Melting of Pelitic Rocks in the Aureole of the Laramie Anorthosite Complex" and "Isocon Analysis of Mass Transfer: Migmatites, Hydrothermal Alteration, Paleosols and Groundwater"
- Jim Stark, United States Geological Survey-Minneapolis: "Stream-aquifer Relations along the Straight River, Becker and Hubbard Counties, Minnesota"
- Bruce Jakosky, University of Colorado: "The Exploration of Mars" and "History of the Climate of Mars"
- George Stanley, University of Montana: "The Evolution of Reef Ecosystems" and "Exotic Terranes"
- Robert F. Lindsay, Chevron U.S.A. Company: "Carbonate Sequence Stratigraphy on the Development Geology Scale: Outcrop and Subsurface Examples from the Permian Grayburg Formation, Permian Basin"
- Cathy Manduca, Carleton College: "Cretaceous Tectonics in Western Idaho—A View from the Middle Crust" and "Hornblende and Epidote as Igneous Barometers"
- Emi Ito, University of Minnesota: "A 400-year Record of Hydrologic Balance in the Northern Great Plains: a Multi-proxy Investigation of Lacustrine Sediment Ratios Between Benthic Ostracods and Lake Water"
- Petr Cerny, University of Manitoba: "Mineralogy, Geochemistry and Economic Geology of the Tanco Pegmatite Deposit, Southeastern Manitoba" and "Distribution, Affiliation and Derivation of Rare-element Granitic Pegmatites in the Canadian Shield"
- Margaret Leinen, University of Rhode Island: "Defining the Role of the Ocean in Climate Change" and "Glacial to Interglacial Changes in Atmospheric Circulation: Evidence from Deep Sea Sediments"
- Jim Sadd, Occidental College: "Oil Spills and Contingency Planning: a Geologist's View" and "Mugu Lagoon Coastal Wetlands, Central California: Geological History and Human Influences"

1994–1995:

- Robert Slaughter, Southern Methodist University: "Creativity in Science and Art" and "Ice Age Climate, Faunal Extinction and the First

Americans"

- John Annestad, Bemidji State University: "Searching for Meteorites in Antarctica" and "Meteorite Concentrations in Antarctica, Glaciological Considerations"
- David Chapman, University of Utah: "Borehole Temperature Studies Linking Solid Earth and Meteorological Signals of Global Change" and "Heat Flow and Hydrothermal Circulation Through the Ocean Floor: New Results from the Juan De Fuca Ridge"
- Louisa Wilcox, Greater Yellowstone Coalition: "Yellowstone National Park and Ecosystem Management: Hype or Hope?" and "Bison and Wolves and Bear, Oh My! Wildlife in Yellowstone"
- Brian B. Looney, Westinghouse Savannah River Company: "Technical Innovations in Groundwater Remediation"
- Eric Essene, University of Michigan: "Geological Terranes in New York and Ontario" and "Clay Mineral and Other Geothermometers in Sedimentary Basins"
- Guy Hovis, Mineralogical Society of America Distinguished Lecturer, Lafayette College: "Predicting Mineral Behavior in the Earth's Crust" and "Thermodynamic Properties of Mineral Series, What Do We Know and Where Do We Go?"
- Inge Arseth, University of Bergen, Norway: "Western Norwegian Fjords: Their Formation and Sediments" and "Engineering Geology in Norwegian Fjords: Problems with Tunnels, Channels, and Oil Pipelines"
- Paul Hsieh, United States Geological Survey: "A Multidisciplinary, Multiscale Investigation of Fluid Flow and Solute Transport in Fractured Crystalline Rocks: Finds from the Morrow Lake Site, New Hampshire"
- Paul Knauth, Arizona State University: "Climatic Temperature History of the Earth"
- Tina Langtry, Vice President, Conoco Norway: "Oil Exploration in the North Sea"
- Odin Christensen, Chief Geologist, Newmont Mining Corporation: "Carlin-type Sedimentary-rock-hosted Gold Deposits in Nevada and China: Similar Rocks – Worlds Apart"
- John Grotzinger, Massachusetts Institute of Technology: "How Fast Was the Cambrian Explosion?" and "Anomalous Carbonate Facies: Is the Precambrian the Key to the Permian?"
- Jim Saunders, Auburn University: "Cocirculation of Trace Metals in Pyrite: Implications for Enhanced Intrinsic In Situ Bioremediation" and "Groundwater Geochemistry as a Guide to Mesozoic Crustal Movements in Northwest Mississippi"
- Robert Schneider, Woods Hole Oceanographic Institute: "Radiocarbon Dating in the Earth Sciences" and "Radiocarbon Dating: Cooperative Opportunities"
- Skip Simmons, University of New Orleans: "Pegmatite Petrogenesis" and "Suffering in Siberia: Mineral Collecting Adventures in Russia"
- Carrick Eggleston, University of Wyoming: "Mineral Surfaces in Geochemical and Environmental Processes" and "Adsorption and Electron Transfer at Oxide and Sulfide Surfaces"

