



**PAIDEIA 2011**

**The Tenth Annual Undergraduate and Graduate  
Student Research Conference**

**Saturday March 26, 2011**

**Christopher Newport University**

**McMurrin Hall & David Student Union**

# **PAIDEIA 2011**

## **The Tenth Annual Undergraduate and Graduate Student Research Conference**

**Saturday March 26, 2011**

**Christopher Newport University**

***Paideia (pi-Day-uh): The classical Greek education of liberal learning***

**This Conference was organized and sponsored by the University Graduate and Undergraduate Research Council (UGRC), Office for Undergraduate Research and the Office of the Provost**

**PAIDEIA Conference 2011**  
**March 26, 2011**

**McMurrin Hall & David Student Union Ballroom**

**Schedule**

<b>8:00 AM – 9:00 AM</b>	<b>Registration in McMurrin Hall Lobby</b>
<b>9:00 AM – 10:40 AM</b>	<b>Session I – (Presentations in McMurrin Hall)</b>
<b>10:40 AM – 10:50 AM</b>	<b>Break</b>
<b>10:50 AM – 12:30 PM</b>	<b>Session II - (Presentations in McMurrin Hall )</b>
<b>11:00 AM – 2:00 PM</b>	<b>* Poster Session, <i>Independent Viewing</i></b>
<b>12:40 PM – 2:00 PM</b>	<b>Lunch in Ballroom (David Student Union) Keynote Speaker: Dr. Steven Breese</b>
<b>2:00 PM – 4:00 PM</b>	<b>* Poster Session, <i>Authors Present</i></b>
<b>3:00 PM – 4:40 PM</b>	<b>Session III (Presentations in McMurrin Hall )</b>

**\* Poster Session      Street of David Student Union**

## Session II 10:50 AM – 12:30 PM

### Room MCM 112 Moderator: Dr. Michael Mulryan

- 9:00 AM – 9:20 AM The Taming of Le Petit Prince and Children of the 1930's and 40's  
Paige Koch, faculty sponsor Dr. Steven Spalding
- 9:20 AM – 9:40 AM Outlawing the Burqa Unveils French Culture and Immigration Policies  
Keeley Tagtmeyer, faculty sponsor Dr. Steven Spalding
- 9:40 AM – 10:00 AM Guigemar et la Répression de la Sexualité Féminine  
Alan-Michael Weatherford, faculty sponsor Dr. Noelle Guigere

### Room MCM 164 Moderator: Dr. Urvi Patel

- 9:00 AM – 9:20 AM Gender Stereotypes in Mr. and Mrs. Smith  
Lauren Hall and Rae Duffy, faculty sponsor Dr. Michaela Meyer
- 9:20 AM – 9:40 AM Relationship between Body Esteem and Emotional Reaction Toward Others  
Predair Robinson, Lindsey Keeler, Rebecca Campbell and Chaney Flahive, faculty sponsor Dr. Noah Schwartz
- 9:40 AM – 10:00 AM Both Newspaper and Tabloid Headlines Show Encoding Specificity  
Dave Tosto, Molly Schweinhart and Morgan Epstein, faculty sponsor Dr. Jeffrey Gibbons
- 10:00 AM – 10:20 AM Twitter Use During a Time of Crisis  
Bryan Field, faculty sponsor Dr. Danielle Stern
- 10:20 AM – 10:40 AM Gender Roles in the “Jersey Shore”  
Allison Throckmorton, faculty sponsor Dr. Michaela Meyer

### Room MCM 160 Moderator: Dr. Jean Filetti

- 9:00 AM – 9:20 AM Yachting Diplomacy: Anglo-American Relations and the creation of Nationalism through the America's Cup and Great Trans-Atlantic Ocean Races, 1851-1914  
Maxwell Plarr, faculty sponsor Dr. Andrew J. Falk
- 9:20 AM – 9:40 AM On Nationalism: The Greatest Threat to Continued European Integration  
Chris Yencha, faculty sponsor Dr. George Zestos
- 9:40 AM – 10:00 AM The Forbidden Fruit  
Andy Stevens, faculty sponsor Dr. Roark Mulligan
- 10:00 AM – 10:20 AM Trauma of Exile for Palestinians  
Elise Sjogren, faculty sponsor Dr. Jean Filetti

## **Session II    10:50 AM – 12:30 PM**

### **Room MCM 112      Moderator: Dr. Steven Spalding**

10:50 AM – 11:10 AM Roman Tourists and Spartan Barbarians: Cultural Appropriation in the 1<sup>st</sup> Century BCE

