WELCOME ADDRESS

Aloha and welcome to the annual ‘Education & Technology’ and ‘Math & Engineering Technology’ Conference held in the Ala Moana Hotel in the island of Oahu. We trust that you will gain new experiences and new insights in your field of study while interacting with your peers. This is an exciting opportunity to meet with educators from different universities throughout the nation and throughout the world. They bring with them a wealth of knowledge and experiences in their particular disciplines to share with each and every one.

We hope you enjoy your stay with our host, the Ala Moana Hotel, a prime location in the Ala Moana area of Honolulu offering a wide variety of shops and attractions. The famous Waikiki Beach and prime restaurants are close by for your convenience. Be sure to check with the hotel’s activity desk for all the latest adventures and tours to make your trip to these islands a memorable experience.

The Islands of Hawaii offer a very unique experience for all people who visit to gain a better understanding of the Hawaiian culture and its spirit only found in this islands. Enjoy some of the best weather and beaches found anywhere in the world, and take your experiences home with you to return another day.

E’ Komo Mai!

(All are Welcome!)

Please visit our website for more details on the next conference.
www.huichawaii.org
education@huichawaii.org
mathengineering@huichawaii.org
Contact Number: 1- 808-537-6500
ALA MOANA HOTEL: FLOOR PLAN (2ND FLOOR)
CONFERENCE SCHEDULE

REGISTRATION HOURS – 2ND FLOOR

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 9 - Sunday</td>
<td>1:00 pm – 7:00 pm</td>
</tr>
<tr>
<td>June 10 - Monday</td>
<td>6:30 am - 5:45 pm</td>
</tr>
<tr>
<td>June 11 - Tuesday</td>
<td>6:30 am - 5:45 pm</td>
</tr>
<tr>
<td>June 12 - Wednesday</td>
<td>6:30 am -12:00 pm</td>
</tr>
</tbody>
</table>

HAWAIIAN STEEL GUITAR OPENING PRESENTATION
Monday June 10 - 7:30 am – 8:00 am (Ballroom)

HULA PERFORMANCE
Ms. Sunshine Oschner – Solana’s Dance Mix
Tuesday June 11 – 7:00 am – 7:30 am (Ballroom)

KEYNOTE SPEAKER ADDRESS
Dean Frank Haas– Kapi’olani Community College
Tuesday June 11 – 7:30 am – 8:00 am (Ballroom)

BREAKFAST – BALLROOM
(Breakfast is complimentary)

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 10 - Monday</td>
<td>6:30 am – 8:30 am</td>
</tr>
<tr>
<td>June 11 - Tuesday</td>
<td>6:30 am – 8:30 am</td>
</tr>
<tr>
<td>June 12 - Wednesday</td>
<td>6:30 am –8:30 am</td>
</tr>
</tbody>
</table>

TEA BREAK
Monday to Wednesday - 10:30 am – 12:30 am/ 2:30 pm – 4:30 pm

LUNCH BREAK
11:30 am -12:30 pm (Lunch is not provided)

POSTER SESSION
11:00 am - 12:30 pm (Ballroom)

SESSION CHAIRS (INSTRUCTIONS)
• Introductions of Participants
• Start and complete sessions on time
• Chair leads the discussions and hold question and answer period at end of session
DAY 1

Monday - June 10, 2013
Hawaiian Steel Guitar - Performance

Monday, June 10 - Ballroom
7:00 am – 8:00 am

Mr. Kamaka Tom
Hawaii, Secretary Treasurer

The Hawaiian Steel Guitar Association is a worldwide organization promoting traditional Hawaiian music and the signature sound of Hawaiian steel guitar.

Our site contains information for HSGA members and for non-members who wish to learn about and listen to the beautiful music of the Hawaiian steel guitar.

We welcome you and encourage you to explore HSGA. If you enjoy your experience here, please let us know. We are always looking for new friends and new members.

HSGA President Paul Kim
Monday – June 10, 2013

Room: Carnation
Time: 8:15 am - 9:45 am
Session: Workshop - Education Technology; Higher Education; Language Education; Secondary Education; Teacher Education

I. Applying Findings from Brain Research on Learning to the Foreign Language Class

Research findings about how the brain learns should inform what teachers do and what they have their students do in and outside the foreign language classroom. Participants in this interactive workshop will examine approaches and tools for the practical application of these insights and consider variations for their particular circumstances.

Author/Presenter: Dr. Nina M. Furry
Department of Romance Languages
The University of North Carolina at Chapel Hill
Monday – June 10, 2013

Room: Plumeria
Time: 8:15 am - 9:45 am
Session: Business Education; Curriculum, R&D; Educational Administration; Educational Measurement & Evaluation; Education Policy & Leadership
Session Chair: Prof. Scott H. Baker

I. Faculty Perceptions of Student Teaching Evaluations as a Factor in Formative and Summative Faculty Evaluations.

Through a literature review and survey results of over 200 full-and part-time faculty, this paper will explore faculty perceptions of student teaching evaluations as formative and summative measurements of teaching effectiveness (see abstract).

Author/Presenter: Prof. Scott H. Baker
Stiller School of Business
Champlain College

II. Best Practices in Teaching Online and Hybrid Courses in the Arts and Media

The study identifies the characteristics of-and a checklist for developing – superior online course. Success will mean a more satisfying college experience for the global learner.

Author/Presenter: Dr. Anne Becker
Columbia College Chicago
Art Education
Author: Dr. Suzanne McBride
Columbia College Chicago
Journalism

III. Failing to Provide Diversity: Shortage of Male Elementary Teachers

A survey based research study was completed in 2009 to determine which if any specific factors led to male teachers choosing their grade level preference, due to the shortage of male elementary teachers that is present in schools. The study was completed over 3 different states and 6 school districts.

Author/Presenter: Dr. Constance Pearson
Liberty University
School of Education
Author: Dr. Patrick Michael
Liberty University
School of Education
Monday – June 10, 2013

Room: Pakalana
Time: 8:15 am - 9:45 am
Session: Education Technology, Physics Education, Number Theory Presentation
Session Chair: Prof. Samya Zain

I. Peer-Led Team Learning for CS I

Through a literature review and survey results of over 200 full-and part-time faculty, this paper will explore faculty perceptions of student teaching evaluations as formative and summative measurements of teaching effectiveness (see abstract).

Author/Presenter: Ms. Mitsue Nakamura
Computer and Mathematical Sciences
University of Houston-Downtown

Author/Presenter: Dr. Ongard Sirisaengtaksin
Computer and Mathematical Sciences
University of Houston-Downtown

II. Crosswords and Team Quizzes to Facilitate Teaching Physics at Susquehanna University

The purpose of crosswords and team quizzes is to promote student interest and to engage all students in the class and familiarize them with the materials covered in the class. The crosswords are offered as a part of extra credit towards the student’s final grade, and graded “team quizzes” help students collaborate and work together on homework’s and problem solving.

Author/Presenter: Prof. Samya Zain
Department of Physics
Susquehanna University

Continued on next page
III. On Some Generalizations of Fibonacci Numbers and Lucas Numbers Related to Networks

Abstract

A Continued Fraction is of the form, \( a + \frac{b}{c + \frac{d}{e + \frac{f}{\ddots}}} \) where \( a, b, c, d, e, f, \ldots \in \mathbb{Z} \). In this paper, we derive formulas for the \( n \)th convergent of the C.F.’s \( p + \frac{1}{p + \frac{1}{\ddots}} \) and \( 1 + \frac{1}{p + \frac{1}{\ddots}} \) where \( p \in \mathbb{Z} \). The associated number sequences and electrical networks are indicated.

Author/Presenter: Dr. Suman Balasubramanian  
Dept. of Mathematics  
DePauw University
Monday – June 10, 2013

Room: Anthurium
Time: 8:15 am - 9:45 am
Session: Education/Art Education, Distance Education; Inter-disciplinary and other areas of Education, Curriculum, Research and Development
Session Chair: Dr. John H. Hughley

I. Responses to Paintings by African American Artists

Responses by African Americans and others from secondary public schools and universities to paintings by African American artists will be reviewed. Slides of the paintings will be presented.

Author/Presenter: Dr. John H. Hughley
Department of Art
North Carolina Central University

II. Reflection on the “Unified Pedagogy”: an Educational Model for Sub-Saharan Africa

This paper intends to address educational models in Sub-Saharan Africa by calling attention to the reflection on what roughly may be termed the “unified Pedagogy” in the light of some philosophers’ insight on education, associated with African societies needs in a fast changing and competitive world.

Author/Presenter: Dr. Zacharie Nzepa Petnkeu
Department of French
Concordia College, Moorhead, Minnesota
Monday – June 10, 2013

Room: Carnation
Time: 10:00 am – 11:30 am
Session: Educational Measurement & Evaluation OR Teacher Education, STEM Initiatives, Inter-disciplinary & other areas
Session Chair: Dr. Carolyn Ruth A. Williams

I. GSKyTeach at Western Kentucky University, Preparing STEM Teachers for Service in High-Needs High Schools

GSKyTeach is a program of instruction and clinical experiences that equips alternatively certified STEM teachers with the knowledge and skills to produce high levels of achievement with students in high-needs settings through inquiry based teaching and learning. This paper includes program specifics and evaluation results from years one through four of the project.

Author/Presenter: Dr. Martha M. Day
GSKyTeach
Western Kentucky University

Author: Dr. Kim Cowley
Program Evaluation Department
Edvantia, Inc.

II. STEM Initiatives at St. Cloud State University, St. Cloud, Minnesota

In this session the presenter will discuss St. Cloud State University STEM Initiatives which provide for a variety of functions and services focusing on outreach to improve STEM education and increase the number of students selecting STEM as a career opportunity especially by women and underrepresented minorities.

Author/Presenter: Dr. Carolyn Ruth A. Williams
Science, Technology, Engineering and Math (STEM) Initiatives
St. Cloud State University

Continued on next page
III. Fostering a STEM Learning Community to Promote Student Interest in STEM Disciplines

The main goal of the Fayetteville State University’s STEM Learning Community (SLC) is to spur the interest of a greater number of freshmen in STEM disciplines through the participation in the learning community. Modified to fit the world of higher education, the concept of a learning organization became that of a learning community that would strive to provide an environment of interaction, connection, encouragement and support for first-year students seeking to enroll in a STEM major or program. Presenters will share how the Fayetteville State University’s current SLC model is used to support, enhance and supplement the goal of the Robert E. Noyce Scholarship Program which is to encourage STEM majors to double major in either mathematics and secondary mathematics education or biology and secondary biology education.

Author/Presenter:  Dr. Kimberly Smith-Burton  
Middle Grades, Secondary & Specialized Subjects  
Fayetteville State University

Author/Presenter:  Dr. Erin White  
Biological Sciences  
Fayetteville State University

Author:  Dr. Shelton Ford  
Middle Grades, Secondary & Specialized Subjects  
Fayetteville State University
Monday – June 10, 2013

Room: Plumeria
Time: 10:00 am – 11:30 am
Session: Workshop - Curriculum, R&D; Distance Education; Education Technology; Higher Education; Rural Education; Secondary Education; Student Education; Teacher Education


This interactive workshop will introduce Google Plus as a learning management system and social learning tool for K-12 and higher education. Features of Google Plus include video-conferencing and a platform for posting content, announcements, resources, and feedback. Participants are encouraged to bring a laptop or tablet to the session.

Author/Presenters:
- **Dr. David Wicks**
  School of Education
  Seattle Pacific University
- **Prof. Amy Vaughn**
  School of Education
  Seattle Pacific University
Monday – June 10, 2013

Room: Pakalana
Time: 10:00 am – 11:30 am
Session: Education/ Social Science, Social Studies Education, Distance Education, ESL, Indigenous Learning, Writing Style, Stylistic Flaws, Literary Gloss, Partial Exposition
Session Chair: Prof. Nazir Ahmed Mughal

I. The Impact of Extremism on Higher Education among the Muslim Countries: A Case Study of Pakistan

The greatest threat facing the world specially the United States is the Jihad Movement, moderately known as the extremists operating in most of the Muslim countries. The extremists are self-appointed Muslim fanatics who have launched a "holy war or Jihad" against the United States and the West. Ironically the foremost target of the extremists has been the most of the Muslim world itself. Most Muslims around the world reject the Jihadist interpretation of Islam, and few relish of Jihadists rule. The "Jihadists" may be Muslims but few Muslims are extremists willing to commit "Jihad".

