

WCALB | Past Program, 2017

Winter Conference on Animal Learning and Behavior
Park City, UT
February 18-22, 2017

Saturday, February 18, 2017

3:00-8:00pm Arrive and check-in to hotel

Newpark Resort

8:00-9:00pm Welcome and refreshments

Maxwell's (Newpark Resort, lower level)

Sunday, February 19, 2017

General Session

Newpark Resort: Wasatch 227

Chair: Scott Cohn

3:00-4:00pm Registration check-in and on-site registration

4:00-4:15pm Amy Odum

Welcome address

4:15-4:45pm Andrei Popa & M. K. Grissom

Extinction-Induced Variability on Negatively Reinforced Human Behavior

4:45-5:15pm Fábio Leyser Gonçalves & Juliana Montenegro Brasileiro

Comparison of SHR and Wistar rats in a Multiple FI - EXT schedule: the role of a response feedback light

5:15-5:30pm Break

5:30-6:00pm Michael Lamport Commons

Four Forces That Prevent Change in Organizations: How to Become an Innovative Organization / Behavioral Momentum in Hierarchical and Non-Hierarchical Organizations

6:00-6:30pm Joseph Pear

Does the Study of Learning Need a More Scientific Name?

6:30-6:45pm Break

Student Showcase

Newpark Resort: Wasatch 227

Chair: Amy Odum

6:45-7:00pm Jeremy Haynes & Amy Odum

Peak responding during a mixed fixed interval schedule of reinforcement

7:00-7:15pm Stephen H. Robertson, Dante Kyne-Rucker, Bailey Perschon, Andra

Cates, Amber Wright, & Erin. B. Rasmussen

Effects of Exposure to a Cafeteria Diet in Adolescent and Adult Rats on Delay Discounting: Alterations on Dopaminergic Sensitivity

7:15-7:30pm Annie Galizio & Amy Odum

The Effects of Nicotine on Performance in a Titrating Delayed Matching-to-Sample Procedure in Pigeons

Monday, February 20, 2017

Monday, February 20

Focus session: Emergent Relations

Newpark Resort: Preserve 225

Chair: Greg Madden

4:00-5:00pm **Keynote: Mark Galizio**

Mark Galizio & Kate Bruce

The Search for Emergent Olfactory Stimulus Relations in Rats

5:00-5:15pm Break

5:15-5:45pm Anna Ingeborg Petursdottir

Observational Data on Children's Extra-Contingency Behavior in Baseline Trials

5:45-6:15pm Fábio Leyser Gonçalves & Mirela Louise Alves

Differences on the development of generalized identity and oddity from sample in rats

6:15-6:45pm Mark P. Reilly and Eric J. French

Multiple Sources of Stimulus Control in Successive-Discrimination Training Procedures

6:45-7:00pm Break

7:00-7:45pm **Panel:** Mark Galizio, Kate Bruce, Anna Ingeborg Petursdottir, Fábio

Leyser Gonçalves, Mark Reilly

Moderator: Amy Odum

Tuesday, February 21, 2017

Tuesday, February 21

Focus session: Incentive Motivation

Newpark Resort: Preserve 225

Chair: Mark Reilly

4:00-5:00pm **Keynote: Stanley Weiss**

Stanley Weiss

Incentive-Motivation: The Pervasive Process

5:00-5:15pm Break

5:15-5:45pm John A. (Tony) Nevin

Incentive motivation and behavioral momentum

5:45-6:15pm Darlene E. Crone-Todd & Brenna Hunt

Variability in the Shaping Process: The Ups and Downs of Reinforcement and Extinction

6:15-6:45pm Gregory J. Madden, C. Renee Renda, & Jillian Rung

Delay Exposure Training

6:45-7:00pm Break

7:00-7:45pm **Panel:** Stan Weiss, Tony Nevin, Darlene Crone-Todd, Greg Madden

Moderator: Amy Odum

7:45-8:00pm Break
8:00-10:00pm Banquet
Ghidotti's Italian Restaurant
6030 Market St #100, Park City, UT 84098

WCALB 2017

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Stanley Weiss
Annie Galizio
Casey Frye

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WCALB | Past Program, 2016

Winter Conference on Animal Learning and Behavior
Winter Park, Colorado
January 30 - February 3, 2016

Saturday, January 30, 2016

7:30 pm Buffet Reception
Hi Country Haus Condo 2121

All sessions are in the Hi Country Haus Meeting Room. We will try to open the Meeting Room a half-hour before a session is scheduled to begin for those who want to arrive early and socialize. **Five minutes is added to indicated presentation times for**

discussion.

Sunday, January 31, 2016

4:00pm - Keynote Address

Chair—Peter Killeen

Organismic and Environmental Influences on Delay Discounting: Evidence for a General Process

Amy L. Odum

Utah State University

Abstract-- Delay discounting is the decline in value of temporally remote outcomes and is relevant to many important health-related behavior problems. These include drug abuse, obesity and gambling. For reasons that are as yet unclear, delay discounting has been shown to vary for different types of outcomes. Delay discounting for one outcome is also related to discounting of other outcomes. This intra-personal consistency across outcomes could mean that delay discounting is a personality trait. However, there appear to be some important exceptions to this rule that could help us better understand delay discounting as a general process. Relatively recent attempts to modify delay discounting with the objective of producing therapeutic benefit will also be discussed.

Amy Odum is Professor of Psychology at Utah State University. She is Editor in Chief of the Journal of the Experimental Analysis of Behavior and has been President of the Society for the Experimental Analysis of Behavior and Division 25 of the American Psychological Association. Her research is concerned with basic behavioral phenomena such as response persistence, sensitivity to delayed outcomes, conditional discriminations, and environmental influences on drug effects. Dr. Odum's Ph.D. is from West Virginia University where she specialized in Behavior Analysis. Her post-doctoral fellowship was at the University of Vermont's Human Behavioral Pharmacology Laboratory.

Ten-Minute Break

5:30pm-Focus Session 1

Decision Making and Factors that Influence Reinforcer Value: Research and Applications

Chair—Darlene Crone-Todd

Deconstructing human dietary decisions: Is fullness reinforcing? Jeff Brunstrom (University of Bristol) (20-min)

Cross-Commodity Discounting and Sensation Seeking in Heavy Drinkers. Brandon Oberlin (Indiana University School of Medicine) (20-min)

Alcohol Treatment Changes Delay Discounting. Mikhail Koffamus (Virginia Tech Carilion School of Medicine) (20-min)

The "Poisoned Cue" and Reinforcement Effectiveness. Jesús Rosales-Ruiz (University of North Texas) (20-min)

Monday, February 1, 2016

4:00pm -- Focus Session 2: Decision Making and Factors that Influence Reinforcer Value: Research and Applications

Chair-Scott Cohn

The Effects of Physical and Cognitive Effort Requirements in Reward Valuation.

Suzanne Mitchell (Oregon Health & Science University) (20-min)

Essential Aspects of “Essential Value” in Behavioral Economic Demand: Recent Advances in Quantification. Derek D. Reed, Brent A. Kaplan (University of Kansas), Peter G. Roma, Steven R. Hursh (Institutes for Behavior Resources, Inc. and Johns Hopkins University School of Medicine) (25 min)

Understanding Value and its Discounts in Static and Changing Schedules of Reinforcement. Michael Lamport Commons, Kyle Gramer Featherston, Timothy Heffernan, Sagun P. Giri, Robin Francis Gane-McCalla, Nicholas Miller, Leonard Sidney Miller, Alexander Pekker, Andrew Michael Richardson, Michael Woodford (Harvard Medical School) (25-min)

Conditioning Context and Selective Associations: Reversing Modality of Control Without Changing Reinforcement Contingency Operating in the Tone + Light Compound Stimulus. Stanley J. Weiss (American University) (25-min)

Fifteen-Minute Break

6:00pm -- Focus Session 2 (continued)

Chair-Scott Cohn

Theory-Driven Versus Theory-Free Modeling of Decision-Making Data. Kimberly Kirkpatrick (Kansas State University)(20-min)

Timing is Everything: Constraints, Delays, and Discounting. Darlene E. Crone-Todd (Salem State University) (20-min)

Human Choice Between Variable and Fixed Rewards in Hypothetical Discounting Procedures. Todd McKerchar (Jacksonville State University) & Jim Mazur (Southern Connecticut State University) (20 min.)

