

**Third Annual Andrews University**  
**Celebration of Research**

**Thursday, November 10, 2011**

# Welcome

Welcome to our **Third Annual Andrews University Celebration of Research**. During 2010, Andrews University faculty research resulted in,

¾ 14 books published,

¾ 70 book chapters published,

¾ 139 journal articles published,

¾ 53 book reviews published,

¾ 274 conference presentations

¾ 61 performances, art and design exhibitions

# Schedule of Events

3:00 – 6:00 pm **Poster Presentations** (Buller Hallways)  
See pages 5 – 11 for program details  
Refreshments served in central atrium

5:00 – 6:00 pm **Oral Breakout Sessions** (BH150, 250, 251)  
See page 4 for program details

6:00 – 7:30 pm **Plenary Presentations** (Newbold Auditorium)

¾ Tribute to Siegfried H. Horn

¾ Presentations by recipients of the 2011 *Siegfried H. Horn Award for Excellence in Research and Creative Scholarship*:

**Shandelle M. Henson**, Professor of Mathematics,  
The Mathematics of Animal Behavior

**Larry D. Burton**, Professor of Teacher Education,  
Me and the 'N' Word:  
Keeping My Research Agenda Fresh and Personal

**Karen A. Allen**, Professor of Nursing,  
Substance Abuse Services of Care:  
Serving Young Children and their Families

**Richard M. Davidson**, J. N. Andrews Professor of  
Old Testament Interpretation,  
Sexuality, Sabbath, Sanctuary, and Spirit:  
Stimulating Research in the Hebrew Scriptures

# Oral Presentations

## **Buller Hall 150** History, Old Testament and Religion

**John Markovic**, session chair

5:00 **Roy Gane**, Didactic Logic in Leviticus

5:12 **Brian Strayer**, The Legacy of John Norton Loughborough to Seventh Day Adventism

5:24 **Erhard Gallos**, Katapausis and Sabbatismos in Hebrews 4

5:36 **Randall Younker**, Biblical Archaeology at the Louvre

## **Buller Hall 250** Mathematics and Health Sciences

**Lionel Matthews**, session chair

5:00 **Lynelle Weldon**, Analysis of Factors that Affect the Hatching Success of Gull Eggs

5:12 **Gisele Kuhn**, Pediatric Asthma Management in Schools

5:24 **Gisela Schmidt**, Enhancing Leadership Skills in Baccalaureate Junior Level Students

5:36 **Peter Pribis**, Effects of walnuts consumption on cognitive performance in young adults

5:48 **Heather Ferguson**, Early Childhood Education Training in South Africa

## **Buller Hall 251** Business, Social Work and Communication

**Curtis VanderWaal**, session chair

5:00 **Leroy Ruhupatty**, Using the Activity Based Costing Approach to Measure the Cost of Quality in Higher Education: A Faculty Perspective

5:12 **Curtis VanderWaal**, Project Get Connected: An African American Church Community Collaboration to Improve Mental Health Education, Support and Referrals

5:24 **Desrene Vernon**, A historical analysis of AWR's impact in the East Central Africa Division of the SDA church: A case study of Tanzania

5:36 **K. Demsky** and **M. Ponniah**, Communication Practices from the History of the Waldenses

5:48 **M. Ponniah**, **D. Steyn** and **D. Vernon**, Implications of Emergent Media for Communication Pedagogy

# Poster Presentations

## Jordan Field School (Interdisciplinary)

- P-01 Oystein LaBianca, The Jordan Field School: An Overview of a Student-Faculty Research Collaborative
- P-02 Robert Bates, Excavating the Reservoir at Tall Hesban: Stories about Ancient Technology
- P-03 Robert Bates, Analyzing Vessels: An Undergraduate Research Project
- P-04 Martin Smith, Hisban Cultural Education Center: A Building Restoration Project to Promote Public Awareness
- P-05 Stan Beikmann, Research and Development of an Interpretive Trail of Socio-Economic Plants at Tell Hesban
- P-06 Patrice Jones, Documentary Development in Praxis
- P-07 Dave Sherwin and Kristen Witzel, Exploring Jordan through Art and Ethnography

## Old Testament

- P-08 Randall Younker, Jalul excavation

## Art & Design

- P-09 Stefanie Elkins, Archaeological Artifact Illustration & Documentation Project
- P-10 Brian Manley, Revisiting Orientalism: cross-cultural bridge building in the 21st century
- P-11/ P-12 Greg Constantine, Poetic License

## English

- P-15 Scott Moncrieff, Eve Out of Eden: Moral Choice and Exile in Jane Eyre, George Eliot, and Rebecca



P-28 Duane Covrig, The Role of Judgment and Community in the Integration of Leaders: Why Groups Need Leaders and Leaders Need Groups and Both Need Processes

P-29

P-41 Carole Woolford-Hunt, Psychoneuroendocrine Response to Perceived Difference

**Behavioral Sciences**

P-42 K. Bailey, R. Bailey, V. Magsimo and S. Wiedemann, Factors Underlying Free Will Beliefs of Students at a Religious University

