

LEEPS 2006 – 2007

Leading Edge of Earth and Planetary Science Lectures

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Typical Lectures – 100 Leonard Hall, Fridays at Noon
and 109 Leonard Hall, Fridays at 3:00 p.m. (see below for exceptions)

Both lecture times open to the public.

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[Visit the Departmental Calendar](#)

A WORKING SCHEDULE

Date	Availability	Planning/Topic/Title
Sept. 8	Hartman Planning	Winnipeg Field Trip
Sept. 15	Will not available	
Sept. 22	Perkins Planning	Yellowstone Field Trip
Sept. 29	Available	
Oct. 6	Hartman Planning Homecoming	Rod Feldmann (B.S. 1961, M.S. 1963, Ph.D. 1967 alum), Kent State University A.G. Leonard Award Noon Lecture Noon: A tale of three continents: Unanticipated discoveries from field studies in paleontology.
Oct. 13	Hartman Planning Gerla (Geol 422)	Jim Sorensen (UND B.S. 1991 alum), EERC Noon: The Plains CO2 Reduction Partnership – The role of geology and geological engineering in addressing global climate change. [Primarily for undergraduate and graduate students] 3 p.m., Leonard 100 Phil Wilson (Senior Design presentation) Soil Infiltration Characteristics of Native Prairie Compared with Cropland .

		<p>Bryce Picard (Senior Design presentation)</p> <p>Birdbear Formation: Possible Horizontal Play In Bottineau County.</p>
Oct. 20	Perkins Planning	<p>Rebecca Flowers, Cal Tech</p> <p><i>12:00 p.m.: Unroofing the Colorado Plateau and implications for carving the Grand Canyon.</i></p> <p><i>03:00 p.m.: A lower crustal perspective on the stabilization and reactivation of continental lithosphere in the western Canadian Shield.</i></p>
Oct. 27	No lecture	Geological Society of America annual meeting (Philly)
Nov. 3	Available	
Nov. 10	No lecture	Veterans Day Observance
Nov. 13	MONDAY	<p>Lynn Helms, Director, N.D. Department of Mineral Resources</p> <p><i>1:00 p.m., North Dakota Oil Transportation Issues</i></p>
Nov. 17	Hartman Planning	<p>Lance Grande, Field Museum (of Natural History)</p> <p><i>Noon: The evolution of evolution, and museum studies in Chicago and Wyoming</i></p> <p><i>2:00 p.m. Discussion opportunity</i></p>
Nov. 24	No lecture	Thanksgiving Day Observance
Dec. 1	Gerla and Hartman Planning	<p>12:00 p.m. Geol 422 student research presentations</p> <p>Phil Wilson (senior report)</p> <p><i>Soil hydrological properties of native prairie compared with cropland</i></p> <p>Bryce Picard (senior report)</p> <p><i>Birdbear Formation: Possible horizontal play in Bottineau County, North Dakota</i></p> <p>3 p.m., Leonard 100 (all are invited)</p> <p>Marron Bingle (Ph.D. Proposal Presentation)</p> <p><i>Distribution, diversity, and origins of the Upper Cretaceous nonmarine molluscan fauna of the infra- and intertrappean sediments in the Deccan Plateau, central and western India</i></p>
Dec. 4	Hartman	<p>Calvin Alexander (University of Minnesota)</p> <p>Noon Special Lecture: Soudan Mine Seeps: Hydrogeology, Geochemistry, Planetology, & Microbiology</p>

	Planning	2:00 p.m.: Mike Davis (GGE M.S. Defense), Room 100 (Lecture Bowl) <i>Evaluating surface area-basin volume relationships for prairie potholes</i>
Dec. 5	Connie Planning	GGE Christmas Party Blue Moose, Tuesday at 5:00 for social, 5:30 for supper
Dec. 8	No lecture	Reading and Review Day
Dec. 11	No lecture	Finals Week
Jan. 11	Hartman Planning	GGE's Sigma Gamma Epsilon Beta Zeta Chapter (National Honor Earth Sciences Society) hosts: J. Mark Erickson , St. Lawrence University, St. Lawrence, New York <i>07:00 p.m. Ordovician bryozoans: Putting the pieces back together (Room 109 Leonard Hall)</i>
Jan. 12	Available	
Jan. 19	Hartman Planning	Art Bogan , North Carolina State Museum of Natural Sciences <i>12:00 p.m. Global freshwater bivalve diversity and extinction.</i> <i>03:00 p.m. Freshwater bivalve diversity and convergence: How do we interpret the fossil record?</i>
Jan. 26	Hartman Geol 421-422	Student Artifact Talks (video taped)
Feb. 2	Perkins Planning	Hanna Nekasil , State University of New York at Stony Brook Department of Geosciences <i>12:00 p.m. Martian Magmatism: Towards a new Martian paradigm.</i> <i>03:00 p.m. Late-stage volatile evolution in Martian magmas: Insights from the Chassigny meteorite.</i>
Feb. 9	Hartman Geol 421-422	Noon and 3:00 p.m. Student Chalk Talks (to be video taped)
Feb. 15	SGE lecture series	Jim Sorenson (GGE B.S., 1991 alum), EERC <i>06:30 p.m. (Room 100) Potential for CO2 storage in saline aquifers and oil fields in the plains region of North America</i>
Feb. 16	Gosnold Planning	Jacqueline Huntoon , Dean of the Graduate School, Michigan Tech <i>12:00 p.m. Field training for teachers in Earth System Science.</i> <i>03:00 p.m. The search for a source rock for the giant Tar Sand Triangle hydrocarbon accumulation.</i>
		Joe Magner , Minnesota Pollution Control Agency and University of

