

AGENDA

Sunday, April 27

- 7:30 - 8:30 am **Registration and Check-In for Workshop Participants**
- 8:30 am - 5:00 pm **Workshop: Methods and Models for Categorical Data in Agriculture**
Thomas Loughin, Simon Fraser University
- 8:00 pm – 11:00 pm **Social Mixer (Snacks & Cash Bar)** **Regency Ballroom A**

Monday, April 28

- 8:00 – 10:00 am **Registration and Check-In for Conference Participants**
- 8:30 – 8:45 am **Welcome**
- Session #1
8:45 – 10:15 am
- Exact and REML-based Confidence Intervals for Variance Components Using Nonnormal Distributions**
Brent Burch, Northern Arizona University
- A Bayesian Calibration Involving Nonlinear Mixed Effects Models**
Reid D. Landes, University of Arkansas for Medical Sciences
- Comparisons of Several Jackknife Methods for Variance Components Estimation**
Jixiang Wu, Mississippi State University
- 10:15 – 10:45 am **Break & Poster Session**
- Session #2
10:45 am – 12:00 pm **KEYNOTE ADDRESS**
- Better Design and Analysis of Long-Term Experiments**
Thomas Loughin, Simon Fraser University
- 12:00 – 1:30 pm **Lunch**
- Session #3
1:30 – 3:00 pm
- Dynamic Clustering of Time Series Gene Expression**
Lingling An, Purdue University
R.W. Doerge, Purdue University
- Multiple-Trait QTL Mapping Using a Structural Equation Model**
Xiaojuan Mi, University of Nebraska-Lincoln
Kent M. Eskridge, University of Nebraska-Lincoln
Dong Wang, University of Nebraska-Lincoln
- Statistical Issues in the Normalization of Multi-Species Microarray Data**
John R. Stevens, Utah State University
Balasubramanian Ganesan, Utah State University
Sweta Rao, Utah State University
Bart C. Weimer, Utah State University

3:00 – 3:30 pm **Break & Poster Session**

Session #4

3:30 – 5:00 pm

A Whole-Plot Exchange Strategy for Constructing D-Optimal Multistratum Designs

Christopher I. Vahl, North Dakota University

George A. Milliken, Kansas State University

Probability Density Function Solutions of Population Size Models

James Matis, Texas A&M

Timothy Matis, Texas Tech

Tom R. Kiffe, Texas A&M

Thoughts on Data Quality

Kevin D. Wright, Pioneer Hi-Bred

6:30 – 8:00 pm **Student Pizza Party**

9:00 – 12:00 pm **Kansas Country Dance**

Tuesday, April 29

Session #5

8:30 – 10:00

Modeling Seasonal Wine Grape Development Using a Mixture Technique

William J. Price, University of Idaho

Bahman Shafii, University of Idaho

Paul E. Blom, USDA-ARS

Julie M. Terara, USDA-ARS

Nick Dokoozlian, E&J Gallo Winery

Luis J. Sanchez, E&J Gallo Winery

Modeling Disease Progression of Camellia Twig Blight Using a Recurrent Event Model

Jessica L. Thomson, SRRRC, USDA-ARS

Warren E. Copes, Southern Horticultural Laboratory, USDA-ARS

Choosing a Mixed Model to Estimate Seed Burial Rates in Agricultural Fields

Philip Dixon, Iowa State University

Paula Westerman, Universitat de Lleida, Spain

10:00 – 11:00 am **Break & Poster Session**

Session #6

11:00 – 12:10

Statistical Issues in Efficacy Evaluation for Companion Animal Drug Development

Zhanglin Lin Cui, Eli Lilly & Company

Statistical Issues in Safety Evaluation for Companion Animal Drug Development

Caryn M. Thompson, Eli Lilly & Company

Statistical Issues in Drug Formulations and Analytical Method Development in Companion Animal Drug Development