Author/Presenter: Prof. Nazir Ahmed Mughal
               Vice-Chancellor
               University of Sindh

II. The Best Practices of Human Rights in Education: The Malaysian Schools Perspective

The paper focuses on the best practices of Human Rights in Malaysian schools. A model is proposed for good practices for the implementation of human rights in education.

Author/Presenter: Dr. Jane Yan Fang Teng
                  Department of Management & Leadership
                  Sultan Idris Education University

III. A Mormon Presence in China

The Mormon Church has had a limited presence in china. Through the church's university, specifically Brigham Young University Hawaii, online education has created a portal for Chinese students to receive an education while allowing the church to spread its influence. BYU-h online education is the most effective way to introduce the church message to Chinese students as well as create an environment for students to learn and apply religious principles that encourages country loyalty, family stability, and personal progression.

Author/Presenter: Mr. Robert Clavel
                  International Cultural Studies Department
                  Brigham Young University
Monday – June 10, 2013

Room: Anthurium
Time: 10:00 am – 11:30 am
Session: Workshop - Engineering Topics

I. Teaching MEMS at Undergraduate Level

The paper presents the teaching of MEMS to undergraduate mechanical and electrical engineering students. Topics included: the scaling laws, electromechanical principles of sensors and actuators, silicon-based and polymer materials, physical-chemical processes for microfabrication, MEMS systems design, and assembly-packaging-testing techniques. Prominent topics in nanoscale engineering were also included in the end.

Author/Presenter: Prof. Tai-Ran Hsu
Department of Mechanical and Aerospace Engineering
San Jose State University
Monday – June 10, 2013

Room: Ballroom
Time: 11:00 am – 12:30 pm
Session: Poster

1. A New Role of Academic Advising in Residential Education

In 2013, University College of Yonsei University starts the Residential College Educational Program. Academic Advisors provide the individualized student-centric advising services along with its commitment to excellence in the liberal arts education. For further growth, University College may design and implement the advising system to support triple advising framework related among faculty advisor, residential master and academic advisor.

Topic: Academic Advising and Counseling
Author/Presenter: Dr. JeongEun Nah
Engineering Division, University College
Yonsei University, Korea

2. Fibonacci Sequences and Toeplitz Matrices: Research Opportunities for Undergraduates

Matricial Fibonacci Identities are obtained.

Topic: Algebra; Number Theory
Author/Presenter: Dr. Ben Mathes
Colby College

Continued on next page
3. Perspectives on Current Trends and Issues in Education from Future Educational Leaders in a Graduate-Level Supervision of Instruction Course

The present qualitative study seeks to gain a deeper, richer understanding of the perspectives on current trends and issues in education of prospective educational leaders enrolled in a graduate-level supervision of instruction course. Data triangulation is achieved via participants’ online discussion board posts, participants’ assignments, and a focus group interview. 14 students contributed discussion board posts and assignments for analysis, 13 participated in the audio recorded focus group interview. Data analysis is via contextual analysis of discussion board posts, assignments, and the transcribed focus group interview through open-coding and application of constant-comparative analysis and bracketing to identify recurrent themes.

Topic: Education Policy and Leadership
Author/Presenter: **Dr. Russ Yocum**
Graduate School of Education
Liberty University

Author: **Dr. Russ Claxton**
Graduate School of Education
Liberty University

Author: **Dr. Susan James**
School of Education
University of West Florida

Author: **Ms. Elyse Pinkie**
Graduate School of Education
Liberty University
4. The Role of Cannabis Use Quantity in Predicting Cannabis-Related Problems

This study introduces a new measure of cannabis quantity and examines whether it predicts cannabis-related social problems with and without controlling for frequency of use. Our results suggest that cannabis use quantity, above and beyond frequency, is an important predictor of cannabis problems in youth and adults. We discuss the potential usefulness and validity of this new measure in harm reduction.

Topic: Health Education; Social Science
Author/Presenter: Dr. Cornelia Zeisser
Centre for Addictions Research of BC, Technology Enterprise Facility
University of Victoria

Author: Dr. K. Thompson
Centre for Addictions Research of BC, Technology Enterprise Facility
University of Victoria

Author: Dr. T. Stockwell
Centre for Addictions Research of BC, Technology Enterprise Facility
University of Victoria

Author: Dr. C. Duff
School of Psychology & Psychiatry
Monash University

Author: Dr. C. Chow
Centre for Addictions Research of BC, Technology Enterprise Facility
University of Victoria

Author: Dr. A. Ivsins
Centre for Addictions Research of BC, Technology Enterprise Facility
University of Victoria

Author: Dr. W. Michelow
British Columbia Centre for Excellence in HIV/AIDS

Author: Dr. D. Marsh
British Columbia Centre for Excellence in HIV/AIDS

Author: Dr. P. Lucas
Vancouver Island Compassion Society

Continued on next page
5. What Motivates People from STEM-Related Career Trajectories to Change to Teaching?

This research describes college students’ motivations for leaving STEM career trajectories and choosing careers in education. Reasons for leaving original STEM career trajectories include: career mismatch, high cost (i.e., too much time or effort), dislike of STEM content, and stress. Only those who love the STEM content choose STEM education.

Topic: Other Area Related to Mathematics Research and Practices: Career Development and Motivation

Author/Presenter: **Dr. Lisa Duffin**
Department of Psychology and SKyTeach
Western Kentucky University

Author: **Ms. Shelby Overstreet**
Department of Psychology and SKyTeach
Western Kentucky University

Author: **Ms. Amanda Cook**
Department of Psychology and SKyTeach
Western Kentucky University

6. The Challenges and Support Required for Special Education Teachers in their First Years

Special education teachers in their first years of teaching provided information on a survey for the Top Ten Most Important Areas of focus for a teacher preparation program. A successful alternative teacher preparation program was developed and revised based on survey results; features of the program will be presented.

Topic: Special Education

Author/Presenter: **Dr. Chris Hagie**
Department of Special Education; Lurie College of Education
San Jose State University

7. The Dallas STEM Gateways Collaborative: Initial Analysis of Course Grade Data vs. External Test Scores

The University of Texas at Dallas, Collin College, and Richland College of the Dallas County Community College District have established a joint effort, the NSF-sponsored Dallas STEM Gateways Collaborative, to significantly increase the number of undergraduate students completing degrees in Science, Technology, Engineering, and Mathematics (STEM) in the North Texas region.

Topic: Mathematics Education

Author/Presenter: **Prof. Matthew Goeckner**
Science and Mathematics Education
University of Texas at Dallas

*Continued on next page*
8. Can Smartphones and Tablets be used as Meaningful Tools to Enrich Dental Education?

The purpose of this study was to show that students already owned smart phones and had a desire to use them in clinical care. This fact is useful for educational institutions to provide ongoing professional development support in technology related skills.

Topic: Education Technology

Author/Presenter: Dr. Fatima M. Barnes
Library Department
Meharry Medical College

Author: Mr. Anthony Adkins
Library Department
Meharry Medical College

Author: Dr. Robert Block
Library Department
Meharry Medical College

Author: Mr. Stephan Daphnis
Library Department
Meharry Medical College

Author: Ms. Amelia Whitehead
Library Department
Meharry Medical College

Continued on next page
9. MaxEnt-µSR Study of MgO; Detection of Earthquake-like Precursors

Earthquake-like patterns can be detected by studying positive holes in MgO. These holes could serve as early indications of earthquake signals. For 3N-MgO above room temperature, less than 1% of oxygen is expected to be O-1. MaxEnt analysis of µSR data can identify differences from Lorentzian signals for hole detection.

Topic: Material Science & Engineering
Author/Presenter: **Prof. Carolus Boekema**
Department of Physics and Astronomy
San Jose State University

Author/Presenter: **Ms. Sarah Lee**
Department of Physics and Astronomy
San Jose State University

Author/Presenter: **Ms. Beth Johnson**
Department of Physics and Astronomy
San Jose State University

Author: **Prof. F. Freund**
Department of Physics and Astronomy
San Jose State University

Author: **Ms. Ashley Love**
Department of Physics and Astronomy
San Jose State University

Author/Presenter: **Mr. Grant Welch**
Department of Physics and Astronomy
San Jose State University

**Continued on next page**
10. Cultural Learning Weblogs for 21st Century Language Learners

This session focuses on cultural learning weblogs used in college level language courses to enhance students’ cultural knowledge, cultural sensitivity and critical thinking skills. The presenter will introduce procedures, grading methods, student responses, and learning outcomes of weblogs with a variety of examples.

Topic: Education Technology
Author/Presenters: Dr. Chinatsu Sazawa
World Languages and Cultures
Drake University

11. The Dallas STEM Gateways Collaborative: Initial Analysis of Course Grade Data vs. External Test Scores

The University of Texas at Dallas, Collin College, and Richland College of the Dallas County Community College District have established a joint effort, the NSF-sponsored Dallas STEM Gateways Collaborative, to significantly increase the number of undergraduate students completing degrees in Science, Technology, Engineering, and Mathematics (STEM) in the North Texas region.

Topic: Mathematics Education
Author/Presenters: Prof. Matthew Goeckner
Science and Mathematics Education
University of Texas at Dallas

Author: Dr. John Sibert
Mathematical Sciences
University of Texas at Dallas

Author: Dr. Dave Galley
Mathematical Sciences
University of Texas at Dallas

Author: Dr. Kory Goldammer
Mathematical Sciences
University of Texas at Dallas

12. Learning Environment Design Factors for Online Course Shell Development

Seventy-five teacher education and special education online courses were analyzed and rated on seven factors of learning environment design. Findings reveal that most online course shell development would benefit from better application of learning environment design theory.

Topic: Social Sciences, Inter-Disciplinary & Other Areas
Author/Presenters: Dr. Thomas H. Reynolds
Department of Teacher Education
National University
Monday – June 10, 2013

Room: Carnation
Time: 12:45 pm – 2:15 pm
Session: Adult Education; Curriculum, R&D; Distance Education; Elementary Education; Education Technology; Education Policy & Leadership; Rural Education; Secondary Education; Special Education; Student Education; Teacher Education; Mathematics Education

Session Chair: Dr. Elizabeth Whalley

I. Classroom Management Tips for Optimal Student Learning

Why should negative comments precede positive ones in giving students feedback? Should you erase a blackboard vertically or horizontally and why does it matter? How long should you wait for students to answer a question? How can you make certain every student speaks in every class? In this presentation these questions are answered and additional insights about classroom management for optimal student learning are presented.

Author/Presenter: Dr. Elizabeth Whalley
English Department
San Francisco State University

II. Determining Study-Abroad Effectiveness among Nontraditional Learners

This study investigated the effects of 18 months of doctoral studies, including an international experience, on the intercultural competence levels of doctoral students majoring in organizational leadership.

Author/Presenter: Dr. Michael A. Moodian
Chapman University

III. Learning at my PACE, I Finish the RACE

Students were exposed to Livescribe smartpens as a treatment to help improve mathematics understanding in the classroom. Students self-reported on pre-and post-test survey instruments and the data were analyzed to reveal trends in student attitudes, self-efficacy and achievement. Findings suggest that students grasp concepts at a faster rate and with more confidence than they did before. Data reveals several statistically significant differences in pre-test and post-test measures of students.

Author/Presenter: Dr. Peter M. Eley
MGSS
Fayetteville State University
Author/Presenter: Dr. Kimberly Smith-Burton
MGSS
Fayetteville State University
Monday – June 10, 2013

Room: Plumeria
Time: 12:45 pm – 2:15 pm
Session: Workshop - Science Education, Higher Education, Education Technology

I. Engaging Students with Stories: Using Case Methodology in a Large Biology Lecture

Results of a study using case methodology (stories) to engage undergraduate students in a large introductory science course also demonstrated the potential of current technologies (iPads, clickers) to facilitate such active learning pedagogies. The workshop will provide hands-on demonstration for using iPads and clickers to teach using case methodology.