100 Pizzas. Peter Killeen (Arizona State University) (20-min)

8:30pm--Conference Dinner at Fontanot's

Tuesday, February 2, 2016

4:00pm -- General Session

Chair=Chase Owens

Factors that Impact Acquisition and Maintenance of 3,4

Methylenedioxymethamphetamine (MDMA) Self-Administration in Rats. Susan Schenk (Victoria University of Wellington) (15-min)

Impulsivity and Rapid Habit Learning Genetically Correlate with Free Choice Alcohol Intake. Nicholas Grahame (University Perdue University Indianapolis) (15-min)

Variable Reinforcement Produces Variable Behavior. Isabel Cunningham & Jesús Rosales-Ruiz (15-min)

Creativity: Reinforcing Variability is Not Enough. Andrew Kieta & Jesús Rosales-Ruiz (15-min)

Ten-Minute Break

5:30pm - Research Seminar Session: Decision Making and Factors that Influence Reinforcer Value: Research and Applications

Facilitator—Amy Odum

Jeff Brunstrom, Michael Commons, Darlene Crone-Todd, Peter Killeen, Kimberly Kirkpatrick, Mikhail Koffamus, Todd McKerchar, Jesús Rosales-Ruiz, and Stanley Weiss

with contributions by all conference participants encouraged.

Ten-Minute Break

7:00pm - Performance Art and Profound Integration Session

Art≈Science≈Music≈Math. Peter Killeen (Arizona State University) (25-min)

Wednesday, February 4, 2016

Check out time is 10:00AM

WCALB 2016

Stanley Weiss, Convener & Program

Supporting Committee

Peter Killeen

Jesús Rosales-Ruiz

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WCALB | Past Program, 2015

Winter Conference on Animal Learning and Behavior

Winter Park, Colorado

January 31 - February 4, 2015

Saturday, January 31, 2015

7:30pm -- Buffet Reception

Snowblaze Building C - Unit 14

All sessions are in the Conference Room on the second floor of Snowblaze, main building. We will try to open the Conference Room a half-hour before a session is scheduled to begin for those who want to arrive early and socialize. If it isn't open, there is a "commons" area nearby. **Five minutes is added to indicated presentation times for discussion.**

Sunday, February 1, 2015

4:00pm - Keynote Address

Jessica Stagner, Chair

An Animal Model of Human Gambling Behavior

Tom Zentall

University of Kentucky

Abstract--Humans buying lottery tickets are engaging in an activity that generally leads to losing money. Although animals are purported to engage in optimal foraging behavior and should be sensitive to the overall probability or amount of reinforcement, they can exhibit similar suboptimal behavior. This appears to result from the strong conditioned reinforcement associated with a stimulus always followed by reinforcement but little conditioned inhibition associated with the absence of reinforcement. Similarly, human gamblers tend to overvalue wins and undervalue losses. Other parallels to human gambling behavior have been found with pigeons. Pigeons on a less restricted diet show a reduced tendency to choose suboptimally, as do pigeons with enriched social experience. This animal model may provide a useful analog to human gambling behavior -- one that is free from the influence of human culture, language, social reinforcement, and other experiential biases that may encourage human gambling.

Thomas Zentall is DiSilvestro Professor of Arts and Sciences at the University of Kentucky, Fellow in the Society of Experimental Psychologists and was a Fulbright Visiting Professor at Université de Lille, France. Dr. Zentall received his PhD from the University of California at Berkeley. He has served as President of the Midwestern Psychological Association, Eastern Psychological Association, Comparative Cognition Society as well as Governing Board Chair of the Psychonomic Society.

Ten-Minute Break

6:00pm-Focus Session 1

Decision Making and Suboptimal Choice

Gambling Primates: Reactions to a Modified Iowa Gambling Task in Humans, Chimpanzees and Capuchin Monkeys. Darby Proctor (Yerkes National Primate Research Center) (20-min)

Gambling: How Uncertainty Enhances the Attribution of Incentive Salience. Mike Robinson (Wesleyan University) (20-min)

Monday, February 2, 2015

4:00pm -- Focus Session 2

Scott Cohn, Chair

Decision Making and Suboptimal Choice

The Trouble With the (Discounting) Curve. Kimberly Kirkpatrick (Kansas State University) (20-min)

Choice Between Reliable and Unreliable Sources of Reinforcement. Terry Belke (Mount Allison University) (20-min)

Do Humans Share Non-Humans Preference for Variable Schedules of Reinforcement? Stephen Flora (Youngstown State University) (15-min)

Ten-Minute Break

Switching Between Two Choices: The Third Operant. Jesús Rosales-Ruiz & Camille Kolu, (University of North Texas) (25-min)

Conditioning History, Conditioned Inhibition and the Decision to Seek Drugs. Stanley Weiss & David Kearns (American University) (25 min)

Pavlovian Impulsivity: Predictions From a Neural Network Model. José Burgos & Óscar García, (University of Guadalajara) (20-min)

8:15pm--Conference Dinner at Fontanot's

Tuesday, February 3, 2015

4:00pm -- Focus Session 3

Richard Weissman, Chair

Decision Making and Suboptimal Choice

Is More Better Than Less. Tomas Zentall, Jacob Case & Jasmine Luong, (University of Kentucky) (15-min)

Investigation of the Monty Hall Dilemma in Pigeons and Rats. Jessica Stagner (University of Florida) (20-min)

General Session

The Effects of Beacons and Surface Features on Human Spatial Reorientation. Kent D. Bodily, Bradley R. Sturz, and Zachary A. Kilday (Georgia Southern University (15-min)

Resolving Consequential Matrices With Programmed Instruction in Dog Training. Chase Owens (University of North Texas) (15-min)

Ten-Minute Break

5:35pm - Research Seminar Session: Decision Making and Suboptimal Choice

Tom Zentall, Facilitator

Terry Belke, Stephen Benoit, José Burgos, Stephen Flora, Kimberly KirkPatrick, Darby Proctor, Mike Robinson, Jesús Rosales-Ruiz, Jessica Stager and Stanley Weiss with contributions by all conference participants encouraged.

WCALB Organizing Committee

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WCALB | Past Program, 2014

Winter Conference on Animal Learning and Behavior
Winter Park, Colorado
February 8-12 2014

Saturday, February 8, 2014

7:30pm -- Buffet Reception
Snowblaze Building B - Unit 34

All sessions are in the Conference Room on the second floor of Snowblaze, main building. We will try to open the Conference Room a half-hour before a session is scheduled to begin for those who want to arrive early and socialize. If it isn't open, there is a "commons" area nearby. **Five minutes is added to indicated presentation times for discussion.**

Sunday, February 9, 2014

Keynote Address

Stanley Weiss, Chair

Pavlovian and Skinnerian Processes are Genetically Separable

Björn Brembs

Universität Regensburg

Abstract--The commonalities and differences between operant and classical conditioning have been debated ever since Skinner and Konorski embarked on their epic exchange about "two types of conditioned reflex and a pseudo type" in the 1930s. New techniques that surmount experimental design problems identified in early

research allow for a much improved separation of the two types of conditioning. These technical advances, combined with modern genetic manipulations, provide evidence that Pavlovian and Skinnerian processes separate not between the learning procedure (operant vs. classical), but between learning content (self vs. non-self). The picture emerging today reinforces Skinner's early insight that operant conditioning is a composite situation, comprised of a 'Pavlovian' component (learning about stimuli - 'world-learning') and a 'Skinnerian' component (learning about the consequences of actions - 'self-learning'). A research program that distinguished these processes genetically is described.

Björn Brembs is Professor of Neurogenetics at Universität Regensburg. He obtained his doctorate in genetics and neurobiology from Universität Würzburg and has done post-doctoral research at the University of Texas Houston Health Science Center.

Thematically, Dr. Brembs' research concerns the general organization of behavior with regards to reward and punishment with the objective of better understanding how brains accomplish adaptive behavioral choice. See

<http://brembs.net/about.html>.

6:00pm-Focus Session 1

Operant/Classical Conditioning: Comparisons and Interactions

Comparison of Pavlovian and Operant Processes at the Behavioral and Neurological Levels. Jeremie Jozefowicz (Université Lille Nord de France)

Monday, February 10, 2014

4:00pm - Focus Session 2

Carl Danson, Chair

Operant/Classical Conditioning: Comparisons and Interactions

Ten-thousand trials of Pavlov, Skinner, and Nevin. Peter Killeen (Arizona State University) 25-min.