1996–1997:

- David Mogk, Montana State University: "Shaping the Future: New Expectations for Science, Mathematics, Engineering, and Technology Education," "Successful Proposal Writing for Educational Funding" and "Archean Geology of Southwestern Montana: Crustal Genesis or Crustal Evolution"
- Rosalind Helz, United States Geological Survey, Mineralogical Society of America Distinguished Lecturer: "How Do We See into Magma Chambers?" and "Glass Geothermometry: Using Glass Composition to Quantify Volcanic Processes?"
- Michael Abrams, Exxon Ventures (CIS) Inc.: "Hydrocarbon system: Evlakh-Agzhadi Depression, Azerbaijan"
- Kirk Nordstrom, United States Geological Survey: "Negative pH, Ultra-acidic Mine Water, and the Challenge of Environmental Restoration at the Iron Mt Superfund Anomaly" and "Model Validation and Other Chimeras"
- Mark Longman, Consulting Geologist, Lakewood CO: "Cyclic Deposition and Development of Porous Dolomites in the Upper Ordovician Red River Formation, Williston Basin"
- Susan Kidwell, University of Chicago: "Taphonomy: Putting the Dead to Work" and "Phanerozoic Trends in the Nature of the Fossil Record"
- Martin Lockley, University of Denver: "Tracking Dinosaurs Around the World" and "Dinosaurs of Colorado"
- Dean McManus, University of Washington: "Oceanographic Studies at U of W" and "Changing a Lecture Course to Cooperative Learning"
- Jimmie Richardson, North Dakota State University: "Soils and Ground Water on the Lake Agassiz Plain" and "Soils: a Workshop"

•Richard Grieve, Geological Survey of Canada: "Extraterrestrial Impact: the Record and Consequences for Earth Evolution" and "Understanding the Origin and Evolution of the Sudbury Structure: Then and Now"

1997–1998:

- Philip Bennett, National Ground Water Association Darcy Lecturer, University of Texas: "Water, Microbes and Rocks: The Geochemical Ecology of Contaminated Ground Water"
- Mario Giovanetto, University of Calgary: "Ice Sheets and Global Change" and "The Trials and Tribulations of Collecting and Interpreting Data"
- John Hoganson, Leonard Award Speaker, North Dakota Geological Survey: "Sea Lilies, Dinosaur, and Woolly Mammoths: Fossil Evidence of Prehistoric Life in North Dakota"
- Allan Ashworth, North Dakota State University: "Blue Ice Blues: How Stable is Antarctica?"
- Jim Woodson, Samadan Oil Corporation: "Opportunities in the Petroleum Industry"
- Stephen Johnson, University of North Dakota: "Building and Flying the Magellan Spacecraft"
- Jeffrey Mount, University of California-Davis: "Managing Floods and Flood Plains: Hard Lessons Learned from the New Years Floods in California"

1998–1999:

- Don Rosenberry, United States Geological Survey: "Effects of Climate Variability on the Hydrology of the Cottonwood Lake Area, Stutsman County North Dakota" and "The U.S. Geological Survey's interdisciplinary Research Initiative, An Approach to Understand Complex Watershed Processes"
- David Krause, SUNY Stony Brook: "Cretaceous Treasure Island: New Discoveries of Fossil Vertebrates from Madagascar"
- Vic Baker, University of Arizona: "Global Paleoflood Hydrology"