Author/Presenter: Dr. Allison Hunter
Department of Biology and Biotechnology
Worcester Polytechnic Institute
Monday – June 10, 2013

Room: Pakalana
Time: 12:45 pm – 2:15 pm
Session: Algebra; Calculus; Mathematics Education; Pre-Calculus, Education, Educational Measurement and Evaluation
Session Chair: Dr. Lila F. Roberts

I. Interactive Math Demos for Mobile Platforms

Mobile devices, increasingly common in universities and schools, have excellent potential for increasing student engagement during study. This presentation focuses on interactive math demonstrations that are available as web apps and electronic books.

Author/Presenter: Dr. Lila F. Roberts
College of Information and Mathematical Sciences
Clayton State University

Author: Dr. David R. Hill
Department of Mathematics
Temple University

II. Using PISA Data to Investigate East Asian Academic Success

A two-level hierarchical linear model was used to explore the success in reading, mathematics, and science of six top-performing East-Asian countries. Highly successful students were skillful users of control strategies and meta-cognitive skills in the process of their learning. School disciplinary climate was the most important school climatic attribute.

Author/Presenter: Dr. Xin Ma
Department of Educational, School, and Counseling Psychology
University of Kentucky

Author: Dr. Cindy Jong
Department of Educational, School, and Counseling Psychology
University of Kentucky

Author: Dr. Jing Yuan
Department of Educational, School, and Counseling Psychology
University of Kentucky

Continued on next page
III. Improved Performance of Students in College Algebra and Pre-Calculus Courses Using a Modified Emporium Model Approach

A modified Emporium Model was introduced to redesign College Algebra and Pre-Calculus in fall 2008 at Georgia State University. A significant improvement is observed in student performance.

Author/Presenter: Mrs. Sutandra Sarkar  
Department of Mathematics and statistics  
Georgia State University
Monday – June 10, 2013

Room: Anthurium
Time: 12:45 pm – 2:15 pm
Session: Art Education; Business Education; Early Childhood; Elementary Education; Educational Administration; Health Education; Higher Education; Language Education; Reading Education; Science Education; Secondary Education; Social Studies Education; Special Education; Student Education; Teacher Education

Session Chair: Dr. Maaike Davidson

I. Technology and Teacher Candidates: Setting the Bar Higher

This paper reports the findings of a research study designed to assess teacher candidate use of technology in the teacher education program at a large comprehensive university. The study examined data related to technology integration in the teacher candidate capstone project, The Teacher Work Sample.

Author/Presenter: Dr. Pamela Jukes
School of Teacher Education
Western Kentucky University

Author: Dr. Rebecca Stobaugh
School of Teacher Education
Western Kentucky University

Author: Dr. Lisa Murley
School of Teacher Education
Western Kentucky University

II. Imbedding Student Voice in the Classroom: The Upcoming Teacher Performance Assessment Mandate and Instruments that Facilitate Implementation

Requiring teacher candidates to pass The Teacher Performance Assessment is being considered in 20 states and is already in the process of being mandated in Washington and Illinois. Two instruments, that this researcher designed to assist teaching candidates with implementing student voice effectively in order to better-meet pupils' needs and address the student voice criteria of The Teacher Performance Assessment, will be presented.

Author/Presenter: Dr. Kim Jones McGarraugh
Dept. of Education Foundations and Curriculum
Central Washington University

Continued on next page
III. Use of Elements of Theatre as Teaching Strategies to Increase Preservice Teachers' Self-Efficacy and Proficiency in the Art, Science, and Business of Teaching

Preservice teachers can increase their teaching skills by using role-play to simulate many situations they may encounter. An assessment was created to determine the growth of preservice teachers in the Art, Science, and Business of teaching.

Author/Presenter: **Dr. Maaike Davidson**
Curriculum & Instruction
University of Idaho

Author: **Dr. Linda Taylor**
Curriculum & Instruction
University of Idaho
Monday – June 10, 2013

Room: Carnation
Time: 2:30 pm – 4:00 pm
Session: Workshop - Curriculum, Research, and Development

I. 5E Instruction Model Workshop: The Underpinning of Extraordinary

How did early mathematicians measure the Earth’s circumference? Participants will experience a 5E inquiry model lesson in mathematics that incorporates historical perspectives on STEM content.

Author/Presenter: Ms. Mollie E Robertson
GSKyTeach
Western Kentucky University

Author/Presenter: Dr. Martha M. Day
GSKyTeach
Western Kentucky University
Monday – June 10, 2013

Room: Plumeria  
Time: 2:30 pm – 4:00 pm  
Session: Speech/Communication and Translation, Language Education, ESL/TESL, Instructional Design

Session Chair: Dr. Lee C. Payton

I. Magic Moment on Magic Island

Sally from Beijing, Magic Island on Oahu, a hit song by John Denver, an original LCP song, a life affirming celestial experience in Graceland Cemetery Chicago, and Elvis, unite in a journey of cross-cultural discovery. This presentation features live performance of the original song translated from English into Hawaiian and Chinese.

Author/Presenter: Dr. Lee C. Payton  
Film & Video Department  
Columbia College Chicago

II. Creative Drama, an Effective Medium in Teaching Korean Language and Culture

This paper is a case study of using creative drama as a teaching tool in the intermediate level Korean language classroom. The class model suggests effective ways to incorporate dramatic activities to improve oral proficiency as well as reading and writing skills. Specific teaching methods include: using pictures on the projection screen as prompts for improvised role-plays, helping students with short script writing, and utilizing animated movies with or without sound and with or without Korean subtitles.

Author/Presenter: Dr. Mi Hye Lee  
Department of Languages and Cultures  
William Paterson University

III. Factors Influencing Motivation of ESL Students

This paper is to examine of correlation between factors influencing students' motivation and their social environment, nationality, and individual perspective.

Author/Presenter: Ms. Sueyon Seo  
Foreign Languages and Literature  
University of Wisconsin-Milwaukee

Continued on next page
IV. Parrot Portal Program: Increasing Motivation in English Classes for Undergraduate Second Language Learners

This proposal project was submitted by three graduate students of The University of Texas at San Antonio. The proposal focuses on the design of the Parrot Portal Program based on ADDIE model. The program will be utilized in the classrooms of undergraduate second language learners in order to resolve the issue of lack of motivation.

Author/Presenter: **Ms. Dalal Andijani**  
Department of Interdisciplinary Learning & Teaching Instructional Technology  
The University of Texas at San Antonio

Author: **Ms. Alaa Nyazi**  
Department of Interdisciplinary Learning & Teaching Instructional Technology  
The University of Texas at San Antonio

Author: **Ms. Jo Anne Noble**  
Department of Interdisciplinary Learning & Teaching Instructional Technology  
The University of Texas at San Antonio
Monday – June 10, 2013

Room: Pakalana
Time: 2:30 pm – 4:00 pm
Session: Applied Mathematics; Computational Mathematics - non-Newtonian viscoelastic fluids
Session Chair: Prof. Michael Olinick

I. Modeling the Depletion of Nonrenewable Resources: From Arithmetic to Optimal Control Theory

Our civilization heavily depends on nonrenewable resources. How long will such resources last? Are there optimal ways to manage a dwindling supply? We approach such questions with models using concepts from arithmetic, algebra, calculus of one and several variables, differential equations, discrete dynamical systems, computer simulation, and optimal control theory.

Author/Presenter: Prof. Michael Olinick
Department of Mathematics
Middlebury College

II. A Note about Dynamical Systems in Different Frames of Reference

This paper integrates the formulation of $\frac{dx}{dt} = f(x)$ in dynamical systems with Special Relativity, to model 4-dimensional spacetime dynamics realistically, among other things, to observe the limit of the speed of light $c$.

Author/Presenter: Dr. Gregory L. Light
Department of Management
Providence College

Continued on next page
III. Steady-State Viscoelastic Rimming Flow

Solution for Oldroyd-B fluid flow is found.

Author/Presenter: **Dr. Sergei Fomin**  
Department of Mathematics and Statistics  
California State University

Author: **Dr. R. Shankar**  
Department of Chemistry  
Butte College

Author: **Dr. N. Danes**  
Department of Mathematics  
California State University

Author: **Dr. A. Yasuda**  
Department of Mathematics  
University of California

Author: **Dr. D. Costo**  
Department of Mathematics  
California State University
Monday – June 10, 2013

Room: Anthurium
Time: 2:30 pm – 4:00 pm
Session: Interdisciplinary Areas of Mathematics, Mathematics Education, Education and Children
Session Chair: Dr. Mary Jo De Garcia Parker

I. Innovative Seminar Course Model for Underrepresented Freshman/New Transfer Undergraduates in Math and Science

The UHD Scholars Academy is an academically competitive scholarship and mentoring program which supports gifted minority and female students, first-time-in-college (FTIC) students, first generation students and transfer students pursuing bachelor’s degrees in science, engineering, technology, mathematics, and computer science (STEM) fields. In part, some of the Scholars Academy student success arises from two seminar courses offered for freshmen (CSP FTIC) and new transfers (CSP Transfers).

Author/Presenter: Dr. Mary Jo De Garcia Parker
Natural Science Department Biology Faculty
Scholars Academy and University of Houston-Downtown

Author/Presenter: Mr. Rene Garcia
Scholars Academy and University of Houston-Downtown

Author/Presenter: Ms. Mitsue Nakamura
Computer and Mathematical Sciences Faculty
Scholars Academy and University of Houston-Downtown

II. The Effectiveness of WebAssign in an Online Freshman Level Algebra Course

The purpose of this study is to investigate whether WebAssign grades and student performance on traditional exams are correlated as well as whether online homework improves student success rates in online Intermediate Algebra.

Author/Presenter: Dr. Amy Franklin
Dept. of Mathematical, Computing & Information Sciences
Jacksonville State University

III. Impact of Technology on Children and Education

How the Influence of New Technologies Affect Children’s learning in the Classroom. Discussion of Both Positive and Negative Effects will be addressed.

Author/Presenter: Prof. Cheryl Pawlowski
School of Communication
University of Northern Colorado
Monday – June 10, 2013

Room: Carnation
Time: 4:15 pm – 5:45 pm
Session: Workshop - Interdisciplinary Areas of Mathematics, Mathematics Education, Education and Children

I. GradeCam: Making Grading as Easy as Snapping a Picture

Grading has never been easier with GradeCam, a web-based grading tool that allows users to grade by snapping a picture of students' bubble sheets using their computers’ webcam. The GradeCam app also allows users to use the camera on their iPad. Grades can then be uploaded to any grade book, guaranteed by GradeCam. In this session, we will model how GradeCam can be used and show you how to get started with GradeCam.

Author/Presenter: Dr. Lori Froedge
GSKyTeach
Western Kentucky University

Author/Presenter: Dr. Martha M. Day
GSKyTeach
Western Kentucky University
Monday – June 10, 2013

Room: Pakalana
Time: 4:15 pm – 5:45 pm
Session: Semiconductor Devices, Material Science & Engineering
Session Chair: Dr. Md. Abdus Sattar

I. A New Pedagogical Approach for Solid State Electronic Device Education: The Variational Thermodynamic Technique for Modeling the Variational Thermodynamic Technique for Modeling

A new pedagogical approach for solid state electronic device education is presented. We developed and applied a modeling technique to Trench Insulated-Gate Bipolar Transistor (TIGBT). We compare our model results with measured capacitance-voltage characteristics which confirm that our technique is effective in modeling solid state devices.

Author/Presenter: Dr. Md. Abdus Sattar
Electrical Engineering Dept.
Santa Clara University

Author/Presenter: Dr. Norman G. Gunther
Electrical Engineering Dept.
Santa Clara University

Author/Presenter: Dr. Mahmudur Rahman
Electrical Engineering Dept.
Santa Clara University

II. Wannier Functions and 3d Electron Localization of Magnetite

Magnetite (Fe3O4) shows a metal-to-insulator transition at \( T_v \) (~123 K) due to the properties of the "extra 3d" (3d*) conduction electrons. Magnetic anomalies observed above \( T_v \) suggest that Fe3O4 can be considered a Wigner electron glass. The Wannier states in Fe3O4 indicate a mixture of localized and delocalized electron states.