The Voluntary Operant. Allen Neuringer (Reed College) 25-min.

The Instrumentally Derived Incentive-Motivational Function. Stanley J. Weiss (American University) 25-min.

Ten-Minute Break

Accounting for Operant Learning With Three Procedural Steps of Very Different Respondent Conditioning Using the Model of Hierarchical Complexity. Michael Lamport Commons (Harvard Medical School) & Sagun P. Giri (Dare Institute) 25-min.

Conditioning Reinforcers: A Pavlovian or an Operant Learning Process? Jesús Rosales-Ruiz (University of North Texas) 25-min.

8:15pm--Conference Dinner at Fontanot's

Tuesday, February 11, 2014

4:00pm - Fear, Aggression, Resurgence plus Behavioral Pharmacology

Scott Cohn, Chair

Research on Fear and Aggression in Dogs. Jesús Rosales-Ruiz (University of North Texas) 20-min.

Conditioned dopamine release scales with cocaine dose during Pavlovian conditioning. Bruce Mandt (University of Colorado-Denver) 15-min.

How real-time dopamine concentrations in the nucleus accumbens change in relationship to the temporal response pattern engendered by a fixed-interval schedule of reinforcement. Eric B. Oleson (University of Colorado-Denver) 15-min.

Investigating Resurgence in Humans Through a Table-Top Game. Erica Foss (University of North Texas) 15-min.

Ten-Minute Break

5:35pm - Research Seminar Session: Operant/Classical Conditioning: Comparisons and Interactions

Björn Brembs, Facilitator

Michael Commons, Jeremie Jozefowicz, Peter Killeen, Allen Neuringer, Jesús Rosales-Ruiz and Stanley Weiss with contributions by all conference participants encouraged.

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WCALB | Past Program, 2013

Winter Conference on Animal Learning and Behavior

Winter Park, Colorado

February 2 through February 6, 2013

Saturday, February 2, 2013

7:30 Buffet Reception

Snowblaze Building B, Unit 34

All sessions are in the Conference Room that is on the second floor of Snowblaze, main building. The Conference Room will open a half-hour before a session is scheduled to begin for those who want to arrive early and "mingle". Five minutes is added to indicated presentation times for discussion.

Sunday, February 3, 2013

KEYNOTE ADDRESS

Carl Danson, Chair

Behavioral Dependence

Patrick Beardsley Virginia Commonwealth University

Jack Bergman

Harvard Medical School

Abstract-- Pharmacological state (or context) and history can direct the expression of learned behavior (e.g., state dependent learning, drug discrimination). Additionally, abrupt drug abstinence can control the expression of learned behavior, a phenomenon that can be defined as *behavioral dependence*. In this presentation, examples of *behavioral dependence* will be described and contrasted with *physical dependence*. In addition, the potential ramifications of behavioral dependence, as well as the implications for regulatory control of drugs, will be considered.

Pharmacological History and the Control and Expression of Learning and Behavior

5:15 Focus Session I

Carl Danson, Chair

Recent Pharmacological History Matters in Smoking Cessation: Modeling the Influence of Initial Smoking Abstinence. Stephen T. Higgins (University of Vermont Medical School) (25-min)

Conditioning History and the Conditioned Inhibition of Drug Seeking. Stanley J. Weiss & David N. Kearns. (American University) (25-min)

Monday, February 4, 2013

4:15 Focus Session II

Scott Cohn, Chair

Amplification of Incentive Learning by Nicotine: Evidence From Operant Conditioning and Pavlovian Conditioned Approach Models. Matthew I. Palmatier & A. Brianna Sheppard (East Tennessee State University) (25-min)

Contextual and Behavioral Control of Antipsychotic-Induced Sensitization and Tolerance. Ming Li (University of Nebraska) (25-min)

Adolescent Nicotine Alters Hippocampal Neuron Morphology. Daniel G. Ehlinger, Hadley C. Bergstrom, Abdullah Ismail, Craig G. McDonald, & Robert F. Smith (George Mason University) (25-min)

Ten-Minute Break

Effects of Nicotine on Response-Withholding Performance in an Animal Model of Attention Deficit Hyperactivity Disorder (ADHD). Federico Sanabria, Gabriel J. Mazur, Gabriel Wood-Isenberg, & Elizabeth Watterson. (Arizona State University) (25-min)

Acquisition and Escalation of Cocaine Self-Administration During Continuous NMDA Receptor Blockade. Richard M. Allen (University of Colorado-Denver) (25-min)

8:15pm--Conference Dinner at Fontanot's

TUESDAY, February 5, 2013

4:00pm -- Enhanced Self-Administration and Incentive-Motivation

Daniel Ehlinger, Chair

Short access procedure for studying escalation of cocaine self-administration. Richard M. Allen (University of Colorado-Denver) (15-min)

Neurobiological mechanisms of antipsychotic sensitization and tolerance: Some preliminary findings. Ming Li (University of Nebraska) (15-min)

Experimenter-Administered Caffeine Increases Alcohol Self-Administration in Rats. Matthew I. Palmatier, Scott A. Jones, A. Brianna Sheppard (East Tennessee State University) (15-min)

The Instrumentally-Derived Incentive-Motive Function: Introduction and Implications. Stanley J. Weiss (American University) (20-min)

Ten-Minute Break

5:30pm - Research Seminar Session: Pharmacological History and the Control and Expression of Learning and Behavior. Patrick Beardsley & Jack Bergman, Facilitators
Richard Allan, Dan Ehlinger, Steve Higgins, Ming Li, Matt Palmatier, Federico Sanabria and Stan Weiss with contributions by all conference participants encouraged.

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WCALB | Past Program, 2012

Winter Conference on Animal Learning and Behavior

Winter Park, Colorado

January 28 through February 1, 2012

Saturday, January 28, 2012

7:30 Buffet Reception

Snowblaze Building B, Unit 34

Sunday and Tuesday sessions are in the Conference Room on the second floor of Snowblaze, main building. Monday's Session is in Snowblaze Building B, Unit 34. The Conference Room will open a half-hour before a session is scheduled to begin for those who want to arrive early and "mingle". Five minutes is added to indicated presentation times for discussion.

Sunday, January 29, 2012

KEYNOTE ADDRESS

Francys Subiaul, Chair

Project Nim. The Untold Story

Herb Terrace

Columbia University

Abstract--In the mid-70's, I directed a project at Columbia University to teach Nim, an infant chimpanzee, to use American Sign Language. Project Nim, a documentary that opened on July 8, loosely describes the project. It shows Nim interacting with his teachers after he arrived from his birthplace at the Primate Institute in Norman, Oklahoma when he was two weeks old. Viewers would have to close their eyes not to appreciate Nim's loveable personality and his endearing antics. But, unfortunately, they would be hard pressed to see the science on which the project was based.

That's because the documentary pointedly avoided that topic, -which is a shame because the project provided important scientific insights into what chimpanzees can tell us about humanity. The project's goal was to determine whether a non-human primate could learn to use grammatical rules to create particular meanings, the essence of language. Positive evidence of Nim's grammatical ability would undermine the claim of human uniqueness in the animal kingdom. Negative evidence would raise the question, "Why can't a chimpanzee learn a grammatical language?" My talk today addresses that question and also outlines what there is about the evolution of humans that made them specifically equipped to learn language.

