



***2012 Hawaii University International Conferences
Education, Math and Engineering Technology***



July 31, August 1 and 2, 2012

Marriott Waikiki Beach Resort and Spa

Honolulu, Hawaii

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Hawaii University International Conferences'
2012 Education, Math and Engineering Technology Conference

Aloha and welcome to the annual Education Conference 2013 held in the Marriott 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 *Waikiki Marriott Hotel*, a prime location in the

Waikiki 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

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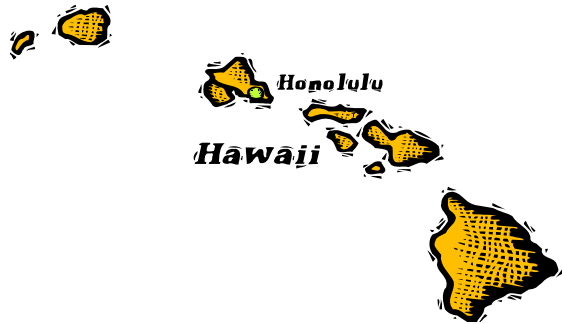
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REGISTRATION HOURS

Paoakalani Tower

Honolulu Room – 3rd Floor

Monday – July 30st - 2:00 pm – 7:00 pm
Tuesday – July 31st - 6:30 am - 4:30 pm
Wednesday – August 1st - 6:30 am - 4:30 pm
Thursday – August 2nd - 6:30 am -12:00 pm

Breakfast – Waikiki Ballroom 3rd Floor

Tuesday – July 31st 6:30 am – 8:30 am
Wednesday – August 1st 6:30 am – 8:30 am
Thursday – August 2nd 6:30 am – 8:30 am

Tea Break – Waikiki Ballroom 3rd Floor

Tuesday – July 31st 10:30 am – 12:30 pm
2:00 pm – 4:00 pm
Wednesday – August 1st 10:30 am – 12:30 am
2:00 pm – 4:00 pm
Thursday – August 2nd 10:30 am – 12:30 am

CONCURRENT SESSION TIMES

8:15 am- 9:45 am * 10:00 am- 11:30 am * 12:45 pm – 2:15 pm * 2:30 pm to 4 pm

LUNCH BREAK

11:30 am -12:30 pm

SESSION CHAIRS

- Introductions of Participants
- Start and complete sessions on time
- Chair leads the discussions and hold question and answer period at end of session

POSTER SESSIONS

Tuesday - July 31st in Waikiki Ballroom (3rd Floor) - 12:00 PM - 1:30 PM

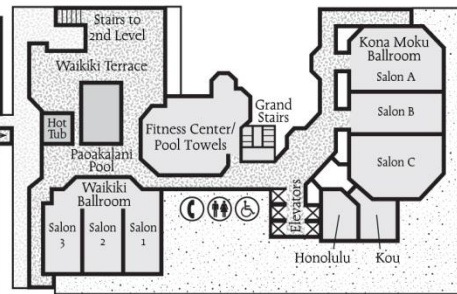
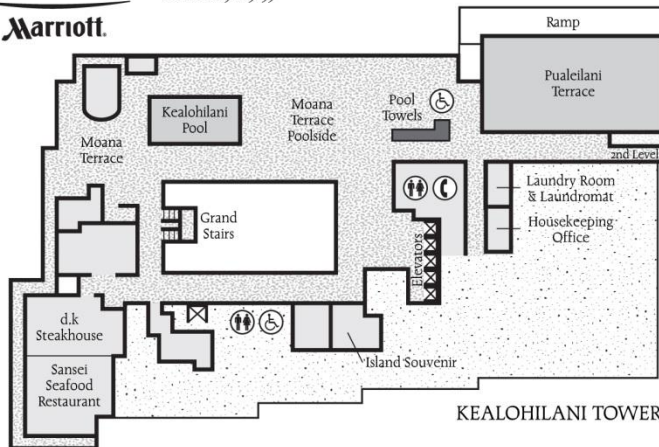
Wednesday - August 1st in Waikiki Ballroom
(3rd Floor) - 12:00 PM - 1:30 PM

HAWAII UNIVERSITY INTERNATIONAL CONFERENCES' 2012 EDUCATION, MATH AND ENGINEERING TECHNOLOGY CONFERENCE



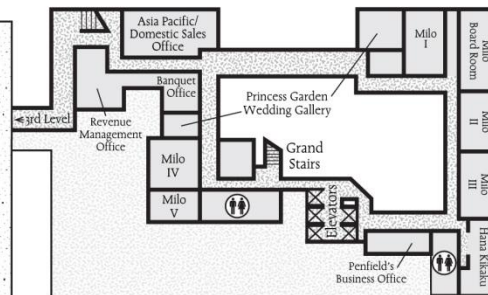
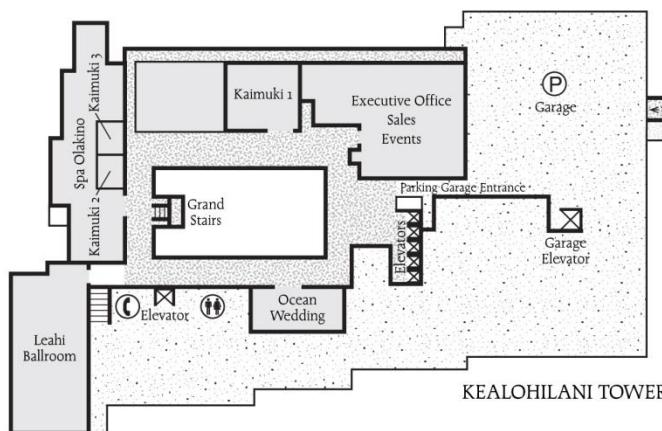
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THIRD FLOOR



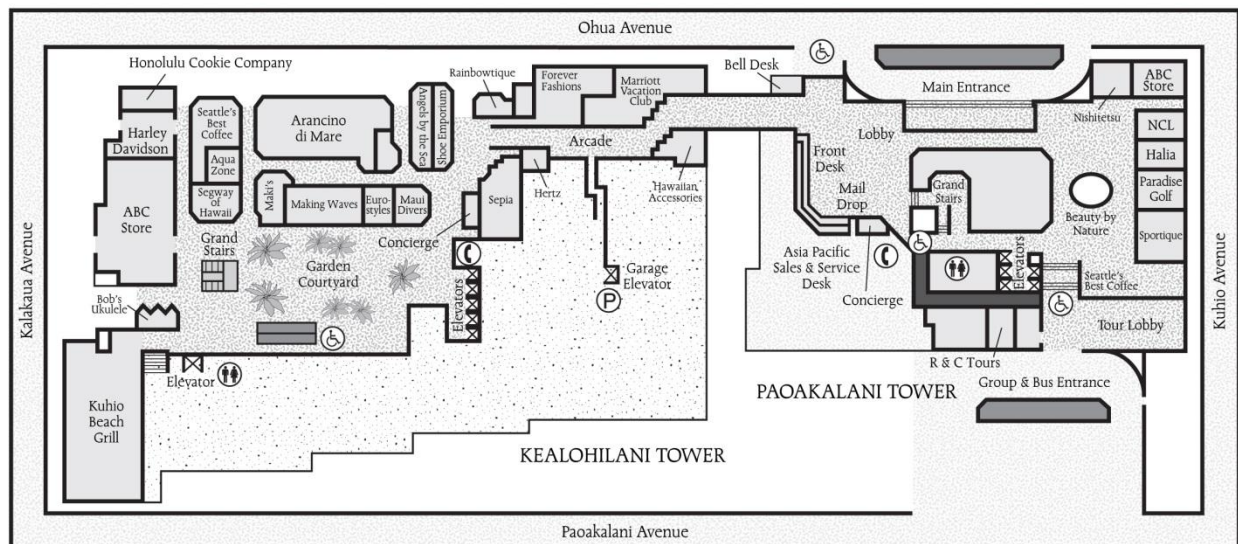
PAOKALANI TOWER

SECOND FLOOR



PAOKALANI TOWER

FIRST FLOOR



July 31, 2012 - Tuesday

Time: 8:15 am – 9:45 am
Math – Mechanical Engineering

Room: Milo 4 - 2nd Floor
Session Chair: Dr. Jerry Bowman

1. Title: ***Solar Powered Airplane, a Student Design/Build/Fly Project***

The project objective was to involve undergraduate engineering students in a multi-semester project with intense technical challenges and a well-defined objective: The creation of a solar powered airplane with the goal of indefinite flight. During the last decade, dozens of planes have been designed, built and test flown by the students. This has given them the opportunity to practice engineering design skills, develop leadership, and writing skills, and gain confidence as engineers.

Author/Presenter: Dr. Jerry Bowman - Brigham Young University, UT
Author: Dr. Lowell H. Bishop - Brigham Young University, UT

2. Title: ***Optimizing the Partnership between Academia and Industry:
The Capstone Design Projects***

In addition to their primary role as centers of knowledge, universities are increasingly viewed as economic and technical engines that contribute to local and regional growth. Partnerships between universities and industry can provide further opportunities for regional development, with each partner contributing its individual strengths to achieve a collective outcome.

Author/Presenter: Dr. Nash Younis - Indiana University – Purdue University Fort Wayne, IN

3. Title: ***Smart Grid – From Generation to Distribution***

A small scale model of a power grid to represent the Smart Grid concept is introduced. This model composed of Generation, Substation and Distribution units. The goal of the project is to develop, design and build a Smart Grid that demonstrates the most advanced concepts in smart grid technology.

Author/Presenter: Dr. Saeed Monemi - California State Polytechnic University, CA

July 31, 2012 - Tuesday

Time: 8:15 am – 9:45 am
Math - Applied Mathematics/Engineering

Room: Milo 5 - 2nd Floor
Session Chair: Dr. Fomin Sergei

1. Title: ***Non-Fickian mass transport in fractured porous media of fractal geometry***

The fractional-order differential equations that model the anomalous diffusive mass transport in the complex media of fractal geometry are derived and justified analytically. Analytical solutions of some particular problems of anomalous diffusion in the fractal media are obtained..

Author/Presenter: Dr. Sergei Fomin - California State University, CA
Author: Dr. Vladimir Chugunow - California State University, CA

2. Title: ***A Matrix Approach to Plotting Second-Order Differential Equations using LSIM and ODE23 MATLAB Functions***

In this experimentation, a differential equation is converted into a matrix form in order to satisfy the requirements for the functions being used in MATLAB.

Author/Presenter: Dr. Spyros Andreou - Savannah State University, GA
Author/Presenter: Dr. Jonathan Lambright - Savannah State University, GA
Author/Presenter: Dr. Lemma Mulatu - Savannah State University, GA

3. Title: ***Simulating Classic Lotka-Volterra Modeling For Predator Prey Applications***

Paper presents some specific cases of the classic Nonlinear Lotka-Volterra (NLV) approach to modeling predator-prey dynamic systems, and propose to implement them using "mathematical" (Matlab) approach as well as "ad-hoc" approach using Agent Based Modeling (implemented using NetLogo modeling environment). Examples of various scenarios are introduced in a gradual way, from simpler to more complex ones.

Author/Presenter: Dr. Migdat I. Hodzic - Santa Clara University, CA

July 31, 2012 - Tuesday

Time: 8:15 am – 9:45 am

Room: Salon A – 3rd Floor

Education - Special/Cross-disciplinary

Session Chair: Dr. Jolanta Jonak

1. Title: ***Recommended Practices for Avoiding Disproportional Representation of CLD Students in Special Education Programs vs. Current School Practices***

This study aimed to discover how public schools incorporate best practices for successful education of CLD students as recommended by the field experts. Results of this study were collected in a large school district surrounding the Chicago metropolitan area and revealed that some best practices were implemented in the surveyed district; however most practices did not reflect best practices as outlined by research.

Author/Presenter: Dr. Jolanta Jonak - Northeastern Illinois University, IL

2. Title: ***The Role of Religion in College Adjustment among African American and European American Christian Women***

The aim of this research paper is to investigate the role of religion in African American and European American women's adjustment to college and to examine whether there is an association between racial background and the use of religious coping with the new transition.

Author/Presenter: Dr. Cherilyn Y. Taylor-Minniefield - South Carolina State University, SC

3. Title: ***Say no to prejudice and discrimination: An analysis about images of migrant rural workers in news reports in mainland China***

This study aims at presenting a systematic analysis regarding the stigmatized images of migrant rural workers portrayed in news reports by print media in mainland China, and providing possible underlying explanations for it as well as relevant strategies from the theoretical perspective.

Author/Presenter: Dr. Xiaoting Yang - Washington State University, WA

July 31, 2012 - Tuesday

Time: 8:15 am – 9:45 am

Education - Technology

Room: Salon B - 3rd Floor

Session Chair: Dr. John Jabaghourian

1. Title: ***Integrating the iPad to the university classroom: Examining effects on student performance and self-efficacy in using technology***

This study aimed to discover how public schools incorporate best practices for successful education of CLD students as recommended by the field experts. Results of this study were collected in a large school district surrounding the Chicago metropolitan area and revealed that some best practices were implemented in the surveyed district; however most practices did not reflect best practices as outlined by research.

Author/Presenter: Dr. John Jabaghourian - San José State University, CA

2. Title: ***Media Computation Projects for High School Students***

Media Computation teaching modules are developed to educate high school students on computer science and engineering concepts with the goal of attracting more youngsters to STEM disciplines.

Author/Presenter: Dr. Suxia Cui - South Prairie View A&M University, TX

Author: Dr. Yonggao Yang - South Prairie View A&M University, TX

Author: Dr. Akhtar Lodgher - South Prairie View A&M University, TX

3. Title: ***Kinections: Gaming in Math Class***

Getting a picture of how off-the-shelf video games might be used to enhance mathematics education.

Author/Presenter: Dr. Robin Angotti - University of Washington Bothell, WA

Author: Ms. Ivette Bayo - Information School University of Washington, WA

HAWAII UNIVERSITY INTERNATIONAL CONFERENCES' 2012 EDUCATION, MATH AND ENGINEERING TECHNOLOGY CONFERENCE

July 31, 2012 - Tuesday

Time: 8:15 am – 9:45 am
Education - Early Childhood

Room: Salon C - 3rd Floor
Workshop

Making the Right Choice Simple: Safe, Healthy and Developmentally Appropriate Materials for Infants

This workshop hopes to illustrate how to best optimize infants' environments through focusing on one aspect: the materials. It will focus on addressing the following three questions: 1) What criteria should we base our selection of infant materials on; 2) what should they look, feel and sound like; and finally, 3) what is our goal in introducing these different materials to infants.

