Tower Day is the annual showcase of undergraduate research and creative endeavors that is the cornerstone of the Academic Week of Excellence. Students from all disciplines have been invited to present their scholarly activities to our community to share their discoveries and inspire others to study in and learn more about their fields.

All undergraduate researchers are invited to submit an abstract of their work to CSU Abstract Annual which will be published May 1, 2011. Full papers may be submitted to Momentum, Columbus State University’s Journal for Undergraduate Research and Critique.

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Event Websites & Undergraduate Research Resources

CSU Abstract Annual......................................................... http://honors.colstate.edu/abstracts.asp
Momentum .............................................................................. http://honors.colstate.edu/momentum.asp
Tower Day .................................................................................... http://honors.colstate.edu/towerday.asp

Tower Day Sponsors

Today’s event is being supported by the CSU Honors Program, Honoris Causa, the CSU Office of the Provost, and by a generous donation from AT&T.

Program cover designed by Zachary Edwards, Undergraduate, Department of Earth & Space Science
Colloquium Schedule

8:00 am - 9:00 am  Registration & Light Breakfast
Schuster Center Honors Program Lobby & Room 130
Poster Set-Up
Davidson Center Room 254 & Columbus Room

9:00 am - 10:00 am  Plenary Session
Schuster 130
Provost’s Welcome: Dr. Tom Hacket
An Alumni Perspective: Mary Johnson, Biology ‘03
The Impact of Undergraduate Research
A Mentor’s Perspective: Dr. Stephanie DaSilva, Psychology
Engaging Students in the Undergraduate Research

10:00 am - Noon  Concurrent Research Presentations
Schuster Center Room 101 & Davidson Center Room 254
Poster Judging
Davidson Center Room 254 & Columbus Room

11:00 am - 12:20 pm  Light Lunch for Presenters
Schuster 130

11:30 pm - 1:30 pm  Special Presentations
Schuster 130

12:30 pm  Theatrical Reading– Hannah Carey, Theatre Department
Rosalinda, Right: A Play

1:00 pm  Violin Lecture Recital – Emily Vold, Schwob School of Music
Chord Conundrum: Examining the Performance Practice of Polyphonic Figures in J.S. Bach’s Solo Violin Works

Noon - 2:00 pm  Poster Session
Davidson Center Room 254 & Columbus Room
Special Exhibits
Honor Society Showcase – Schuster Center Corridor
Senior Art Student Exhibits – Davidson Center Lobby
Computer Gaming Program Development – Davidson 258

1:30 pm – 5:00 pm  Concurrent Research Presentations
Schuster Center Room 101 & Davidson Center Room 254
Special Presentations & Exhibits

11:30 am - 1:30 pm

Department of Theatre – Schuster 130

Rosalinda, Right: A Play
Presenter: Hannah Carey & Cast

Reading of a one act play, in which we follow a bizarre day in the life of a college student. Laurel has spent her entire life doing as she was told. Today, Rosalind, a character from Shakespeare’s "As You Like It,” appears to teach Laurel how to stand up for herself.

Faculty Sponsor: Dr. Becky Becker

Schwob School of Music – Schuster 130

Chord Conundrum: Examining the Performance Practice of Polyphonic Figures in J.S. Bach’s Solo Violin Works
Presenter: Emily Vold

Often, a composer leaves behind no record aside from the musical score regarding how to perform his works. However, a thorough examination of alternative sources, as executed in this presentation, can reveal telling details about historically stylistic performance.

Faculty Sponsor: Dr. Andrée Martin

TSYS School of Computer Science – Davidson 258

Computer Game Development
Presenters: Cron Broaddus III, Joshua Jennings, Robert Smith, Alex Stanfield, Patrick Kuykendall, Nicholas Dick, Donnell Leblanc, William McGuigan.

Games created by students in the computer science department will be on display for participants to explore, including Shadow Dash, Commakaze, Good Santa vs. Bad Santa, Heartbreaker, Jena’s Quest, Blob Things, A Modern Day Dinosaur in a Modern Day Metropolis, and Unity Game Engine Demo.

Faculty Sponsor: Dr. Rodrigo Obando

Department of Art – Davidson Lobby

Senior Art Portfolio & Exhibits
Presenters: Jennifer Miles, Anna Holmes, Emily Wagner

Participants can view artistic works that were presented for the University of South Carolina Peachbelt Exhibition and learn about upcoming senior thesis exhibitions. A curatorial project in photography and senior portfolio will be presented throughout the lunch hour.

