

2006 EARTH SCIENCES STUDENT COLLOQUIUM

TECHNICAL PROGRAM

- 8:00 am COMPARISON OF WATER VAPOR CONDUCTANCE IN EGGS FROM TWO LATE CRETACEOUS DINOSAUR NESTING HORIZONS: AUCA MAHUEVO, ARGENTINA, AND THE PINYES LOCALITY, SPAIN: **JACKSON, Frankie D.**
- 8:15 am PRELIMINARY RESEARCH ON THE STRATIGRAPHY AND VERTEBRATE PALEONTOLOGY OF THE LUFENG FORMATION, YUNNAN PROVINCE, CHINA: **KNELL, Michael J.**
- 8:30 am TAPHONOMY OF A JUVENILE LAMBEOSAUR BONEBED IN THE TWO MEDICINE FORMATION OF MONTANA: **SCHERZER, Benjamin A.**, and VARRICCHIO, David J.
- 8:45 am THE EFFECTS OF PLUVIAL LAKE SYSTEMS ON THE PALEOBIOGEOGRAPHY OF *CANIS DIRUS* IN THE RANCHOLABREAN OF WESTERN NORTH AMERICA: **BONDE, Joshua W.**
- 9:00 am BEHAVIORAL IMPLICATIONS OF PEDAL PHALANGEAL MORPHOLOGY IN THEROPODA: **KAMBIC, Robert**
- 9:15 am **Intermission**
- 9:30 am RECONSTRUCTING POSTGLACIAL ENVIRONMENTAL CHANGES IN NORTHERN YELLOWSTONE NATIONAL PARK: **HUERTA, Mariana**, and WHITLOCK, Cathy
- 9:45 am A COMPARISON OF FIRE HISTORIES FROM THREE SITES IN GRAND TETON NATIONAL PARK: **JACOBS, Karen**, and WHITLOCK, Cathy
- 10:00 am THE EFFECTS OF THE CHESAPEAKE BAY IMPACT ON CALCAREOUS NANNOFOSSIL ASSEMBLAGES: PATTERNS FROM THE WATKINS SCHOOL CORE, NEWPORT NEWS, VIRGINIA: **SHELTON, Jessica**, LOCKWOOD, Rowan, and BYBELL, Laurel M.
- 10:15 am THE GIGATON GREENHOUSE GAS PROBLEM: MODELING THE POWDER RIVER BASIN FOR CO₂ SEQUESTRATION: **MELICK, JESSE J.**, and GARDNER, Michael H.
- 10:30 am EXPERIMENTAL STUDIES ON SUPERCRITICAL CO₂ CHALLENGE TO BRINE AQUIFER RESERVOIR ROCKS: **HANSEN, Logan**, SKIDMORE, Mark, and BOWEN, David

- 10:45 am CONTROLS ON INCISED VALLEY-FILL STRATIGRAPHIC ARCHITECTURE: FIDDLER CREEK AND CLARETON FIELDS, POWDER RIVER BASIN, WYOMING: **PEDERSON, Keriann H.**, and BOWEN, David W.
- 11:00 **Poster Session I (Authors will be present from 11:00 to 12:00)**
- GEOCHEMICAL EVIDENCE FOR MICROBIALLY MEDIATED SUBGLACIAL WEATHERING: **MONTROSS, Scott N.**, and SKIDMORE, Mark
- BIOGEOCHEMICAL CHANGES IN ALPINE CATCHMENTS IN RESPONSE TO GLACIER RETREAT: **BRUCKNER, Monica Z.**, and SKIDMORE, Mark L.
- STRUCTURAL EVOLUTION OF THE ELK RANGE THRUST SYSTEM, WESTERN COLORADO: **TULLY, Justin**
- PRELIMINARY RESEARCH: STRUCTURAL ANALYSIS OF PRESSURE-SOLUTION CLEAVAGE IN THE MCCARTNEY MOUNTAIN FOLD-THRUST SALIENT, SOUTHWEST MONTANA: **HELMKE, Elizabeth**, and LAGESON, David
- FAULT SCARP PROFILE STUDY OF THE CENTENNIAL MOUNTAINS AND CENTENNIAL NORMAL FAULT: **PETRIK, Falene E.**
- WEB-BASED INSTRUCTIONAL RESOURCES ON THE IMPACTS OF RESOURCE DEVELOPMENT ON NATIVE AMERICAN LANDS: **KLAUK, Erin**, and MOGK, David
- THE GIGATON GREENHOUSE GAS PROBLEM: MODELING THE POWDER RIVER BASIN FOR CO₂ SEQUESTRATION: **MELICK, JESSE J.**, and GARDNER, Michael H.
- GEOMORPHIC ORGANIZATION AND EFFECTIVENESS DESCRIBED USING HIGH RESOLUTION, SPATIAL DISTRIBUTION OF STREAM POWER: **WILLIAMS, Karen**, and LOCKE, Bill
- 12:00 pm **Lunch**
- 1:00 pm COMPARATIVE TAPHONOMY AND PALEOECOLOGICAL RECONSTRUCTION OF MICROVERTEBRATE ACCUMULATIONS IN THE HELL CREEK FORMATION (MAASTRICHTIAN), EASTERN MONTANA: **WILSON, Laura E.**
- 1:15 pm A NEW METHOD FOR DETERMINING GROWTH RATES OF SAUROPOD DINOSAURS: **WOODWARD, Holly N.**
- 1:30 pm AN ONTOGENETIC SERIES OF THE CERATOPSID DINOSAUR *EINIOSAURUS PROCURVICORNIS* AS DETERMINED BY LONG BONE HISTOLOGY: **REIZNER, Julie A.**, and HORNER, John R.