1999–2000:

- Lee Gerhard, Leonard Award Speaker, Kansas Geological Survey: "Geological Constraints on Global Climate Change"
- Scott Blair, Birdsall-Dreiss Distinguished Lecturer, Ohio State University: "Contamination of Woburn Wells G & H – What the Experts Said at the Trial, What We Know Now"
- James Hendry, National Ground Water Association Darcy Lecturer, University of Saskatchewan: "Transport and Geochemical Controls on Solutes in Clay Aquitards"
- Maureen Steiner, University of Wyoming: "Origin of the Oceanic Jurassic Quiet Zones: Geomagnetic Field Reversals Every 10-40,000 Years" and "Post-Permian Multiple Rotations of the Colorado Plateau"
- David Harwood, University of Nebraska: "Warm Fossils Under Ice: Clues to Antarctic's Cenozoic Ice Sheet History"

2000–2001:

- Allen Kihm, Minot State University: "Fossil Collecting in Antarctica" and "The Search for Cretaceous mammals in Antarctica: Why There, Why Then?"
- Julie LeFever, Leonard Award Speaker, North Dakota Geological Survey: "Horizontal Drilling Potential of the Spearfish Formation"
- Allan Trieman, Lunar & Planetary Institute: "Rocks from Mars! Any Life in Them?" and "Chemistry of Martian Groundwater"
- Garry Karner, JOI/USSAC Distinguished Lecturer, Lamont-Doherty Geophysical Laboratory: "The Ocean Drilling Program as a Research Tool: Effective, Political or Exciting?" and "The Power of Quantitative Basin Analysis in Solving Tectonic Problems: Application to the Atlantic and Indian Ocean Continental Margins"
- Ken Wisian, Southern Methodist University: "Where's the Heat? – Geothermal Development in the Western US" and "Numerical Modeling of Basin and Range Geothermal Systems"
- Steve Ingebritsen, Birdsall-Dreiss Lecturer, United States Geological Survey: "Land Subsidence in the United States" and "The Permeability of the Continental Crust"
- Barb Tewksbury, Hamilton College: "Geology as an Underlying Influence on Human Events – Examples from Egypt and the Sahara" and "Practical Strategies for Actively Engaging Students in the Classroom and for Assessing Their Work"
- Barb Dutrow, Louisiana State University: "Deciphering the Evolution of Metamorphic Terranes: Insights from 3d Thermal and Textural Modeling" and "Where Has All the Silica Gone? Metasomatism and Thermal Evolution Surrounding an Alkaline Intrusion in Subsurface Louisiana"
- Jay Fleisher, SUNY Oneonta: "When Glaciers Surge" and "Elusive

Evidence of an Expanding Bering Glacier"

•Jennifer Smith, University of Pennsylvania: "When the Desert Was Green: Reconstructing Quaternary Climatic Oscillations in the Sahara and Their Effect on Hominid Populations"

•Jonathan Wynn, University of Oregon, "Geology in Kenya"

•Lesley Perg, University of California-Santa Cruz: "Life's a Beach – Cosmogenic Radionuclides along an Active Margin Coastline"

•Phil Brown, University of Wisconsin: "Gold Deposits: How Much or Little Do We Know?" and "Synchrotron Infrared Spectroscopy as a Probe of Fluid Inclusions – Is Bigger Better?"

•James Teller, University of Manitoba: "Noah and the Greatest Flood of All Time"

•Richard Josephs, University of Iowa: "Legitimate Research at Bogus Cave"

2001–2002:

- Martin Lockley, University of Colorado-Denver: "New Approaches to Dinosaur Tracking"
- David Fox, University of Minnesota: "Stable Isotopes in Tusks – Reconstructing Subannual Ecological Variability in Extinct Elephants" and "The Great Plains Ecosystem During the Late Cenozoic [Last 10 Million Years] – Mammal Teeth, Soil Carbonates, and Carbon Isotopes"
- Donna Whitney, University of Minnesota: "Vertical Tectonics: Construction and Collapse of the Mountains of Western America" and "The Tectonic Evolution of an Oblique Orogen: Metamorphism and Exhumation of Blueschists, Eclogites, and Al₂SiO₅-bearing Rocks in the Alpine-Himalayan Belt of Turkey"
- Perry Rahn, South Dakota School of Mines and Technology: "Flood hazards" and "Transmissivity anisotropy"
- Randy Hunt, United States Geological Survey: "Urbanization and Water Resources: Computer Applications to Solving Problems and Conflicts" and "Introduction to Groundwater Modeling Using the Analytical Element Method"
- Roger Slatt, University of Oklahoma, AAPG distinguished Lecturer: "Outcrop/behind-outcrop Characterization of Deepwater (Turbidite) Petroleum Reservoir Analogs: Why and How"
- Catherine McCammon, Universitaat Bayreuth, Mineralogical Society of America Distinguished Lecturer: "Diamonds Are Not Forever: How Compositional Zoning in Garnets Can Tell Us Why" and "Oxidation-reduction in the Earth: What Old Cars and the Lower Mantle Have in Common"
- Alan Ashworth, North Dakota State University: "The Case for Neogene Warmth in Antarctica"

2002–2003:

- Thomas Kohl, Institut für Geophysik, ETH, Zurich, Switzerland: "Research Aspects for Geothermal Low Enthalpy Utilization"
- Laurie Anderson, Louisiana State University: "Bridges and Sea Barriers Evolution and Plate Tectonics in Tropical America" and "Phylogenetic and Morphological Evolution of Corbulid Bivalves in the Neogene of Tropical America"
- P. Jay Fleischer, Oneonta: "Rapid Change in a Diverse Glacial Environment, Bering Glacier, Alaska"
- Amy Gaffney, University of Washington: Hawaiian Xenoliths and a Glimpse Beneath the Surface of Mauna Loa Volcano" and "Intra-volcano Compositional Variability and the Role of Oceanic Lithosphere in West Maui and East Molokai Volcanoes, Hawaii"
- Paul Morin, University of Minnesota: "The Geowall, Classroom Based Stereo Visualization for the Rest of Us"
- Brett Fossum, Conoco (Houston): "Play Analysis and the Exploration and Production Potential of the Timan-Pechora Basin, Russia"
- Zach Sharp, University of New Mexico: "How Did All That Chlorine Get down There? Serpentinites as a Carrier of Chlorine into the Mantle" and "They Are More Porous than You Think: Oxygen Diffusion in Metamorphic Rocks"
- Rhawn Denniston, Cornell College Caves: "Geoarchaeology?"
- Dennis Beliveau, Epic Consulting Services, Calgary (AAPG-SPE Distinguished Lecturer): "Reservoir Heterogeneity, Geostatistics, Horizontal Wells, and Black Jack Poker"
- Emmett Evanoff, University of Colorado Museum: "Evidence for late Cenozoic uplift of the Southern Rockies and adjacent Great Plains" and "A Comparison of the Depositional Styles, Tectonics" and "Climate of the Bridger and White River Formations"
- Steve Semken, Navajo Community College--Tse na'alkaah: "Indigenous Geoscience Education at a Tribal College"

•Tracy Gregg, University of Buffalo: "Space Odyssey 2003 –Volcanoes in the Solar System"

2003–2004:

- Hongsheng Cao, University of Idaho: "Uranium and Strontium Isotopic Tracers—applications to the Floridan Aquifer of Northwestern Florida"
- Larry Anovitz, Oak Ridge National Laboratory: "Obsidian Hydration Dating—old Problems and New Approaches to Glass Corrosion" and "Experiments and Model Approaches to Understanding Water Diffusion"
- Bret Fossum, ConocoPhillips: "Reservoir Characterization Through 3d Geological Modeling and Visualization"
- Anthony Sprague, ExxonMobil Upstream Research Company, AAPG Distinguished Lecturer: "Physical Stratigraphy of Clastic Strata—a Hierarchical Approach to the Analysis of Genetically Related Stratigraphic Elements for Improved Reservoir Production"
- Linda Ivany, Syracuse University: "The Paleogene Greenhouse-to-icehouse Transition in Antarctica – Climate and Ecology in a Shallow Marine System" and "The Abscs of Paleobiology – Insights about the Geochemistry of Accretionary Biogenic Carbonates"
- Matt Kohn, University of South Carolina: "The Chemistry of Teeth, the Rise of the Cascades, and the Cooling of Antarctica" and "Repeated Miocene-Pliocene Thrusting at Plate-tectonic Velocities in the Central Himalaya, Nepal"
- Hong Kim, University of Nevada-Reno: "Contributions of Advective and Diffusive Oxygen Transport Through Multilayer Composite Caps over Mine Waste"
- Dave Ufnar, University of Southern Mississippi: "What Can Soils Tell Us about Recent Sea-level Changes? A Quaternary Chronosequence in Southeastern Mississippi" and "Reconstructing a Mid-cretaceous Catena: Landscape Evolution in the Western Canadian Foreland Basin, Alberta"
- Barry Allred, USDA, Columbus, Ohio: "Application of Near-surface Geophysics in Agriculture Drainage Pipe Detections"
- Henry N. Pollack, University of Michigan: "Climate Change: the View from Underground" and "Q: How Certain Is Global Climate Change? A: Very"
- Lee Phillips LEEPS, University of North Carolina-Pembroke: "Evidence for Submarine Meteoric Groundwater Flow in the Cretaceous Ashville Formation, Manitoba Escarpment and Pasquia Hills Areas, Canada" and "The Role of Synsedimentary Precipitation of Carbonate Cements in the Preservation of Dinosaur Tracks, Example from the Cretaceous Dakota Formation, Nebraska, USA"

2004–2005:

- Ed Murphy and John Hoganson, North Dakota Geological Survey: "Geological Observations of the Lewis and Clark Expedition in North Dakota"
- Gregg Gunnell, University of Michigan: "Fossil Evidence for the Origin of Bats" and "Why We Should Care about the Paleocene-Eocene Boundary-perspectives from Mammalian Paleontology"
- Bridget C. Doyle, Hope College: "Identification and Classification of Lateral Spread Features in the New Madrid Seismic Zone"
- Mark Leckie, University of Massachusetts: "Linking tectonics, Climate Change, and Biotic Evolution: the Oceanic Anoxic Events of the Mid-cretaceous (~120-90 Ma)" and "Sea Level Change During the Greenhouse World of the Cretaceous"
- Dan Peppe, Yale University: "Coastal Flora of the Maastrichtian (Late Cretaceous) Fox Hills Formation: Evidence of Late Cretaceous Circum-boreal Floral Exchange"
- Zheng-Wen Zeng, University of Oklahoma: "Characterization of the Jackfork Sandstone – a Tight Gas Formation"
- Geoffrey Plumlee, United States Geological Survey: "The Emerging Disciplines of Medical Geology and Toxicological Geochemistry – Earth's Scientists Collaborating with Health Scientists to Understand the Earth's Impact on Human Health"
- Sebastian Lobo-Guerrero, University of Pittsburgh: "Modeling the Evolution of Crushing in Granular Materials Using the Discrete Element Method"
- Hakan Basagaoglu, Idaho National Laboratories: "Multiphase Transport in Fractured Porous Systems"

2005–2006:

- Barbara Sherriff, Univ. Manitoba: "Arsenic and Old Waste: Tales of Orphaned Gold Mine Waste in Manitoba"
- Zeb Page, University of Wisconsin: "Eclogite as a Subduction Flight Recorder: P-T Paths from the Franciscan" and "Thermobarometry of Eclogite: When Two Minerals Just Aren't Enough"
- Bill Schuh, North Dakota State Water Commission: "Connecting the Soil

to the Aquifer" and "Effect of Historical Processes and Underlying Strata on Modern Sulfate Concentrations in the Elk Valley Aquifer"