Author/Presenter: Dr. Ani N. Shabazian - Loyola Marymount University, CA
Author: Ms. Caroline L. Soga - Loyola Marymount University, CA



July 31, 2012 - Tuesday

Time: 8:15 am – 9:45 am

Education - Cross Disciplinary/Counseling/Art

Room: Kou - 3rd Floor

Session Chair: Dr. Dina Pacis

1. Title: ***Educational Achievement and Satisfaction through Generations***

This paper will analyze how students from the various generations view academic achievement. Student trends in terms of student satisfaction and a review of why students appeal grades will be collected and analyzed with a lens towards generational characteristics of students.

Author/Presenter: Dr. Dina Pacis - National University, CA
Author: Dr. Cindy Sytsma - National University, CA
Author: Dr. Mary Anne Weegar - National University, CA
Author: Dr. Penelope Keough - National University, CA
Author: Dr. Diana Wheeler - National University, CA
Author: Dr. Terry Bustillos - National University, CA

2. Title: ***Helping Students Learn: A Big Idea (Thematic) and Project-based Approach to Developing Rigorous Art Instruction***

The aim of this paper is to provide instructions that help students learn through creative inquiry and project based approach to develop rigorous art instruction.

Author/Presenter: Dr. Hsiao-ping Chen - Grand Valley State University, MI

July 31, 2012 - Tuesday

Time: 8:15 am – 9:45 am
Education - Teacher

Room: Milo 3 – 2nd Floor
Session Chair: Dr. Clifford J. Bieberly

1. Title: *ESL/TSL Bridging Chuuk's Cultural Distance with Commercial Speech*

An examination of English language learners recognition of, and ability to synthesize, cultural content in American television commercials.

Author/Presenter: Dr. Clifford J. Bieberly - Chaminade University of Honolulu, HI
Author: Dr. Eva Rose B. Washburn-Repollo - Chaminade University of Honolulu, HI

2. Title: *Classroom Management 101 – Online Support for New Teachers*

Technology can wear many hats in the learning/teaching environment. It can be supplemental in nature as well as be the basis for the learning taking place. It can even serve as an outlet for meeting rather than in a traditional classroom. Technology can open the world to pre-service teachers.

Author/Presenter: Dr. Allison H. Cassady - Oklahoma Christian University, OK

3. Title: *Addressing Bullying in Teacher Education*

Bullying and cyber-bullying are topics of great concern in America's schools. Teacher education candidates should be better prepared to confront bullying. A School of Education at a private university in Oklahoma is training teachers on the impact of bullying and ways to combat the impact the problem.

Author/Presenter: Dr. Darin F. Martin - Oklahoma Christian University, OK

July 31, 2012 - Tuesday

Time: 10 am – 11:30 am
Math – Technology/Inter-disciplinary

Room: Milo 4 – 2nd Floor
Session Chair: Dr. YongHui Wang

1. Title: ***Development of 3D Interactive Learning Modules for STEM Students***

3D interactive learning modules are developed to help STEM students in learning mathematics and engineering students in learning related engineering concepts. Example of RLC circuits with differential equations is presented.

Author/Presenter: Dr. Yonghui Wang - Prairie View A&M University, TX
Author: Dr. Jian-ao Lian - Prairie View A&M University, TX

2. Title: ***Technology Integrated Secondary Mathematics Education: Interactions between Teacher and Students in Classroom***

Students and teachers in three AP mathematics classes were interviewed and observed. This qualitative research indicated that the use of technology enabled students to learn mathematics and interact more cooperatively with each other. The results also indicated that students tended to visualize mathematical concepts when technology was integrated.

Author/Presenter: Dr. Edric Ha - Jacksonville State University, AL
Author/Presenter: Dr. Joseph Akpan - Jacksonville State University, AL

July 31, 2012 - Tuesday

Time: 10 am – 11:30 am
Math – Statistic/Analysis

Room: Milo 5 – 2nd Floor
Session Chair: Dr. Naima Shifa

1. Title: ***Comparison Study of Handling Measurement Error Models: Regression Calibration, SIMEX and Quasi-Likelihood Variance Function Based on Empirical Likelihood Approach***

3D interactive learning modules are developed to help STEM students in learning mathematics and engineering students in learning related engineering concepts. Example of RLC circuits with differential equations is presented.

Author/Presenter: Dr. Naima Shifa - Indiana University-Purdue University, IN
Author/Presenter: Dr. Rong Wang - Indiana University-Purdue University, IN
Author/Presenter: Dr. Mamanur Rashid - Indiana University-Purdue University, IN

2. Title: ***Educational HUIT-METC***

We employ hierarchy process to develop service system for evaluation. We then utilize correspondence analysis to explore the subjective perception of passengers' satisfaction level and conduct some critical indices for service improvement.

Author/Presenter: Dr. Hua-Kai Chiou - China University of Science and Technology, Taiwan
Author/Presenter: Ms. Shih-Han Chen - China University of Science and Technology, Taiwan

3. Title: ***Rational Series***

Power series play a fundamental role in mathematical analysis, and their theory is very well known. But, not much is known about rational series in general, series with rational functions as terms (instead of power functions as terms). In this paper, we will define a potential function of two complex variables, and then use it to describe the domain of convergence of rational series.

Author/Presenter: Dr. Mehrdad Simkani - University of Michigan-Flint, MI

4. Title: ***Geometric Power Series in Action***

The Geometric Power Series is a series of the form $\sum_{n=0}^{\infty} x^n$. The purpose of this study is to investigate some important applications of the geometric power series in $|x| < 1$. Geometric series appear everywhere, and here we try to do a good job in showing the different aspects of it.

Author/Presenter: Dr. Mulatu Lemma - Savannah State University, Georgia
Author/Presenter: Dr. Travis Young - Savannah State University, Georgia

July 31, 2012 - Tuesday

Time: 10 am – 11:30 am
Education - Foundations

Room: Salon A – 3rd Floor
Session Chair: Dr. Alberta Yeboah

1. Title: ***Contributions of Ancient Societies to the Development of Formal Education: An Overview***

The contributions of ancient societies such as Chinese, Egyptian, Hindu, Hebrew, and Sumerian societies to the development of formal education are often ignored in the literature. Contemporary educational systems worldwide have borrowed heavily from the character, philosophies, organization, and implementation of educational systems of ancient societies. The purpose of this paper is to highlight some of the contributions ancient societies have made to the contemporary educational enterprise. The thesis of this paper is that without the educational foundations laid by ancient societies, formal education would not be as advanced as it is today.

Author/Presenter: Dr. Alberta Yeboah - Jackson State University, MI

2. Title: ***St. Ann's Colored School, Cincinnati, The Beginning of a Tradition***

The paper traces the origin and first years of St. Ann's Colored School, Cincinnati. The claim is made that begins a tradition of education of African-American children in the Catholic Archdiocese of Cincinnati.

Author/Presenter: Dr. Joseph H. Lackner - Chaminade University, HI

July 31, 2012 - Tuesday

Time: 10 am – 11:30 am
Education - Teacher

Room: Salon B – 3rd Floor
Session Chair: Dr. Diane Barrett

1. Title: ***Using The “Do It, Draw It, Write It” Method to Help Preservice Teachers Engage Elementary Math Learners***

Come see how you can use the “Do It, Draw It, Write It” method to help your preservice teachers engage their elementary mathematics learners. This method assures that preservice teachers scaffold mathematics learning from concrete (using a variety of manipulatives, such as pattern blocks) to abstract (using numerical representations). It also assures that early learners have the benefit of engaging hands-on learning activities.

Author/Presenter: Dr. Diane Barrett - University of Hawai'i at Hilo, HI
Author/Presenter: Dr. Jan Ray - University of Hawai'i at Hilo, HI

2. Title: ***How Social Media Use by Pre-Service Teachers Impacts Instructional Design of Distance Learning Courses***

This study pre-service teachers to ascertain what social networking skills these students currently use in order to inform instructional design of course work for pre-service teachers. It looks at implications for student use of social media and its potential impact on instructional design of pre-service teacher coursework to motivate and actively engage learners.

Author/Presenter: Dr. Jeannine Hirtle - Austin Peay State University, TN
Author/Presenter: Dr. Jan Ray - University of Hawai'i at Hilo, HI

July 31, 2012 - Tuesday

Time: 10 am – 11:30 am
Education – Art/Music

Room: Salon C – 3rd Floor
Session Chair: Dr. Annie Yih

1. Title: ***A New Approach to Teaching Part-Writing Practices of J. S. Bach's Style of Chorale Harmonization***

This author will demonstrate this new approach by asking session attendees to participate in three steps: 1) recognize two-part species counterpoint rules existing between the outer parts of a phrase selected from J. S. Bach's 371 harmonized four-part chorales; 2) using solfege syllables sing the horizontal dimension of the division of the scale into the upper tetrachord and lower pentachord; 3) analyze the harmonies and how they relate to members of the tonic triad.

Author/Presenter: Dr. Annie Yih - University of California at Santa Barbara, CA

2. Title: ***Theatre and Social Change***

Theatre and Social Change explores the potential relationship between Theatre and Contemporary Issues from Social, Political and Personal Perspectives. Beyond an aesthetic or entertainment value, Theatre may reflect and influence changes within society.

Author/Presenter: Dr. Timothy R. Wilson - University of North Texas, TX

3. Title: ***Weltanschauung and Cognitive Sciences in (Russian) "Culture Classes"***

Case study of how abstraction of cultural history per dominant "worldviews" can facilitate multi-media study of major Russian masterpieces in a variety of arts. Furthermore, student papers demonstrate effective insight not only into major works but into surprising psychological features of cultural history.

Author/Presenter: Dr. Brett Cooke- Texas A&M University, TX
Author/Co-Presenter: Dr. Olga Cooke- Texas A&M University, TX

July 31, 2012 - Tuesday

Time: 10 am – 11:30 am
Education –
Cross Discipline/Foundations/Social

Room: Kou – 3rd Floor
Workshop

A New View of Education Reform from a Social Work Prospective

The purpose of this roundtable discussion workshop is to initiate dialogue on the importance of increasing effective reform measures in education. A new approach is needed to identify preventative measures that increase student success. Social workers should have a pivotal role in this multidisciplinary process, as the holistic approach is the core foundation of the profession.

Author/Presenter: Dr. Daphne Henderson - University of Tennessee at Martin, TN
Author/Co-Presenter: Dr. Alicia Maya Donaldson - University of Tennessee at Martin, TN



July 31, 2012 - Tuesday

Time: 10 am – 11:30 am
Edu – Curriculum/R&D/Science/Distance

Room: Milo 3 - 2nd Floor
Session Chair: Dr. Joy Esquierdo

1. Title: ***Pedagogical Practices for Bilingual Students: Using an Observation Protocol in Bilingual and ESL Classrooms***

With the controversy about how bilingual education programs should be structured and implemented in the early stages of education, we examined two imperative research questions centered on the issues of common classroom pedagogical occurrences for bilingual students and attributes of instruction based on the use of language of instruction. Observational data collected from 10 bilingual or ESL classrooms showed the common instructional strategies used to instruct bilingual students.

Author/Presenter: Dr. Isela Almaguer - University of Texas-Pan American, TX
Author/Presenter: Dr. Joy Esquierdo - University of Texas-Pan American, TX
Author: Dr. Diaz Zulmaris - University of Texas-Pan American, TX

2. Title: ***Personal Finance: Does it belong in K-12 Education?***

Financial literacy has taken a sharp increase in awareness since the great recession of 2008. The presentation will analyze personal financial education trends, practices and shortcomings, but also identify the desperate need for this education in K-12 schools.

Author/Presenter: Dr. Kelly E. Rogers - Chapman University, CA

3. Title: ***'Testing the Waters with a Global Education Initiative'***

This case study pertains to the first global education initiative conducted at Park University that resulted in academic programming. Park University is a leader in distance education with 33 campus centers nation-wide (mostly military installations and online). It included program delivery to the U.S.-Affiliated Pacific and a feasibility analysis for programming in the U.S. Virgin Islands, Malaysia and Vietnam.

Author/Presenter: Dr. Ed Hight- Park University (home campus Kansas City), MO

July 31, 2012 - Tuesday

Time: 12 pm – 1:30 am
Poster Session

Room: Waikiki Ballroom
3rdFloor

1. Title: ***Differentiation: Finding Every Student's Genius to Improve the Learning Process***

Education - Special Education, Cross-Disciplinary Education

The presentation will demonstrate proven strategies to design an effective differentiated classroom. The program's methodology will also focus on teacher attitudes and perceptions in ensuring our students have the ability to recognize their inner genius.

Author/Presenter: Dr. Andrea Beam - Liberty University School of Education, VA

2. Title: ***Designing a School-Based Business/Work Experience Program for Students with Disabilities***

Education - Special Education, Cross-Disciplinary Education

The presentation will demonstrate proven strategies to develop a school-based business/work experience program. The program's flexibility also allows participation from multiple levels of cognitive abilities among adolescents.

Author/Presenter: Dr. Andrea Beam - Liberty University School of Education, VA

3. Title: ***Responding to Aggressive & Violent Behavior: Meeting the needs of Special Education Students***

Education - Administration & Special Education

This study examines student discipline procedures and the practices implemented by school leaders in response to the aggressive or violent behaviors elicited by students. In particular, this study examines the practices or the absence of practices used with Special Education Students as a means of modifying behaviors in preparation for their return to the classroom.

Author/Presenter: Dr. Joan Cowell - Northern Michigan University, MI
Author/Presenter: Dr. Bethney Bergh - Northern Michigan University, MI

4. Title: ***Improving Retention with Technology***

Education - Academic Advising

Since fall of 2006, the Undergraduate Academic Advising Center at the University of Illinois Springfield has administered a program to identify students who under-perform in their classes early in the academic term.

Author/Presenter: Ms. Carmalita M Kemayo - University of Illinois Springfield, IL

5. Title: ***Ascertaining the skills and abilities sport organizations covet in their recruits'***

Education - Kinesiology & Leisure Science/Other areas of education (Sport Management)

The purpose of this study is to gain an understanding of the valuable knowledge of the competencies the sport industry is seeking while hiring new employees. The findings of this study are essential to industry professionals, faculty, and administrators when determining future employment, curriculum, and program goals.

Author/Presenter: Dr. Paul Keiper - Texas A&M University, TX
Author/Presenter: Dr. Shane Hudson - Texas A&M University, TX

6. Title: ***Preparing Proficient Practitioners: Problem-Based Learning in Athletic Training Education***

Education - Higher Education/Health/Medical Education/Athletic Training Education

Problem-based learning has been used as an effective teaching strategy in medical education for decades. This study examined the effectiveness of problem-based learning in athletic training education utilizing Board of Certification exam scores.

