

**JOE K. MOODY
SIMPSON COLLEGE SCIENCE & MATH
UNDERGRADUATE RESEARCH
SYMPOSIUM**

Spring 2006



**April 19, 2006
6:00 p.m.**

**SIMPSON COLLEGE SCIENCE & MATH
UNDERGRADUATE RESEARCH
SYMPOSIUM**

**Carver Science Center Atrium
and
Jordan Lecture Hall**

Oral Presentations

Understanding the Bible Code.

ROBERT DELSING
Sponsor: Bill Shellhorn

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Monopolist Strategies in a Durable Goods Market.

SHIKHA BASNET
Sponsor: Rick Spellerberg

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Sperm Competition.

JONNA ANDERSON
Sponsor: Rick Spellerberg

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Why humans?

CHASE RICHARDSON
Sponsor: Rick Spellerberg

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The Chaotic World of Dynamical Systems.

MELINDA GATTON
Sponsor: Murphy Waggoner

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The Origin of Color in Red Sandstones of the Floris Formation.

KIMBERLY DILLON AND SUSAN SANDFORD
Sponsor: Steve Emerman

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Provenance of the Chariton Conglomerate.

MATT BENNETT, JUSTIN KRABER AND JEWELL MOORE
Sponsor: Steve Emerman

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Historic Vegetation at Casey's Paha State Preserve.

LYNDON HAWKINS, REID LEICHTY AND MIKE TIANO
Sponsor: Steve Emerman

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A Protocol for the In Ovo Chorioallantoic Membrane (CAM) Assay for Erythropoietin Induced Angiogenesis.

AMANDA BRANCH[#] AND CARRIE CHRISTENSEN
Sponsor: Jackie Brittingham
Research Scholarship from Tri-Beta
[#]J.K. Moody Scholarship recipient

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BREAK

● **Poster Presentations: 7:05 - 7:15 p.m.** ●

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Brown Snake (*Storeria dekayi*) Subspecies of Iowa: *S. d. wrightorum* and *S. d. texanum*.

MEGHAN DILLINGHAM
Sponsor: Jeff Parmelee

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Behaviors of a Bizarre Salamander, the Lesser Siren (*Siren intermedia*).

SHAWNA BAKER
Sponsor: Jeff Parmelee
Research Scholarship from Tri-Beta
J.K. Moody Scholarship recipient

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Effects of the Herbicide Atrazine on Amphibians.

BEN SWEET AND BONNIE WULFEKUHLE
Sponsor: Jeff Parmelee

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Synthesis of Acylhomoserinelactones.

DEREK LYONS
Sponsor: Ron Warnet

Special Presentations:

Construction of Vertebrate Skeletons

Jeff Parmelee's Comparative Anatomy Students 2006

Dynamic Recordings of Cardiovascular Physiology: Students Energized by *Biopac*

Jackie Brittingham's Human Physiology Students 2006

Poster Presentations and Other Research

Comparison of Northern Cricket Frog Populations across the Glacial Boundary.

TARA BRAGG
Sponsor: Steve Ermerman

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Antimicrobial activity of anuran skin secretions; Red-eyed treefrogs inhibit *Salmonella* growth.

CORRIE BANGSTON AND BETH DAILY
Sponsor: Amy Doling

Zeta Functions of Finite Graphs.

PRAKASH KAYASTHA
Sponsor: Deb Czarneski

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Connected Sets.

MACY ALLEN
Sponsor: Bruce Sloan

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T_i Properties of Topological Spaces.

MANDI WHITE
Sponsor: Bruce Sloan

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Steady State Temperatures.

BRAD KNOX
Sponsor: Murphy Waggoner

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Folding and Cutting Paper.

ANGELA SERVAIS
Sponsor: Murphy Waggoner

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