- John St. George, University of Auckland, New Zealand: "Hazard Assessment for Development over Land Subject to Ground Subsidence: a New Zealand Perspective"
- Michelle Tuttle, USGS: "Gas Cloud Kills Thousands at Lake Nyos, Africa: Identifying the Culprit and Saving Lives in the Future" and "Weathering of Black Shale in Dry and Humid Climates: Environmental – Consequences Past and Present"
- Harvey Thorleifson, University of Minnesota & Minnesota Geological Survey: "3D Geological Mapping in Support of Groundwater Inventory in the Fargo-Moorhead Region, North Dakota and Minnesota"
- Tim Denko, University Minnesota-Duluth: "Ground Penetrating Radar Imaging of Fluvial Architecture and Assyrian Archaeological Sites, Upper Tigris River Valley, SE Turkey" and "The Record of Landscape Evolution in the Upper Triassic Chinle and Upper Jurassic Morrison Formations, Colorado Plateau, USA: Control of Climate on Stratal Architecture in Continental Depositional Systems"
- Neal Driscoll, Scripps Institute, UCSD: "Dispersal Systems in Actively Deforming Regions: Papua New Guinea Has it All!"
- Palmer Bailey, Kenai Peninsula College, Homer, AK: "The View from under a Surging Glacier" and "Climate Change: a Polar Perspective"
- Reid Grigg, New Mexico Institute of Mining and Technology: "CO₂-related Issues in Enhanced Oil Recovery and in Sequestration"
- Daniel Pendick, freelance science writer, Glendale, WI: "Cloudy Seeding and Cloudy Science" and "Science in the Media: the Good, the Bad, and the Ugly Truth"
- Peter B. Flemings, 2005-2006 AAPG Distinguished Lecturer, Penn St. Univ.: "Overpressure, Hydrocarbon Entrapment, Seafloor Venting, and Slope Stability: the Dynamic Flow Regime Beneath the Seafloor"
- Amos Nur, Stanford University: "Oil and War: Oil-peak vs Oil panic" and "Collapse in Archaeology: Sea People or Earthquakes?"
- Andrew Fisher, Santa Cruz: "Quantifying Stream Seepage Dynamics and Impacts: Methods and Application to the Pajaro River, coastal central California" and "Large-scale Lateral Fluid Flow within Oceanic Crust and the Global Importance of Seamounts in Driving Hydrothermal Circulation"
- Dhananjay Mohabey, Geological Survey of India: "The biota and depositional environments associated with the latest Cretaceous Deccan Volcanics of Central India"

2006–2007:

- Rodney Feldmann, Kent State University: "A Tale of Three Continents: Anticipated Discoveries from Field Studies in Paleontology"
- Rebecca Flowers, California Institute of Technology: "Unroofing the Colorado Plateau and implications for carving the Grand Canyon " and "A Lower Crustal Perspective on the Stabilization and Reactivation of Continental Lithosphere in the Western Canadian Shield "
- Lance Grande, Field Museum of Natural History: "The Evolution of Evolution, and Museum Studies in Chicago and Wyoming "
- Calvin Alexander, University of Minnesota: "Soudan Mine Seeps: Hydrogeology, Geochemistry, Planetology, and Microbiology "
- J. Mark Erickson, St. Lawrence University: "Ordovician Bryozoans: Putting the Pieces Back Together "
- Art Bogan, North Carolina State Museum of Natural Sciences: "Global Freshwater Bivalve Diversity and Extinction " and "Freshwater Bivalve Diversity and Convergence: How Do We Interpret the Fossil Record?"
- Hanna Nekvasil, State University of New York at Stony Brook: "Martian Magmatism: Towards a New Martian Paradigm " and "Late-stage Volatile Evolution in Martian Magmas: Insights from the Chassigny Meteorite "
- Jacqueline Hantoon, Dean of the Graduate School, Michigan Technological University: "Field Training for Teachers in Earth System Science" and "The Search for a Source Rock for the Giant Tar Sand Triangle Hydrocarbon Accumulation "
- Joseph Magner, Minnesota Pollution Control Agency and University of Minnesota: "A Sentinel Watershed-systems Approach to Future Water Quality Management " and "Selected Minnesota Riparian Systems: Geochemical and Isotopic Analysis of Hydrologic Pathways and Water Quality Response "
- Frank Casey, North Dakota State University: "Hormones and Their Fate in the Environment "
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