Faculty Sponsor: Dr. Hannah Israel
After completing the NEO-FFI personality inventory, twenty-two university students completed a reading comprehension task with a person in close proximity text messaging and also with the person working quietly. Texting did not impair comprehension performance and extraversion/personality had no interactive effect on comprehension performance.

Faculty Sponsors: Dr. Harvey Richman, Dr. Mark Schmidt
Psychology Department

This study investigates neural response to positively and negatively connotated visual stimuli; specifically words as opposed to images using Event Related Potentials (ERP). The experiment conducted will be a within subjects group design, and the sample consists of twenty undergraduate students attending classes at Columbus State University.

Faculty Sponsors: Dr. Kathakali Mitra-Varma, Dr. Mark Schmidt
Psychology Department

This was a study that examined how displaying certain emotions affects people's perception of attractiveness.

Faculty Sponsors: Dr. April Phillips
Psychology Department

P300 amplitude, latency, response time, and accuracy were measured in response to briefly presented dot displays. Response times and accuracy provided support for subitizing (1-3) and preverbal counting (4-8). P300 amplitude, but not latency, differed as a function of numerosity and provided support for adaptation level theory (Helson, 1964).

Faculty Sponsor: Dr. Mark Schmidt
Psychology Department

This paper is an ethnographic study done in Stewart County, Georgia, assessing the theory of social exclusion and its practical application within this rural community. It is the cumulative work of two years of intense research involving members of the community with a focus on community viability.

Faculty Sponsor: Dr. Florence Wakoko-Studstill
Criminal Justice & Sociology Department
Morning Research Presentations

10:00 am - 10:20 am
Best Practice Analgesia in Second Stage Laboring Patients with Focus on PCEA
Presenters: Annestasia Alderson, Maegan Bell, Nicole Richardson, Allison Cantrell Kimberly Thomas

A group of nursing students developed a professional guideline covering the best practices for epidural analgesia during the second stage of labor based on current evidenced based practice studies with the goal to decrease maternal pain during the labor and delivery process and to improve patient satisfaction.

Faculty Sponsor: Dr. Cheryl Smith
School of Nursing

10:25 am - 10:45 am
Best Practice for Preventing Medication Errors
Presenters: Jordan McKenzie, Kate Walton, KC MacEachren, Jill Lusher, Victoria Golden, Sarah Pateunade

Medication errors are some of the most common medical errors made, harming millions of patient’s each year and costing hospitals billions of dollars in recovery treatment. Medication errors can easily be prevented throughout the hospital by implementing various measures to ensure such an event does not occur.

Faculty Sponsor: Mrs. Leslie Painter
School of Nursing

10:50 am - 11:10 am
Best Practice for IV Insertion in Infants and Children
Presenters: Darrell Mackenzie, Justin Banister, Michael Chamberlain, Jacob Chauvin Eric Hall, Kirsten Joiner

To determine the best practice for the use of a numbing device in reducing pain and anxiety of infants and children during peripheral IV insertion, data and evidence were gathered and analyzed and is presented in a PowerPoint presentation.

Faculty Sponsors: Dr. Cheryl Smith, Noreen McDonough, Dr. Sheri Noviello
School of Nursing

11:15 am - 11:35 am
Unveiling
Presenters: Carrie Poh, Kerry Sean Lawley, Megan Noelle Smith

Staged reading of an original 10 minute play.

Faculty Sponsor: Dr. Becky Becker
Theatre Department

11:40 am - 12:00 noon
If I Was Here (a play in progress)
Presenter: Megan Smith

A reading of an original play in progress.

Faculty Sponsor: Dr. Becky Becker
Theatre Department
Afternoon Research Presentations

1:30 pm - 1:50 pm  Nitrate Phytoremediation Using Gempler's Test Kits  
Presenter: Rae Bucher  

Measuring aquatic nitrates in the field is a complicated task. Nitrate field test kits were tested for accuracy in detecting a change in nitrate levels in water and aquatic plants. Comparing the data with light absorption spectroscopy and nitrate probes will allow us to determine the efficacy of the kits.  

Faculty Sponsor: Dr. Julie Ballenger Dr. John Barone  
Biology Department

1:55 pm - 2:15 pm  Efficacy of the rbcL+matK barcode in the taxonomically complex groups of Rhododendron  
Presenter: Patricia Campbell  

The presentation will simply be a powerpoint presentation of the barcoding research.  