Author/Presenter: Dr. Cordial M. Gillette - University of Wisconsin-La Crosse, WI

7. Title: ***T3Girls! Educational Technology Inspire Girls: The NSF Tri-IT Project***

Education - Technology

The Tri-IT project is a NSF grant to provide after-school technology experiences to high school girls (www.t3girls.com). Thirteen curriculum modules are available free as mobile content, easily downloadable and transferrable into any device. The educational modules were created using constructivist learning principles, emphasizing the use of interactive media and social networks, designed for the younger minds. Research results, which demonstrate gains in confidence and learning, will be presented.

Author/Presenter: Dr. LaDonna K. Morris - Florida State College at Jacksonville, FL
Author/Presenter: Dr. Amaya M. Davis - Florida State College at Jacksonville, FL

8. Title: ***Taking the Sociocultural Turn: A Case Study Investigating the Effectiveness of Case-Based Pedagogy Using Student-Generated Cases in Language Teacher Education***

Education - Teacher Education, Language Education, ESL/TESL

Author/Presenter: Dr. Amy Cournoyer - Boston University School of Education, MA

9. Title: ***Special Education-Gifted & High Ability Learners Education Leadership-Secondary Administration***

Education - Teacher Education, Language Education, ESL/TESL

Author/Presenter: Dr. Carla D. Bryant - Southern Arkansas University-Graduate Studies, AR

10. Title: ***Toward a Critical Discursive Pedagogy of September 11th and its Aftermath***

Education - Interdisciplinary social science

Author/Presenter: Dr. Christianna Nichols Leahy - McDaniel College, Maryland

11. Title: ***So What's the Big Idea?": The Great Uncover-Up***

Education - Teacher

Author/Presenter: Mr. Dave Iasevoli - SUNY Plattsburgh, NY

12. Title: ***American Indian Studies in American Elementary Schools: A Comparative Study of Indigenous Education for Non-Indian Students in Three States.***

Education - Indigenous Education

Author/Presenter: Dr. Erin M. Koester- Montana State University, MT

13. Title: ***Engaging Commuters: Strengthening Connections and Bettering the College Experience for Off-Campus Students***

Education - Student Affairs

Author/Presenter: Ms. Lauren Scally - Towson University, MD

Author/Presenter: Ms. Carol Galladian - Towson University, MD

14. Title: ***The Expression of a Binary Signal as a Polynomial Expansion***

Math - A study of the mathematics associated with Digital Signal Processing, Computational Analysis and the response of electrical and electronic networks to binary signals.

The mathematical structure of periodic signals is of interest in this study. What is intended in this work is to construct a periodic binary signal (e.g. square wave with an arbitrary duty cycle) in a polynomial format. This makes it very convenient to use analytically in the analysis of electrical and electronic networks, and to transform to the Laplace domain. Polynomials are easy to integrate, differentiate and do Laplace Transforms with.

Author/Presenter: Wyatt Kilgallin - The University of Akron, Ohio

15. Title: ***Supplemental Instruction for Pre-Calculus. Cross Institutional Implementation.***

Math - Pre-Calculus / Mathematics Education

The Mathematics Departments of El Paso Community College (EPCC) and University of Texas at El Paso (UTEP) have a long tradition of close cooperation. We will report on a joined initiative, supported by the Department of Education, to integrate mandatory Supplemental Instruction into EPCC's Precalculus courses. Graduate students from UTEP served as leaders for this Supplemental Instruction component. Our poster will introduce the concept of mandatory Supplemental Instruction in Precalculus courses at EPCC.

Author/Presenter: Dr. Gabriela Schwab - El Paso Community College, TX

Author/Presenter: Dr. Emil Daniel Schwab - The University of Texas at El Paso, TX

Author/Presenter: Dr. Helmut Knaust- The University of Texas at El Paso, TX

Author/Presenter: Dr. Berenice Salazar- The University of Texas at El Paso, TX

16. Title: ***HC-144 Quick Release Flare Tube***

Math - Engineering: Non-traditional Manufacturing Process, Partnership between Academia and Corporate World

The U. S. Coast Guard HC-144 Ocean Sentry is a multi-mission cargo and surveillance aircraft that utilizes a flare tube launch system that will drop a flare with the push of a button. The flare launch tube blocks the aft cargo area of the aircraft and requires a lengthy removal process to load / unload cargo. Cadets at the Coast Guard Academy have teamed up with engineers to develop an ingenious solution to the problem.

Author: ENS Alex Brown- United States Coast Guard Academy, CT

Author: ENS Trent Meyers - United States Coast Guard Academy, CT

Author: ENS Tom Morrow - United States Coast Guard Academy, CT

Author: ENS Katie Spira - United States Coast Guard Academy, CT

Author: ENS Amanda Hamlet - United States Coast Guard Academy, CT

Author/Presenter: CDR Charles Hatfield - United States Coast Guard Academy, CT

17. Title: ***Influence of Different Instructional Methods on Students Performance***

Education- Higher

Influence of different instructional methods on students learning was discussed. Different assessment methods were applied and their efficiency was analyzed. Correlation between knowledge and grades was performed.

Author/Presenter: Dr. Elena Gregg - Oral Roberts University, OK

18. Title: ***Comparing the Effects of Online Game Playing and Nonplaying Among Taiwanese Teens***

Education- Psychology / Technology

The purpose of this study was to explore the online gaming experiences of teens, their motivations for playing online games (MPOG) and the relationships between online gaming and self-concept, life adaptation and well-being.

Author/Presenter: Prof. Shu Ching Yang - National Sun Yat-sen University, Taiwan

Author/Presenter: Prof. An Sing Chen - National Chung Cheng University, Taiwan

19. Title: ***Cal Poly Pomona / NASA JPL High Usability Host Spacecraft Project (HUHSP)***

Math - Partnership between Academia and Corporate World

This study describes a recent partnership between NASA's Jet Propulsion Laboratory (JPL) and Cal Poly Pomona's Mechanical Engineering Department. The collaboration involves a team of JPL engineers who serve as mentors to a team of Cal Poly Pomona Mechanical Engineering students in the design of a "High Usability Host Spacecraft Project (HUHSP)". The students are tasked to complete a thermal design of a spacecraft to accommodate various payloads in low-earth orbit which is subject to a series of design requirements. In the process of the design, the student team performs systems engineering and thermal analysis and presents their results to the JPL team at regularly scheduled design reviews. This project helps to foster university and corporate relations by preparing a team of students who are capable of entering the workforce with the skill sets needed in today's engineering design setting. Results of the student's design project and assessment of their learning process are presented herein.

Author/Presenter: Dr. Kevin Anderson - California State Polytechnic University, Pomona, CA

Author/Presenter: Mr. Daniel Forgette - California State Polytechnic University, Pomona, CA

Author/Presenter: Ms. Maria Verastegui - California State Polytechnic University, Pomona, CA

Author/Presenter: Mr. Austin Smith - California State Polytechnic University, Pomona, CA

Author/Presenter: Mr. Jonatham Hoy - California State Polytechnic University, Pomona, CA

Author/Presenter: Mr. Christine Sellarberg - California State Polytechnic University, CA

Author/Presenter: Ms. Michelle Alfonsi - California State Polytechnic University, Pomona, CA

Author/Presenter: Mr. Kevin Mayer - California State Polytechnic University, Pomona, CA

Author/Presenter: Ms. Sevan Kenderian - California State Polytechnic University, Pomona, CA

20. Title: ***Using Artificial Intelligence Methods to Forecast College Student Enrollment***

Education- Higher Education

Author/Presenter: Dr. Aiping Yang -

21. Title: ***The Impact That Abuse and Violence Has on a Child's Development and the Family***

Education- Early Childhood

Author/Presenter: Dr. Sherry D. Bacchus

22. Title: ***Academic, Social, and Emotional Factors Influencing School Dropout: Recommendations for Cross-Disciplinary Collaborations in Teacher and Counselor Education***

Education- Early Childhood

Author/Presenter: Dr. Ronica Arnold Branson

23. Title: ***Through the Lens of Critical Race Theory (CRT): African American Students and Continuation Schools***

Education: Cross-disciplinary

This poster session will review research related to the experiences of African American students attending two different continuation schools. The focus was on their beliefs of how well prepared they felt for employment or college after graduation.

Author/Presenter: Dr. Shyrea Roberson - University of Redlands, CA

24. Title: ***Comparing the effects of online game playing and nonplaying among Taiwanese teens***

Author/Presenter: Dr. Shu Ching Yang

25. Title: ***Good Neighbors Around the World***

Author/Presenter: Dr. Deborah Eville Lo

26. Title: ***Leadership Across Cultures: A Continuum of Perspectives that Impact Educational Practitioner Effectiveness***

Author/Presenter: Dr. Pamela E. Wanga

27. Title: ***Dewey and Critical Thinking: How the Gender Wars pair up in the classroom through feminist teaching***

Author/Presenter: Dr. Patricia A. Walker

28. Title: ***Enhancing Mathematical Instructional Strategies in the 21st Century for Diverse Classrooms***

Author/Presenter: Dr. Bernard C. Jones

Author/Presenter: Dr. Nancy Vitalone-Raccaro

29. Title: ***“Learning From the Lives of Three African American Social Studies Teachers”***

Author/Presenter: Dr. Earl Chantee

30. Title: ***Training Students for a Globalized Workforce***

Author/Presenter: Dr. Aspen D’Costa

31. Title: ***Predictors of Math Outcomes among Latino Kindergartners***

Author/Presenter: Prof. Enilda A. Delgado

32. Title: ***Educating E-Citizens in the Digital Age***

Author/Presenter: Dr. Jeffrey H. Collins

33. Title: ***Modeling Skewness With Applications In Epidemiology And Finance***

Author/Presenter: Dr. Arjun K. Gupta

July 31, 2012 - Tuesday

Time: 12:45 pm – 2:15 pm
Math– Material Science & Engineering

Room: Milo 4 - 2nd Floor
Session Chair: Dr. Boon-Chai Ng

1. Title: ***An Evaluation of the Electrical Resistance of the Dielectric Electro-active Polymer Subject to Stress-relaxation Cycles***

Di-electric electro active polymers have potential used as actuators and sensors. The relationship between their electrical resistances as function of the stress-relaxation cycles are measured and evaluated

Author/Presenter: Prof. Boon – Chai Ng - Andrews University, Michigan
Author/Presenter: Dr. Gunnar Lovhoiden - Andrews University, Michigan
Author/Presenter: Dr. Kalyanram Sompalli - Andrews University, Michigan
Author/Presenter: Mr. Tanner Williams - Andrews University, Michigan

2. Title: ***Effect of the surface density of nanosegments immobilized on culture dishes on ex vivo expansion of hematopoietic stem and progenitor cells from umbilical cord blood***

Hematopoietic stem and progenitor cells (HSCs) are multipotent cells that have the specific capacity to self-renew and differentiate into all type of mature blood cells. Intravenous infusion of HSCs has been commonly performed to treat patients suffering from hematological disorders and malignant diseases after radiation and/or chemotherapy. Umbilical cord blood (UCB) is an attractive source of HSCs for HSC transplantation. However, the low number of HSCs obtainable from a single donor of UCB limits direct transplantation of UCB to the treatment of pediatric patients.

Author/Presenter:
Prof. Akon Higuchi- National Research Institute for Child Health and Development, Tokyo – Japan/
National Central University, Jhongli, Taoyuan – Taiwan

July 31, 2012 - Tuesday

Time: 12:45 pm – 2:15 pm
Math – Mathematics Education

Room: Milo 5 - 2nd Floor
Session Chair: Dr. Lia Margolin

1. Title: ***Investigating Student Attitudes towards Mathematics and Sciences***

Success and failure in math and science performance is greatly determined by students' attitudes towards the subject matter. A multidimensional survey instrument including motivation, usefulness, self-confidence, and enjoyment subscales was developed and administered in several New York City Private High schools in order to investigate student attitudes towards mathematics and sciences and provide recommendations on how to improve students' academic performance and participation in math and science programs.

Author/Presenter: Dr. Lia Leon Margolin - Marymount Manhattan College, NY
Author/Presenter: Dr. Benedetta Sampoli-Benitez - Marymount Manhattan College, NY
Author/Presenter: Ms. Alexandra Tarasenko - Marymount Manhattan College, NY

2. Title: ***Freshman Level Mathematics Courses Online: The Perceptions of College Students***

The purpose of this study is to examine the perspectives and experiences of college students in online mathematics courses in an effort to improve the quality of online mathematics courses and bridge the gap between the expectations and perceptions of faculty and those of the online student.

Author/Presenter: Dr. Amy Franklin - Jacksonville State University, Alabama

July 31, 2012 - Tuesday

Time: 12:45 pm – 2:15 pm
Education – Counselor/Administration

Room: Salon A – 3rd Floor
Session Chair: Dr. William C. Viser

1. Title: ***What Are They Looking At? The Problem of Internet Pornography and the College Student***

Internet pornography is highly accessible for college students today and accessed in growing numbers by males and females alike. This paper will utilize the latest statistics available and examine the multiple issues with which the counselor must be aware of to effectively counsel the college client.

Author/Presenter:
Dr. William C. Viser
Pruett School of Christian Studies-Ouachita Baptist University
American Association for Marriage and Family Therapy
American Counseling Association
American Association of Christian Counselors, AR

2. Title: ***Building Organizational Structure in Schools Based On Discourse around “Brief Relational Events”***

The paper argues that structuring within school organization has a dialogic character. Dialogic structures serve as a key component in building the overall structure of school organization. Dialogic structures become the center of organizational structure in schools through the process of creating discourse around “brief relational events”

Author/Presenter: Dr. Chandrasena Liyana Cabraal - Chicago State University , IL

July 31, 2012 - Tuesday

Time: 12:45 pm – 2:15 pm
Education – ESL/TSL

Room: Salon B – 3rd Floor
Session Chair: Dr. Isela Almaguer

1. Title: ***Advancing Linguistic and Content Literacy for Bilingual Learners: A Framework for Academic Success***

It is essential to support bilingual learners' language and academic development; however, teaching bilingual learners English has taken precedence over content area instruction and this may be due to an increasingly diverse population and a large number of bilingual learners in formal school settings. This paper introduces a framework for achieving both linguistic and content literacy simultaneously. The framework illustrates both the theory and practical application while taking into account the elements of the principles of learning, learner appropriate pedagogy, contextual interaction theory, student language (L1/L2) proficiency level, and a learner-centered environment that can lead to the successful achievement of content literacy for bilingual learners.