Theory of Mind: Current Status of the Controversy

5:25 Focus Session I

Kerry Jordans, Chair

Metarepresentation and mindreading: Where to draw the line?. Cameron Buckner (University of Houston) (25 min)

The Ecological-Behavioral-Jamesian Research Program Raises Difficult Questions for

"Theory of Mind". Eric P. Charles (Pennsylvania State University) (25 min)
What Can Fruit Flies Tell Us About the Evolutionary Roots of Language? Bjoern Brembs (Freie Universität, Berlin) (25 min)

Monday, January 30, 2012

4:15 "Project Nim" Presentation

Ten-Minute Break

5:45 Discussion of "Project Nim"

Five-Minute Break

Bi-Directional Transfer Between Performance on Transitive Inference and Simultaneous Chaining Paradigms. Herb Terrace (Columbia University) (25 min)

8:15 Conference Dinner at Fontanot's

TUESDAY, January 31, 2012

4:30 Comparative Psychology of Information Processing, Animal Learning Models of Drug Abuse

Carl Danson, Chair

One, Two, Three: How Orangutans and Human Children Order Meaningless and Meaningful List Items. Francys Subial (George Washington University) (15 min)

Functional Features of Speech by a Nonhuman Speaker. Erin Colbert-White (University of Georgia) (15 min)

Ethanol Self-Administration, Chronic Stress, and Spontaneous Recover in Rats. Cody Brooks (Denison University) (15 min)

Ten-Minute Break

Conditioned Inhibition and Deepened Extinction of Cocaine Seeking. Stanley J. Weiss, David N. Kearns & Brendan Tunstall (American University) (25 min)

Increasing Environmentally Friendly Behavior Through the Application of Basic Behavioral Principles. Scott Cohn (Western State College of Colorado) (15 min)

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Rick Bevins

Cody Brooks

Kevin Myers, Program & Focus Session

Mark Reilly

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WCALB | Past Program, 2011

Winter Conference on Animal Learning and Behavior
Winter Park, Colorado
January 29 through February 2, 2011

Saturday, January 29, 2011

7:30 Buffet Reception

Snowblaze Building B, Unit 34

All paper sessions are in the Conference Room on the second floor of Snowblaze. The Conference Room will open a half-hour before a session is scheduled to begin for those who want to arrive early and "mingle."

Sunday, January 31, 2011

KEYNOTE ADDRESS

Kevin Myers, Chair

Bi-directional Links Between Obesity and Learning and Memory Dysfunction

Terry Davidson

Purdue University

Abstract: Traditionally, investigators have viewed the problems of overeating and obesity, on one hand, and cognitive disorder on the other, as involving dissimilar etiologies that target different underlying behavioral and biological functions which rely on distinct brain structures and circuits. However, evidence is emerging that obesity and cognitive impairment are causally-intertwined. Integrating recent neuroanatomical, physiological, and behavioral findings, this talk will describe how dietary factors may promote obesity by interfering with negative occasion setting a learning and memory process that may be critically involved with inhibiting conditioned appetitive and consummatory behaviors.

Sunday, January 30, 2011

Experience Modulates Reward: Acquired Controls of Appetites
For Food and Drugs

5:15 Focus Session I

Susie Swithers, Chair

Fatty Acids, Insulin Signaling and Hippocampal Learning. Debbie Clegg (University of Texas-Southwestern) (20 min)

Relearning the Basics: Intero- and Exteroceptive Cues following Bariatric Surgery for Weight Loss. Stephen Benoit (University of Cincinnati) (20 min)

Can a Theory of 'Incentive Relativity' Account for Motivational Deficits in Obesity? Andrea Tracy (Grinnell College) (20 min)

Appetitive-Aversive Interactions and Appetite. Stan Weiss, Richard Weissman & Dave Kearns (American University) (25 min)

Monday, February 1, 2011

4:15 Focus Session II

Amy Odum, Chair

Memories of Recent Eating and Appetite. Suzanne Higgs (University of Birmingham, UK) (15 min)

Learning and Controls of Meal Size in Humans. Jeff Brunstrom (University of Bristol, UK) (20 min)

Factors Influencing the Development of Children's Flavor Preferences. Catherine Forestell (College of William & Mary) (20 min)

Cue Exposure Treatment for Overeating in Overweight and Obese Children. Kerri Boutelle (University of California-San Diego) (20 min)

Ten-Minute Break

Associative Learning Mechanisms Underpinning Stimulus Control of Human Drug Seeking. Lee Hogarth (University of Nottingham, UK) (20 min)

Learning Involving the Nicotine State. Rick Bevins (University of Nebraska-Lincoln) (20 min)

Influence of Taste Cues and Calories on Energy Balance in Rats. Susie Swithers (Purdue University) (20 min)

8:15 Conference Dinner at Fontanot's

TUESDAY, February 1, 2011

4:30 Learning: Flavor Nutrient, Delay Discounting, Recency and Reversal Effects

Rick Bevins, Chair

Palatability and Preference: What's Really 'Resistant to Extinction' in Flavor-Nutrient Learning? Kevin Myers (Bucknell University) (15 min)

Recency Effects on Response Preference, Renewal and Resurgence Within a Food Reinforced Functional Response Class. Jennifer Sobie (University of Illinois Champaign/Urbana) (15 min)

Development of an Experiential Delay Discounting Task for Young Children. Amy L. Odum, Kerry Jordan, Gregory J. Madden, Katrina Rodzon & Meredith S. Berry (Utah State University) (15 min)

Acquisition of a Mid-Session Reversal Learning Task by Pigeons and Rats. Jessica Stagner (University of Kentucky) (15 min)

Cocaine Self-Administration: Revisiting Criteria for Acquisition. Bruce H. Mandt &

Richard M. Allen (University of Colorado-Denver) (Poster will be on display Monday & Tuesday).

Ten-Minute Break

6:00 Discussion: Current Status and Future Directions in the Investigation of How Experience Modulates Reward

Terry Davidson, Facilitator

Stephen Benoit, Rick Bevins, Kerri Boutelle, Jeff Brunstrom, Debbie Clegg, Catherine Forestell, Lee Hogarth, Suzanne Higgs, Kevin Myers, Susie Swithers, Andrea Tracy and Stan Weiss with participation by all conference participants encouraged.

Wednesday, February 3, 2011

Check out time is 10 am

WCALB Organizing Committee

Stan Weiss, Convener & Program

Rick Bevins

Cody Brooks

Terry Davidson, Focus Session

Kevin Myers, Program & Focus Session

Mark Reilly

Bill Timberlake

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WCALB | Past Program, 2010

Winter Conference on Animal Learning and Behavior

Winter Park, Colorado

January 30 - February 3, 2010

Saturday, January 30, 2010

7:30pm -- Buffet Reception

Snowblaze Building B - Unit 34

All paper sessions are in the Conference Room on the second floor of Snowblaze. The Conference Room will open a half-hour before a session is scheduled to begin for those who want to arrive early and "mingle".

Sunday, January 31, 2010*

4:30pm-Animal Learning: General and Behavioral Pharmacology

Melinda Beane, Chair

Location Change Detection by Pigeons --Kenneth J. Leising*, Anthony A. Wright*, Jacquelyne Rivera*, Jeff S. Katz** & John F. Magnotti** (*University of Texas Medical School at Houston & **Auburn University) (15 min)

Resistance to extinction of learned preference based on flavor-nutrient associations - Kevin Myers (Bucknell University) (15 min)

The Effects of Nicotine on Resistance to Extinction of Responding for a Visual Stimulus. Scott T. Barrett, Matt E. Tracy & Rick A Bevens (University of Nebraska - Lincoln) (15 min)

Drug History and the Conditioned Inhibition of Self-Administration. Stanley J. Weiss & David N. Kearns (American University) (20 min)

Spatiotemporal Distribution of Behavior: Molar Measures and Adjustment Indexes. Mario Serrano* & Emilio Ribes* ** (*Universidad Veracruzana & **Universidad de Guadalajara) (Poster)

Ten-Minute Break

6:00pm -- KEYNOTE ADDRESS

Andrew Delamater, Chair

Rational Rats: Causal Inference and Representation

Aaron Blaisdell

University of California, Los Angeles

Abstract--David Hume posed a dilemma: How do we derive cause-effect relationships in the absence of direct causal perception? His answer was that knowledge of the causal texture of the world was merely an inference (or illusion) derived from observed statistical regularities. Recent challenges from Philosophy, Statistics, and Psychology argue that we can go beyond the information given (i.e., contingency) by dissecting cause-effect relationships using our own actions (i.e., interventions) on the world. I will present evidence that like humans, rats a) build causal models of the

world, derive causal inferences from their interventions, and are sensitive to the difference between the observed world and its images. I also show how rats may not be as functionally sophisticated as the scientists who study them. These experiments raise important questions about the interface between learning and cognition.