Faculty Sponsor: Dr. Kevin Burgess  
Biology Department

2:20 pm - 2:40 pm  REU at MSU from CSU: The Importance of Undergraduate Research  
Presenter: Khaliyah Abikoye  

Michigan State University Plant Genomics 2010 provided an opportunity for students to learn about different career options in biological research. Like most REUs sponsored by the National Science Foundation the goal is to recruit undergraduates from underrepresented institutions to participate in a summer internship that will allow them to pursue a career in research. I will discuss the importance of REUs and how it has benefited me as a Columbus State University undergraduate student.  

Faculty Sponsors: Dr. Monica Frazier, Dr. Jianping Hu; Michigan State University (Principal Investigator)  
Dr. Gaelle Cassin; Michigan State University (Mentor-Post Doc)  
Biology Department

2:45 pm - 3:05 pm  Potential cytotoxicity of colored orthodontic latex bands to human fibroblast cells  
Presenter: Roma Patel  

Orthodontic treatments have become highly popular. With such a high demand in braces, the use of latex rubber bands increases. The following study tested these rubber bands for any release of dyes or chemicals that may potentially be harmful to cells, particularly fibroblasts, in the oral cavity.  

Faculty Sponsor: Dr. Glenn Stokes, Mr. Carson Stringfellow  
Biology Department

3:10 pm - 3:30 pm  Histology: Study of Tissues  
Presenter: Benjamin Cupp  

The program is a poster survey of the Histology course in CSU's biology department. It covers a basic overview of the techniques of Histology.  

Faculty Sponsor: Mrs. Elizabeth Klar  
Biology Department
Afternoon Research Presentations

3:35 pm - 3:55 pm       Chemoselective Oxidation of 6,13-bis(decylthio)pentacene
                        Presenter: Eunhye Cho

The oral presentation should include the background, motivation and significance of the research project, specific methods and techniques used, results obtained to date, and future research plans.

Faculty Sponsor: Dr. Banerjee, Dr. Jackson, Dr. Joseph Rugutt, Dr. Dabke, Dr. Chemistry Department

4:00 pm - 4:20 pm       Astronomy Outreach through Solar Research at the Coca-Cola Space Science Center
                        Presenters: Katherine Lodder, Eric Stephens, Matthew Perry

The Coca-Cola Space Science Center’s Mead Observatory is used to monitor and record solar activity. Images from the telescope are made available to the public through the Online Solar Archive. These images are used in programs to educate about solar activity and solar-terrestrial relations, and about the use of telescopes.

Faculty Sponsor: Dr. Rosa Williams
Earth & Space Science Department

4:25 pm - 4:45 pm       Illegal Immigration a threat to National Security
                        Presenters: Jodian Jenkins

In the presentation there will be some visuals via powerpoint. Discussion on the given research topic. Addressing the different threats illegal immigration has on national security and why this plays an important role in us better securing our borders. Very interested and different approach to illegal immigration.

Faculty Sponsor: Dr. Gregory Domin
Political Science Department
Afternoon Research Presentations

1:30 pm - 1:50 pm  
**Dramatographical Analysis: As You Like It By William Shakespeare**  
Presenters: Abby Blankenship, Kyle Phillips, Carrie Poh

*A presentation of the discoveries made through research and analysis of Shakespeare’s classic text.*

Faculty Sponsor: Dr. Becky Becker  
Theatre Department

1:55 pm - 2:15 pm  
**Crucible Dramaturgy Project**  
Presenter: Margaret Hoffman

*A exploration of the world of Arthur Miller’s The Crucible in CSU’s Fall 2010 theatrical production, and the field of dramaturgy. This research delves into a time of witchcraft, suspicion, hysteria, and deadly accusations, and bringing Miller’s vision of Salem in 1692 to life on the Columbus State University Mainstage.*

Faculty Sponsor: Dr. Becky Becker  
Theatre Department

2:20 pm - 2:40 pm  
**The Making of "Pomp and Circumstances"**  
Presenter: Danielle Thompson

*"Pomp and Circumstances" is a comedy film that the presenter produced as her honors thesis. This presentation will show clips from the film and will discuss the conception, production, and distribution process. It will focus on how student filmmakers can produce original films by developing a varied skill-set and maximizing limited resources.*