Author/Presenter: Dr. Isela Almaguer - The University of Texas Pan-American, TX
Author/Presenter: Dr. Joy J. Esquiedo - The University of Texas Pan-American, TX
Author: Dr. Diaz Zulmaris - University of Texas-Pan American, TX

2. Title: ***Distance English Language Learning: The Role of Teacher Response in Learner Self-Regulation***

Learner autonomy in online language courses can be facilitated through course activities and corresponding teacher feedback. Incorporating self-regulated learning activities into the course design and then emphasizing the value of these activities with meaningful teacher feedback can help students control the factors affecting their learning and become more autonomous. This presentation reports on differences in teacher response in an online, high-intermediate level English as a Second Language writing course and how response affects the development of learner self-regulation.

Author/Presenter: Dr. Maureen Andrade - University College, UT

July 31, 2012 - Tuesday

Time: 12:45 pm – 2:15 pm
Edu-Workshop Cultural/Indigenous/Higher

Room: Salon C – 3rd Floor

Title: ***“UV ASCENDS” – a 3-day intake/orientation program for multicultural, first generation and underserved population students (A=Academic, S=Strategies for the, C=Challenging, E=Educational, N=Needs of, D=Diverse, S=Students)***

This is an exciting, thought-provoking, highly interactive session highlighting a 3-Day successful multicultural student induction/orientation program. Attendees participate in “cultural-shock reducing” and academically crafted activities to build meaningful relationships for incoming students from underserved populations. Experience a powerful Native American Talking Circle, a revealing “Privilege” exercise, a “Stand and Deliver” academic workshop, “The Price Is Right” financial game, “Color Code” (personality assessment), “Who’s Here?” (finding common ground) and the ultimate “finale” afternoon - a “Jeopardy” summary game, Canoe Race, Multicultural Talent Show and rousing African American “Let’s Sing Gospel!” Handouts are available to replicate activities.

Author/Presenter:

Dr. Gwen Anderson - Utah Valley University (formerly Utah Valley State College), UT

Author/Co - Presenter:

Dr. Brett Breton - Utah Valley University (formerly Utah Valley State College), UT



July 31, 2012 - Tuesday

Time: 12:45 pm – 2:15 pm
Education – Early Childhood/Elementary

Room: Kou – 3rd Floor
Session Chair: Dr. Hilary Pollack

1. Title: ***The Boys in the Back Room Meet the Liberals Under the Bed Politics and Children's Literature***

When children are introduced to children's literature, the innocence of childhood inevitably gives way to an awakening of awareness and the shaping of values and ideas. Historically children's literature perpetuated the status quo and was respectful of traditional values. More contemporary authors, however, have presented themes which question political structures and address environmental issues.

Author/Presenter: Dr. Hilary Pollack – University of Wisconsin, River Falls, WI

2. Title: ***Pre- Kindergarten Experiences in a Rural District and Kindergarten Readiness***

Children's readiness scores for a Kindergarten screening were compared to Pre- school placement for correlations. 300 children were evaluated to see which placement in a rural school area seemed to have the biggest impact on readiness skills.

Author/Presenter: Dr. Kimberly R. Moffett – Lee University, TN

Author/Presenter: Dr. Barbara Harris – Lee University, TN

July 31, 2012 - Tuesday

Time: 12:45 pm – 2:15 pm
Education – Science/Higher

Room: Milo 3 – 2nd Floor
Session Chair: Dr. Mary Anne Weegar

1. Title: ***Student Perceptions of Technological Literacy Learning with Cumulative and Stepwise Integration of Equations into Engineering Diagrams***

This experimental study investigated the effects of the integration of equations into diagrams on the engineering learning and learning perceptions of non-engineering undergraduate students. Three integration designs were compared: cumulative integration where equations were cumulatively integrated into the circuit diagram, step-wise integration where only the equations relevant to the present step of the problem were integrated into the circuit diagram, and non-integrated presentation where all equations were displayed in an adjacent frame.

Author: Dr. Amy M. Johnson - Arizona State University, AZ
Author: Dr. Gamze Ozogul - Arizona State University, AZ
Author: Dr. Roxana Moreno - University of New Mexico, NM
Author/Presenter: Dr. Martin Reisslein - Arizona State University, AZ

2. Title: ***Preparing Pre-Service Teachers to Use A Holistic Approach for Teaching Science, Technology, Engineering, and Mathematics***

This paper will provide an overview of how to design a program to prepare pre-service teachers with the knowledge, skills, and dispositions necessary to teach elementary students the relationship that exists between science, technology, engineering, and mathematics (STEM). Strategies will include how teaching, learning, and technology work together to develop a holistic view of education.

Author/Presenter: Dr. Mary Anne Weegar – National University, CA
Author/Presenter: Dr. Helen Anderson-Cruz – National University, CA

3. Title: ***Cross-disciplinary Education for the Integration of Complementary and Alternative Therapies***

To determine the readiness for integration of complementary and alternative therapies (CAT) in an acute rehabilitation hospital, a Doctor in Nursing Practice Candidate (DNPc) conducted a study using the theoretical framework of Theory of Integral Nursing. The role of the DNP provided enhanced opportunities to meld scholars with clinicians through evidence-based research.

Author/Presenter: Dr. Juliann Perdue – California Baptist University, CA

July 31, 2012 - Tuesday

Time: 2:30 pm – 4 pm
Math – Math/Number Theory

Room: Milo 4 – 2nd Floor
Session Chair: Dr. ChaoHui Zhang

1. Title: ***Point-Pushing Pseudo-Anosov Maps and Filling Simple Closed Geodesics on Riemann Surfaces With Punctures***

Let S be an analytically finite Riemann surface of type $(p; n)$, where p is the genus and n is the number of punctures on S . Assume that $3p + n > 3$. According to Thurston [4], an orientation preserving homeomorphism f of S is called pseudo-Anosov if there is a real number $\lambda > 1$ and a pair of transverse measured foliations fF_+, F_- on S invariant under f such that $f(F_+) = \lambda F_+$ and $f(F_-) = \lambda^{-1} F_-$. The number $\lambda = \lambda(f)$ is algebraic and is called the dilatation of f .

Author/Presenter: Dr. ChaoHui Zhang - Moorehouse College, GA

2. Title: ***Our Perfect Journey with the Perfect Numbers***

Mathematicians and non-mathematicians have been fascinated for centuries by the properties and patterns of numbers. They have noticed that some numbers are equal to the sum of all of their factors (not including the number itself). Such numbers are called perfect numbers. Thus a positive integer is called a perfect number if it is equal to the sum of its proper positive divisors.

Author/Presenter: Dr. Mulatu Lemma - Savannah State University, GA

Author/Presenter: Dr. Jonathan Lambright - Savannah State University, GA

Author/Presenter: Dr. Spyros Andreou - Savannah State University, GA

3. Title: ***The Mathematical Magic the Mulatu Numbers***

The Mulatu numbers were studied [1] and [2]. The numbers are sequences of numbers of the form: 4, 1, 5, 6, 11, 17, 28, 45... The numbers have wonderful and amazing properties and patterns.

Author/Presenter: Dr. Mulatu Lemma - Savannah State University, GA

Author/Presenter: Dr. Jonathan Lambright - Savannah State University, GA

Author/Presenter: Dr. Spyros Andreou - Savannah State University, GA

July 31, 2012 - Tuesday

Time: 2:30 pm – 4 pm
Math – Topology/Networks

Room: Milo 5 – 2nd Floor
Session Chair: Dr. Tista Papantoni

1. Title: ***A Traffic Rate Monitoring Approach to Dynamic Clustered Wireless Sensor Network Topologies***

We consider clustered wireless sensor network topologies, where each cluster contains a large number of distributed sensors whose life-span is limited by the level of their power consumption. In such network topologies, sensor expirations induce uncertainties in the cluster participation of each sensor, as well as traffic rate dynamics across all clusters, where the above uncertainties necessitate the deployment of Random Access transmission algorithms.

Author/Presenter: Dr. A. T. Burrell - Oklahoma State University, OK
Author/Presenter: Dr. AP. Papantoni-Kazakos - University of Colorado Denver, CO

2. Title: ***Performance Comparison of ADOV and OLSR Routing Protocols in Realistic Network Scenarios***

In this paper, we compare the performance of two well-known routing protocols: the ad hoc on demand distance vector routing protocol (AODV) and the optimized link state routing protocol (OLSR). Our work addresses realistic settings where some nodes may be faulty resulting in the degradation of the performance of routing protocols. Our results show that AODV outperforms OLSR in terms of packet delivery ratio and the average routing overhead.

Author/Presenter: Prof. Ramesh Rajagopalan – University of St. Thomas, MN
Author: Mr. Adam Dahlstrom - University of St. Thomas, MI

July 31, 2012 - Tuesday

Time: 2:30 pm – 4 pm
Education: Science/Higher

Room: Salon A – 3rd Floor
Session Chair: Dr. Dominique Cheenne

1. Title: ***Making Religions an accessible subject of study: as Maps of Reality***

By studying and presenting religions as providing people and cultures with maps of reality, educators can tackle the difficult subject of religion responsibly and enable their students to recognize and understand religious influences in our shared world. The concept of religions as maps of reality will be explained, and it's potential for comparative approaches to teaching religions is then opened up for discussion.

Author/Presenter: Mr. Christopher P. Parr- Webster University, MO

2. Title: ***No room for errors: a new model for undergraduate education using an old tool***

By using an album/LP “cutting lathe”, students enrolled in the Acoustics Program at Columbia College Chicago will need to master important concepts such as time & resource planning, analysis of large data sets, synthesis of results to determine acceptable options, and commitment to a task as the process leading to the final result allows for only one attempt toward completion. The conceptual aspect of the process is a complement to the existing learning outcomes in the program but it can be ported to other educational fields.

Author/Presenter: Dr. Dominique Cheenne - Columbia College Chicago, IL

3. Title: ***Teaching Classics in the 21st Century: Changing Paradigms in Higher Education***

The Academy is changing, in general, and the field of Classics in particular is changing. In this regard they both mirror large-scale changes in society as a whole. This paper begins with several possible taxonomies of 'Classics' as an academic discipline, in order to prepare for the question of how the teaching of Classics needs to change in order to be viable for a new millennium.

Author/Presenter: Dr. John T. Kirby - University of Miami, FL

HAWAII UNIVERSITY INTERNATIONAL CONFERENCES' 2012 EDUCATION, MATH AND ENGINEERING TECHNOLOGY CONFERENCE

July 31, 2012 - Tuesday

Time: 2:30 pm – 4 pm
Education: Technology

Room: Salon B – 3rd Floor
Workshop

Title: Educational Technology Integration for Success in the K-12 and University Classroom
Employing a constructivist philosophy, this interactive presentation will focus on building capacity for using technology in K-12 classrooms, teacher education, leadership, and instruction throughout the university. Presenters will share ideas for enhancing teaching, including strategies and materials such as student response systems, portable interactive whiteboards, Flip cameras, and video presentations.

Author/Presenter: Dr. Candace Roberts - Saint Leo University, FL

Author/Presenter: Dr. Karen Hahn - Saint Leo University, FL

Author/Presenter: Dr. Carol Walker - Saint Leo University, FL



July 31, 2012 - Tuesday

Time: 2:30 pm – 4 pm
Education: Teacher

Room: Salon C – 3rd Floor
Session Chair: Dr. Bob N. Cage

1. Title: ***Managing the Three-Ring Circus: A Study of Student Teachers' Understanding and Learning of Classroom Management Decision Making***

Learning to manage a classroom of twenty-two elementary students is often likened to conducting a three-ring circus, particularly in the eyes of student teachers. This qualitative study examines five student teachers thoughts and actions as they face a myriad of management challenges as they learn their way about the classroom.

Author/Presenter: Dr. Allison H. Cassady - Oklahoma Christian University, OK

2. Title: ***Aligning Constructs Represented in Teacher Work Samples with an Argument Based Approach to Validity toward Improved Decision Making: A Cross-Disciplinary Analysis***

Kane's argument-based approach to validity is applied to general and special education teacher work samples to document and improve technical adequacy of the procedure.

Author/Presenter: Dr. Todd Twyman - Pacific University, OR

Author/Presenter: Dr. Luke Duesbery - San Diego State University, CA

Author/Presenter: Dr. Rebecca Schulte - Pacific University, OR

Author/Presenter: Ms. Luma Adamo - Cajon Valley Union School District, CA

July 31, 2012 - Tuesday

Time: 2:30 pm – 4 pm
Education: Technology

Room: Kou– 3rd Floor
Session Chair: Dr. Emily Orr

1. Title: ***Advancing Education through Social Media***

Social media will be one of the bases in advancing education in this 21st century. It is a powerful tool for expression and information, and it is means for creating changes amongst individuals and society.

Author/Presenter: Dr. Emily Orr - New York University, Virginia

July 31, 2012 - Tuesday

Time: 2:30 pm – 4 pm
Education: Inter-Disciplinary/Arts

Room: Milo 3– 2nd Floor
Session Chair: Dr. Lee C. Payton

1. Title: ***A Cycle of Ideation: Similarities between the Arts of Cinema Sound, Music Performance & Teaching***

This paper draws upon experiences during fifteen years of professional film, sound, audio, and arts instruction; and over thirty years of live music performance. Using a framework of eleven popular quotes from luminaries in their relative fields, this paper explores a cycle of ideation that includes human imagination, community spirit, self-confidence, deeper learning, and forward thinking.

Author/Presenter: Dr. Lee C. Payton - Columbia College Chicago, IL

2. Title: ***Education and Spiritual Development: A Mixed-Methods Study***

The present study replicates and expands upon previous research by the lead author to further validate the spiritual development model based on Maslow's Hierarchy of Needs proposed by the lead author. The spiritual development model is validated quantitatively by a Likert-scale type survey that correlates spiritual needs, spiritual motivation, and spiritual volition with participants' academic performance. Additional validation of the model is provided by semi-structured, open-ended interviews with participants to develop a deeper, more phenomenological understanding of the components of spiritual development and their opinions on the proper roles of religion and spirituality in education.

Author/Presenter: Dr. Russ Yocum - Liberty University, VA
Author/Presenter: Dr. Laura Staal - Liberty University, VA
Author/Presenter: Ms. Elyse Pinkie - Liberty University, VA

August 1, 2012 - Wednesday

Time: 8:15 am – 9:45 am
Math – Industrial Engineering

Room: Milo 4 - 2nd Floor
Session Chair: Dr. Nashwan Younis

1. Title: ***An Accurate Experimental Method for Determining Mode One Stress Intensity Factor***

Mathematics and engineering optics are correlated seeing that the literature is inconclusive in regard to selecting the maximum diameter of the reflected caustics image. An experimental investigation was performed to establish the effects of diffraction on the determination of stress intensity factors utilizing the method of reflected caustics. Mathematical reflected caustics from the front and rear face of a transparent material were generated and validated by experiment. The study introduces the reflected caustics from the rear face of a plate with a circular hole as a calibration method. The accuracy of the proposed calibration technique is demonstrated by comparing experimental results to theory.