Author/Presenter: Mr. Anthony Carpentier
Physics and Astronomy
San José State University

Author/Presenter: Prof. Carolus Boekema
Physics and Astronomy
San José State University

Continued on next page
III. Maximally Localized Wannier Function of Fe3O4; an Ab Initio Study

Magnetite has many remarkable physics properties are not well understood. Among these are the metal-insulator transition at the Verwey Temperature (123K) and a spin-glass-like transition at 247K. To better understand these properties, we calculate a set of maximally localized Wannier functions. We start from a rst principles DFT+U band structure calculation and then perform a transformation of the Bloch orbitals to obtain maximally localized Wannier functions. We then perform a disentanglement procedure for the t2g orbitals located on the B sublattice which contain the "extra" spin-polarized 3d electrons that are mainly responsible for the conducting state of magnetite above TV.

Author/Presenter: Mr. Perry Sakkaris  
Physics and Astronomy  
San José State University

Author/Presenter: Mr. Jake Wainwright  
Physics and Astronomy  
San José State University

Author/Presenter: Ms. Ahram Kim  
Physics and Astronomy  
San José State University

Author/Presenter: Prof. Carolus Boekema  
Physics and Astronomy  
San José State University
DAY 2

Tuesday – June 11, 2013
Keynote Speaker – Dean Frank Haas

Tuesday June 11
Garden Lanai Ballroom
7:30 am – 8:00 am

Frank Haas is currently the Dean of Hospitality, Business and Legal Education programs at Kapi‘olani Community College and has taught undergraduate and graduate level courses in marketing management and tourism development. In addition to his educational duties, he has undertaken planning and training projects for tourism, government, and non-profit organizations in the U.S., Asia/Pacific and most recently for the Kingdom of Morocco, India and Sri Lanka. Prior to joining the university, Frank served as Vice President and Director of Marketing for the Hawai‘i Tourism Authority, where he managed the state’s marketing programs for leisure, business travel, conventions, and sports.

His marketing career in Hawai‘i includes marketing positions in tourism, fast food, and high tech. In 1999-2000, he was national chair American Marketing Association and he has been a speaker at national and international marketing conferences. His work has been recognized with national and local awards and he serves on a variety of community organizations. Frank earned a Masters in Business Administration and a Bachelor of Science Degree in Journalism, both from Northwestern University. He and his wife, Susan, live in Kailua.

Keynote Speech
“Upending Tradition: Education Meets the Twenty-First Century”
Tuesday - June 11, 2013

Room: Carnation  
Time: 8:15 am – 9:45 am  
Session: Curriculum, R& D; Distance Education; Educational Measurement & Evaluation; Teacher Education, Higher Education  
Session Chair: Prof. Matthew J. Goeckner  

I. Increasing and Improving K-12 Computer Science Education through Partnerships

The Partnership for Early Engagement in CS High School (PEECS-HS) program is designed to address the lack of US students entering computer science prior to high-school graduation. Through the development and implementation of a year-long, introductory course, titled Exploring CS, all students in Washington, DC Public Schools will complete a computer science course prior to graduation.

Author/Presenter: Dr. A. Nicki Washington  
Department of Systems and Computer Science  
Howard University  
Author/Presenter: Dr. Legand L. Burge  
Department of Systems and Computer Science  
Howard University  

II. A Matrix Map Method for Coordinated Undergraduate Curriculum Improvement in Electrical Engineering and Other Programs

Traditionally curriculum improvements are often based on comparisons with similar programs at other universities. In this paper we describe an alternative, generalizable method for coordinating curricula that does not require such comparisons and furthermore allows one to tailor the program to fit the specific needs of the students.

Author/Presenter: Prof. Matthew J. Goeckner  
Department of Electrical Engineering  
Department of Science/Mathematics Education  
University of Texas at Dallas  
Author: Dr. Gerald Burnham  
Department of Electrical Engineering  
University of Texas at Dallas  
Author: Dr. C. Ledbetter  
Department of Science/Mathematics Education  
University of Texas at Dallas  
Author: Dr. Robert C. Hilborn  
Department of Science/Mathematics Education  
University of Texas at Dallas  

Continued on next page
III. Review of Literature on Chickering and Gamson’s Seven Principles of Good Practice in Undergraduate Education: Has Teaching Improved Since 1987?

Since their publication in 1987, Chickering and Gamson’s Seven Principles of Good Practice in Education have served as guidelines for faculty members, students, and administrators to improve education. While the effectiveness of online learning is difficult to measure, research findings suggest that the quality of online education increases as the technology improves. Sixteen publications on the seven principles were reviewed to determine the extent in which best practices were integrated to measure teaching effectiveness.

Author/Presenter:  **Dr. Fatima M. Barnes**  
Library Department  
Meharry Medical College
Tuesday - June 11, 2013

Room: Plumeria  
Time: 8:15 am – 9:45 am  
Session: Social Sciences, Early Childhood Education/Elementary Education, Teacher Education  
Session Chair: Dr. Amy Freshwater  

I. Child Directed Activity among Preschool Children

The purpose of this qualitative, exploratory study was to investigate what child directed activity may look like in early childhood, what educators think about child directed activity, including why it is important in early childhood settings, and how early childhood educators can promote child directed activity among young children.

Author/Presenter: Ms. Kathleen Tran  
Educational Psychology  
University of Hawaii at Manoa

II. A Motivational Program for Elementary School Learners of English

I developed a program to motivate grade five learners of English in Singapore to study English by applying Zoltán Dörnyei’s Second Language Motivational Self System. 90% of the participants in the experimental group became more motivated to learn English, whereas only 50% became more motivated in the control group.

Author/Presenter: Dr. Michael Magid  
Academy of Singapore Teachers  
English Language Institute of Singapore

III. Ethics and Culture: Inspiring Higher Order Thinking in University Teacher Candidates

This presentation compares university teacher candidate responses to an open-ended ethical dilemma question involving a parent-teacher issue and cultural knowledge and understanding. When the original dilemma question was slightly changed, candidates’ responses became more creative and sensitive to the parents and children in the classroom, indicating higher order thinking.

Author/Presenter: Dr. Amy Freshwater  
Department of Elementary, Early & Special Education  
Southeast Missouri State University
Tuesday - June 11, 2013

Room: Pakalana
Time: 8:15 am – 9:45 am
Session: Applied Mathematics, Statistics, Bioinformatics
Session Chair: Prof. Cheri Shakiban

I. Cumulative Distance Histograms and their Application to the Identification of Melanoma

This research focuses on using a computer vision technique called “Invariant distance histograms”, to analyze border irregularity in skin lesions. This technique together with statistical methods enables us to compare the border of malignant melanoma samples to the border of common moles and to detect and quantize their difference.

Author/Presenter: Prof. Cheri Shakiban
Department of Mathematics
University of St. Thomas

Author: Mr. Jack Stangl
Department of Mathematics
University of St. Thomas

II. Methodological Biases in Meta-Analytic Techniques: Investigating the Impact of Different Types of Drinker Misclassification Errors on Risk Estimates in Alcohol-Disease Associations

Statistical analyses have linked alcohol consumption to various disease outcomes. Our research explored the potential impact of four commonly encountered drinker misclassification errors on the accuracy of risk estimates in the alcohol-breast cancer relationship. These errors often arise from including former or occasional drinkers in an abstainer reference group when estimating risk.

Author/Presenter: Dr. Cornelia Zeisser
Centre for Addictions Research of British Columbia
University of Victoria

Author: Dr. Tim R. Stockwell
Centre for Addictions Research of British Columbia
University of Victoria

Author: Dr. Ron Roizen
Dept. of Social and Behavioral Sciences
University of California San Francisco

Author: Dr. Kaye Fillmore
Dept. of Social and Behavioral Sciences
University of California San Francisco

Author: Dr. Tanya Chikritzhs
National Drug Research Institute
Curtin University

Continued on next page
III. An Algorithm for Fuzzy Clustering of Categorical Datasets for Breast Cancer Diagnosis

The early diagnosis of breast cancer is an important step in a fight against the disease. Machine learning techniques have shown promise in improving our understanding of the disease. As medical datasets consist of data points which cannot be precisely assigned to a class, fuzzy methods have been useful for the study of these datasets. Sometimes breast cancer datasets are described by categorical features. Many fuzzy clustering algorithms have been developed for categorical datasets. However, in most of these methods Hamming distance is used to define the distance between the two attribute values. In this paper, we used a probabilistic distance measure to compute the distance between two categorical values. The proposed algorithm is tested on Wisconsin breast cancer dataset. Experiments on Wisconsin breast cancer data demonstrate the effectiveness of the proposed approach.

Author/Presenter: **Dr. Sami Halawani**  
Faculty of Computing and Information Technology  
King Abdulaziz University

Author/Presenter: **Dr. Ahmad Amir**  
Faculty of Computing and Information Technology  
King Abdulaziz University
Tuesday - June 11, 2013

Room: Anthurium
Time: 8:15 am – 9:45 am
Session: Academic Advising and Counseling; Business Education; Interdisciplinary & other areas, Mathematics, Internationalization of HE
Session Chair: Dr. Lance J. Edwards

I. Upper-Division Business Majors and Lower-Division Non-Business Majors: A Comparison of Career Desires, Expectations and Confidence

In this study, we surveyed upper-division business majors (management and accounting) participating in their senior capstone class and lower-division (freshman and sophomores) non-business majors participating in an introduction to business survey course.

Author/Presenter: Dr. Lance J. Edwards
Business Administration Division
William Penn University

Author: Dr. William C. Kuba
Business Administration Division
William Penn University

II. Effects of Banks’ Capital Level on Return and Credit Risk through Lending Activity under Syndication Loans

This study uses samples of 34,082 syndication loans of publicity banks in the U.S. during the periods of 1987-2010, to test the theory of informational monopolies advantage and the theory of sacrificing reputational capital, then analyzes the impact of capital level on banking return and credit risk through its lending activity under syndication loans. The implications would be provided with policy implication to regulatory.

Author/Presenter: Prof. Shu Ling Lin
Department of Business Management
National Taipei University of Technology

III. The EU Strategy on Knowledge Based Economy and Information Society as a New Challenge Also for Internationalization of the EU Higher Education

The paper "The EU strategy on knowledge based economy and information society as a new challenge also for internationalization of the EU higher education" is dealing with some issues of the changing role of higher education in the EU in respect of new challenges related to the strategic goals of the EU to become a modern knowledge based economy and information society in accordance with the EU strategies like Lisbon strategy on e-Europe of year 2000, i2010 strategy and the latest one Europe 2020.

Author/Presenter: Prof. Dusan Soltes
Faculty of Management
Comenius University in Bratislava
Tuesday - June 11, 2013

Room: Carnation
Time: 10:00 am – 11:30 am
Session: Curriculum Research & Development, Higher Education; Social Studies Education; Sociology; Social Science; Inter-disciplinary & other areas; military studies
Session Chair: Dr. Melissa M. Matthes

I. Connecting Students with Cultural Sensitivity

Since it is impossible to recruit enough teachers to match the demographics of our diverse students’ population, developing teacher cultural competency is essential to students’ achievement.

Author/Presenter: Dr. Jane A. Crossley
Graduate Program of Education Department
Chicago State University

II. The Trending of Bullying in Higher Education

This presentation will combine lecture and discussion from authors, along with solicited participation from the audience. Bullying is often the means for student withdrawal from higher education without completion of the degree which can lead to a life time of consequences for those individuals involved.

Author/Presenter: Ms. Irasema Padilla
Department of Special Education
New Mexico State University

Author: Dr. Loretta Salas
Department of Special Education
New Mexico State University

Author: Dr. Blanca Martinez-Rolle
Department of Special Education
New Mexico State University

III. Teaching Gender, Talking Sex during the Repeal of Don't Ask, Don't Tell

What experiences and practices encourage undergraduates to change their minds about deeply held beliefs? This essay is a brief ethnographic snapshot of the US Coast Guard Academy during the transition of the repeal of Don’t Ask, Don’t Tell (2010-2011). This essay explores the various techniques and pedagogical strategies which various faculty members and institutional leadership employed over the course of 18 months to begin to move a modestly recalcitrant population toward a more inclusive understanding of gay and lesbian service members.