Faculty Sponsor: Dr. Becky Becker  
Theatre Department

2:45 pm - 3:05 pm  
**Constructing the Christian: Agency and Emulation in the Old English Judith**  
Presenter: Jenny Ross

*In the Old English poem Judith, the relationship between Judith and God is that of a Germanic lord and thane. Their victory over their mutual enemy is therefore collaborative, and their agency is shared. This means that, though heroes are dependent on God, God is no less dependent on them.*

Faculty Sponsor: Dr. Joshua Eyler  
Theatre Department

3:10 pm - 3:30 pm  
**Visible Souls: The Competing Narratives of Tolkien and Pullman**  
Presenter: Brandon Griffith

*Over the last decade, the fantasy genre secured a prominent place in modern story-telling. Are these stories mere escapism, or might they make important arguments? Using Fisher’s Logic of Good Reasons, Griffith analyzes the competing narratives of Tolkien and Pullman to uncover the values for which these narratives argue.*

Faculty Sponsor: Dr. Danna Gibson  
Theatre Department
Afternoon Research Presentations

3:35 pm - 3:55 pm
Are You Ready? Are We Ready? Am I Ready?
Presenters: Elizabeth Weaver, Luke Mills, Maria Contreras, Zac Forste Richard
Highnote, Melinda Goldman, John Speaks, Lucas Velasquez

We interviewed students about the paths they chose, as they discovered their desire for higher education, and if they were truly ready for their choices. Here we share an in-depth synthesis of their readiness, specific failures, and successes - their thoughts, doubts, inspirations, and determinations.

Faculty Sponsors: Dr. Mary Kirchoff, Dr. Richard Baxter, Ms. Cathy Nail
Communications Department
Dr. Florence Wakoko
Criminal Justice & Sociology Department

4:00 pm - 4:20 pm
Applying the Agenda-Setting Theory: The Search for Weapons of Mass Destruction
Presenter: Adrian Hall

Powerpoint presentation on how the Agenda-Setting Theory can be applied to the media coverage on the search for weapons of mass destruction in Iraq after 9/11.

Faculty Sponsor: Dr. Danna Gibson
Communications Department

4:25 pm - 4:45 pm
Removing Obstacles to Self-Sufficiency: A Communication Approach to Support Network Building
Presenter: Kate Hargrove

This project presents secondary and primary research gathered throughout the duration of a study on the impact of perceived social support among individuals identified as at-risk for terminal under or unemployment who were enrolled in a communication-based worker-training program.

Faculty Sponsor: Dr. Danna Gibson
Department of Communications
Poster Sessions

Noon – 2:00 pm

Columbus Room

A House is Not a Home: Defeating Homelessness in Columbus
Presenters: Randy Carpenter, Briana Neves

This project will explore the main components of homelessness, dispel common myths, discover where programs currently assisting the homeless fall short, and theorize solutions to the problem.

Faculty Sponsor: Dr. Courtney George

Evolution of New Urbanism in the Panhandle of Florida: Rosemary Beach, Alys Beach & Seaside
Presenter: Meredith Duke

New urbanism is a forward thinking design movement that revolves around a planned community where an individual can live, work, and play in a mixed social setting all within walking distance. I research three communities: Seaside, Rosemary Beach, and Alys Beach which were developed in 1980s, 1990s, and 2000s respectively.

Faculty Sponsor: Dr. Amanda Rees

Preliminary X-Ray Analysis of the Internal Pulsar and Pulsar Wind Nebula in Supernova Remnant DEML 241
Presenter: Zachary Edwards

We will be conducting a preliminary analysis using x-ray spectroscopy of the Pulsar and the Pulsar Wind Nebula within the Supernova Remnant DEM L241 using data received from the Chandra Space Telescope. The preliminary investigation of the data provides us with a good first approximation of composition, pulsar energy input, and evolution of pulsar wind nebula.

Faculty Sponsor: Dr. Rosa Williams

Relationship Between Taster Type and Drink Preference
Presenters: Paul Evans, Dawn Harless

Super-tasters, shown to be sensitive to Phenylthiocarbamide (PTC), don’t like to eat and drink bitter foods and drinks. The purpose of this study was determine if super-tasters are more likely to choose sweet drinks as compared to two other taster groups not as sensitive to PTC.