Author/Presenter: Dr. Nashwan Younis

2. Title: ***MTSU's MSPS Program Bridges the Gap Between Academia and the Scientific Industry***

The Professional Science Masters (PSM) is a nationally recognized two-year degree that is funded by the Alfred P. Sloan Foundation and is designed to allow students to pursue advanced training in the sciences while simultaneously developing highly-valued business skills. A PSM degree prepares students for science careers in business, government, or nonprofit organizations, where workforce needs are increasing. This unique program combines rigorous study in Science, Technology, Engineering, and Mathematics (STEM) fields with skills-based coursework in management, communication, and business law. PSM programs culminate in a "real-world" internship in a business or public sector enterprise, where students apply what they have learned in the classroom to the scientific industry.

Author/Presenter: Dr. Saeed Foroudastan - Middle Tennessee State University, TN
Author/Presenter: Dr. Lindsey Miller - Middle Tennessee State University, TN

August 1, 2012 - Wednesday

Time: 8:15 am – 9:45 am
Math – Technology

Room: Milo 5 - 2nd Floor
Workshop

Developing a Conference Submission Site and Mobile App with DotNetNuke

DotNetNuke (DNN) is an open-source Web Content Management System (CMS) and Web Application Framework (WAP) for ASP.NET intended to allow for the creation and management of Web and mobile sites without much technical training or computer programming abilities required. It uses a three-tier architecture with a core framework and provides support for an extensible modular structure. This hands-on workshop will show how to use DNN 6 to create both a traditional conference registration and submission site, as well as a companion mobile app for conference session information.

Author/Presenter: Dr. Dean Jensen - Elmhurst College, IL



August 1, 2012 - Wednesday

Time: 8:15 am – 9:45 am
Education - Early/Elementary/Secondary

Room: Salon A – 3rd Floor
Session Chair: Dr. Tanya Volkova

1. Title: ***Preservice Teachers' Estimation Strategies with Regard to Addition, Subtraction, Multiplication, and Division of Fractions***

The goal of the reported study was to describe different estimation strategies preservice K-6 teachers use while solving problems involving addition, subtraction, multiplication, and division of fractions. Collective case study methodology was used to explore the issue. Interview data were analysed using the Estimation Thinking Framework (Volkova, 2006), and revealed that the descriptors of the framework are adequate for assessing the current level of number sense development of preservice teachers, based on their ability to estimate with fractions. Some of the preservice teachers, despite their proficiency with paper-and-pencil computational algorithms, were unable to estimate answers to tasks. Others, however, could think of several valid strategies for a single problem in finding an estimate, thus, demonstrating their ability to make connections among relevant mathematical ideas.

Author/Presenter: Dr. Tanya Volkova - Saint Ambrose University, IA

2. Title: ***Teachers' Perception for New Introduction of an Alternative School into Japan: Through a Survey for Japanese Middle School English Teachers***

This mixed methods study examined how Japanese middle school English teachers perceive the new introduction of alternative middle schools into Japan. First, correlation analyses between teacher characteristics and working conditions and the perceptions on the introduction were conducted. Then, perceptions of participants, who commended the introduction, were compared with others through qualitative data.

Author/Presenter: Dr. Masashi Izumi - Western Michigan University, MI

3. Title: ***Teacher and Parent Beliefs on Bilingualism***

This qualitative study investigated how parents and teachers view bilingualism and how books can enhance language development and literacy skills of children who are acquiring languages simultaneously. The study addressed the importance and need for book reading and the role that books play in enhancing language development and early biliteracy.

Author: Ms. Rica Ramirez - University of Texas- Pan American, TX
Author/Presenter: Dr. Hilda Medrano - University of Texas- Pan American, TX
Author/Presenter: Dr. Ralph Carlson- University of Texas- Pan American, TX

August 1, 2012 - Wednesday

Time: 8:15 am – 9:45 am
Education - Art/Music

Room: Salon B - 3rd Floor
Session Chair: Dr. Nancy L. Stewart

1. Title: ***Preparing Young Children to Respond to Art in the Museum***

This thesis describes a collaborative previewing experience for two groups of five, five and six-year- old children in an art museum. Children were prepared to respond to an outdoor sculpture made of ten geometric steel shapes. They prepared to view the sculpture by exploring shapes one third the size of the sculpture's, and collaboratively solving open-ended design problems with the shapes.

Author/Presenter: Dr. Nancy L. Stewart - Brigham Young University, UT

2. Title: ***Piano Lessons on the High Seas: Recreational Music Making in a Vacation Setting***

Blending music making into a vacation setting

Author/Presenter: Dr. Linda Christensen - Wayne State College, NE

3. Title: ***Utilizing Educational Theatre as a Means of Developing Intercultural Communication***

Over the course of twelve weeks, students from two middle schools, one urban and largely made up of students of color, the other rural and largely Caucasian, partnered together to perform a full-length musical production. Student interactions were examined to determine if and how students constructed intercultural dialogues during the course of a shared artistic experience.

Author/Presenter: Dr. Suzanne Katz - Ripon College, WI

August 1, 2012 - Wednesday

Time: 8:15 am – 9:45 am
Education - Higher

Room: Salon C - 3rd Floor
Session Chair: Prof. Timm Thorsen

1. Title: *Of Termites, Hedgehogs, and Foxes: Thoughts for Higher Education*

Termin's "termites" and Berlin's "hedgehogs" represent a common, perhaps dominant, assumption in higher education—superior IQ leads to superior future accomplishment. Berlin's "foxes" work on a different assumption—an IQ threshold needs to be exceeded, but superior accomplishment requires more than just superior IQ; perhaps wisdom is required. Empirical evidence tends to give the edge to foxes and higher education needs to consider this.

Author/Presenter: Dr. Timm Thorsen - Alma College, MI

2. Title: *Student Rating of Instructors on Learning Experiences*

Institutions of higher learning are becoming increasingly under scrutiny to account for the quality of instruction they provide to students. In addition, institutions of higher learning have to meet the standards of accreditation to operate.

Author/Presenter: Dr. Tabitha Otieno - Jackson State University, MS
Author: Dr. Benjamin Ngwudike - Jackson State University, MS

3. Title: *Videotaping Nursing Skills as a Teaching/Learning Tool*

To increase the efficiency of campus skills lab, students videotaped actual performances of specific skills that were viewed by entire class for critiques. Positive experiences were identified such as observing and learning from own mistakes, observing what were done well, and aiding in confidence building in sophomore beginning BSN students.

Author/Presenter: Dr. Esther Christian Sellars - The University of Tennessee at Martin, TN
Author/Presenter: Dr. Diane Austin - The University of Tennessee at Martin, TN

HAWAII UNIVERSITY INTERNATIONAL CONFERENCES' 2012 EDUCATION, MATH AND
ENGINEERING TECHNOLOGY CONFERENCE

August 1, 2012 - Wednesday

Time: 8:15 am – 9:45 am
Education-Workshop
Secondary/Higher/Indigenous/Counselor/
Adult/Educational Psychology

Room: Kou – 3rd Floor
Session Chair: Dr. Gwen Anderson

1. Title: “*Holomua I ke Akamai*” (*Progressing Toward Intelligence!*)

An exciting, thought-provoking, highly interactive workshop session for motivating professional educators, parents and students to uncover their individual academic, personal and creative potential as they discover how the brain actually works during the learning process. Introducing Dr. Rita Smilkstein's powerful approach “Born to Learn: Using the Brain's Natural Learning Process to Create Curriculum” – this is an action-packed, multimedia approach to learning.

Author/Presenter: Dr. Gwen Anderson - Utah Valley University, UT
Author/Co-Presenter: Dr. Brett Breton – Utah Valley University, UT



August 1, 2012 - Wednesday

Time: 8:15 am – 9:45 am

Room: Milo 3 - 2nd Floor

Education-

Session Chair: Dr. Martha M. McCarthy

Policy & Leadership/Student Affairs/Teacher

1. Title: *The New Face of the Educational Leadership Professoriate*

This longitudinal study of the educational leadership professoriate analyzes changes in faculty composition, activities, and attitudes nationally since the 1980s. Implications for leadership preparation programs of changes in gender and racial composition, the increase in clinical versus tenure-line faculty, and the movement from content specialists toward leadership generalists are explored.

Author/Presenter: Dr. Martha M. McCarthy - Loyola Marymount University, LA, CA

2. Title: *Relating Perceptions of Importance of Teacher Characteristics to Future Teaching Success*

This paper reports the findings of a longitudinal study of pre-service teachers' perceptions of the importance of desirable teacher characteristics to their principal's success ratings after completion of three years of employment as a teacher. Results of the study suggest that there is a relationship between teachers' success on a collective set of effective teaching components and their pre-service education beliefs on the importance of both classroom organization and involving all students in the learning process in their future teaching career.

Author/Presenter: Dr. Bob N. Cage - Louisiana Tech University, Louisiana

Author/Presenter: Dr. Rebecca S. Watts – Capella University, Louisiana

August 1, 2012 - Wednesday

Time: 10:00 am – 11:30 am
Math - Statistics/Probability

Room: Milo 4 – 2nd Floor
Session Chair: Dr. Naima Shifa

1. Title: ***Estimating Mobile, Rare and Clustered Population Size Using Two Stage Sampling When Capture Probabilities Vary Among Animals***

In real-world situations, researchers would like to estimate a characteristic of a population by observing and collecting information from only a part of the population. In recent years, many studies have been done in nature in an attempt to estimate the population total or population density. In most of the studies the population area is divided into small plots of the same size and a random sample of these smaller plots is selected. The numbers of animals or plant species are counted on each selected plot.

Author: Dr. Naima Shifa - Indiana University-Purdue University, IN
Author/Presenter: Dr. Mamunur Rashid - Indiana University-Purdue University, IN

2. Title: ***The Average Number of Real Zeros of a Random Trigonometric Polynomial***

We give an asymptotic estimate of the number of real zeros of a certain class of random trigonometric polynomials. The coefficients of the trigonometric polynomials are products of independent normally distributed random variables and deterministic binomial coefficients.

Author/Presenter: Dr. Abdelkrim Brania - Morehouse College, GA
Author/Presenter: Dr. Kambiz Farahmand - University of Ulster Jordanstown, GA
Author/Presenter: Dr. M. Sambandham - Morehouse College, GA
Author/Presenter: Dr. Dustin Simmons - Morehouse College, GA

3. Title: ***Mathematica Simulations of Benford Distributed Random Variables***

A random variable is Benford distributed if the occurrence frequency of its most significant d digit is $P_d = \log(1 + 1/d)$. Many empirical data sets obey this law with various degrees of accuracy. It is known that certain symmetries of the probability density function are sufficient conditions for exact Benford conformance. In this paper we identified new conditions for exact Benford distributions, and constructed novel examples of such random variables. The Mathematica simulations strongly support our theoretical results.

Author/Presenter: Dr. Constantin Rasinariu - Columbia College, IL
Author: Dr. A. Khosravani - Columbia College, IL

August 1, 2012 - Wednesday

Time: 10:00 am – 11:30 am

Education - Curriculum/Research/Science

Room: Salon A – 3rd Floor

Session Chair: Dr. Reva Curry

**1. Title: *A Community Partnership Model to Support STEM Education and Career
Exploration in Urban Schools***

A community partnership model involving a small group of colleges, universities, school districts and nonprofit organizations has successfully launched after school pilots in science and mathematics in two urban areas. This has encouraged work toward a much broader goal: identifying and linking science-technology-engineering-mathematics (STEM) activities across primary, middle and high school grades and consolidating STEM resources for teachers.

Author: Dr. Basilyn Bunting - Friends of American Engineering and Science (AES), NJ

Author/Presenter: Dr. Reva Curry - Richard Stockton College, NJ

Author: Dr. Cheryl Vaughn-Jones - Richard Stockton College, NJ

2. Title: *Sustainability of Endangered Species: Queen Conch Research Refuge Ranch*

Students taking an Environmental Health class study abroad in Belize each summer to participate in conservation research to increase the declining population of the endangered Queen Conch (*Strombus gigas*). This action research project studies the Belize culture and economy, its reliance on the Queen Conch and the impact of that reliance on the environment, and collaborates with the Belize Department of Fisheries in marine conservation initiatives. This presentation will describe this ongoing research project and report on its progress.

Author/Presenter: Dr. Jody Terrell - Texas Woman's University, TX

Author/Co-Presenter: Dr. Betty Bowles - Midwestern State University, TX

Author: Dr. Marty Gibson - Midwestern State University, TX

August 1, 2012 - Wednesday

Time: 10:00 am – 11:30 am
Education-Workshop
Special Education/ Student Affairs

Room: Kou – 3rd Floor
Session Chair: Dr. Katrina Miller

1. Title: ***Multicultural vs. Transcultural: A Model for Cultural Diversity and Cultural Sensitivity in a University Clinic Setting***

In this presentation, we are going to discuss each of the above mentioned service delivery models, how Multiculturalism and Diversity are embedded in these models in training, as well as how these programs promote students' cultural competency and sensitivity working with individuals from diverse cultural background. Implications of these models in the educational training program as well as future directions will also be presented.

Author/Presenter: Dr. Katrina Miller - North Carolina Central University, NC
Author/Co-Presenter: Dr. Grace Hao - North Carolina Central University, NC
Author/Co-Presenter: Dr. Sheila Bridges-Bond - North Carolina Central University, NC
Author/Co-Presenter: Dr. Jonise Cromatie-Brown - North Carolina Central University, NC



August 1, 2012 - Wednesday

Time: 12 pm – 1:30 am
Poster Session

Room: Waikiki Ballroom
3rdFloor

1. Title: ***Using Rubrics to Assess Student Learning in Collegiate Music Courses***

Education - Curriculum, Research and Development

This poster presentation will showcase a variety of assessment tools that were developed to measure student learning in music performance, theory, and history courses. Examples include rubrics created for applied piano and voice lessons, choral ensembles, piano proficiency, arranging, theory-composition, and music history. These tools serve the dual purpose of providing feedback to students on their development of intended learning outcomes and generating meaningful information about the collective performance of students in a music program. The sample tools also show how instructors can articulate expectations through qualitative descriptors and grade student work using those descriptors.

Author/Presenter: D. M. A. Timothy Schorr - Viterbo University, WI

2. Title: ***Impact of a Movement Program on Preschoolers' Perceptual-Motor Abilities***

Education - Kinesiology & Leisure Science

The purpose of the study was to determine if a movement program implemented by preservice physical education teachers would improve selected perceptual-motor abilities among preschoolers. The presentation will discuss strategies to help preschoolers develop and maintain perceptual-motor abilities.