Author/Presenter: Dr. Melissa M. Matthes
Humanities Department
US Coast Guard Academy
IV. How Underrepresented High-Achieving STEM College Students Manage Stereotypes and Policy-Related Threats to their Identities

The concept of stereotype management, drawing on data collected from more than 80 high-achieving African American, Latino, and Asian undergraduate and graduate students across two qualitative studies. Recognizing that students should not have to bear the burden of battling racialized stereotypes on their own, I will also identify strategies that universities can use to recognize and reduce the intensity of racial stereotyping.

Author/Presenter: Dr. Ebony O. McGee
Peabody College of Education
Vanderbilt University
I. Better Design Comes from Better Communication

Traditional academic computer aided graphic design environments offer an immersive experience between student and machine, but fall short when it comes to providing an interactive, communal space in which the student can develop content derived from communication and interaction. The result is work that has a tendency to be insular in nature, and not address the fundamental tenants of empathetic, needs based design. Observing this, I worked with my Dean and the Department of Information Technology to develop an advanced graphic design course that addressed these issues in three distinct but interdependent areas. 1. The course curriculum which implemented design thinking and the use of mobile and fixed technologies into all stages the syllabus. 2. Hardware, software experience: Blog, 10 iPads and apps, Dropbox, iPhoto stream, Apple TV, HD projector, 36 applications etc. 3. The environment both as a restructuring of the lab to include interactive spaces and by using mobile devices to be able to access our surroundings as an extension of the lab. None of these parts were isolated into sequential stages, but instead interacted with and informed one another to serve the purpose of creating a whole course experience.

Author/Presenter: **Dr. Steven Polacco**
Department of Art, Art History and Design
Dominican University of CA
Tuesday - June 11, 2013

Room: Pakalana  
Time: 10:00 am – 11:30 am  
Session: Education/ Curriculum, Research and Development; Education Technology; Solar cells, renewable energy, nanotechnology, organic dye sensitization, Higher Education/Rural Education/Extension Education  
Session Chair: Prof. Qinghua (Peter) He

I. Education on Biofuels Technology in Chemical Engineering

The gap between advanced biofuels research and undergraduate biofuels education will be discussed. A systematic approach is proposed to create educational materials that integrate biofuels technology into undergraduate chemical engineering curriculum.

Author/Presenter: Prof. Qinghua (Peter) He  
Department of Chemical Engineering  
Tuskegee University

Author: Dr. Jing Wang  
Department of Chemical Engineering  
Auburn University

Author: Mr. Donald R. Johnson  
Department of Chemical Engineering  
Tuskegee University

Author: Mr. Rong Walburn  
Department of Chemical Engineering  
Auburn University

II. Efficiency Enhancement of Nanocrystalline Solar Cells

Dye-sensitized solar cells (DSSC), employ TiO2 - a semiconductor for which the bandgap is so wide that energy from sunlight is insufficient to excite electrons enough to make them conduct. However, photons from sunlight can excite electrons in organic dyes such as blackberries and raspberries which contain anthocyanin producing electricity. Although silicon-based solar cells are currently more efficient than DSSCs, they are much more expensive to manufacture.

Author/Presenter: Dr. Abby Ilumoka  
College of Engineering  
University of Hartford

Author: Mr. P. Srivastava  
College of Engineering  
University of Hartford

Continued on next page
III. Anatomy of a Contaminated Compost Case Study and a Land Grant University Still Functioning as Intended

Presentation of a case study involving persistent herbicides, compost, home gardens in harm’s way and Vermont Agency of Agriculture and University of Vermont Extension teaming up to identify and analyze the issues, address public concerns and misinformation in the media, and look to establish consistent methods to test for and/or prevent future compost contamination.

Author/Presenter:  Dr. Elizabeth Greene  
Department of Animal Science  
University of Vermont  

Author:  Dr. Rebecca C. Bott  
Department of Animal Science  
South Dakota State University  

Author:  Dr. Cary Giguere  
Agrichemical Management Section Chief  
Vermont Agency of Agriculture  

Author:  Dr. Krishona L. Martinson  
Department of Animal Science  
University of Minnesota  

Author:  Dr. Ann M. Swinker  
Department of Animal Science  
Pennsylvania State University  

IV. Cost-Effective Microalgae Bio-Jet Fuel Technology

Renewable aviation fuel, or bio-jet fuels technology is a promising technology in addressing the rapid rise in petroleum-based jet fuel and its greenhouse gas emission. Yet there are challenges to making the bio-jet fuels sustainable.

Author/Presenter:  Prof. Ihab H. Farag  
Chemical Engineering Dept  
University of New Hampshire
Tuesday - June 11, 2013

Room: Anthurium
Time: 10:00 am – 11:30 am
Session: Workshop - Teacher Education

I. Self-Reflection as a Centering Method for Student Teacher Priorities

All layers of education are increasingly overwhelmed with programmatic and bureaucratic requirements. We have discovered that in order to keep our student teachers from getting bogged down in the considerable details of these matters, they need to be constantly drawn back to the big picture of teaching. Reflective journaling appears to be one method for helping them keep the high priority of actual classroom teaching front and center. This seminar will describe this process.

Author/Presenter: Dr. Mary Seaborn
School of Teacher Education
Indiana Wesleyan University in Marion
Tuesday - June 11, 2013

Room: Carnation  
Time: 12:45 pm – 2:15 pm  
Session: Elementary Education; Science Education; Engineering, Applied Mathematics, Engineering, materials, mechanics of materials  
Session Chair: Prof. Martin Reisslein

I. Evaluating an Engineering Overview Brochure for Educational Outreach to Elementary Schools

An engineering overview brochure was designed and developed by a multi-disciplinary team. Elementary school students studied the brochure. Student perceptions of engineering before and after studying the brochure were assessed with a survey. Results indicate significantly improved student perceptions of engineering after the brochure study.

Author/Presenter: Prof. Martin Reisslein  
School of Electrical, Computer, and Energy Engineering  
Arizona State University

Author: Ms. Amy M. Johnson  
School of Electrical, Computer, and Energy Engineering  
Arizona State University

Author: Dr. Gamze Ozogul  
School of Electrical, Computer, and Energy Engineering  
Arizona State University

Author: Dr. Jana Reisslein  
School of Electrical, Computer, and Energy Engineering  
Arizona State University

II. On Teaching the Undergraduate Statistics

This paper will contain the author’s teaching experiences and views in undergraduate statistics plus that of fellow Conference participants with a concluding summary. The motivation is to make the learning and teaching of this subject more pleasant and effective.

Author/Presenter: Dr. Gregory L. Light  
Department of Management  
Providence College

III. Technique of Quantifying Residual Stresses and their Effects on Surface Integrity

This paper addresses how residual stresses are generated during manufacturing processes. It discusses a stress strain relationship where the strain is measured non-destructively by means of x-ray diffraction. The effect of these stresses is correlated to surface integrity and fatigue failures.

Author/Presenter: Prof. Daniel J. Magda  
MMET Department  
Weber State University
Tuesday - June 11, 2013

Room: Plumeria  
Time: 12:45 pm – 2:15 pm  
Session: Education, Classics, Philosophy, Rhetorical Theory, Language Education, Education Technology  
Session Chair: Dr. Therese Jones

I. Teaching the Aristotelian Corpus: Some Constraints

The Aristotelian corpus is of unsurpassed importance in the world of ancient philosophy, but it can be as daunting to present to students as it is to evaluate the writings themselves. This paper offers a set of guidelines for understanding some of the constraints under which Aristotle himself taught and wrote.

Author/Presenter: Dr. John T. Kirby  
Department of Classics  
University of Miami

II. Increasing Dual Language Learning Children’s Vocabulary: Learning from Peers during Shared Book Reading

Based on Vygotsky’s social-cultural theory, the study examined positive and effective English language development for Dual Language Learners (DLLs) of their later school readiness. During shared book-reading using a technique called dialogic reading, DLLs learned English in a small group with English speaking peers through imitating and repeating new word.

Author/Presenter: Ms. Reiko Kawamura  
College of Education in Educational Psychology  
University of Hawaii at Manoa

III. Teaching Students to Think Before They Write

What are some of the greatest obstacles that our students face with writing assignments? Are there common writing obstacles faced by students in a variety of their courses, not just composition courses? Many students submit assignments without investing in prewriting or critical thinking. However, the process of writing is just as vital as the product of writing.

Author/Presenter: Prof. Therese Jones  
English Department  
Lewis University

Continued on next page
IV. Incomplete Exposition or Propaganda Tools? A Look at Sunday School Textbooks as a Case Study

This paper argues that three stylistic flaws in writing—liberal generalizations, partial exposition of concepts and literary gloss—create problems in comprehension and accuracy for readers of religious textbooks. These Sunday School textbooks need vigorous editing to enable students to learn pluralism.

Author/Presenter:  
Ms. Syeda Sara Abbas  
Department of English  
Point Park University
Tuesday - June 11, 2013

Room: Pakalana
Time: 12:45 pm – 2:15 pm
Session Chair: Prof. Tai-Ran Hsu

I. Teaching CNC Machine Programming Using Virtual Machines

Presentation will focus on the author’s successful method of teaching CNC lathe and mill programming using virtual machines. Audience will find the presentation useful because most engineering and technology programs face budget and space constraints to keep updating CNC machines in laboratories. Typical programming assignments in the industrial engineering course on manufacturing system design are presented and discussed.

Author/Presenter: Dr. Swaminathan Balachandran
Department of Mechanical and Industrial Engineering
University of Wisconsin – Platteville

II. Mathematics for Engineering Education

The paper presents the teaching of Engineering Analysis by synergistically integrating the math that students learned in freshman and sophomore years in solving mechanical engineering problems on rigid body dynamics, fluid mechanics, and heat transfer and mechanical vibrations. Statistics is used to handle quality control of products by mass production.

Author/Presenter: Prof. Tai-Ran Hsu
Dept. of Mechanical and Aerospace Engineering
San Jose State University

III. An Algebraic Connection between Ordinary Least-Square Regression and Regression Through the Origin

Ordinary least-square regression (OLS) or regression through the origin (RTO)? That is the question. This paper tries to establish an algebraic relation of the slopes and R squares between these two models and study the connection between them. One of the results can be used as a pedagogical tool to construct data set with breakdown point.

Author/Presenter: Dr. Xiaohui Zhong
Department of Mathematics
University of Detroit Mercy
Tuesday - June 11, 2013

Room: Anthurium
Time: 12:45 pm – 2:15 pm
Session: Education Technology; Science Education, Science Education, Sociology; Social Science
Session Chair: Dr. Joe Omojola

I. Student Initiated Project: Creating a Volumetric Display

The Sophomore Imaging Science class from Rochester Institute of Technology has formed a project creating a 3D volumetric display, comparable to a hologram. They will be talking about the technology behind their system and how it works.

Author/Presenter: Ms. Rose Rustowicz
Imaging Science, undergraduate
Rochester Institute of Technology

Author: Mr. Sean Cooper
I Motion Picture Science, undergraduate
Rochester Institute of Technology

Author: Ms. Cicely DiPaulo
Imaging Science, undergraduate
Rochester Institute of Technology

Author: Ms. Megan Lafrati
Imaging Science, undergraduate
Rochester Institute of Technology

Author: Mr. Douglas Peck
Imaging Science, undergraduate
Rochester Institute of Technology

Author: Ms. Brooke Saffren
Biomedical Science, undergraduate
Rochester Institute of Technology
II. Impact of Research Mentoring in Transformation of STEM Education at Southern University at New Orleans

Performance of minority and women students in STEM education at Southern University at New Orleans has made significant gains for over a decade. This improvement is due largely to research mentoring of undergraduate STEM majors through NSF funded grants such as LS-LAMP, HBCU-UP and S-STEM.

Author/Presenter: **Dr. Joe Omojola**  
Natural Sciences  
Southern University at New Orleans

Author: **Dr. Murty S. Kambhampati**  
Natural Sciences  
Southern University at New Orleans

Author: **Dr. Carl P. Johnson**  
Natural Sciences  
Southern University at New Orleans

Author/Presenter: **Ms. Phyllis Okwan**  
Natural Sciences  
Southern University at New Orleans

III. Importance of Interdisciplinary Program

Design an Interdisciplinary minor within Social Science. The minor will prepare students to work in a disaster and emergency management field.