Feb. 23	Gerla Planning	<p>Minnesota</p> <p>12:00 p.m. A sentinel watershed-systems approach to future water quality management</p> <p>03:00 p.m. Selected Minnesota riparian Systems: Geochemical and isotopic analysis of hydrologic pathways and water quality response</p>
Mar. 2	Gerla-Hartman-Forsman Planning	<p>Abigail Franklund Master's Thesis Proposal</p> <p>12:00 p.m. Developing a rapid method for assessing the physical stability of streams and rivers in Minnesota's Agassiz beach ridges</p> <p>Matt Burton-Kelly Master's Thesis Proposal</p> <p>12:30 p.m. Recovery of freshwater mussels post-Cretaceous-Paleogene impact event</p>
Mar. 9	Not Best	
Mar. 16	No lecture	Spring Break
Mar. 22	SGE lecture series	<p>Will Gosnold, UND GGE</p> <p>06:30 p.m. (Room 100) A new look at Geothermal Energy as an energy choice for the future</p>
Mar. 23	Korom Planning	<p>Frank Casey, North Dakota State University</p> <p>12:00 p.m. Hormones and their fate in the environment</p> <p>3:00 p.m. Geol 421-422 class meets</p>
Mar. 30	Hartman Geol 421-422	<p>12:00 p.m. Student PowerPoint talks</p> <p>03:00 p.m. Abstracts, spontaneous presentations</p>
Apr. 6	No lecture	Easter Observance
Apr. 12	Thursday	North Dakota Academy of Science (April 12-13), Minot
Apr. 13	Hartman Geol 421-422	<p>12:00 p.m. Marissa Linback Senior Thesis Presentation</p> <p>Topic: Characterizing soil conditions at the remaining occurrences of Western Prairie Fringed Orchid (<i>Platanthera praeclara</i>)</p> <p>03:00 p.m. Anna Worden Senior Thesis Proposal</p> <p>Topic: North Dakota volcanic tuff correlation</p> <p>03:15 p.m. Ashley Ignatius Senior Thesis Proposal</p> <p>Topic: Rochester land development and groundwater use</p>
		<p>Jack Horner, Museum of the Rockies, Montana State University</p> <p>3:00 p.m. (Room 100) Digging dinosaurs around the world</p>

Apr. 20	Hartman Planning	<p>GGE SGE Awards Banquet at EERC (by ticket only)</p> <p>Banquet Speaker: Jack Horner</p> <p><i>Why dinosaurs changed their stripes: Dinosaur ontogenies - How skull shape changes dictate behavior</i></p>
Apr. 24	LeFever Planning	<p>1:00 p.m. (Room 215) Mike Blackstone, Department of Geology and Geological Engineering</p> <p>Master's Defense: Methane potential of upper Fort Union Formation Sandstones, Campbell County, Wyoming</p>
Apr. 27	Hartman Geol 421-422	<p>12:00 p.m. Justin Kringstad Senior Design Presentation</p> <p><i>Topic: Reservoir characterization of the Broom Creek Formation for carbon dioxide sequestration</i></p> <p>03:00 p.m. Heather Lammers Senior Design Presentation</p> <p><i>Topic: Levee stabilization design propoosal for flood control near the VFW icea arena in East Grand Forks, Minnesota</i></p> <p>03:45 p.m. Charles Gorecki Senior Design Presentation</p> <p><i>Topic: Potential of CO₂ enchanced oil recovery and sequestration in the Golden Pinnacle Reef Reservoir in the Williston Basin, North Dakota</i></p>
May 2	Advisor Planning	<p>Master's Student Project Presentations</p> <p>12:00 p.m. Shannon Heinle Master's Project Proposal</p> <p><i>Resolving terain effects in borehole temperature profiles</i></p> <p>12:30 p.m. Ryan Klapperich Master's Propect Proposal</p> <p><i>Analysis of associated bedrock-aquifer system sediments: Origins of electron donor-rich aquifers in eastern North Dakota</i></p>
May 4	Hartman Geol 421-422	<p>Reading and Review Day</p> <p>2:00 p.m. Jessica Phillips Senior Thesis Presentation</p> <p><i>Topic: Comparison of a CV chondrite with two Earth samples</i></p> <p>02:40 p.m. Chase Christensen Senior Thesis Presentation</p> <p><i>Topic: Topographic mapping of GJD 66 Basin</i></p> <p>03:15 p.m. Emil Opitz Senior Design Presentation</p> <p><i>Topic: Energy Use Factors and Future Conerns</i></p>
May 7	No lecture	Finals Week

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