Faculty Sponsor: Dr. Stephanie Da Silva

Best Evidence Based Practices to Prevent Skin Breakdown in Obese Patients
Presenters: Meghan Gray, Katlyn Barr, Lauren Dumke, Quinnara Terry, Tina Shirley, Keiona Martin

In this presentation will be discussing various nursing methods to prevent skin breakdown in obese clients.

Faculty Sponsor: Dr. Sheri Noviello
Poster Session

**Noon – 2:00 pm**

**Reactions to Interpersonal Offenses**
Presenters: Ingrid Gamboa, Ingrid Gamboa

This research investigates the associations between a victim’s level of prejudice and his/her willingness to accept an apology from an offender of another race. It is hypothesized that persons with higher levels of prejudice will accept apologies from a same-race offender more than from a person of a different race.

Faculty Sponsor: Dr. April Phillips
Psychology Department

**Geologic Mapping at the Ashland-Wedowee and Dahlonega Gold Belts Juncture in Northwest Georgia**
Presenter: Jess Gilmer

This poster presentation will present the results of a geological mapping project near Carrollton, Georgia and the implications of this work for the volcanic history of Georgia and Alabama.

Faculty Sponsor: Dr. Clinton Barineau
Earth & Space Science Department

**Best Practice for Pediatric Pain Assessment**
Presenters: Kathryn Hamlett, Miya Leonard, Teresa Chancey, Diana Sanders, Domonique Dulin, Obiageli Moneke

The purpose of our guideline was to present the best practice for pediatric pain assessment in the hospital. Research shows that the best tool to use for the pediatric population is the Wong Baker face scale. Our group proposed ways to incorporate the pain scale into every child's hospital stay.

Faculty Sponsor: Dr. Cheryl Smith
School of Nursing

**Hourly Rounding**
Presenters: Crystal LeMarQuand, Alicia Orlich, Jessie Lindsey, Gretchen O’Donnell Danielle Alvarado, Danielle Turner

A presentation on Hourly Rounding in a hospital setting presented by senior nursing students. The purpose of this study was to devise a method to decrease patient falls and call light use, while increasing patient satisfaction through the incorporation of hourly rounding.

Faculty Sponsor: Dr. Sheri Noviello
School of Nursing

**Effects of Exercise on the Expression Levels of Matrix Metalloproteinase (MMP)-23 in the Supraspinatus Tendons of Sprague-Dawley Rats**
Presenter: Tony Nguyen

More than 95% of rotator cuff injuries are due to tears in the supraspinatus tendon. Matrix metalloproteinase (MMP) is a family of proteolytic proteins that degrade components of the extracellular matrix (ECM) network to facilitate tissue remodeling. Whereas MMP1 has been associated with tendon rupture, it is believed that the presence of MMP23 accelerates the degradation of tendon tissue. Currently, little is known about the role and functions of MMP23 in tendons. Thus the intent of this study is to help elucidate the role of MMP23 in rotator cuff injuries.

Faculty Sponsor: Dr. Monica Frazier
Biology Department
**The Declining Presence of Social Commentary in Popular Music**  
**Presenter:** James Poole  

This is an ongoing research project designed to explore the social problem of the declining presence of social commentary in popular music over the last 25 years. Research includes data analysis of the Billboard charts, anecdotal evidence from industry professionals, survey research, and human subject experiments.

**Faculty Sponsor:** Dr. Rik Newtson  
**Criminal Justice & Sociology Department**

**Preventing Pernieal Lacerations During Child Birth**  
**Presenters:** Teresa Poole, Sarah Streetman, Chelsey Wiggins, Jillian Matthews, Kendra Huneycutt, Teresa Poole  

This project was a research about preventing perineal lacerations during labor. We used three highly accurate articles to provide information. These three articles revealed the evidence that supports heating packs, perineal lubrication, and massage therapy. These interventions proved to decrease the occurrence of lacerations, but did not actually prevent them.

**Faculty Sponsor:** Dr. Sheri Noviello  
**Dr. Cheryl Smith  
**School of Nursing**

**Using Opaque Predicates to Obfuscate Metamorphic Malware**  
**Presenter:** Rodrigo Sardinas  

We will be discussing how opaque predicates are used in metamorphic malware to make it more difficult to detect malware and we will cite and explain an example taken from our own implementation of opaque predicates in malware that we have coded.