Author/Presenter: **Dr. Meherun Laiju**  
Sociology  
Tougaloo College
Tuesday - June 11, 2013

Room: Carnation
Time: 2:30 pm – 4:00 pm
Session: Workshop - Early Childhood Education/Elementary Education; Reading Education; Teacher Education

I. Belize: Literacy Education and Partnership (LEAP) with the University of Tennessee at Martin (UTM)

A session detailing an ongoing reading education/literacy partnership between The University of Tennessee at Martin Teacher Education Program and Gales Point Manatee Government Primary School to benefit preservice teachers, university faculty, public school faculty, and enrolled students-Beginnings, Lessons Learned and Aspirations.

Author/Presenter: Dr. Beth Quick
Department of Educational Studies
University of Tennessee at Martin
Tuesday - June 11, 2013

Room: Plumeria
Time: 2:30 pm – 4:00 pm
Session: Workshop - ESL/TESL; Language Education; Second Language Studies; Theatre

I. “¡Viva el teatro!” An Interdisciplinary Performance-Based Approach to Increasing Students’ Second-Language and Cultural Proficiencies

In this workshop, participants will explore the many benefits of dramatic performance as a way to enhance students’ success in the second language acquisition process, with a special focus on higher-level proficiency. Additionally, the workshop will address how and why the needs of heritage speakers are also supported through this work. Cultural competency, a primary goal in any second language degree program, is strengthened when contextualized and performed through theatre-based activities, as are motivation, linguistic- and self-confidence. Participants will learn about an innovative interdisciplinary team-taught course in Theatre Arts and Spanish, and will consider which parts of this model might be successfully replicated in other settings.

Author/Presenter: Prof. Darci Strother
Department of Modern Language Studies
California State University San Marcos

Author/Presenter: Prof. Marcos Martinez
Department of Visual and Performing Arts
California State University San Marcos
Tuesday - June 11, 2013

Room: Pakalana
Time: 2:30 pm – 4:00 pm
Session: Elementary Education; Science Education; Secondary Education, STEM Education, Curriculum Research and Development
Session Chair: Dr. John H. Hall

I. Using Marine Science Research to Bring Math to the K-12 Classroom

University research can be converted into K12 activities and published in education journals. These activities were collaborations between a university marine scientist, graduate students, and teachers. We also provide examples of how K12 students can participate in data collection.

Author/Presenter: Dr. Mary Carla Curran
Department of Systems and Computer Science
Savannah State University

II. Using the Birkman Method to Promote Success for Students in the STEM Disciplines

Our project is centered on using the Birkman personality assessment to study how personality, behaviors, and thinking patterns influence the majors and careers people choose. The purpose of our study is to assist educators in addressing the Nation’s needs in Science, Technology, Engineering and Mathematics (STEM).

Author/Presenter: Dr. John H. Hall
Department of Chemistry
Morehouse College
Tuesday - June 11, 2013

Room: Anthurium  
Time: 2:30 pm – 4:00 pm  
Session: Education Technology Programming and Logic Device Design Digital Design and Testing Tool, Distance Education  
Session Chair: Dr. John J. Devore

I. VisiBoole: an Equation-Based Interactive Digital Design Tool

A visual-feedback, interactive, rapid digital design and verification tool (Windows-based program) is presented. The visual feedback consists of a color-coded display of a simulation of a design’s HDL equations. Design verification consists of clicking independent variables on the active display (toggles their value) or TICK (simulates a clock cycle).

Author/Presenter: Dr. John J. Devore  
Electrical and Computer Engineering  
Kansas State University

II. Does Using Moodle for Learning Enhance Students' Online Interactivities and their Learning Achievement- Application of Grey Relational Analysis?

The purpose of this study is to understand how student behave in the online learning environment Moodle. By using Grey relational analysis to understand and to predict students’ grades, researchers are interested in understanding if there is any association between students’ interactivities and their final grades in Moodle system. The study developed online materials for one semester course of application of multimedia for the freshmen students in St. John’s University in Taiwan.

Author/Presenter: Prof. Shun-Jyh Wu  
Department of Digital Literature and Arts  
St. John’s University  
Author/Presenter: Dr. Ai-Lun Wu  
Department of Digital Literature and Arts  
St. John’s University

III. Using Bibliotherapy to Help Students Who are Struggling with Difficult Personal Experiences

This presentation will summarize secondary prevention efforts to review children’s literature dealing with themes such as anger management, problem solving and character education for the purpose of creating curriculum kits for local schools that can be used as resources for parents and educators when talking to children about these topics.

Author/Presenter: Dr. Michael Rozalski  
Graduate School of Education  
Binghamton University
IV. From Sea to Shining Sea: Bringing Federal Cybersecurity Issues into Classrooms Outside the Beltway

Enabled by technology, a collaboration of UH/UW/GWU vividly brings the thrill, challenges and opportunities offered by cybersecurity careers in Federal service into west coast and island classrooms through televised experiences of on-the-ground Federal leaders in DC.

Author/Presenter:  
**Dr. Martha E. Crosby**  
ICS Department  
University of Hawaii

Author:  
**Dr. Barbara Endicott-Popovsky**  
ICS/UHM iSchool  
University of Washington

Author:  
**Dr. Rachelle Heller**  
Department of Computer Science  
The George Washington University
Tuesday - June 11, 2013

Room: Plumeria
Time: 4:15 pm – 5:45 pm
Session: Workshop - Cinema Sound

I. Case Studies in Cinema Sound - Excerpts from the forthcoming Book Ears Don't Blink - A Primer on Cinema Sound & Re-Recording Mixing

Case Studies in Cinema Sound is a dynamic workshop exploring techniques and concepts that achieve maximum emotional effect in the final cinema soundtrack. Film clips to be screened are from the forthcoming book entitled Ears Don't Blink - The Fine Art of Cinema Sound & Re-Recording Mixing © LCP2013.

Author/Presenter: Dr. Lee C. Payton
Film & Video Department
Columbia College Chicago
Tuesday - June 12, 2013

Room: Carnation
Time: 8:15 am – 9:45 am
Session: Workshop - "Education Technology Programming and Logic Device Design Digital Design and Testing Tool"

I. Supporting Language Acquisition and Content-Specific Science Access: Universal Design for Learning using LEGO™ WeDos to Teach Simple Machines

Building on the definition of a Learning Community proposed in Professional Learning Communities for Science Teaching: Lessons From Research and Practice by Munday and Stiles, we embrace the following six characteristics: Focus on Learning, Collaborative Culture, Collective Inquiry, Action Orientation and Experimentation, Continuous Improvement, and Result Orientation for elementary children, pre-service and in-service educators.

Author/Presenter: Dr. Kate Baird
Education
IUPUC

Author/Presenter: Ms. Stephanie Coy
Education
IUPUC

Author: Ms. Caroline Arbuckle
Education
IUPUC

Author: Dr. Allison Howland
Education
IUPUC

Author: Dr. Aija Pocock
Education
IUPUC
Tuesday - June 12, 2013

Room: Plumeria
Time: 8:15 am – 9:45 am
Session: Workshop - "Education Technology Programming and Logic Device Design Digital Design and Testing Tool"

I. VisiBoole: an Equation-Based Interactive Digital Design Tool

A visual-feedback, interactive, rapid digital design and verification tool (Windows-based program) is presented. The visual feedback consists of a color-coded display of a simulation of a design’s HDL equations. Design verification consists of clicking independent variables on the active display (toggles their value) or TICK (simulates a clock cycle).

Author/Presenter: Dr. John J. Devore
Electrical and Computer Engineering
Kansas State University
Tuesday - June 12, 2013

Room: Pakalana
Time: 8:15 am – 9:45 am
Session: Applied Mathematics, Discrete Mathematics, Mathematics, Engineering Technology
Session Chair: Dr. Sergey Morozov

I. Sensitivity Analysis of a Three-Species Non-linear Response Omnivory Model

We investigate how sensitive population densities are to changes in the parameters of a three-species non-linear response omnivory model. By deriving sensitivity equations and solving for the sensitivities, we determined that the predator mortality rate is the most sensitive and biologist should take extra care in collecting predator mortality data.

Author/Presenter: **Dr. James Vance**
Dept. of Mathematics and Computer Science
The University of Virginia’s College at Wise

Author/Presenter: **Mr. Kevin Wilson**
The University of Virginia’s College at Wise

II. Two Variations of Manickam-Miklos-Singhi Conjecture

Manickam-Miklos-Singhi conjecture: Let n, d, be positive integers with 2d <= n. Let a1, a2, …,an be real numbers having nonnegative sum. Then there exists at least C(n-1,d-1) d-element subsets having nonnegative sums for n >= 4d.

Author/Presenter: **Prof. Nachimuthu Manickam**
Department of Mathematics
Depauw University

III. The Evaluation of Similarity Metrics in Collaborative Filtering Recommenders

We evaluate multiple similarity measures in a traditional collaborative filtering process. We also consider combinations of complementary measures, especially in edge cases when one of them falls short, e.g., a user with uniform ratings. We examine prediction accuracy, classification accuracy, confusion statistics, and actual/predicted distribution compatibility to find the best way to quantify vector similarity.

Author/Presenter: **Dr. Sergey Morozov**
Dept. of Mathematics, Computer Science, and Software Engineering
University of Detroit Mercy

Author/Presenter: **Dr. Xiaohui Zhong**
Dept. of Mathematics, Computer Science, and Software Engineering
University of Detroit Mercy
I. Using a Non-Traditional Pedagogy in STEM Disciplines: Implications for Faculty

For the past several years educational researchers and national panels have been urging colleges and universities to reform their STEM curricula to make them more relevant and engaging. One approach being used at the Rochester Institute of Technology involves employing an immersive year-long project-based class to introduce new freshmen to the interdisciplinary field of Imaging Science. With only three cohorts having experienced this pedagogy to date there is not yet sufficient evidence to rigorously assess its effectiveness. However the implications of this approach for the faculty who use it are becoming very clear, and are discussed in this paper.

Presenter: Ms. Rose Rustowicz
Imaging Science, undergraduate
Rochester Institute of Technology

Presenter: Mr. Malachi Schultz
Imaging Science, undergraduate
Rochester Institute of Technology

Author: Prof. Joe Pow
Chester F. Carlson Center for Imaging Science
Rochester Institute of Technology

Author: Prof. Maria Helguera
Chester F. Carlson Center for Imaging Science
Rochester Institute of Technology

Author: Ms. Megan Lafrati
Chester F. Carlson Center for Imaging Science
Rochester Institute of Technology

Author: Ms. Briana Neuberger
Chester F. Carlson Center for Imaging Science
Rochester Institute of Technology

Author: Ms. Elizabeth Pieri
Chester F. Carlson Center for Imaging Science
Rochester Institute of Technology
II. Transforming STEM Education through the STEM Supplemental Instruction

Transforming STEM Education through the STEM Supplemental Instruction Pedagogy. An analysis of the resulting data of this learning strategy shows that the SI group outperformed the non-SI group in most of the STEM courses in which SI was offered.

Author/Presenter:  **Dr. Claude Tameze**  
Department of Mathematics & Computer Science  
Lincoln University

III. Raising Awareness of Computer-Assisted Class Discussion CACD: Linguistic, Social, and Cross-Cultural Perspectives.

Computer-Assisted Class Discussion offers unprecedented opportunities to deal with cultural sensitivity issues of ELT classrooms in Saudi Arabia.

Author/Presenter:  **Mr. Basim Hedaiban Alahmadi**  
Madinah College of Technology
Tuesday - June 12, 2013

Room: Carnation
Time: 10:00 am – 11:30 am
Session: Science Education, Education Technology, Educational Foundations, Education Technology, Industrial Engineering and Management, Mathematics Education

Session Chair: Dr. Swaminathan Balachandran

I. Collaborative Learning in General Engineering Courses

Presentation will focus on the author’s teaching experience during past four decades with and without collaborative learning activities in general engineering courses. Author will list and discuss motivation for using collaborative learning activities in introductory level engineering courses. Presentation will conclude with student feedback in two courses.