Monday, February 1, 2010*

4:30pm--Focus Session

Steve Fountain, Chair

The Interface Between Learning and Cognition

In search of a viable distinction between cognition and "mere association". Cameron Buckner (Indiana University) (30 min)

Associate Models of Cognition Versus Cognitive Models of Association. Andy Baker (McGill University) (30 min)

Cognitive Dissonance in Rats? A Reminder of Lloyd Morgan's cannon. Dominic Dwyer (Cardiff University, Wales) (30 min)

Ten-Minute Break

Animal Models of Cognition. Jonathon Crystal (University of Georgia) (30 min)

Nature of Representations and How they Guide Performance. Andrew Delamater (City University of New York, Brooklyn) (30 min)

8:15pm--Conference Dinner at Fontanot's

Tuesday, February 2, 2010

4:30pm- Focus Session (continued)

Jonathon Crystal, Chair

Rapid Sequence Learning Facilitates Flexible Behavior in Rats. Melinda Beane (Lane College) (30 min)

The Organization of Sequential Behavior: Association and Abstraction. Stephen Fountain Kent State University (30 min))

Ten-Minute Break

5:45pm-Research Seminar: The Interface Between Learning and Cognition

Aaron Blaisdell, Facilitator

Andy Baker, Melinda Beane, Cameron Buckner. Jonathon Crystal, Andrew Delamater, & Dominic Dwyer with participation by other conference participants encouraged.

A video recording of the Research Seminar, where we debated and discussed these issues in an open format, is available for viewing on Vimeo: Part 1

(<http://vimeo.com/19943758>) and Part 2 (<http://vimeo.com/20261769>).

Wednesday, February 3, 2010 -- Check out time is 10am

WCALB 2010 Organizing Committee

Stan Weiss, Convener, Program & Focus Session

Aaron Blaisdell, Focus Session

Rick Bevins

Cody Brooks

Kevin Myers

Mark Reilly

Bill Timberlake

*Five minutes will be added to the presentation times indicated for questions and discussion.

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WCALB | Past Program, 2009

Winter Conference on Animal Learning and Behavior
Winter Park, Colorado
January 31-February 4, 2009

Saturday, January 31, 2009
7:30pm -- Buffet Reception
Snowblaze Building B - Unit 34
Sunday, February 1, 2009*

4:30pm -- KEYNOTE ADDRESS

Jim MacDonall, Chair

Economic Demand, Reinforcer Essential Value and Drug Addiction

Steven R. Hursh

Institutes for Behavior Resources, Inc. and
Johns Hopkins University School of Medicine

A fundamental tenant of behavior analysis is that operant behavior is strengthened by its consequences and that the strength of a reinforcer determines the strength of the behavior it supports. Behavioral economics provides a framework for understanding and measuring reinforcer strength. Reinforcer consumption is measured as a function of the requirements to obtain the reinforcer (price), a relationship called the demand

curve. An exponential equation models demand curves and the rate constant of the exponential scales the strength or essential value of a reinforcer. Essential value can be used to assess abuse liability of drugs and progressive changes in essential value with increasing reinforcer experience may be the defining property of drug addiction.

Ten-Minute Break

Sunday, February 1, 2009*

(Continued)

6pm-- Does Behavioral Economics have Relevance to Public Policy

Steve Hursh, Discussion Leader and Facilitator

President Obama again asserted in his inaugural the importance of science for the future of the nation, unfettered by political dogma. Steve believes the time is right to offer ourselves as behavioral scientists to assist with the formation of new public policy in the areas of energy conservation, health, drug abuse, education, crime, and national security. He will share his thoughts on the relevance of behavioral economics to public policy, describe his initiative in organizing a working group to take the most productive advantage this opportunity and plans to offer IBR as a host for relevant meetings. In the resulting discussion of this initiative, we will be his first "working group".

Monday, February 2, 2009*

4:30pm--Focus Session

Patrick Beardsley, Chair

Behavioral Pharmacology, Behavioral Economics
and Reinforcement Value

When and Why Are Choices Emitted Stochastically? Alan Neuringer, Reed College (15 min)

The Behavioral Economics of Animal "Gambling". Greg Madden, University of Kansas (25-min)

Rats are less sensitive to price differences when responding for wheel running. Terry Belke, Mt. Allison University (20 min)

The Stay/Switch Model: Choice Among Topographically Different Responses. James S. MacDonall & Jacqueline McMahon, Fordham University (20-min)

Ten-Minute Break

6:20 pm--Reinforcing Effects of Drugs

Reinforcing effects of directly- and indirectly-acting cannabinoid drugs in squirrel monkeys. Steve Goldberg, National Institute of Drug Abuse (30 min)

8:15pm--Conference Dinner at Fontanot's

TUESDAY, February 3, 2009

5pm--Animal Learning: General

Mark Reilly, Chair

-Learning flavor-nutrient associations with multiple flavors in a meal. Kevin Myers, Bucknell University (15 min)

Food Reinforcement and Extinction of Spatial Target Location by Betta splendens.

Joseph J. Pear, Thais Sales, & Wayne S. Chan, University of Manitoba (15 min)

Conditioning Context and Resurgence. David N. Kearns & Stanley J. Weiss, American

University (15 min)

Going Green: An Environmentally Conscious Animal Research Facility. Scott Cohn,
Western Colorado College (15 min)

Wednesday, February 4, 2009 -- Check out time is 10am

WCALB 2009 Organizing Committee

Stan Weiss, Convener & Program

Rick Bevins

Cody Brooks, Program

Mark Reilly

Bill Timberlake, Focus Session

*Five minutes will be added to the presentation times indicated for questions and discussion

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WCALB | Past Program, 2008

Winter Conference on Animal Learning and Behavior

Winter Park, Colorado

February 2 - 6, 2008

Saturday, February 2, 2008

7:30pm -- Buffet Reception

Snowblaze Building B - Unit 34

Sunday, February 3, 2008

4:30pm -- KEYNOTE ADDRESS

Stan Weiss, Chair

Can Animals Cognitively Time Travel to the Past and Future?

William A. Roberts

University of Western Ontario

An interesting issue in comparative cognition is whether animals, like people, can cognitively time travel or think about their past and anticipate their future. Earlier reviews of what evidence was available suggested animals could not cognitively time travel and that they were stuck in time or largely limited to awareness of only the present moment. Their memory was held to be semantic but not episodic. More recent studies from my laboratory and others with birds, nonhuman primates, and rats now suggest that these animals may have episodic-like memory and be able to plan for the future. The comparative implications and possible limitations of these new findings will be discussed.

Ten-Minute Break

6pm--Focus Session

Bill Timberlake, Chair

Remembering and Anticipating Events in Time

Can Rats Engage in Cognitive Time Travel?

Jonathon Crystal (University of Georgia) (15 min)

Rats Anticipate Injections of Addictive Drugs on a Circadian Schedule.

Andrea Gillman (University of Indiana) (15 min)

If Nonhuman Animals Anticipate the Future, How Do They Do It?

Robert Hampton (Emory University) (15 min)

Focus Session Continued on Monday at 4:30pm

Monday, February 4, 2008

4:30pm--Focus Session (continued)

Bill Timberlake, Chair

Remembering and Anticipating Events in Time

The What, When, and Where of Episodic-like Memory in Pigeons: Is it Enough? Rebecca Singer (Georgetown College) (15 min)

The Encoding of Spatiotemporal Information in Time-Place Learning.

Christina Thorpe (Memorial University of Newfoundland) (15 Min)

Time Horizons Revealed by Contrast Procedures.

Bill Timberlake (University of Indiana) (15 min)

Focus Session and Keynote Discussion

Bill Roberts, Jonathon Crystal, Andrea Gillman, Robert Hampton, Rebecca Singer, Christina Thorpe, Bill Timberlake & audience

Ten-Minute Break

6pm—Eric Heinemann Memorial Lecture

Carl Danson, Chair

A Memory Model for Decision Processes in Pigeons.

Sheila Chase (Hunter College of the City University of New York)

7pm—Memory and Stimulus Control

Carl Danson, Chair

Invisible displacement as a pre-requisite for episodic memory?

Holly C. Miller & Thomas R. Zentall (University of Kentucky) (15 min)

Reversibility of Composite-Stimulus Control.

Stanley J. Weiss, David N. Kearns & Maria Antoshina (American University) (15 min)

8pm--Conference Dinner at Fontanot's

TUESDAY, February 5, 2008

5pm--Stress, Punishment, Time Discrimination & Drug Treatment

Cody Brooks, Chair

Cold Stress as a Potential Confound in Sleep Deprivation Procedures Using Water.