**Faculty Sponsor:** Dr. M. Rhadouane Chouchane  
**TSYS School of Computer Science**

**Ventilator-acquired pneumonia (VAP)**  
**Presenters:** Carla Smith, Brittany Strejeck, Erin Thornton, Katie Lyons, Haley Hobbs, DeAnna Danz  

This presentation covers the newest evidence-based practice research on the causes, interventions, and possible solutions for the incidence of Ventilator-acquired pneumonia (VAP).

**Faculty Sponsor:** Mrs. Leslie Painter  
**Dr. Cheryl Smith  
**School of Nursing**

**Best Practice of Hospitalization of Patients with a History of Alcohol Abuse**  
**Presenters:** Elizabeth Smith, Ashley Edwards, Tina Nsanji, Jarielle Fluellen  

Our group conducted research of four main methods of treating patients with a history of alcohol abuse. Our presentation will discuss different methods of treatment used to deal with issues of alcoholism when treating patients with comorbidities while undergoing general hospitalization.

**Faculty Sponsor:** Dr. Cheryl Smith  
**School of Nursing**
Poster Session

Noon – 2:00 pm   Columbus Room

**Histology: A Comparison of Hepatic Tissues of Different Vertebrates**
Presenters: Khara Tate

*In this presentation hepatic tissues of fish, human and rat livers will be analyzed using traditional histological methods for similarities.*

Faculty Sponsors: Dr. Glenn Stokes, Mrs. Elizabeth Klar  Biology Department

**Antiviral Effects of Lactoferrin at Different Stages of Herpes Simplex Virus Type 1 Infection of Vero Cells**
Presenter: Nylvia Ware

*The effects of lactoferrin (Lf) on HSV-1 at different stages of infection in Vero cells were examined. Experiments conducted resulted in reduction in plaque-forming units. The greatest reduction was observed with HSV-1 pretreated with Lf. Results indicate that Lf has a direct antiviral rather than a cell-protective effect on HSV-1.*

Faculty Sponsor: Dr. Milwood Motley  Biology Department

**Enteral Tube Feedings**
Presenters: Laura Weatherby, Nora Colondres, Stephanie Gordon, Rebecca Johnson, Monique Williams

*What are the best practices for enteral tube feedings to include medication administration in the general hospital patient population?*

Faculty Sponsor: Leslie Painter  School of Nursing

**Assessment of Heavy Metals in Lake Walter F. George in Alabama and Georgia**
Presenter: Samantha Worthy

*Lake Walter F. George occupies 85 miles of the Chattahoochee River, separating Alabama and Georgia. It has been found that approximately 6 million people visit the lake per year causing concern about potential water contamination. This study will show if metal contamination in the lake and its tributaries is present.*

Faculty Sponsor: Dr. Samuel Abegaz  Chemistry Department

**Forensic Analysis of Apple’s Mobile Platforms**
Presenter: Charles Yates

*This research touches on mobile computer forensics by exploring the Apple iPod and iPhone and its capabilities in computer crimes including transporting vital media and hidden files that can be used as evidence and connecting to networks and attacking computers.*

Faculty Sponsor: Dr. Lydia Ray  TSYS School of Computer Science
Poster Session

Noon – 2:00 pm

The Effect of Brilliant Blue G and Methylprednisolone Acetate on IL-1β mRNA levels in Trauma-induced Astrocytes
Presenter: Ifeoma Akuta

In this program, I will provide background information about astrocytes and their functions in the body during inflammation. Then I will discuss my findings about whether the combination of the two inflammatory inhibitors can stop further damage after inflammation from a spinal cord injury.

Faculty Sponsor: Dr. Kathleen Hughes
Biology Department

Best practices for including family members during procedures for pediatric patients
Presenters: Elizabeth Alexander, Stephanie Dias, Talisha Glenn, Tacara Hemingway, Rebekah Perkins, Jackie Winford

Evidenced-based practice guideline on best practices for including family members during procedures for pediatric patients.

Faculty Sponsor: Noreen McDonough
School of Nursing

Paranormal Beliefs and Personality
Presenter: Courtney Bell

One hundred sixty undergraduate psychology students were given a questionnaire of paranormal belief and a personality questionnaire to access for relationships among paranormal belief and personality. Openness and agreeableness were the personality traits most closely related to paranormal belief. Cultural/Ethic differences were also noted in level of belief.

Faculty Sponsor: Dr. Harvey Richman
Psychology Department

Best Practices for Patients with Sickle Cell Disease in Vaso-Occlusive Crisis
Presenters: Monique Brooks, Sherine Hill, Glendese Lanier, Takelya White, Erica Williams, Bernice Wilson

The program will discuss an introduction to sickle cell, the disease, followed by research findings of the best practices used for medical treatment of vaso-occlusive crisis in the sickle cell patient.