Author/Presenter: Dr. Swaminathan Balachandran
Department of Mechanical and Industrial Engineering
University of Wisconsin – Platteville

II. Fundamental Mathematics Education via E-Learning for Undergraduate Students

The author used to work as an assistant professor at the Kogakuin University Academic Support Center for 2 years and the Waseda University Media Network Center for 4 years. At the Kogakuin University Academic Support Center, he and his colleague made some useful teaching materials and e-learning contents about calculus for students major in engineering and poor in mathematics. On the other hand, at the Waseda University Media Network Center, he and his colleague made the mathematics curriculum through the LMS (Learning Management System). In this paper, we shall report these activities and also mention how to make the best use of these experiments for the future.

Author/Presenter: Dr. Satoru Takagi
Division of Liberal Arts
Kogakuin University
Tuesday - June 12, 2013

Room: Plumeria
Time: 10:00 am – 11:30 am
Session: Workshop - Adult Education and/or Special Education

I. Vedic Mathematics in the ABE Fundamental Math Classroom: Helping Students Overcome Learning Obstacles

Barb will share her research methods and results of her master’s project: Vedic Mathematics in the ABE Fundamental Math Classroom. Her 2012 research found that using Vedic techniques to teach ABE fundamental curriculum resulted in improved outcomes compared with current practice.

Waneta will introduce participants to a few Vedic math methods used in the research project: subtracting from left to right, adding and subtracting fractions without having to calculate common denominators, a quick way to check arithmetic questions using digit sum checks, and a method to learn those difficult times tables if memorizing isn’t working. Waneta will share her students’ reactions to this different method of math and introduce the newly developed workbook for Vedic teaching methods.

Author/Presenter: **Ms. Barb Durban-Wilson**
College of New Caledonia

Author/Presenter: **Ms. Waneta Nealis**
College of New Caledonia
Tuesday - June 12, 2013

Room: Pakalana
Time: 10:00 am – 11:30 am
Session: Mathematics Education, Education Technology; Inter-disciplinary & other areas; English Literature & Humanities
Session Chair: Dr. Leila Pazargadi

I. Oral Reviews: Improving Retention in STEM Majors

Ungraded, voluntary oral reviews have shown statistically significant improvement in students' understanding, grades and retention in Calculus I and II, the gatekeepers of STEM majors. Students learn to negotiate meaning, confront misconceptions and make mathematical connections. Oral reviews have been successfully used in Mechanical Engineering, Biology, and several university and high school mathematics.

Author/Presenter: Dr. Mary Nelson
Department of Mathematics
George Mason University

II. A Study on Best Practices for Placing Students in First-Year College Composition without the Cost of Technology

Writing placement without costly technology.

Author/Presenter: Dr. Therese Jones
English Department
Lewis University

III. The Cross-Cultural Narrative Exchange: Bridging Online Global Learning Communities

As part of the digital humanities, literary studies programs have been integrating technology into their scholarship and pedagogy, to keep the field engaged, relevant and current. This presentation discusses the use of chat-based programs, like Skype, Gchat, and AIM, to create a Global Learning Community that interlinks classrooms around the world. Through these online programs, students are able to participate in a cross-cultural autobiographical narrative exchange in order to diversify material learned in the classroom.

Author/Presenter: Dr. Leila Pazargadi
English Department
Nevada State College
INDEX
<table>
<thead>
<tr>
<th>Authors</th>
<th>Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbas, Syeda Sara</td>
<td>Point Park University</td>
</tr>
<tr>
<td>Adkins, Anthony</td>
<td>Meharry Medical College</td>
</tr>
<tr>
<td>Alahmadi, Basim Hedaibah</td>
<td>Madinah College of Technology</td>
</tr>
<tr>
<td>Amir, Ahmad</td>
<td>King Abdulaziz University</td>
</tr>
<tr>
<td>Andijani, Dalal</td>
<td>The University of Texas at San Antonio</td>
</tr>
<tr>
<td>Arbuckle, Caroline</td>
<td>IUPUC</td>
</tr>
<tr>
<td>Bau, The</td>
<td>IUPUC</td>
</tr>
<tr>
<td>Baker, Scott H.</td>
<td>Stiller School of Business Champlain College</td>
</tr>
<tr>
<td>Balachandran, Swaminathan</td>
<td>University of Wisconsin – Platteville</td>
</tr>
<tr>
<td>Balasubramanian, Suman</td>
<td>DePauw University</td>
</tr>
<tr>
<td>Barnes, Fatima M.</td>
<td>Meharry Medical College</td>
</tr>
<tr>
<td>Becker, Anne</td>
<td>Columbia College Chicago</td>
</tr>
<tr>
<td>Block, Robert</td>
<td>Meharry Medical College</td>
</tr>
<tr>
<td>Boekema, Carolus</td>
<td>San Jose State University</td>
</tr>
<tr>
<td>Bott, Rebecca C.</td>
<td>South Dakota State University</td>
</tr>
<tr>
<td>Burge, Legand L.</td>
<td>Howard University</td>
</tr>
<tr>
<td>Burnham, Gerald</td>
<td>University of Texas at Dallas</td>
</tr>
<tr>
<td>Carpentier, Anthony</td>
<td>San José State University</td>
</tr>
<tr>
<td>Chikritzhs, Tanya</td>
<td>Curtin University</td>
</tr>
<tr>
<td>Chow, C.</td>
<td>University of Victoria</td>
</tr>
<tr>
<td>Clavel, Robert</td>
<td>Brigham Young University</td>
</tr>
<tr>
<td>Claxton, Russ</td>
<td>Liberty University</td>
</tr>
<tr>
<td>Cook, Amanda</td>
<td>Western Kentucky University</td>
</tr>
<tr>
<td>Cooper, Sean</td>
<td>Rochester Institute of Technology</td>
</tr>
<tr>
<td>Costa, D.</td>
<td>California State University</td>
</tr>
<tr>
<td>Cowley, Kim</td>
<td>Edvantia, Inc.</td>
</tr>
<tr>
<td>Coy, Stephanie</td>
<td>IUPUC</td>
</tr>
<tr>
<td>Crosby, Martha E.</td>
<td>University of Hawaii</td>
</tr>
<tr>
<td>Crossley, Jane A.</td>
<td>Chicago State University</td>
</tr>
<tr>
<td>Curran, Mary Carla</td>
<td>Savannah State University</td>
</tr>
<tr>
<td>Danes, N.</td>
<td>California State University</td>
</tr>
<tr>
<td>Daphnis, Stephen</td>
<td>Meharry Medical College</td>
</tr>
<tr>
<td>Davidson, Maaike</td>
<td>University of Idaho</td>
</tr>
<tr>
<td>Day, Martha M.</td>
<td>Western Kentucky University</td>
</tr>
<tr>
<td>Devore, John J.</td>
<td>Kansas State University</td>
</tr>
<tr>
<td>DiPaolo, Cicely</td>
<td>Rochester Institute of Technology</td>
</tr>
<tr>
<td>Duff, C.</td>
<td>Monash University</td>
</tr>
<tr>
<td>Duffin, Lisa</td>
<td>Western Kentucky University</td>
</tr>
</tbody>
</table>
Durban-Wilson, Barb - College of New Caledonia

E

Edwards, Lance J. - William Penn University
Eley, Peter M. - Fayetteville State University
Endicott-Popovsky, Barbara - University of Washington

F

Farag, Ihab H. - University of New Hampshire
Fillmore, Kaye - University of California San Francisco
Fomin, Sergei - California State University
Ford, Shelton - Fayetteville State University
Franklin, Amy - Jacksonville State University
Freshwater, Amy - Southeast Missouri State University
Freund, F. - San Jose State University
Froedge, Lori - Western Kentucky University
Furry, Nina M. - The University of North Carolina at Chapel Hill

G

Galley, Dave - University of Texas at Dallas
Garcia, Rene - Scholars Academy and University of Houston-Downtown
Giguere, Cary - Vermont Agency of Agriculture
Goeckner, Matthew - University of Texas at Dallas
Goldammer, Kory - University of Texas at Dallas
Greene, Elizabeth - University of Vermont
Gunther, Norman G. - Santa Clara University