Scott Cohn (Western State College) and Joseph Long (Walter Reed Army Institute of Research) (15 min)

An Analysis of the Peak Interval Procedure in Rats: A Mathematical/Physical Approach to Time Discrimination in the Early Learning Process.

Takayuki Hasegawa & Shogo Sakata (Hiroshima University) (15 min)

A Punishing Effect of Light in Betta Splendens.

Joe J. Pear, T. L. Martin, T. Sales, H. C. Hurtado, & D. Fazzio. (University of Manitoba) (15 min)

How "The Ghost in the Addict" Can Disrupt Treatment.

Stanley J. Weiss, David N. Kearns, Chesley J. Christiansen (American University) (15 min)

Extinction Across Multiple Contexts: Effects on Renewal and Resurgence.

Jennifer Scobie (ASPCA Animal Behavior Center) (15 min)

Wednesday, February 6, 2008 -- Check out time is 10am

WCALB 2008 Organizing Committee

Stan Weiss, Convener & Program

Rick Bevins

Cody Brooks, Program

Mark Reilly

Bill Timberlake, Focus Session

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WCALB | Past Program, 2007

Winter Conference on Animal Learning and Behavior
Winter Park , Colorado
February 3 - 7, 2007

Saturday, February 3, 2007

7:00pm -- Buffet Reception and Social Hour

8:15pm -- Welcome and Introduction to the Conference

Stan Weiss, Convener

Workshop I— Programming Med-PC® (60 min)

Presented by Steven I. Dworkin (University of North Carolina-Wilmington)

Assisted by Karl R. Zurn & Bridget McM Zurn (MED Associates)

Sunday, February 4, 2007

4:30pm -- KEYNOTE ADDRESS

Federico Sanabria, Chair

The 3Ms of Analysis:

Minding, Mining and Modeling our Data

Peter Killeen

Arizona State University

At least 3 x 10⁸ key-pecks and orders more lever-presses were recorded last year, most of which played no role in guiding scientific inferences. Minding : We can maximize benefit/cost of experiments only by understanding their purpose, beyond satisfaction of vagrant curiosity; if we don't mind experimenting, our results won't matter. I propose a goal: Maximizing the mutual information between a model and a data set; between the things we record and what we say about them. I briefly describe indices of GoF. Mining : Thar's gold in them thar hills. But thar's more dirt. I describe 3 approaches to extracting more of the gold, each attending to more molecular measures: Delta Plots, Survivor plots, and Real-Time analyses. Each technique brings sequentially more of the data to bear on what we might want to say about it.

6pm -- Elimination, Recovery, Patterning & Distribution of Behavior

Carl Danson, Chair

Acute Stress & Spontaneous Recovery after Extinction of Conditioned Responses. Cody Brooks & Alana Rojewski (Denison University) (10 min)

Stimulus-Reinforcer Relations and Recovery of Instrumental Responding After Extinction. Chris. Podlesnik & Tim Shahan (Utah State University) (10 min)

Recovery of Sign-Tracking in Rats After Response Elimination Through Negative Contingency Training. Dave Kearns & Stan Weiss (American University) (10 min)

Positive and Negative Outcomes and Positive and Negative Patterning. Bill Whitlow (Rutgers University) (10 min)

Some Thoughts and Some Data on Delay Discounting and Gambling." Greg Madden, Adam Brewer, Patrick Johnson, & Nathaniel Smith (University of Kansas) (10 min)
Operant Behavioral Model for Studying Persistent Orofacial Nociception. Gerald Hill, Larry Bellinger, Robert Spears, Bob Hutchins, Carolyn Kerins & Phillip Kramer (Baylor College of Dentistry) (Poster)

Monday, February 5, 2007

4:30pm -- Focus Session

Cody Brooks & Mark Reilly, Chairs

Modeling Data: From Description & Significance to Behavior & Theories

Superstitious Behavior in Pigeons: The Relation of Concepts and Assumptions on

Taking and Analyzing Data. Bill Timberlake (Indiana University) (15 min)

Making Every Response Count. Jonathon Crystal (University of Georgia) (15 min)

The Choose-Short Effect: Changes in Memory for Sample Duration or Disruption of

Attention to Samples? Ryan D. Ward & Amy L. Odum (Utah State University) (15 min)

A Three-Component Model of Relational Learning in the Transposition Paradigm. Olga

F. Lazareva (University of Iowa), Michael E. Young (Southern Illinois University at

Carbondale), & E. A. Wasserman (University of Iowa) (15 min)

An Induced Two-Factor Model of Stimulus Control. Stan Weiss (American University) (25 min)

Conditioned Reinforcement and Quantitative Models of Behavior Allocation and

Persistence. Tim Shahan & Chris Podlesnik (Utah State University) (15 min)

A Reinforcement Learning Model of Response Timing in Classical Conditioning. Elliot

A. Ludvig (University of Alberta), James Neufeld (University of Alberta), E. James

Kehoe (University of New South Wales) & Rich Sutton (University of Alberta) (15 min).

Beyond Efficiency: A Model of DRL with Attention, Activity, Timing, and Impulsivity

Modules. Federico Sanabria (Arizona State University) (15 min)

8:15pm -- Conference Dinner at Fontanot's

TUESDAY, February 6, 2007

4:30pm -- Drugs & Behavior

Amy Odum, Chair

Unresolved Sodium Appetite Enhances Cocaine-Induced Psychomotor Response. Martin

Acerbo (University of Iowa) (15 min)

Does Methylphenidate Alter Environmental Familiarization? Amanda Struthers & Rick

Bevins (University of Nebraska-Lincoln) (10 min)

Where Oh Where Can the Nicotine Place Preference Be. Jamie Wilkinson & Rick Bevins

(University of Nebraska-Lincoln) (10 min)

Relative Resistance to Change of Alcohol-maintained Responding of Rats Depends on

Disruptor Type. Corina Jimenez-Gomez & Tim Shahan (Utah State University) (10 min)

Extinction/Reinstatement Paradigms as Models of Cocaine-Seeking. Tim Koeltzow (Bradley University) (10 min)

Bupropion as a Smoking Cessation Aid: A Novel Account for the Clinical Success and Pre-clinical Confusion. Matt Palmatier, Kara Mays, Kasia Bak, Xiu Liu, Tony Caggiula,

Eric Donny, & Alan Sved (University of Pittsburgh) (10 min)

6pm -- Carry in Dinner Compliments of Karl Zern (Med Associates)
6:45pm -- Workshop 2 -- Drug Self-Administration (90 min)
Presented by Steven I. Dworkin (University of North Carolina-Wilmington)
Assisted by Karl R. Zurn & Bridget McM Zurn (MED Associates)
End 8:15pm

Wednesday, February 7, 2007 -- Check out time is 10am

2007 WCALB Organizing Committee
Stan Weiss, Convener & Program
Rick Bevins, Program
Cody Brooks, Focus Session
Mark Reilly, Focus Session
?Bill Timberlake, Program
Five minutes will be added to the presentation times indicated for questions and discussion

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WCALB | Past Program, 2006

Winter Conference on Animal Learning and Behavior
Winter Park, Colorado
February 4 - 8, 2006

Saturday, February 4, 2006

7:00pm -- Buffet and Social Hour

8:15pm -- Opening Presentations, Ideas and Discussion

Welcome and introduction to the conference. Stan Weiss

Learning within the spinal cord: Cognition without a brain. Jim Grau, Texas A&M (15 min)

Schedule-induced polydipsia under explicit positive reinforcement. Ricardo Pellón, Luciana Bayeh & Ángeles Pérez-Padilla, Universidad Nacional de Educación a Distancia, Madrid (15 min)

The Eastern Psychological Association: A contingency-related history. Stan Weiss, American University (10 min)

Sunday, February 5, 2006

4:30pm -- Drugs, Learning & Behavior

Cody Brooks, Chair

A commonly self-administered IV nicotine dose serves as a CS for sucrose. Jennifer E. Murray & Rick A. Bevins, University of Nebraska-Lincoln (10 min)

A contingency-based intervention that reduces contextual renewal of cocaine seeking. David N. Kearns & Stanley J. Weiss, American University (10 min)

Cocaine and bupropion generalize to a methamphetamine occasion setter. Carmela M. Reichel, Vanessa L. Barra, Sarah A. Berg, Jamie L. Wilkinson, & Rick A. Bevins, University of Nebraska-Lincoln (10 min)

The temporal dynamics of bupropion substitution for a nicotine CS. Jamie L. Wilkinson & Rick A. Bevins, University of Nebraska-Lincoln (10 min)

Comparable effects of cocaine- and food-based inhibitors on cocaine- or food-seeking: A confirmation of the Appetitive-Aversive Interaction Theory of Motivation. Stanley J. Weiss, David N. Kearns, Chesley J. Christensen & Mary E. Huntsberry, American University (15 min)

Extinction and reinstatement of lever pressing in enriched and isolated rats: Differential effects of amphetamine and sucrose. Emily D. Klein, Dustin J. Stairs, & Michael T. Bardo, University of Kentucky (10 min)

Reinforcing and aversive affects of caffeine measured by preference for caffeine-paired flavors before or after habitual caffeine consumption. Kevin P. Myers & Emily Izbic, Bucknell University (15 min)

Monday, February 6, 2006

4pm -- KEYNOTE ADDRESS

Are Animals Conscious? Turing's Test for Nonhumans.