- 1:45 pm PALEONTOLOGY OF THE LATE NEOGENE PURISIMA FORMATION AT POMPONIO STATE BEACH, CALIFORNIA: **BOESSENECKER, Robert**
- 2:00 pm MOA SWAMPS AND CASSOWARY BONES: BRIDGING THE GAP BETWEEN PALEOPATHOLOGY AND CONSERVATION MEDICINE: **WOLFF, Ewan D. S.**
- 2:15 pm **Intermission**
- 2:30 pm OLD CANYON THROUGH THE MODERN LOOKING GLASS: SPATIAL TECHNOLOGIES AND A YELLOWSTONE HISTORICAL GEOGRAPHY: **PAPINEAU, Diane**
- 2:45 pm MT. ST. HELENS 1980 – 2005 ERUPTIONS AND THE LASSEN VOLCANIC CENTER CHAOS CRAGS HOLOCENE ERUPTIONS: WHY IS HORNBLLENDE CHEMISTRY SO DIFFERENT AT THESE TWO CASCADE ARC VOLCANOES?: **UNDERWOOD, Sandra**, and FEELEY, Todd C.
- 3:00 pm LONG-TERM MAFIC REPLENISHMENT OF A SILICIC CRUSTAL RESERVOIR IN THE LASSEN VOLCANIC CENTER, CALIFORNIA: **FERNANDEZ, Adriana**, and FEELEY, Todd C.
- 3:15 pm FIELD CONSTRAINTS ON MAGMA, HOST ROCK, AND XENOLITH RHEOLOGY DURING EMPLACEMENT OF THE JACKASS LAKES PLUTON, CENTRAL SIERRA NEVADA, CALIFORNIA: **WOLAK, Jeannette**, and YOSHINOBU, Aaron S.
- 3:30 pm **Poster Session II (Authors will be present from 3:30 to 4:30)**
- FAUNAL COMPARISON OF MICROVERTEBRATE ACCUMULATIONS IN THE JUDITH RIVER FORMATION (CAMPANIAN) AND HELL CREEK FORMATION (MAASTRICHTIAN) OF MONTANA: **FREEDMAN, Elizabeth**, and WILSON, Laura
- INTRASPECIFIC VARIATION IN LINES OF ARRESTED GROWTH IN TIBIAE OF *MAIASAURA PEEBLESORUM*: **BAZIAK, Brian**
- SPATIAL DISTRIBUTION AND COMPOSITIONAL VARIATIONS OF MAGMATIC INCLUSIONS IN THE MOUNT HELEN DOME, LASSEN VOLCANIC CENTER: IMPLICATIONS FOR MAGMA CHAMBER DYNAMICS: **WILSON, Luke F.**, FEELEY, Todd C., and UNDERWOOD, Sandra J.
- A RE-EVALUATION OF THE MAGNETOSTRATIGRAPHY OF THE GOLD HILL LOESS, INTERIOR ALASKA: **NAIBERT, Travis J.**
- A RE-EVALUATION OF THE KP BOUNDARY WITH SPECIAL CONSIDERATION TO LITHOSTRATIGRAPHY AND CHRONOSTRATIGRAPHIC RESOLUTION NEAR JORDAN, MT: **TURNER, Bryan W.**

DEPOSITIONAL ENVIRONMENTS AND SEQUENCE STRATIGRAPHY OF
EARLY CRETACEOUS (ALBIAN CENOMANIAN) STRATA, SOUTHWESTERN
MONTANA: **WILLIAMS, Eric M.**

THE SPATIAL VARIABILITY AND DISTRIBUTION OF EARLY DIAGENESIS
ALONG SUPER SURFACES OF INLAND, SILICICLASTIC ERG DEPOSITS:
BERGERON, Melody A.

MAP-BASED TESTS OF ANABRANCH CONTROLS ON THE LOWER
YELLOWSTONE RIVER, MONTANA: **JENKINS, Patricia,** and CUSTER, Steve

STRUCTURAL CONTROLS ON GALLATIN RIVER RECHARGE TO MADISON
LIMESTONE NEAR BIG SKY, MONTANA: **BLYTHE, Daniel D.,** and CUSTER,
Stephan G.

4:30 pm **Keynote Speaker:** Dr. Michael Reidy
MSU Department of History
Title: TBA

5:30 pm Dr. David Lageson,
Awards presentation
Closing address