H

Haas, Frank - University of Hawaii Kapiolani Community College
Hagie, Chris - San Jose State University
Halawani, Sami - King Abdulaziz University
Hall, John H. - Morehouse College
He, Qinghua (Peter) - Tuskegee University
Helguera, Maria - Rochester Institute of Technology
Heller, Rachelle - The George Washington University
Hilborn, Robert C. - University of Texas at Dallas
Hill, David R. - Temple University
Howland, Allison - IUPUC
Hsu, Tai-Ran - San Jose State University
Hughley, John H. - North Carolina Central University
Hunter, Allison - Worcester Polytechnic Institute
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ilumoka, Abby</td>
<td>University of Hartford</td>
</tr>
<tr>
<td>Ivsins, A.</td>
<td>University of Victoria</td>
</tr>
<tr>
<td>James, Susan</td>
<td>University of West Florida</td>
</tr>
<tr>
<td>Johnson, Amy M.</td>
<td>Arizona State University</td>
</tr>
<tr>
<td>Johnson, Beth</td>
<td>San Jose State University</td>
</tr>
<tr>
<td>Johnson, Carl P.</td>
<td>Southern University at New Orleans</td>
</tr>
<tr>
<td>Johnson, Donald R.</td>
<td>Tuskegee University</td>
</tr>
<tr>
<td>Jones, Therese</td>
<td>Lewis University</td>
</tr>
<tr>
<td>Jong, Cindy</td>
<td>University of Kentucky</td>
</tr>
<tr>
<td>Jukes, Pamela</td>
<td>Western Kentucky University</td>
</tr>
<tr>
<td>Kambhampati, Murty S.</td>
<td>Southern University at New Orleans</td>
</tr>
<tr>
<td>Kawamura, Reiko</td>
<td>University of Hawaii at Manoa</td>
</tr>
<tr>
<td>Kim, Ahram</td>
<td>San José State University</td>
</tr>
<tr>
<td>Kirby, John T.</td>
<td>University of Miami</td>
</tr>
<tr>
<td>Kuba, William C.</td>
<td>William Penn University</td>
</tr>
<tr>
<td>Lafrati, Megan</td>
<td>Rochester Institute of Technology</td>
</tr>
<tr>
<td>Laiju, Meherun</td>
<td>Tougaloo College</td>
</tr>
<tr>
<td>Ledbetter, C.</td>
<td>University of Texas at Dallas</td>
</tr>
<tr>
<td>Lee, Mi Hye</td>
<td>William Paterson University</td>
</tr>
<tr>
<td>Lee, Sarah</td>
<td>San Jose State University</td>
</tr>
<tr>
<td>Light, Gregory L.</td>
<td>Providence College</td>
</tr>
<tr>
<td>Lin, Shu Ling</td>
<td>National Taipei University of Technology</td>
</tr>
<tr>
<td>Love, Ashley</td>
<td>San Jose State University</td>
</tr>
<tr>
<td>Lucas, P.</td>
<td>Vancouver Island Compassion Society</td>
</tr>
<tr>
<td>Ma, Xin</td>
<td>University of Kentucky</td>
</tr>
<tr>
<td>Magda, Daniel J.</td>
<td>Weber State University</td>
</tr>
<tr>
<td>Magid, Michael</td>
<td>English Language Institute of Singapore</td>
</tr>
<tr>
<td>Manickam, Nachimuthu</td>
<td>DePauw University</td>
</tr>
<tr>
<td>Marsh, D.</td>
<td>British Columbia Centre for Excellence in HIV/AIDS</td>
</tr>
<tr>
<td>Martinez, Marcos</td>
<td>California State University San Marcos</td>
</tr>
<tr>
<td>Martinez-Rolle, Blanca</td>
<td>New Mexico State University</td>
</tr>
<tr>
<td>Martinson, Krishna L.</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>Mathes, Ben</td>
<td>Colby College</td>
</tr>
<tr>
<td>Matthes, Melissa M.</td>
<td>US Coast Guard Academy</td>
</tr>
<tr>
<td>Name</td>
<td>Affiliation</td>
</tr>
<tr>
<td>--------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>McBride, Suzanne</td>
<td>Columbia College Chicago</td>
</tr>
<tr>
<td>McCarraugh, Kim Jones</td>
<td>Central Washington University</td>
</tr>
<tr>
<td>McGee, Ebony O.</td>
<td>Vanderbilt University</td>
</tr>
<tr>
<td>Michael, Patrick</td>
<td>Liberty University</td>
</tr>
<tr>
<td>Michelow, W.</td>
<td>British Columbia Centre for Excellence in HIV/AIDS</td>
</tr>
<tr>
<td>Moodian, Michael A.</td>
<td>Chapman University</td>
</tr>
<tr>
<td>Morozov, Sergey</td>
<td>University of Detroit Mercy</td>
</tr>
<tr>
<td>Mughal, Nazir Ahmed</td>
<td>University of Sindh</td>
</tr>
<tr>
<td>Murley, Lisa</td>
<td>Western Kentucky University</td>
</tr>
<tr>
<td>Nah, JeongEun</td>
<td>Yonsei University, Korea</td>
</tr>
<tr>
<td>Nakamura, Mituse</td>
<td>Scholars Academy and University of Houston-Downtown, University of Houston-Downtown</td>
</tr>
<tr>
<td>Nealis, Waneta</td>
<td>College of New Caledonia</td>
</tr>
<tr>
<td>Nelson, Mary</td>
<td>George Mason University</td>
</tr>
<tr>
<td>Neuberger, Briana</td>
<td>Rochester Institute of Technology</td>
</tr>
<tr>
<td>Noble, Jo Anne</td>
<td>The University of Texas at San Antonio</td>
</tr>
<tr>
<td>Nyazi, Alaa</td>
<td>The University of Texas at San Antonio</td>
</tr>
<tr>
<td>Okwan, Phyllis</td>
<td>Southern University at New Orleans</td>
</tr>
<tr>
<td>Olinick, Michael</td>
<td>Middlebury College</td>
</tr>
<tr>
<td>Omojola, Joe</td>
<td>Southern University at New Orleans</td>
</tr>
<tr>
<td>Overstreet, Shelby</td>
<td>Western Kentucky University</td>
</tr>
<tr>
<td>Ozogul, Gamze</td>
<td>Arizona State University</td>
</tr>
<tr>
<td>Padilla, Irasema</td>
<td>New Mexico State University</td>
</tr>
<tr>
<td>Parker, Mary Jo Garcia</td>
<td>Scholars Academy and University of Houston-Downtown</td>
</tr>
<tr>
<td>Pawlowski, Cheryl</td>
<td>University of Northern Colorado</td>
</tr>
<tr>
<td>Payton, Lee C.</td>
<td>Columbia College Chicago</td>
</tr>
<tr>
<td>Pazargadi, Letila</td>
<td>Nevada State College</td>
</tr>
<tr>
<td>Pearson, Constance</td>
<td>Liberty University</td>
</tr>
<tr>
<td>Peck, Douglas</td>
<td>Rochester Institute of Technology</td>
</tr>
<tr>
<td>Petnieku, Zacharie</td>
<td>Concordia College, Moorhead, Minnesota</td>
</tr>
<tr>
<td>Pieri, Elizabeth</td>
<td>Rochester Institute of Technology</td>
</tr>
<tr>
<td>Pinkie, Elyse</td>
<td>Liberty University</td>
</tr>
<tr>
<td>Pocock, Aija</td>
<td>IUPUC</td>
</tr>
<tr>
<td>Polacco, Steven</td>
<td>Dominican University of CA</td>
</tr>
<tr>
<td>Pow, Joe</td>
<td>Rochester Institute of Technology</td>
</tr>
<tr>
<td>Quick, Beth</td>
<td>University of Tennessee at Martin</td>
</tr>
<tr>
<td>Name</td>
<td>University/Institution</td>
</tr>
<tr>
<td>-----------------------</td>
<td>------------------------------------------------------------</td>
</tr>
<tr>
<td>Rahman, Mahmudur</td>
<td>Santa Clara University</td>
</tr>
<tr>
<td>Reisslein, Jana</td>
<td>Arizona State University</td>
</tr>
<tr>
<td>Reisslein, Martin</td>
<td>Arizona State University</td>
</tr>
<tr>
<td>Reynolds, Thomas H.</td>
<td>National University</td>
</tr>
<tr>
<td>Roberts, Lila F.</td>
<td>Clayton State University</td>
</tr>
<tr>
<td>Robertson, Mollie E.</td>
<td>Western Kentucky University</td>
</tr>
<tr>
<td>Roizen, Ron</td>
<td>University of California San Francisco</td>
</tr>
<tr>
<td>Rozalski, Michael</td>
<td>Binghamton University</td>
</tr>
<tr>
<td>Rustowicz, Rose</td>
<td>Rochester Institute of Technology</td>
</tr>
<tr>
<td>Saffren, Brooke</td>
<td>Rochester Institute of Technology</td>
</tr>
<tr>
<td>Säkkaris, Perry</td>
<td>San José State University</td>
</tr>
<tr>
<td>Salas, Loretta</td>
<td>New Mexico State University</td>
</tr>
<tr>
<td>Sarkar, Sutandra</td>
<td>Georgia State University</td>
</tr>
<tr>
<td>Sattar, Abdus</td>
<td>Santa Clara University</td>
</tr>
<tr>
<td>Sazawa, Chintatsu</td>
<td>Drake University</td>
</tr>
<tr>
<td>Seaborn, May</td>
<td>Indiana Wesleyan University in Marion</td>
</tr>
<tr>
<td>Seo, Suey N</td>
<td>University of Wisconsin-Milwaukee</td>
</tr>
<tr>
<td>Shakiban, Cheri</td>
<td>University of St. Thomas</td>
</tr>
<tr>
<td>Shankar, R.</td>
<td>Butte College</td>
</tr>
<tr>
<td>Sibert, John</td>
<td>University of Texas at Dallas</td>
</tr>
<tr>
<td>Sirisaengtaksin, Omgard</td>
<td>University of Houston-Downtown</td>
</tr>
<tr>
<td>Smith-Burton, Kimberly</td>
<td>Fayetteville State University</td>
</tr>
<tr>
<td>Soltes, Dusan</td>
<td>Comenius University in Bratislava</td>
</tr>
<tr>
<td>Srivastava, P.</td>
<td>University of Hartford</td>
</tr>
<tr>
<td>Stangl, Jack</td>
<td>University of St. Thomas</td>
</tr>
<tr>
<td>Stobaugh, Rebecca</td>
<td>Western Kentucky University</td>
</tr>
<tr>
<td>Stockwell, Tim R.</td>
<td>University of Victoria</td>
</tr>
<tr>
<td>Strother, Darci</td>
<td>California State University San Marcos</td>
</tr>
<tr>
<td>Swinker, Ann M.</td>
<td>Pennsylvania State University</td>
</tr>
<tr>
<td>Takagi, Satoru</td>
<td>Kogakuin University</td>
</tr>
<tr>
<td>Tameze, Claude</td>
<td>Lincoln University</td>
</tr>
<tr>
<td>Taylor, Linda</td>
<td>University of Idaho</td>
</tr>
<tr>
<td>Teng, Jane Yan Fang</td>
<td>Sultan Idris Education University</td>
</tr>
<tr>
<td>Thompson, K.</td>
<td>University of Victoria</td>
</tr>
<tr>
<td>Tran, Kathleen</td>
<td>University of Hawaii at Manoa</td>
</tr>
<tr>
<td>Vance, James</td>
<td>The University of Virginia’s College at Wise</td>
</tr>
<tr>
<td>Vaughn, Amy</td>
<td>Seattle Pacific University</td>
</tr>
</tbody>
</table>

78
W

Wainwright, Jake - San José State University ................................................................. 37
Walburn, Rong - Auburn University ............................................................................. 49
Wang, Jing - Auburn University ..................................................................................... 49
Washington, A. Nicki - Howard University ................................................................. 40
Welch, Grant - San José State University ................................................................. 21
Whalley, Elizabeth - San Francisco State University ................................................ 23
White, Erin - Fayetteville State University ................................................................ 12
Whitehead, Amelia - Meharry Medical College .......................................................... 20
Wicks, David - Seattle Pacific University ..................................................................... 13
Williams, Carolyn Ruth A. - St. Cloud State University ............................................ 11
Wilson, Kevin - The University of Virginia’s College at Wise .................................... 67
Wu, Ai-Lun - St. John’s University .............................................................................. 61
Wu, Shun-Jyu - St. John’s University ........................................................................... 61

Y

Yasuda, A. - California State University ...................................................................... 33
Yocum, Russ - Liberty University ............................................................................... 17
Yuan, Jing - University of Kentucky ........................................................................... 25

Z

Zain, Samya - Susquehanna University ....................................................................... 8
Zeisser, Cornelia - University of Victoria ................................................................... 18, 43
Zhong, Xiaohui - University of Detroit Mercy ............................................................ 55, 67
ACKNOWLEDGEMENT

Hawaii University International Conferences would like to thank the following people who have made our 2013 Education, Mathematics, Engineering and Technology conference a success!

Map courtesy of Hawaii Visitors & Convention Center

KEYNOTE SPEAKER

We would like to thank Dean Frank Haas from the University of Hawai‘i Kapi‘olani Community College for sharing his knowledge and skills with us.

HAWAIIAN STEEL GUITAR ASSOCIATION

We would like to thank Mr. Kamaka Tom for the splendid introduction and music performance at the conference. His dedication to academic endeavors and sharing his knowledge and skills with us is greatly appreciated.

REVIEWERS

We thank the dedicated professionals who reviewed the papers submitted by our conferees to be included in our programs for the conference proceedings. Your work is of the utmost importance to make sure those accepted meet the highest academic standards for presentation.

Dr. Ani N. Shabazian
Dr. Bob Slavin
Dr. Dina Pacis
Dr. Elizabeth Whalley
Dr. Felicia Sawyer
Dr. Jane A. Crossley
Dr. Jolanta Jonak

Dr. Mary Jo Parker
Dr. Peter Leong
Dr. Randall Royer
Dr. Rebecca L. Briley
Prof. Charles Sasaki
Prof. Kevin Anderson

The HUIC Staff would like to cordially invite you to participate in the growth and development of the conference by becoming a peer reviewer for our future conferences. If you are interested in becoming a peer reviewer please complete the form available at the registration desk indicating your topic of interest and specialization.
**The Sessions Chair**

Thanks to all of the Session Chairs for your guidance of the participants and presenters in each session to maximize the experiences of all the session attendees to convey the thoughts and new ideas each brings to our conference. All timely presentations are important to expand the overall knowledge offered from many perspectives.

Dr. Amy Freshwater  
Dr. Carolyn Ruth A. Williams  
Dr. Claude Tameze  
Dr. Elizabeth Whalley  
Dr. Joe Omojola  
Dr. John H. Hall  
Dr. John H. Hughley  
Dr. John J. Devore  
Dr. Lance J. Edwards  
Dr. Lee C. Payton  
Dr. Leila Pazargadi  
Dr. Lila F. Roberts  
Dr. Maaike Davidson  
Dr. Mary Jo De Garcia Parker  

Dr. Md. Abdus Sattar  
Dr. Melissa M. Matthes  
Dr. Qinghua (Peter) He  
Dr. Scott H. Baker  
Dr. Sergey Morozov  
Dr. Swaminathan Balachandran  
Dr. Therese Jones  
Prof. Cheri Shakiban  
Prof. Martin Reisslein  
Prof. Matthew J. Goeckner  
Prof. Michael Olinick  
Prof. Nazir Ahmed Mughal  
Prof. Samya Zain  
Prof. Tai-Ran Hsu

**All Participants**

We also want to thank each and every one who attended our conference for their contributions to the knowledge bases presented and the interactions of all attendees who generously shared their knowledge and experiences to enhance the conference experience for all who attended. We hope to see all of you back in Hawaii again one day in our continuing effort to bring those together in conferencing here in this magnificent environment as we look to the future of all educational efforts in all parts of the world!

Mahalo!
Ala Moana Hotel

410 Atkinson Drive in Honolulu, Hawaii