Clive Wynne

University of Florida

5:15pm -- Focus Session: Approaches to Animal Consciousness and Cognition

Bill Timberlake, Chair & Organizer

Animal consciousness: What's the problem? Colin Allen, Indiana University (20 min)

On obtaining objective data on consciousness in other animals: Frontal assault or pincer movement? Gordon Burghardt, University of Tennessee (20 min)

What functional systems underlie consciousness in vertebrates? William Timberlake and Gary Lucas, Indiana University (20 min)

Divided attention and the matching law. Timothy A. Shahan & Christopher A.

Podlesnik, Utah State University (15 min)

Acquisition of an olfactory learning set for sequences of constantly changing odors in mice. Cindy Cai, Emily Katz, Oliver Rothschild, Karina Illescas, Andriana Herrera, Sofia Huang, Anna Wong, Yvette Wojciechowski, Aida Gil, QiJiang Yan & Robert P.

Bauchwitz, St. Luke's-Roosevelt Institute for Health Sciences, Columbia University (15 min)

Discussion of Focus Session on Approaches to Consciousness and Cognition

Colin Allen, Moderator

The session participants plus Clive will have an opportunity to comment, with Clive leading off, followed by contributions and questions from the audience. (to end by 7:45pm).

8:30pm -- Dinner at Fontenot's

Tuesday, February 7, 2006

4:30pm -Animal Cognition and Learning

Rick Bevins, Chair

Influence of apparatus design on conclusions about learning and memory. Robert. P. Bauchwitz, St. Luke's-Roosevelt Institute for Health Sciences, Columbia University (10 min)

Rapid solving of a simple problem apparatus by black throated monitor lizards.

Gordon Burghardt (University of Tennessee), Jennifer Manrod (Knoxville Zoo), and Ruston Hartdegen (Dallas Zoo) (10 min)

Relative numerosness judgment and summation in young, middle-aged, and older adult orangutans. Ursula S. Anderson, Tara S. Stoinski, Mollie A. Bloomsmith, & Terry L. Maple, Atlanta Zoo & Georgia Inst. of Technology (10 min)

Renewal of conditioned sexual responses in domesticated quail (*Coturnix japonica*).Mark A. Krause, University of Portland (10 min)

Hedonic versus anticipatory explanations of flavor preference produced by flavor-nutrient conditioning: insights from second-order pairings. Kevin P. Myers & Sean Bradley, Bucknell University (15 min)

Extinction and stress. Cody Brooks, Denison University (15 min)

Wednesday, February 8, 2006 -- Check out time is 10am?-----

2006 WCALB Organizing Committee

Stan Weiss, Convener & Program

Rick Bevins

Cody Brooks

Mark Reilly, Program

Bill Timberlake, Focus Session

Five minutes will be added to the presentation times indicated for questions and discussion

WCALB | Past Program, 2005

Winter Conference on Animal Learning and Behavior 2005

Winter Park, CO

February 5-9, 2005

Saturday, February 5, 2005

6:30pm -- Buffet and Social Hour

8pm -- Opening Presentations, Ideas and Discussion

Methodological and practical aspects of zoological research with mega-herbivores:

Tactile same-different discrimination in African elephants.

Ursula Anderson, M. Jackson Marr, & Terry Maple (Georgia Institute of Technology)

Negative automaintenance does not maintain.

Federico Sanabria (Arizona State University)

Sunday, February 6, 2005

4pm -- Drugs and Behavior: Cocaine & Nicotine

Kevin Myers, Chair

Repeated cocaine exposure does not increase sucrose "liking".

Emily D. Klein & Michael T. Bardo, (University of Kentucky) (10 min)

Cocaine and sex: Mechanistic and neural overlap.

Chana K. Akins & E. Harris (University of Kentucky) (15 min)

Self-administration of nicotine and environmental cues under concurrent schedules of reinforcement.

Matt Palmatier, F. Fay Evans-Martin, Alycia Hoffman, Anthony R. Caggiula, Nadia

Chaudhri, & Alan F. Sved (University of Pittsburgh) (10 min)

Applying the appetitive-aversive interaction theory of motivation to reduce cocaine self-administration with a non-drug inhibitor.

Stanley J. Weiss & Dave N. Kearns (American University) (15 min)

Effects of US density in an appetitive Pavlovian discrimination task with nicotine as the CS.

Jamie L. Wilkinson & Rick A. Bevins (University of Nebraska-Lincoln) (10 min)

Nicotine as a conditional stimulus: Role of stimulus salience.

Jennifer E. Murray & Rick A. Bevins (University of Nebraska-Lincoln) (10 min)

Monday, February 7, 2005

4pm -- KEYNOTE ADDRESS

Rational and Irrational Choice:

Discounting of Delayed and Probabilistic Outcomes
in Rats, Pigeons, and People.

Len Green

Washington University

5:15pm -- Focus Session: Choice in Humans and Other Animals

James S. MacDonall, Chair

An attempt to study delay discounting in humans: Strange doings on an adjusting amount procedure.

Eric A. Jacobs & Brian Kangas (Southern Illinois University-Carbondale) (15 min)

Discounting probabilistic rewards: Is there a magnitude effect?

Joel Myerson (Washington University) (15 min)

An assessment of the substitutability of wheel-running and sucrose reinforcement.

Terry Belke, (Mount Allison University) (10 min)

Earning reinforcers and preference.

James S. MacDonall (Fordham University) (15 min)

Milk vs. milk choice in female rats: A prelude to milk vs. drug choice studies.

Carol A. Paronis (McLean Hospital/Harvard Medical School) (10 min)

Pavlovian influences on preference in an intertemporal choice procedure: Just how impulsive are pigeons?

Mark Reilly (Central Michigan University) (10 min)

The relationship between component choice and response rate on a multiple schedule.?Stan Weiss & David Thomas (American University & NIDA) (10 min)

8:00pm - Conference Dinner at Fontenot's

Tuesday, February 10, 2004

5pm - Learning & Motivation

Chana K. Akins, Chair

Environmental enrichment decreases responding for visual novelty.

Mary E. Cain (Kansas State University), Thomas A Green, & Michael T. Bardo
(University of Kentucky) (10 min)

Contextual cues associated with satiety can influence meal size in rats.

Kevin Myers, (Bucknell University) (10 min)

Formation and use of cognitive maps in rats.

Rebecca A. Singer & Thomas R. Zentall (University of Kentucky) (10 min)

Beacon training can both block and facilitate landmark learning in the water maze.

Bill Timberlake, S. A. Sinning, and J. Leffel (Indiana University) (15 min)

Wednesday, February 9, 2005 -- Check out time is 10am

2005 WCALB Organizing Committee

Stan Weiss, Convener & Program

Rick Bevins

Cody Brooks

James S. MacDonall, Focus Session

Mark Reilly

Bill Timberlake

Five minutes will be added to the presentation times indicated for questions and discussion

WCALB | Past Program, 2004

Winter Conference on Animal Learning and Behavior

Winter Park, Colorado

February 7 - 11, 2004

Saturday, February 7, 2004

6:30pm -- Buffet and Social Hour

8pm -- Opening Short Presentations, Ideas and Discussion (5-15 min. each)

Impulsivity in Rats Predicts Subsequent Cocaine Self-Administration. Gregory J.