Daniel H. Mowrey, Eli Lilly & Company

12:10 – 1:30 pm

Lunch

Session #7

1:30 – 3:00 pm

Spatial Clustering Using the Likelihood Function

April Kerby, University of Nebraska-Lincoln

Dave Marx, University of Nebraska-Lincoln

Ashok Samal, University of Nebraska-Lincoln

Viacheslav Adamchuck, University of Nebraska-Lincoln

Using Generalized Linear Mixed Models Analysis in the Detection and Classification of Biological Ice Nucleators

Kevin S. McCarter, Louisiana State University

Rongman Cai, Louisiana State University

Brent Christner, Louisiana State University

Modeling Mosquito Abundance in Brazil Using Generalized Linear Mixed Models

Linda J. Young, University of Florida

Robert H. Zimmerman, University of Florida

3:00 – 3:30 pm

Break & Poster Session

Session #8

3:30 – 5:00 pm

Two-Stage Statistical Analysis of Epigenetic Modifications and Gene Expression Using Tiling Array Technologies

Suk-Young Yoo, Purdue University

R.W. Doerge, Purdue University

Assessing the Penalty for Ignoring Hysteresis when Modeling the Relationship Between Body Temperature and Ambient Temperature in Heat Stressed Animals

Pathak Manoj, University of Nebraska-Lincoln

A.M. Parkhurst, University of Nebraska-Lincoln

J.B. Gaughan, University of Queensland, Australia

G.L. Hahn, U.S. Meat Animal Research Center-USDA

Posters

poster presentation instructions

Integrating Genomic and Quantitative Trait Data

Tilman Achberger, Purdue University

Ivan Baxter, Purdue University

James Fleet, Purdue University

David Salt, Purdue University

R.W.Doerge, Purdue University

Nonlinear Mixed Models to Evaluate Effects of Hair Coat During Milking and Feeding of Heat Stressed Holstein Cows

N Aitha, University of Nebraska-Lincoln

A.M. Parkhurst, University of Nebraska-Lincoln

C.N. Lee, University of Hawaii-Manoa

P.E. Hillman, Cornell University

Copy Number Variant Discovery via Analysis of Data from the Solexa Sequencer

Paul Livermore Auer, Purdue University

Modified Second Order Response Surface Designs, Rotatable Designs Using Symmetrical Unequal Block Arrangements with Two Unequal Block Sizes

Professor B. Re. Victor Babu, Acharya Nagarjuna University, India

Probe-Level Statistical Models for Differential Expression of Genes in Bovine NT Studies

Jason L. Bell, Utah State University

John R. Stevens, Utah State University

Probability Models to Study the Species Abundance Distributions

Dr. D.M. Gowda, University of Agricultural Sciences, Bangalore

Optimal Design of Bayesian Reliability Test Plans for a Series System Based on Type-II Censoring

Dr. Mahesh Kumar, Caledonian College of Engineering, Oman

A Novel Methodology for Binary Trait Loci (BTL) Analysis

Alexander E. Lipka, Purdue University

STATCOM: An International Network of Students Providing Pro Bono Consulting to the Community

Alexander E. Lipka, Purdue University

Tilman Achberger, Purdue University

Cause and Effect Relations in Dynamic Systems of Organic Substance - Microbiotic Association of Soil and Plants Productivity

V.K. Mujomorov, Agrophysical Institute, St. Petersburg, Russia

Resampling Techniques in Quantitative Trait Locus Analysis

Cherie Ochsenfeld, Purdue University

Affymetrix Tiling Arrays: Challenges for the Future

Gayla R. Olbricht, Purdue University

Harkamal Walia, University of California-Davis

Luca Comai, University of California-Davis

R.W. Doerge, Purdue University

Research-Induced Deviations in Cotton (*Gossypium Hirsutum*) Fiber Properties

Gretchen F. Sassenrath, USDA-ARS

On the R^2 Statistic for Association Mapping by Mixed Models

Guannan Sun, Kansas State University

Resolvable BIB Designs for Complete Daillel Crosses

Suman Yadav, CCS Haryana Agricultural University, Kisar, India

D.R. Aneja, CCS Haryana Agricultural University, Kisar, India