Author/Presenter: Dr. Seidu Sofo - Southeast Missouri State University, MO

3. Title: ***Choosing Special Education Communication Aid Apps for the Ipad***

Education - Special Education

In this presentation popular AAC apps are compared across several distinctive features for comparing AAC Apps. Using this proposed model of assessment gives the consumer a way of gathering data to aid in the decision making of choosing AAC apps.

Author/Presenter: Dr. Mark Mizuko - University of Minnesota Duluth, MN

4. Title: ***What's the connection? Linking service-learning education to health equity research in a nursing baccalaureate program in Honolulu, Hawaii***

Education - Health Education

This poster describes the first phase of a longitudinal study examining nursing students' perception of health, community members' perceptions of health, and the use of service learning to link the two. The initial phase of the research consists of surveys to determine students' perceptions of health at the end of their freshman year of an undergraduate nursing program.

Author/Presenter: Dr. Lisa Thompson, University of California, CA

Author/Presenter: Ms. Sarah Jarvis, Chaminade University of Honolulu, HI

Author/Presenter: MPH Devina Kuo, Chaminade University of Honolulu, HI

Author/Presenter: EdD, RN Stephanie Genz - University of Honolulu, HI

5. Title: ***LEAP Academy University Charter School and The Rutgers University Center for Strategic Urban Community Leadership***

Education – Secondary/Higher

Author/Presenter: Dr. Gloria Bonilla-Santiago - Distinguish Board Of Governors, NJ

6. Title: ***Relationship Marketing: How to build relationships and market yourself in the workplace***

Education – Student Affairs, Leadership Development

Author/Presenter: Mr. Kristian Castro - Towson University, MD

7. Title: ***Teaching On-line vs. Teaching in-Class: Are they really similar?***

Education – Technology

Author/Presenter: Mr. Michael Mikhael - William Paterson University, NJ

8. Title: ***Tougaloo College Robert Noyce Scholars Program***

Education – Science Education/Teacher Education

Author/Presenter: Dr. Pamela Russ - Tougaloo College, MS

9. Title: ***Architecture and Human Identity***

Education: Art and Contemporary Architecture

Author/Presenter:

Prof Francesca Serri - Texas A&M University Santa Chiara Univ. Campus, Italy

Arch. Paolo Bulletti - Texas A&M University Santa Chiara Univ. Campus, Italy

10. Title: ***Service learning in an interior design studio: A comparison of outcomes***

Education: Curriculum, Research and Development,

Author/Presenter: Rosemary Peggram, Ed.D - Texas Tech University, TX

Author/Presenter: Ms. Abigail Dickinson - Texas Tech University, TX

11. Title: ***Learners' Perceptions of Persian Culture through Film***

Education: Cultural Studies/Foreign Language Studies

Author/Presenter: Ms. Shahla Adel - University of North Carolina at Chapel Hill, NC

12. Title: ***Using empirical research to improve reading proficiency of African-American males with dyslexia.***

Education: Reading Education and Special Education

Author/Presenter: Mr. Shawn Anthony Robinson M.Ed - Cardinal Stritch University

13. Title: ***Teaching Number Sense: Examining the effects of number sense on mathematics competence of kindergarten students***

Education: Curriculum Research and Development

Author/Presenter: Sheetal Sood - University of Hartford, CT

Author/Presenter: Megain Mackey - University of Hartford, CT

14. Title: ***Lessons on Boys and Girls: Gender Ideology in U.S. High School Social Studies Education.***

Education: Curriculum

Author/Presenter: Susan W. Woolley - University of California, Berkeley, CA

15. Title: ***Culturally Responsive Leadership and Social Capital: A Framework for Closing the Achievement Gap***

Education: Educational Leadership; Educational Administration

Author/Presenter: Dr. Alisa Taliaferro - North Carolina Central University, NC

16. Title: ***Heating Kodiak: A Biomass Solution***

Math - Renewable Conventional Energy Sources, Entrepreneurship Development

U.S. Coast Guard, Base Support Unit Kodiak, AK will be converting from a central oil heating system to a wood pellet biomass heating system in order to reduce cost and environmental impacts. The poster presentation will discuss the amount of biomass required to replace traditional fuel oil and the supply complexities associated with the project.

Author: ENS Amanda Cost- United States Coast Guard Academy, CT
Author: ENS Michelle Leclerc - United States Coast Guard Academy, CT
Author: ENS Stephen Taylor - United States Coast Guard Academy, CT
Author: ENS Bohdon Wowtschuk - United States Coast Guard Academy, CT
Author/Presenter: CDR Charles Hatfield - United States Coast Guard Academy, CT
Author/: LCDR Dan Ursino - United States Coast Guard Academy, CT
Author/Presenter: ENS Amy Kelly - United States Coast Guard Academy, CT

17. Title: ***Reactive Rimming Flow of Non-Newtonian Fluid***

Math - Applied Mathematics, Computational Mathematics

The steady and unsteady flow of a liquid polymer treated as a non-Newtonian fluid on the inner surface of a horizontal rotating cylinder is investigated. Governing equations for non-steady power-law and Ellis fluids are derived and solved numerically.

Author/Presenter: Dr. Sergei Fomin - California State University, Chico, CA
Author: REU Students - California State University, Chico, CA

18. Title: ***Casting molds made easy with 3-D prints***

Math - Engineering Technology

3-D printing with casting powders can be used to provide a quick learning experience for students in the casting process class.

Author/Presenter: Dr. Ng Boon-Chai - Andrews University, Michigan
Author/Presenter: Mr. Arnold Chand - Andrews University, Michigan

20. Title: ***Supercritical Carbon Dioxide Energy Recovery Cycle***

Math - Renewable and Non-renewable Conventional Energy Sources

Overview of thermodynamic analysis for supercritical carbon dioxide waste heat recovery cycle. Design and selection of key system components

Author/Presenter: Dr. Kevin Anderson - California State Polytechnic University, Pomona, CA

Author/Presenter: Mr. Daniel Forgette - California State Polytechnic University, Pomona, CA

Author/Presenter: Mr. Ryan A. Okerson - California State Polytechnic University, Pomona, CA

Author/Presenter: Mr. Mathew DeVost - California State Polytechnic University, Pomona, CA

Author/Presenter: Mr. Trent Wells - California State Polytechnic University, Pomona, CA

21. Title: ***Teaching Physics in America***

Education - Cross-disciplinary

Differences in Physics education in Russia and USA were identified and discussed. Challenges experienced by students in each country were compared. Road of adjusting to a new teaching environment and new student's type was described. Long term advantage of student's exposure to diverse teaching methods was established.

Author/Presenter: Dr. Elena Gregg - Oral Roberts University, OK

August 01 2012 – Wednesday

Time: 12:45 pm – 2:15 pm
Math – Industrial Engineering

Room: Milo 4 - 2nd Floor
Session Chair: Dr. Dean S. Hartley III

1. Title: *Using Ontologies in Conceptual Model Validation*

The ideal for Verification, Validation and Accreditation (VV&A) of a model is to demonstrate that it is “correct,” or at least correct for some use. For extremely complex models, Verification and Validation (V&V) may be essentially impossible, requiring the substitution of “suitable” for “correct.” For models of social interactions, e.g., war, peace keeping, nation building, etc., the theoretical basis of the social sciences does not support many decisions on “correctness.” For these models, V&V concentrates on improving the users’ understanding of the model – its good and bad points. One part of the validation process (of the conceptual model) devolves to an examination of the theoretical support that does exist.

Author/Presenter: Dr. Dean S. Hartley III, Hartley Consulting

2. Title: *Quality Assessment of A Generic Filling Operation by Loss Function and Quality Sampling Plan*

This paper deals with the filling process of a liquid generic medicine in a pharmaceutical company where quality control is implemented by sampling periodically. According to Federal regulation, all liquid generic medicines cannot be under-filled (under the lower specification limit LSL). The company’s products are classified into two different categories: Class A and Class B, based on whether an upper specification limit (USL) may be exceeded. Both products cannot be filled below the lower spec limit. However, product A has an USL while product B has no USL restriction. To evaluate the filling process of the pharmaceutical company, Taguchi’s loss function and the sampling plan currently used by the company are considered to develop the assessment on the expected quality loss for symmetric and asymmetric quality loss functions for optimization of process mean and sampling plan design.

Author/Presenter: Dr. Guangming Chen, Morgan State University, Maryland
Co-author/Presenter: Dr. Andrew Ezekiel, Morgan State University, Maryland

3. Title: *Reliability Modeling of NASA McMurdo Antenna System with Engaging Graduate Students in Research*

The increasing complexity of system reliability such as the antenna system at McMurdo Ground Station calls for a more proactive reliability and maintainability approach. This research deals with the use and the importance of reliability and availability study in a complex system, integrated with the training of graduate students. With the help of the software, the reliability and availability model of NASA McMurdo antenna system is developed and analyzed. The reliability model and service availability of the McMurdo antenna system is critical and important due to the very limited accessibility of the McMurdo facilities at a remote and weather-harsh location. Through the developed model, a risk level is assigned to the components associated with the system. These component’s contributions to the system availability are also analyzed and mission critical components are identified.

Author/Presenter: Dr. Guangming Chen, Morgan State University, Maryland
Co-author/Presenter: Mr. Oluseun Omotoso, Morgan State University, Maryland

4. Title: ***Real Analytic Metrics on S^2 with Total Absence of Finite Blocking***

If (M, g) is a Riemannian manifold and $(x, y) \in M \times M$, then a set $P \subset M \setminus \{x, y\}$ is said to be a blocking set for (x, y) if every geodesic from x to y passes through a point of P . If no pair (x, y) in $M \times M$ has a finite blocking set, then (M, g) is said to be totally insecure. We prove that there exist real analytic metrics h on S^2 such that (S^2, h) is totally insecure.

Author/Presenter: Dr. LiHui Liu - Taiwan Republic of China

Co-author/Presenter: Dr. Marlies Gerber - Taiwan Republic of China

August 1, 2012 - Wednesday

Time: 12:45 pm – 2:15 pm
Math – Engineering Technology

Room: Milo 5 - 2nd Floor
Session Chair: Dr. Andreou Spyros

1. Title: ***A Matrix Approach to Plotting Second-Order Differential Equations Using LSIM and ODE23 Matlab Functions***

In this experimentation, a differential equation is converted into a matrix form in order to satisfy the requirements for the functions being used in MATLAB. A second-order differential equation is converted into two first-order differential equations. This method requires knowledge of Linear Algebra; however, a lot of information is provided regarding the system such as stability, physical properties and an insight of its behavior after some time giving the designer the opportunity to design other parts for the system such as controllers or observers. The classical methods such as Laplace Transforms will not provide all this information.

Author/Presenter: Dr. Andreou Spyros, Savannah State University
Co-author/Presenter: Dr. Jonathan Lambright, Savannah State University
Co-author/Presenter: Dr. Lemma Mulatu, Savannah State University

2. Title: ***CAE in the area of project management***

This presentation describes the design of a robot translational axis, using CAE-techniques. For the application in a steel mill, the construction performs the gate actuation of canisters.

Author/Presenter: Prof. Dr. Michael Schuth - University of Applied Sciences, Trier, Germany
Author/Presenter: Prof. Dr. Frank Vössing - Dipl-Ing, Germany

3. Title: ***Construction of Agricultural Robot Platform***

Abstract. In this paper, we prove that if the first order deformation of the pair of a hypersurface $f_0 \subset \mathbf{P}^n$ and an imbedded rational curve $C_0 \subset \text{div}(f_0) \subset \mathbf{P}^n$ exists in some directions, then

$$H^1(N_{C_0/\text{div}(f_0)}(1)) = 0,$$

where $N_{C_0/\text{div}(f_0)}(1) = N_{C_0/\text{div}(f_0)} \otimes \mathcal{O}_{\mathbf{P}^n}(1)|_{C_0}$.

Author/Presenter: Dr. YongHui Wang, Prairie View A & M University, Texas
Co-author/Presenter: Dr. Suxia Cui, Prairie View A & M University, Texas
Co-author/Presenter: Dr. Jian-ao Lian, Prairie View A & M University, Texas

4. Title: ***Assessment of Teaching and Learning of Mathematics in Undergraduate Social Sciences***

This paper is an experiential case study of the learning and teaching of Mathematics, specifically Algebra, in the undergraduate remedial courses of MTH1105 for a general education program in the context of a developing country like Kenya. The case study covers a period of over five years of the teaching of Algebra in this program. The study provides an overview of observed problems in the teaching and learning of mathematics in the undergraduate general education program, specifically, the MTH1105 remedial courses.

Author/Presenter: Prof. Francis Wambalaba, US International University, Kenya

Co-author/Presenter: Dr. Moses A. Odendo, US International University, Kenya

August 1, 2012 - Wednesday

Time: 12:45 pm – 2:15 pm
Education-Cross-disciplinary/Teaching/Urban

Room: Salon A – 3rd Floor
Session Chair: Dr. Ivan Markov

1. Title: ***Hands-On Approach to Cross-Disciplinary Teaching***

This paper proposes strategies to overcome challenges in cross-disciplinary teaching. It describes the advantages of building and load-testing physical models in structure classes of architectural curricula. The School of Architecture at Rensselaer Polytechnic Institute offers two required structural courses, each with distinct projects and objectives. In Structure 1, students examine the performance of a linear structure in the form of a pedestrian bridge constructed as an assemblage of mass-customized modules. Students are required to resolve the module topology and test the performance of the assembled structure. In Structure 2, students investigate the performance of a volumetric structure—a multistory building with a cantilevered volume. In both projects, architectural creativity is integrated with structural logic, with both aspects being of equal importance in assessing the students' performance.

Author/Presenter: Dr. Ivan Markov - Rensselaer Polytechnic Institute, NY

2. Title: ***The Power of One: A Case Study of Daniel's Endeavor to Make a Difference***

In many instances, men of African descent have reified for others age old stereotypes as beings who are ominous, violent, and predisposed to carrying out acts that are self-destructive and catastrophic. However, a scant body of literature documents and refutes notions that Black men are promiscuous, shiftless, reckless, and irresponsible human beings, rather suggesting they are among the more commonly misunderstood populations in the United States and wider culture. This qualitative, singular case study chronicles the experiences of Daniel, an African American man who mentors adolescent black males and endeavors to assist them with positive identity construction, as well as to prepare them for reorienting to society subsequent to their release from the juvenile penal system.

Author/Presenter: Dr. Anthony A. Pittman - Kean University, NJ

3. Title: ***Getting ESL/EFL Students to Ask Question and Make Comments in the Classroom***

There are several ways to ensure that a teacher will get questions after asking, "Any Questions?" This paper will describe successful techniques to get students to ask questions and make comments in the classroom. These techniques involve both verbal and non-verbal skills on the part of the teacher.