Faculty Sponsor: Leslie Painter, Noreen McDonough
School of Nursing

Prevention of falls in Non-Ambulatory Patients in the inpatient setting
Presenters: Sarah Denes, Stephanie Nappi, Kate Ellerbee, Chelsea Mixon, Ashley Yarborough, Emily Schmitz

Used evidence based practice to find nursing interventions to prevent falls in non-ambulatory patients in the inpatient setting.

Faculty Sponsor: Noreen McDonough
School of Nursing
Poster Session

Noon – 2:00 pm

Declotting of Central Lines in Hemodynamically Stable Patients
Presenters: Eric Henderson, Mary Spong, Latravia Lewis, Maria Knight, Kalema Cooper,

*The safe and effective use of Alteplase to declot central lines in patients when compared to Heparin.*

Faculty Sponsor: Noreen McDonough

When Dialogue Theory Becomes a Powerful Social Media Tool
Presenter: Hayley Henderson

*This project focuses on the importance of social media in our society. Due to research that has taken place at Chick-fil-A in Columbus, Georgia, a theory has developed involving social interaction and the ability to see a sales increase based on this communication method. Social media has become the primary tool that customers are using to not only communicate their thoughts and ideas, but to also gain knowledge of special events and promotions that they choose to take part in.*

Faculty Sponsor: Dr. Danna Gibson

Morphological differences in nervous tissue highlighted by contrasting histological stains
Presenter: Monica Junious

*Using a variety of histological stains (hematoxylin and eosin, silver, and Giemsa), the structures highlighted by certain stains are observed and differences in morphology between human nervous tissue and rat nervous tissue can also be examined.*

Faculty Sponsor: Mrs. Klar

Does Emotional Intelligence Predict Success?
Presenter: La' Sandra King

*Emotional Intelligence (EI) supporters suggest a causal link between high EI and success. Although the findings of the present study were consistent with their claims, the effect sizes of these findings were small. These results cast doubt on the applied value of the EI construct.*

Faculty Sponsor: Dr. Harvey Richman

Comparison of the 2/27/10 Chile Earthquake with the 3/11/11 Japan Earthquake, and the Structure of the Earth's Interior
Presenter: Laura Morris

*A view of the structure of the interior of the Earth, as deduced by interpreting seismic data and comparing two separate, significant earthquakes.*

Faculty Sponsor: Dr. Rosa Williams
Best Practice for the Prevention of Postoperative Complications.
Presenters: Kristen Smith, Newt Fisk, Mahogany Walker, Alyssa Morris, Stacie Freeman

Research was conducted to determine the current best practice for preventing postoperative complications. Our group specifically researched the more common and severe complications of deep venous thrombosis and pneumonia. This presentation will discuss our findings on the above mentioned postoperative complications.

Faculty Sponsor: Dr. Cheryl Smith

Developing New Improved Indicators for the Acid-Base Volumetric Titrations
Presenter: Taralynn Williams

During the investigations on multi functional compounds for binding to multiple antiviral drugs, two interesting poly functional molecules (Bepa Red and Bepaxy Red) were designed and synthesized.

Faculty Sponsor: Dr. Yousef Ahmadi Beni
**Honor Societies**

Alpha Phi Sigma -- National Criminal Justice Honor Society

Alpha Psi Omega -- National Honorary Theatre Society

Beta Beta Beta -- National Biological Honor Society

Beta Gamma Sigma -- International Honor Society in Business

Eta Sigma Gamma -- National Health Education Honorary

Honoris Causa -- CSU Honors Program

Kappa Delta Pi -- International Honor Society in Education

Lambda Pi Eta -- National Communications Association Honor Society

National Society of Collegiate Scholars

Phi Alpha Theta--History Honors Society

Phi Beta Delta --- Honor Society for International Scholars

Pi Alpha Alpha --National Honor Society for Public Affairs and Administration

Pi Sigma Alpha -- National Political Science Honor Society

Psi Chi -- The International Honor Society of Psychology

Sigma Delta Pi-- National Collegiate Hispanic Honors Society

Sigma Tau Delta -- International English Honor Society

Sigma Theta Tau -- International Honor Society of Nursing

The Honors Society of Phi Kappa Phi
Notes