

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

Spring 2005



April 19, 2005
6:00 p.m.

SIMPSON COLLEGE SCIENCE & MATH
UNDERGRADUATE RESEARCH
SYMPOSIUM

Carver Science Center Atrium
and
Jordan Lecture Hall

Does finite repeated prisoner's dilemma support cooperation?

CHRISSEY HENDRICKS
Sponsor: Rick Spellerberg

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Coherence Length and Frequency Spacing in a HeNe Laser.

JERRY BOSSARD
Sponsor: David Olsgaard

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Thermoregulation in humans examined through skin temperature and heat loss.

GRANT PETERSON
Sponsor: Steve Emerman

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Ignition time of a fire in relation to solar angle using convex lenses.

RICHARD ELINGS, REID LEICHTY, AND JASON SOPPE
Sponsor: Steve Emerman

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Physics of pool, Part II: Consistency of pocketing a ball off a break.

RANDY METZGER AND RYAN LAUGHLIN
Sponsor: Steve Emerman

Oral Presentations

The last great Boron talk.

KRISTINE ROBSON*
Sponsor: Steve Emerman
*Research Scholarship from Tri-Beta Biology Honorary Society.

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Behaviors of a bizarre salamander, the Lesser Siren (*Siren intermedia*).

SHAWNA BAKER AND ALLISON CHERRY
Sponsor: Jeff Parmelee

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Anticipating another flu pandemic.

JULIE STODDARD AND GYVONNE ALGERS
Sponsor: Pat Singer

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Saturated absorption spectroscopy of Rubidium.

AYE LU WIN
Sponsor: David Olsgaard

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BREAK

● *Poster Presentations: 7:10 - 7:30 p.m.* ●

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Morphometric analysis of separated sea urchin (*Lytechinus variegatus*) blastomeres.

TASHA BEENKEN*, ANN KELLER*, RYAN LAUGHLIN,
A.J. LENZ, AND RANDY METZGER

Sponsor: Jackie Brittingham

*Research Scholarship from Tri-Beta Biology
Honorary Society.

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Building a plasmid in which the green fluorescent protein gene is controlled by quorum signals.

HOLLY MAUDLIN
Sponsor: Pat Singer

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Characterization of the *fool's gold* zebrafish mutant.

LONNY MILLER*#, TABITHA IRELAND, AND
LINDSAY SAUNDERS*

Sponsor: Jackie Brittingham

*Research Scholarship from Tri-Beta Biology
Honorary Society.

J.K. Moody Scholarship recipient.

Sex ratio manipulation in Golden Hamsters.

ED STEINKE
Sponsor: Brian Peer

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Evolution of exaggerated male traits.

LYNDON HAWKINS
Sponsor: Brian Peer

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Poster Presentations

Synthesis of quorum sensing molecules.

SEAN SMITH, MONICA VILLA, AND DEREK LYONS
Sponsor: Ron Warnet

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Modeling the allocation of student senate funds.

BRAD ALLEN
Sponsor: Rick Spellerberg

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Agonistic behaviors of male House Mice.

MATT BENNETT, JUSTIN KRABER, AND BRYAN HOKE
Sponsor: Brian Peer

The effect of foot apparel on stride length.

BETH DAILY, ANN KELLER, AJ LENZ,
RACHEL MORRISSEY, AND TIFFANY SMITH
Sponsor: Steve Emerman

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**Magnetic susceptibility of avian eggs as a
measure of time in a nest.**

CORRIE BANGSTON, AMANDA COATES, LINDSAY SAUNDERS,
JOCINDA WILLER, AND BRANNON WRIGHT
Sponsor: Steve Emerman

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**Skull components and eating styles in mammals
and reptiles.**

ELISE AHRENS AND JENNIFER CHAMBERS
Sponsor: Steve Emerman

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**Jaw structure and bite force in reptiles and
mammals.**

MIKE DONNENWERTH, SHAWN PARKER, AND WADE SAMO
Sponsor: Steve Emerman

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**Effect of a four-week strength training program
and post-workout supplement on bench press ability.**

J.P. WEBB
Sponsor: Steve Emerman