P-43 Alina Baltazar and Brianna Johnson, Parent-Child Relationships and Adolescent Substance Use

P-44 Romulus Chelbegean, Gender Roles: Between Culture and Religion Romanian American Spouses' Perception of Gender Roles

P-45 H. Helm, K. Bailey, D. McBride and O. LaBianca, Promoting Undergraduate Student Development Through a Research Curriculum

P-46 D. McBride and G. Hopkins, Service Engagement and Youth Risk Behaviors

P-47 412(a)(e)Tf 4 0 Tdga 0.0048. (P)8)-7r-



## **Chemistry & Biochemistry**

- P-49 David Nowack, H5N1 Haemagglutinin (Bird Flu HA) as a probe to detect changes in sialic acid structure of glycoproteins for the early detection of pancreatic cancer in humans
- P-50 Dan Hamstra, Jyllian N. Kemsley, Desmond H. Murray and David W. Randall, Integrating Webinar and Blogging into Chemistry Seminar
- P-51 Luis K. Garibay and David W. Randall, Looking for a greener alternative to Potassium Dichromate in quantitative chemistry experiments
- P-52 David W. Randall, Jamie Stull, Troy Stitch, George Christou and R. David Britt, Magnetic Resonance

## **Physics**

- P-60 Gary W. Burdick, John B. Gruber, Kelly L. Nash and Dhiarj K. Sardar, Comparative Crystal Field Analysis of Lanthanide Ions in Garnet Systems
- P-61 Tiffany Summerscales, Gravitational Waves and LIGO

## **Engineering & Computer Science**

- P-62 Boon-Chai Ng, Evaluating the mechanical properties of Dielectric Electro Active Polymer (DEAP)
- P-62a Hyun Kwon,
- P-62b Hyun Kwon,

## **Medical Laboratory Sciences**

- P-66 Rozalet R. Co, Karen Reiner, Desmond Murray and Bill Chobotar, Antimicrobial Activity of Boronic Stilbenes

## **Speech Language Pathology & Audiology**

- P-67 Darah Regal, Brynja Davis and Joni Graves, A Case Review: The Efficacy of the Differential Processing Training Program on Auditory Processing and Language Processing

## **Nursing**

- P-68 Karen Allen, Linda WhiteYoung and H. Westley Clark, Outcomes for Children Exposed to Parental Substance Abuse and Receiving Treatment services with Mom
- P-69 Henrietta Hanna, The Influence of Self-efficacy and Spirituality on Self-care Behaviors and Glycemic Control in Older African Americans with Type 2 Diabetes
- P-70 Gisele Kuhn, Pediatric Asthma Management in Schools
- P-71 Gisela Schmidt, Enhancing Leadership Skills in Baccalaureate Junior Level Students

## **Physical Therapy**

- P-72 K. Bergland, Identifying Variables Associated with Chronic Pain: A Case Report

- P-73 K. Coleman, A. L. Millar, B. Dertz and L. Scott, Correlation Between Electromyography Values and Incontinence Quality of Life Questionnaire Scores in Urinary Incontinent Adults
- P-74 G. Almeter, A. L. Millar, M. Hamilton, M. Flores, A. Simmons, T. Brown, S. Roberts, A. Imhoff and S. Kalappurayil, Hip Muscle Endurance in Individuals with and without Patellofemoral Pain
- P-75 G. Almeter, D. Ellison, M. Flores, M. Furr, M. Hamilton, A.L. Millar, Patellofemoral Pain Syndrome and Its Relationship to Back Curvature, Hip Strength, and Hip Flexibility
- P-76 J. Carlos, J. Banks, S. Mayers and J. Wollemberg, The Effect of Organized Group Learning Compared to Traditional Group Learning in the Gross Anatomy Laboratory For Physical Therapy Students
- P-77 W. Perry, J Carlos, C. Abbott, M. Mountz, E. Moravetz and R. Sowers, Change in Critical Thinking Throughout Duration of a Doctorate Level PT Program and Correlative NPTE Performance
- P-78 E. Oakley, B. Babb, A. Linstromberg, S. Spady, M. Bairage, L. Thomas and K. Roberts, The Effects of Low Level Laser Therapy on Delayed Onset Muscle Soreness
- P-79 E. Oakley and M. J. P. Carreras, The Long Term Effect of Short Wave Diathermy Versus Moist Hot Pack on Hamstring Extensibility
- P-80 L. Olson and A. L. Millar, Comparing 3 Training Methods to Increase Deep Cervical Flexor Endurance
- P-81 L. Olson, D. Village and A. L. Millar, Using a Modified Climbing Harness to Create a Permissive Environment for Balance Training in Elderly Individualist at Risk for Falls: A Case Study
- P-82 D. Village, A. L. Millar, T. King, G. McKenzie, J. Lee and C. Lopez, Frequency of Physical Therapists Taking Blood Pressure and Heart Rate in an Outpatient Setting



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