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

August 1, 2012 - Wednesday

Time: 12:45 pm – 2:15 pm
Education- Language

Room: Salon B – 3rd Floor
Session Chair: Dr. Anna Gąsienica-Byrcyn

1. Title: ***Ballads in Polish Advanced and Heritage Classes***

The use of a ballad in the advanced and heritage Polish composition classes offers a resourceful, motivating, and original way of learning the language and culture, primarily in mastering writing skills and understanding Poland's rich and complex cultural links with Lithuania and Ukraine. A chosen ballad, such as Adam Mickiewicz's Lilies is presented in class for listening exercises, reading, recitation, discussion, and especially creative writing.

Author/Presenter: Dr. Anna Gąsienica-Byrcyn - University of Illinois at Chicago. IL

2. Title: ***Chat Discussions in Foreign Language Vocabulary Productivity***

This research paper observes the effect of electronic (chat room) as opposed to traditional classroom interactions with the primary objective of increasing vocabulary productivity in beginning Spanish classes.

Author/Presenter: Dr. Luisa C. Perez - Emporia State University. KS

3. Title: ***The Effect of Inquiry Learning on the Cognitive Academic Language Proficiency Skills of 5th Grade Bilingual Students***

The issues that prompt this study are based on current research indicating the positive effects of inquiry learning on the cognitive development of children. The purpose of this year-long case study is to understand the effect of guided inquiry learning on the cognitive academic language proficiency skills (CALPS) of 5th grade bilingual students in a French immersion program. Preliminary findings indicate a significant mean increase in English and French CALPS, as well as increased achievement in English written concepts and math skills.

Author/Presenter: Dr. Cheryl Marie McElvain - Santa Clara University. CA
Author: Dr. Heidi Smith - International School of the Peninsula, CA

August 1, 2012 - Wednesday

Time: 12:45 pm – 2:15 pm
Education - Business

Room: Salon C – 3rd Floor
Workshop

1. Title: *Innoventure, Innovation in Entrepreneurship Education*

This workshop will highlight the Innoventure Program, an innovative method of teaching entrepreneurship to secondary students. New Mexico State University (NMSU) Innoventure is focused on encouraging teamwork to solve real-life problems as well as giving students the opportunity to learn more about entrepreneurship and innovation. The program nurtures a new generation of innovators with skills in technical design along with business, marketing and financial savvy. Since its inception the program has grown to over 250 participants yearly throughout the state of New Mexico. The workshop will cover lessons learned and best practices in developing state-wide education programs.

Author/Presenter: Dr. Marie Haaland Borchert - New Mexico State University, NM
Author: Dr. Sara Pirayesh Sanders - New Mexico State University, NM
Author: Dr. Erika Dunn - New Mexico State University, NM



August 1, 2012 - Wednesday

Time: 12:45 pm – 2:15 pm
Education – Distance Edu/Technology

Room: Kou – 3rd Floor
Session Chair: Dr. Dak Kopec

1. Title: ***The Capacity of Online Methods to Facilitate Social Bonding, Brainstorming, and Integrative End Products***

This presentation will discuss the strengths and weaknesses of on-line education as a viable medium to promote social bonding, brainstorming, and integrative end products. The basis for this analysis is that businesses and corporations routinely require collaboration and teaming, which tends to call upon brainstorming sessions that occur at a predetermined time or as impromptu discussions. Teaming, coupled with the brainstorming, often results in a single seamless and integrative end product that is formed from the ideas and thoughts of the group. Given the constraints of an online education, one has to question the online platform's ability to nurture these skills.

Author/Presenter: Dr. Dak Kopec - Radford University, VA

August 1, 2012 - Wednesday

Time: 2:30 pm – 4:00 pm
Math – Discrete Mathematics

Room: Milo 4 - 2nd Floor
Session Chair: Dr. Emil Daniel Schwab

1. Title: *The Computation of the Mobius Function of a Mobius Category*

We present some results for reducing the computation of the Möbius function of a Möbius category that arises from a combinatorial inverse semigroup to that of locally finite partially ordered sets.

Author/Presenter: Dr. Emil Daniel Schwab, University of Texas – El Paso.
Co- author/Presenter: Dr. Juan Villarreal, University of Texas – El Paso.

2. Title: *Applications of Tree Expressions for Atom and Bond*

Tree expressions generalize continued fractions. We motivate the definition of a tree expression and provide a connection between tree expressions and quotients of determinants of specialized matrices. Finally, we demonstrate two applications of tree expressions for classifying atoms and bonds in chemical compounds by their local environments.

Author/Presenter: Dr. Mathew Hudelson, Washington State University, WA

3. Title: *Linear Algebra and It's Applications- On the Reduced Signless Laplacian Spectrum of a degree maximal graph.*

For a (simple) graph G , the signless Laplacian of G is the matrix $A(G) + D(G)$, where $A(G)$ is the adjacency matrix and $D(G)$ is the diagonal matrix of vertex degrees of G ; the reduced signless Laplacian of G is the matrix $\Delta(G) + B(G)$, where $B(G)$ is the reduced adjacency matrix of G and $\Delta(G)$ is the diagonal matrix whose diagonal entries are the common degrees for vertices belonging to the same neighborhood equivalence class of G . A graph is said to be (degree) maximal if it is connected and its degree sequence is not majorized by the degree sequence of any other connected graph. For a maximal graph, we obtain a formula for the characteristic polynomial of its reduced signless Laplacian and use the formula to derive a localization result for its reduced signless Laplacian eigenvalues, and to compare the signless Laplacian spectral radii of two well-known maximal graphs. We also obtain a necessary condition for a maximal graph to have maximal signless Laplacian spectral radius among all connected graphs with given numbers of vertices and edges.

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Author/Presenter: Prof. Shu-Hui Wu, Taipei College of Maritime Technology,
Co-author/Presenter: Dr. Bit-Shun Tam, Taipei College of Maritime Technology,

August 01 2012 – Wednesday

Time: 2:30 pm – 4:00 pm

Room: Milo 5 - 2nd Floor

Math – Optimization Technologies/Computer

Session Chair: Dr. Wenshen Pong

1. Title: *Online Due Date Quotation for Heavily Loaded Flow Shops*

The paper focuses on online due date setting and job sequencing for heavily loaded flow shops. The asymptotic performance of the proposed algorithm is analyzed to indicate the expected outcome when it is applied to large-size instances.

Author/Presenter: Dr. Wenshen Pong, San Francisco State University.

Co- author/Presenter: Dr. Zu-Hsu Lee, Marist College, New York.

HAWAII UNIVERSITY INTERNATIONAL CONFERENCES' 2012 EDUCATION, MATH AND
ENGINEERING TECHNOLOGY CONFERENCE

August 1, 2012 - Wednesday

Time: 2:30 pm – 4:00pm

Room: Salon A – 3rd Floor

Education-

Session Chair: Dr. Jane Crossley

Higher/Administration/Cross-disciplinary

1. Title: ***African American Women's Struggles in Higher Education: Addressing the Issues of Institutional Racism and Sexism***

The history of African American Women in higher education is one of our nation's most shameful stories. It is really a story of our nation's struggle to overcome overt and institutional racism and sexism.

Author/Presenter: Dr. Jane Crossley - Chicago State University, IL

2. Title: ***The Professional Exploration Program: An Alternative Law School Admission Process***

The article evaluates the successfulness of a law school alternative admission program. Program participants were denied admission to our law school because their credentials did not meet our minimum threshold for acceptance. They were, however, invited to participate in this program. If they did well in the program, they were granted admission. The goal of the evaluation was to see how effective our institution is at predicting, through an alternative admissions mechanism, which participants would be successful law students.

Author/Presenter: Dr. Linda Kisabeth - Thomas M. Cooley Law School, Lansing, MI

3. Title: ***A Continuum of Professional Development: A Role for Higher Education in National Board Support***

Change is difficult. The standard-based education movement was difficult for the K-12 population of educators, but on some levels, it was more difficult for higher education. However, what better undertaking for an IHE than to continue to assist practitioners to develop professional quality than by providing support through the authentic assessment of NBPTS?

Author/Presenter: Dr. Lynn Hines - Western Kentucky University, KY

Author: Dr. Sam Evans - Western Kentucky University, KY

August 1, 2012 - Wednesday

Time: 2:30pm – 4:00pm

Room: Salon B – 3rd Floor

Education- Workshop

Teacher Education, Curriculum, Research and
Development, Educational Technology

1. Title: *Alabama Learning Exchange (ALEX)*

Explore the award winning Alabama Learning Exchange (ALEX) web portal! It provides access to quality instructional lesson plans and podcasts that have been developed by educators and aligned to state teaching standards. The portal also includes web resources, a collaborative workspace for educators, custom search tools, blogs, list serves, and a professional development component.

Author/Presenter:	Ms. Tiffany Davis -	Alabama Supercomputer Authority
	Dr. Stephanie Barid -	ALEX Program Manager
		University of Alabama at Birmingham, AL
		Alabama Department of Education, Technology Section, AL



August 1, 2012 - Wednesday

Time: 2:30pm – 4:00pm
Education-Teacher/Science/Educational
Technology/Service Learning

Room: Salon C– 3rd Floor
Session Chair: Dr. Dennis Duncan

1. Title: ***Teaching Efficacy: A Comparison of Traditionally and Alternatively Certified CTE Teachers in [State]***

The purpose of this study was to examine [state] career and technical education (CTE) teachers' perceived levels of efficacy as related to the domain of teaching and learning, both for traditionally and alternatively certified teachers with 10 or less years of teaching experience. Efficacy – as defined by Bandura (1977) was examined for early to mid-career CTE teachers across two groups, those who completed a traditional teacher preparation program (T-prep, n1 = 159), and those who completed an occupational teacher preparation program (O-prep, n2 = 67).

Author/Presenter: Dr. Dennis Duncan - University of Georgia, GA
Author/Co-Presenter: Dr. John Cannon - University of Idaho, ID
Author: Dr. Allen Kitchel - University of Idaho, ID

2. Title: ***Service Learning: Creating Authentic Experiences for Teachers in Training***

This article describes one attempt to incorporate HETE (Health Education Teacher Education) and PETE (Physical Education Teacher Education) pre-service teachers into a service learning experience in a reading lab in an urban setting with elementary and middle school students. The outcomes of the project show how mentoring, engaging experiences and efforts to increase self-efficacy were put to work for teachers in training.

Author/Presenter: Mr. Terry A. Silver - The University of Tennessee at Martin, TN

3. Title: ***Effects of Implementing a Formative Assessment Initiative***

This qualitative case study examined a voluntary series of formative assessment workshops offered at one public middle school designed to enhance school-wide practice. Results indicated growth in capacity among volunteers. Non-participating teachers also reported greater use and understanding of formative assessment. Implications for practice, leadership and further research are discussed.

Author/Presenter: Dr. Tom A. Stewart - Austin Peay State University, KY

August 1, 2012 - Wednesday

Time: 2:30pm – 4:00pm

Education- Workshop

Health Education; Health Communication,
Theatre Education

Room: Kou– 3rd Floor

Session Chair: Dr. Judith Babnich

1. Title: *Theatre Education Facilitates Health Provider- Client Interactions*

Effective communication between health care providers and clients is essential for successful, compliant, patient-centered care and health education in all health care settings. Dr. Judith Babnich, PhD., Professor of Theatre at Wichita State University, is collaborating with the Mahoning County Health Department in Youngstown, Ohio, to pilot her research that suggests that theatre education concepts may be more helpful than traditional communication course preparation for effective health care provider-client interactions.

Author/Presenter: Dr. Judith Babnich - Wichita State University, KS

Author/Co-Presenter: Dr. Diana M. Colaianni - Mahoning County Health Department, OH



August 2, 2012 - Thursday

Time: 8:15 am – 9:45 am
Math – Mathematics/Algebra

Room: Milo 4 – 2nd Floor
Chair: Dr. Abdulmajeed Abdurrahman

1. Title: *The Ward-like Identities and Bose-Fermi Equivalence in the Comma Theory*

The bosonic representation of the comma ghost in the full string basis is examined in full. The proof that the comma 3- vertex (matter and ghost) in the bosonic representation satisfy the Ward like identities is established thus completing the proof of the Bose Fermi equivalence in the comma theory.

Author/Presenter: Dr. Abdulmajeed Abdurrahman, Shippensburg University of Pennsylvania
Author: Dr. M.Gassem, Shippensburg University of Pennsylvania
Author: Dr. J.Bordes, Shippensburg University of Pennsylvania

2. Title: *The Conformal Operator Connecting the Split StringField Theory and the CVS Field Theory.*

In this paper we construct the operator connecting the three vertex in Split string .eld theory and the dual model vertex of Sciuto, Caneshi, Schwimmer and Veneziano (SCSV). This construction results in an explicit conformal transformation linking the two interactions in the matter sector at all levels. Thus establishing the equivalence between the two theories at least for $N = 3$. Furthermore the construction of the conformal operator leads to important identities between the infinite dimensional change of representation matrices between the Split Field theory and Witten's string theory. These identities turn proved to be an essential tool in establishing the Bose-Fermi equivalence of the two theories.

Author/Presenter: Dr. Abdulmajeed Abdurrahman, Shippensburg University of Pennsylvania
Author: Dr. M.Gassem, Shippensburg University of Pennsylvania
Author: Dr. J.Bordes, Shippensburg University of Pennsylvania

3. Title: *Obstruction to Deformations of Pairs of Rational Curves and Hypersurfaces.*

In this paper we prove that the twisted normal bundle of a rational curve in a hypersurface vanishes if the rational curve deforms to the first order in some directions of the deformations of hypersurfac .

Author/Presenter: Dr. Wang Bin, Rhode Island College.

4. Title: *The Determinant of An "Augmented Vandermonde Matrix".*

In this paper, we study a Vandermonde type of determinants. We prove an explicit formula for this type of determinants and the property of anti-symmetry. The results have applications in algebraic geometry and Arithmetic geometry, but it could potentially have applications in other fields where the Vandermonde type of determinants is encountered.

Author/Presenter: Dr. Wang Bin, Rhode Island College.
Author: Dr. L. Humphreys, Rhode Island College.

August 2, 2012 - Thursday

Time: 8:15 am – 9:45 am

Education - Special

Room: Salon A – 3rd Floor

Session Chair: Dr. Hedwig Fraunhofer

1. Title: ***Using Manipulatives in Concrete-Abstract Mathematics Instruction of First Grade Alternative Learners***

Based on the existing literature, the question to be answered was: Will a shortened CSA (Concrete-Semiconcrete-Abstract) approach without the semi-concrete level, using only concrete manipulatives and subsequently abstract symbols, increase mathematical achievement in first grade alternative learners with low performance scores in math? The present study demonstrates not only the effectiveness of manipulatives in math instruction of first-grade alternative learners, but suggests also that in terms of results, there seem to be no significant differences between a CSA approach and a C-A approach closely modeled on the former.