Madden, Marilyn Carroll, Jennifer Perry, Erin Larson and Jon German (University of Wisconsin-Eau Claire)

What do YOU Mean by "Voluntary"? Alan Neuringer (Reed College)

Pavlov and St. Petersburg. Stan Weiss (American University)

Discussion of the "Interdependence" problem posed by Frank Logan. (Moderated by Stan Weiss)

Sunday, February 8, 2004

4pm -- Learning, Choice and Context Effects

Cody Brooks, Chair

Temporal Contiguity and Contingency. Lorraine Allan, & J. Tangen (McMaster University) (20 min.)

An Evaluation of the Rapid Demand Curve Assay Procedure Commonly Used in the Behavioral Economics Literature. Gregory J. Madden & Ryan Rowe (University of Wisconsin-Eau Claire) (15 min)

The Current Status of the "Hedonic-Shift" Hypothesis of Nutrient-Conditioned Flavor Preferences. Kevin Myers (Bucknell University) (20 min.)

Learning and Memory in Aged Rhesus Monkeys: Patterns of Impairment and Correlations with Brain Volume. Martha Neuringer, Steven Kohama, Noelle Landauer and Josephine Gold (Oregon Health & Science University) (20 min.)

10 Minute Break

Learning, Choice and Context Effects (continued)

Context Effects on Latent Inhibition and Renewal in a Human Conditioning Task.

James Byron Nelson and Maria del Carmen Sanjuan (Central Arkansas University) (20 min.)

Perceptual learning, Flattening Generalization Gradients, and Contextual Change.

Maria del Carmen Sanjuan and James Byron Nelson (Central Arkansas University) (20 min)

More on Partial Reinforcement in Pavlovian Conditioning. Bill Timberlake (Indiana University) (15 min.)

Monday, February 9, 2004

4pm -- KEYNOTE ADDRESS

The Ghost in the Addict: Drug Anticipation and Drug Addiction

Shep Siegel

McMaster University

5:15pm -- Focus Session I:

Associative Mechanisms and Drug-Related Behavior

Mark Reilly, Chair

Place Conditioning: An unexploited Model of Associatively-Motivated Choice Behavior.

Rick A. Bevins (University of Nebraska) (15 min.)

Investigations of Intraincentive Selective Associations When Behavior is Maintained by Food, Shock-Avoidance or Cocaine Self-Administration. Stanley Weiss, David Kearns, Scott Cohn, Charles Schindler and Leigh Panlilio (American University and NIDA Preclinical Research Laboratory) (20 min)

Strength of drug seeking is determined by drug dose and associated stimuli in cocaine self-administering rhesus monkeys. Patrick Beardsley and J. Newman (Virginia Commonwealth University) (15 min.)

Tuesday, February 10, 2004

4pm -- Focus Session II:

Associative Mechanisms and Drug-Related Behavior (continued)

Stan Weiss, Chair

Ethanol Ataxia Tolerance. Cody Brooks (Denison University) (15 min.)

Preference for an Alcohol-Paired Flavor in Selectively Bred Rats. Nancy Dess (Occidental College) (15 min.)

Drug Contexts as Occasion Setters: Conditional Stimulus Modality and Drug Feature Pharmacology Affect Goal Tracking Topography in Rats. Matt Palmatier and Rick Bevins (University of Nebraska) (15 min.)

Sign Tracking of Drug-Paired Stimuli in the Rhesus Monkey. Mark P. Reilly, Sonja I. Berndt, James H. Woods and Gail Winger (Central Michigan University and University of Michigan) (20 min.)

Chronic Cocaine Pretreatment Facilitates Future Sexual Conditioning. Chana Akins and Neil Levens (University of Kentucky and Indiana University of Pennsylvania) (20 min.)

Cocaine-Induced Reinstatement Following Extinction With & Without Cocaine-Associated Stimuli. Patrick. M. Beardsley & K. L. Shelton, (Virginia Commonwealth University) (10 min.)

7:30pm -- Dinner at Fontenot's

Wednesday, February 11, 2004 -- Check out time is 10am

2004 WCALB Organizing Committee

Stan Weiss, Convener & Program

Rick Bevins

Cody Brooks

Mark Reilly, Focus Group

Bill Timberlake

WCALB | Past Program, 2003

Winter Conference on Animal Learning and Behavior

Winter Park, Colorado

February 8- 12, 2003

SATURDAY, February 8th

6:30-6:45

Welcome to WCALB

The Conference Committee: Stan Weiss, Rick Bevins, Melissa Burns, & Bill Timberlake

6:45-8:30

Dinner and 4 minute introductions, insights, ideas, inquiries, and inspirations, including but not limited to:

Can mice learn a win-stay contingency under aversive motivation?"

Charles Locurto

College of the Holy Cross

Sasquatch, innovation, and other mysteries

Rick Bevins

University of Nebraska, Lincoln

SUNDAY, February 9th

CONTEXT & CONNECTIONS

Chair: Rick Bevins

4:00-4:05

Setting the context: Find your slippers and grab some food and drink

Rick Bevins

University of Nebraska, Lincoln

Invited Talk

4:05 -5:05

Context, ambiguity, and unlearning: Sources of relapse after behavior extinction

Mark Bouton

University of Vermont

Presentations

5:05-5:30

Spontaneous recovery of ethanol tolerance

Cody Brooks & Joanne Vaughn

Denison University

5:30-5:55

Feature positive modulation of goal tracking by nicotine: Associative and stimulus properties of the nicotine feature.

Matthew I. Palmatier & Rick Bevins

University of Nebraska, Lincoln

5:55-6:20

The discriminative stimulus effects of cocaine in Japanese Quail: Evidence for

occasion-setting in a sexual reinforcement paradigm.

Chana Akins, J. Triosi, & C. Steger

University of Kentucky

6:20-6:45

The role of context in goal tracking

Melissa Burns & Michael Domjan

Texas Christian University and University of Texas

6:45-7:10

The context problem in studies of acquisition

Matt Lattal & Dan Gottlieb

University of Pennsylvania

7:10-7:30

Further discussion. Finding connections with the rest of psychology

MONDAY, February 10th

ANIMAL LEARNING: GENERAL

Chair: Mark Reilly

Presentations

4:00-4:30

The structure of individual differences in mouse problem-solving

Charles Locurto

College of the Holy Cross

4:30-5:00

Preparedness Revisited: Seligman and his critics were both right

Michael Domjan

University of Texas at Austin

5:00-5:30

Preconditioning, timing, and motivational modes

William Timberlake & Joseph Leffel

University of Indiana

5:30-6:00

Associative versus temporal interpretations of the immediate shock deficit in contextual fear conditioning

Deborah L. Stote

UCLA

6:00-6:30

Impulsive behavior: Evolutionary adaptation to aversive stimulation

Stephen Flora

Youngstown State University

6:30-7:00

Increased preference for later-larger reinforcers with bundled trials: A partial animal model of human self-control

John Monterosso and George Ainslie

UCLA

7:00-7:30

Tests of unit price in a closed economy: Fixed-ratio and Random-ratio schedules

Gregory J. Madden
University of Wisconsin - Eau Claire

TUESDAY, February 11th
SEX, DRUGS, & BEHAVIOR

Chair: Chana Akins

Presentations

4:00-4:30

Implications of noradrenergic system in a novel-object recognition task

Kartpagam K. Karthigeyan & Rick Bevins

University of Nebraska, Lincoln

4:30-5:00

Sign-tracking (autoshaping) in rats: A comparison of cocaine and food as USs

David N. Kearns & Stanley J. Weiss

American University

5:00-5:30

The effects of naloxone on conditioned sexual behavior: Exploring state dependency

Kevin Holloway

Vassar College

5:30-6:00

Conditioned inhibition generated by food, shock-avoidance and cocaine self-administration contingencies

Stanley J. Weiss, David N. Kearns, Richard D. Weissman, Charles W. Schindler & Leigh V. Panlilio

American University and NIDA Preclinical Pharmacology Section

6:00-6:30

Hey, it's time for my nicotine...

Rick Bevins

University of Nebraska, Lincoln

6:30-7:00

The role of temporal contiguity in drug self-administration

Mark P. Reilly

Arizona State University

7:00-7:30

WCALB: 2004

Stan Weiss

American University

2003 WCALB Organizing Committee

Stan Weiss, Convener

Rick Bevins, Focus Group

Melissa Burns, Program

Bill Timberlake