Author/Presenter: Mr. Roy L. Cordell - Georgia College, GA

Author/Presenter: Prof. Hedwig Fraunhofer - Georgia College, GA

2. Title: ***Whited Out: Examining Diversity (or Lack Thereof) in Collegiate Honors Programs***

Do Black students deliberately downplay their intelligence to avoid being accused of “acting White?” Is it true that intelligent Black students believe they must cross cultural and racial boundaries in order to be successful in academic settings? This study attempts to answer the preceding questions by exploring the experiences of Black current and former honors students related to race, achievement, and social engagement.

Author/Presenter: Dr. Anthony Pittman - Kean University, NJ

August 2, 2012 - Thursday

Time: 8:15 am – 9:45 am
Edu – Technology

Room: Salon B – 3rd Floor
Session Chair: Dr. Robin Love

1. Title: ***There's an App for That: Use of iPads in a College Classroom***

This project describes the experience of using iPads with students in an undergraduate course and discusses the effectiveness of this technology as an instructional tool. Student engagement, collaboration, learning, and attitudes about technology were assessed.

Author/Presenter: Dr. Robin Love - San José State University, CA

2. Title: ***Technology and Education: Are We Teachers, Commoditiess or Visionairies?***

Is HAL 9000 already in charge of society? Has the tyranny of technology stolen the soul of education? It can and will, so quickly we won't know if it has happened until it is too late.

Author/Presenter: Dr. Riley Maynard - Southern Illinois University Edwardsville, IL

August 2, 2012 - Thursday

Time: 8:15 am – 9:45 am
Edu – Science/Higher

Room: Salon C – 3rd Floor
Session Chair: Dr. Jerlando F. L. Jackson

1. Title: ***Rising STEM Occupational Demands and Low African American Participation in Arizona's Scientific Workforce: Do Attitudes Toward STEM College Majors and Careers Matter?***

This essay uses results from the State of Black Arizona STEM Attitudes Survey (SBASAS) to explore whether African Americans' attitudes toward STEM college majors and careers matter regarding their presence in the state's scientific workforce. Applying logistic regression analysis, our results reveal the importance of career consideration, confidence in one's ability to be successful in STEM fields, and family support for the pursuit of STEM education and careers.

Author/Presenter: Dr. Jerlando F. L. Jackson - University of Wisconsin, WI
Author/Presenter: Dr. LaVar J. Charleston - University of Wisconsin, WI
Author/Presenter: Dr. Lewis W. Chance - University of Wisconsin, WI
Author/Presenter: Dr. Juan E. Gilbert – Clemson University, SC
Author/Presenter: Dr. Logan P. Middleton – University of Wisconsin, WI

2. Title: ***Learning Model: Varying Time, Content in Graduate Teacher Education***

Bloom's Mastery Learning need not just be applied to P-12 students. IHE's Schools of Education must recognize that traditional methods of teaching and learning are unsuccessful for many students. The research and implementation studies on mastery learning can be correlated and applied to adult learning to produce significant, positive effects in teacher quality and proficiency in the areas of content, pedagogy, and dispositions. A change from traditional curriculum and instruction models and adoption of a new method will require major restructuring of how teachers are prepared and empowered. IHE's have the task to determine what is required to be successful in the twenty-first century, and then evaluating research, outcomes, and discussions of what methods would best be implemented to meet each individual's needs. Mastery within the context of university credits and courses are exemplified in the new Teacher Leader Masters' Program at Western Kentucky University.

Author/Presenter: Dr. Lynn Hines - Western Kentucky University, KY

3. Title: ***Gauging English learners' Science Talk in the Primary Grades***

In this paper we unpack an assessment tool we term the Science Oral Proficiency Interview (SOPI). As part of a larger research project, the SOPI was developed with the intention of gathering data on English learners' science understandings that might not be captured through traditional paper and pencil assessments. In this paper we introduce the tool and initial results about English learners language and science understanding development.

Author/Presenter: Dr. Marco A. Bravo - San Francisco State University, CA

August 2, 2012 - Thursday

Time: 8:15 am – 9:45 am
Education – Policy & Leadership

Room: Kou –3rd Floor
Workshop

***Collaborating for Increased Student access and Success in College through Educational Partnerships:
What Mattered in Success***

This session will share lessons learned through a successful university-school district partnership to promote greater college access and success. Challenges of P-16 efforts will be explored and common elements of success of the partnership will be shared. 98% of 1237 high school graduates in nine rural schools who predominately served students from low income homes were accepted gained admission to college. Follow-up results of factors affecting attendance and success the first year will also be shared.

Author/Presenter: Dr. Betty Alford - Stephen F. Austin State University, TX



August 2, 2012 - Thursday

Time: 9:45 am – 11:15 am
Education – Special/Policy & Leadership

Room: Salon A – 3rd Floor
Workshop

Educational Justice, Transformative Leadership Practices, and Special Needs Students

This mixed methods study investigated the extent to which transformative leadership practices of school administrators were considered with particular regard to special needs students in various public schools in Southern California. The study presents important transformative leadership realizations for male and female, culturally diverse, and varying levels of administrators as well as teachers who work with special needs students.

Author/Presenter: Dr. Gregory Minton - University of Redlands, CA

Author/Presenter: Dr. Alayne Sullivan - University of Redlands, CA



August 2, 2012 - Thursday

Time: 9:45 am – 11:15 am
Education – Music

Room: Salon B – 3rd Floor
Session Chair: Dr. Joseph Cancellaro

1. Title: ***High School All-State Musicians' Interest in the Music Professions***

A survey was administered to high school All-State musicians (N = 2005) in 5 different states (MT, WY, SD, MN, and ND) and from 3 different performing groups (Bands, Choirs, and Orchestras) to determine the number of high school students with an interest in the music or music education professions from the best high school musicians available. The primary intent was to determine the number of high school students with an interest in the music or music education professions from the best high school musicians available. The study also attempted to identify reasons All-State music students would not pursue a career in music or music education, and what, if anything, could be changed to make the professions more attractive.

Author/Presenter: Dr. Randall D. Royer - Black Hills State University, SD

2. Title: ***An Investigation of the Relationships between Mathematics and Music Skills of Students Participating in Successful High School Instrumental Music Programs***

This phenomenological narrative inquiry of 10 mathematics teachers and 10 band or orchestra directors of successful high school instrumental music programs revealed their perceptions as to mathematics and music skills having shared commonalities that could be integrated into the math classroom. Additionally, the results of this study demonstrated these participants believed that participating in a successful instrumental music program was a positive experience for students, producing students with stronger behavioral, emotional, and organizational skills than non-instrumental musicians.

Author/Presenter: Ed.D. Scott Deppe - Mary Morgan Moore Department of Music, TX

3. Title: ***Sound Pools***

This paper presents various ways in which sound and music representation can generate new musical constructs for composers and musicians and the use of technology to teach such an approach.

Author/Presenter: Dr. Joseph Cancellaro - Columbia College Chicago, IL

August 2, 2012 - Thursday

Time: 9:45 am – 11:15 am

Education – Higher

Room: Salon C – 3rd Floor

Session Chair: Dr. Jane Crossley

1. Title: ***The issue of teaching Character Education to Elementary and Secondary Education Level Students: Are our teachers prepared?***

A tremendous amount of research based on character education has been conducted, particularly related to the roles schools should play, but very little research is available on teachers' readiness in teaching character education.

Author/Presenter: Dr. Jane Crossley - Chicago State University, IL

2. Title: ***Private Universities in Uganda: Issues and Challenges.***

Private Universities have long been a central element of higher educational systems in various regions and countries in the world. The phenomenon is however, a recent development in Sub-Saharan Africa where it only emerged in the 1990s' following the implementation of neo-liberal policies which led to major reductions in funding for public universities. The purpose of this study is to investigate private universities in Uganda. Questions to be addressed are:

1. How are issues such as accreditation, governance, curriculum, funding, community service, equity and access handled?
2. What challenges do the universities face?

Author/Presenter: Dr. James Ochwa-Echel - Eastern Illinois University, IL

ACKNOWLEDGEMENTS

Hawaii University International Conferences would like to thank the following people who have made our 2012 Education, Math and Engineering Technology a success!

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. Terry Bustillos
Dr. Charlotte Mills
Dr. Anita Askew
Dr. Toni E wissestad
Dr. Young yu
Dr. Dunn Derek
Dr. Ivan Markov
Dr. Gwen Anderson

Dr. Keven Anderson
Capt. Dr. Charles Hatfield
Dr. Hasina Huq
Dr. valencia Joyner Koomson
Dr. Tabrizi Nasseh
Dr. Naima Shifa
Dr. Lemma Mulatu

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. Alberta Yeboah
Dr. Anna Gasienica-Byrcyn
Dr. Annie Yih
Dr. Boon-Chai Ng
Dr. Clifford J. Bieberly
Dr. Dak Kopec
Dr. Derek Dunn
Dr. Dianne Barret
Dr. Dina Pacis
Dr. Dominique Cheenne
Dr. Jane Crossley
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Dr. Hedwig Fraunhofer
Dr. Isela Almaguer
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Dr. Jhon Jabaghourian
Dr. John Cannon
Dr. Jolanta Jonak
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Dr. Lee C. Payton
Dr. Lynn Hines - 2
Dr. Martha M. McCarthy
Dr. Mary Anne Weegar
Dr. Morris K. LaDonna
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Dr. Jerry Bowman

ALL PARTICIPANTS

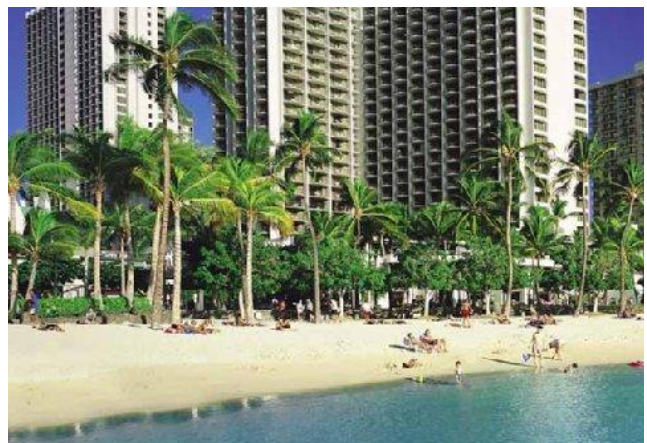
We also want to thank each and every one who attended our conference for their contributions to the knowledge bases presented and the interactions of all attendees who generously shared their knowledge and experiences to enhance the conference experience for all who attended. We hope to see all of you 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!



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ADDENDUM

1. *Dr. Gwen Anderson – Utah Valley University (formerly Utah Valley State College), UT*

FROM August 1st at 8:15 am – 9:45 am Kou room – 3rd Floor (from page 48)

*MOVED TO July 31st at 12:45 pm – 2:15 pm Salon C room – 3rd Floor (to page 31)
Title: “Holomua I ke Akamai” (Progressing Toward Intelligence!)*

WORKSHOP

Synopsis: An exciting, thought-provoking, highly interactive workshop session for motivating professional educators, parents and students to uncover their individual academic, personal and creative potential as they discover how the brain actually works during the learning process. Introducing Dr. Rita Smilkstein’s powerful approach “Born to Learn: Using the Brain’s Natural Learning Process to Create Curriculum” – this is an action-packed, multimedia approach to learning.

2. *Dr. Gwen Anderson – Utah Valley University (formerly Utah Valley State College), UT*

*FROM July 31st at 12:45 pm – 2:15 pm Salon C room – 3rd Floor (to page 31)
MOVED TO August 1st at 8:15 am – 9:45 am Kou room – 3rd Floor (from page 48)*

Title: “UV ASCENDS” – a 3-day intake/orientation program for multicultural, first generation and underserved population students (A=Academic, S=Strategies for the, C=Challenging, E=Educational, N=Needs of, D=Diverse, S=Students)

WORKSHOP

Synopsis: This is an exciting, thought-provoking, highly interactive session highlighting a 3-Day successful multicultural student induction/orientation program. Attendees participate in “cultural-shock reducing” and academically crafted activities to build meaningful relationships for incoming students from underserved populations. Experience a powerful Native American Talking Circle, a revealing “Privilege” exercise, a “Stand and Deliver” academic workshop, “The Price Is Right” financial game, “Color Code” (personality assessment), “Who’s Here?” (finding common ground) and the ultimate “finale” afternoon - a “Jeopardy” summary game, Canoe Race, Multicultural Talent Show and rousing African American “Let’s Sing Gospel!” Handouts are available to replicate activities.

3. **Dr. Amy Cournoyer - Boston University School of Education, MA**

Added to August 1st at 8:15 am – 9:45 am Milo 3 – 2nd Floor

Title: Taking the Sociocultural Turn: A Case Study Investigating the Effectiveness of Case-Based Pedagogy Using Student-Generated Cases in Language Teacher Education

Synopsis: The field of language teacher education has taken a distinctive sociocultural theoretical turn, but little research exists on practical sociocultural approaches aimed at preparing k-12 language teachers in pre-service programs. This case study investigates the effectiveness of case-based pedagogy using student-teacher-generated cases as an instructional tool in the preparation of 12 pre-service ESL, Bilingual, and Modern Foreign Language teachers enrolled in a Student Teaching Seminar at post-secondary institution.

4. **Dr. Amy Lynn Schiffner – University of Hawaii, HI**

Added to August 1st at 8:15 am – 9:45 am Milo 3

Synopsis: In this paper I examine the life and work of dance education pioneer Margaret H'Doubler (1889-1992). More specifically I concentrate on influences outside the field of dance that directly informed and shaped her philosophy of dance education and teaching practices in American higher education. I begin my research by providing a brief historical overview of H'Doubler's life and work to provide a larger contextual understanding of her place and role in the field of dance and education. I then identify and analyze her philosophy of dance education and examine her teaching practices.

5. **Dr. Ed Hight – Park University (home campus Kansas City, MO)**

From July 31st at 10 am – 11:30 am Milo 2 – 2nd Floor

Moved to July 31st at 2:30 pm – 4 pm Kou – 2nd Floor

Title: 'Testing the Waters with a Global Education Initiative'

This case study pertains to the first global education initiative conducted at Park University that resulted in academic programming. Park University is a leader in distance education with 33 campus centers nation-wide (mostly military installations and online). It included program delivery to the U.S.-Affiliated Pacific and a feasibility analysis for programming in the U.S. Virgin Islands, Malaysia and Vietnam.

6. *Prof. Francis Wambalaba, US International University, Kenya*

*Title Changed to: Entrepreneurial Applications of Mobile Money Technology for
Enhancing MDGs at the Bottom of the Pyramid*