Michelle Kaiser, faculty sponsor Dr. Steven Spalding

11:10 AM – 11:30 AM Urbs and Civitas in Colonial Mexico City: Unearthing the Art of City Planning

Amanda Rocamontes, faculty sponsor Dr. Steven Spalding

11:30 AM – 11:50 AM The Arab City in Europe: Reading Arab Urbanism in Granada's Albaicin

Carolyn Thombs, faculty sponsor Dr. Steven Spalding

11:50 AM – 12:10 PM Title TBA

Jessica Beach, faculty sponsor Dr. Steven Spalding

### **Room MCM 114      Moderator: Dr. Tatiana Rizova**

10:50 AM – 11:10 AM Economic Freedom and Job Creation: 50 States

Kevin Owens, faculty sponsor Dr. Michelle Vachris

11:10 AM – 11:30 AM The Case for Enhanced Congressional Oversight of the Federal Reserve

Shane McNamee, faculty sponsor Dr. Nathan Busch

11:30 AM – 11:50 AM U.S. Credit Rating Agencies and the European Debt Crisis: Defining the Causes and Current Hindrances of Credit Rating Agencies on the EU's Recovery Effort Following the 2010 Euro Crisis

Jemal Harris, faculty sponsor Dr. George Zestos

11:50 AM – 12:10 PM Turkey and the EU Question

Jennifer Tuohy, faculty sponsor Dr. George Zestos

12:10 PM – 12:30 PM Luter Honor Council PAIDEIA Abstract

Cameron Carter, faculty sponsor Dr. Pam Pringle

## Session II 10:50 AM – 12:30 PM

### Room MCM 164 Moderator: Dr. David Pollio

- 10:50 AM – 11:10 PM Alcohol Expectancies and Drinking Condition  
Kevin Miller, Jacquelyn Ward and Amber Stevens, faculty sponsor Dr. Diane Catanzaro
- 11:10 AM – 11:30 AM An Examination of Alcohol, Religious Variables, and the Fading of Emotions  
Jacqueline Lentz, Angela Toscano, Ashley Fehr, Claire Brantley and Joel Arcieri, faculty sponsor Dr. Jeffrey Gibbons
- 11:30 AM – 11:50 AM The Role of Behavior and Display of Affect in Children's Trait Attributions  
Lauren Royster, Ashley Soto and Renee Roccato, faculty sponsor Dr. Nicole Guajardo
- 11:50 AM – 12:10 PM Convergent Evidence of Cognitive Flexibility in Performance-Based Measures  
Emma Mehrabi and Ella Bowen, faculty sponsor Dr. Urvi Patel
- 12:10 PM – 12:30 PM Does Cognitive Flexibility Predict Counterfactual Reasoning?  
Christina Philyaw, faculty sponsor Dr. Nicole Guajardo

### Room MCM 160 Moderator: Dr. Bobbye Bartels

- 10:50 AM – 11:10 AM Water Quality Analysis as a Component of Environmental Education in a Natural and a Created Wetland in Newport News, Virginia  
Lauren Oliver, faculty sponsor Dr. Robert Atkinson
- 11:10 AM – 11:30 AM For the One Moment: Development of Meaning and Identity through Wilderness Adventure  
Anne Taylor Robertson and Melissa Miller, faculty sponsor Dr. Danielle Stern
- 11:30 AM – 11:50 AM Vegetative Assessment after the South-1 Fire in the Great Dismal Swamp National Wildlife Refuge  
Lauren Achtemeier, faculty sponsor Dr. Robert Atkinson
- 11:50 AM – 12:10 PM Tree survival and growth in created wetland mitigation sites in Virginia: A field validation study  
Shawn Wurst, J. D. Roquemore, H. W. Hudson, and J. M. Campo, faculty sponsor Dr. Robert Atkinson
- 12:10 PM – 12:30 PM Life in the Neotropics: A Diversity Study  
Jennifer Gerstenfeld, faculty sponsor Dr. Michael Meyer

## Poster Session 11:00 AM – 4:00 PM

<i>Independent Viewing</i>	<i>11:00 AM – 2:00 PM</i>
<i>Authors Present</i>	<i>2:00 PM – 4:00 PM</i>

**Location: Street of David Student Union**

**Presiding: Dr. Tarek Abdel-Fattah**

1. Transformational Leadership: And its Effects on Creativity. Evan Elmore, faculty sponsor Dr. Kristen Pellegrino
2. Exploring the importance of curvature for visual object recognition. Katelyn Conneen, Verity Watson and Samantha Seay, faculty sponsor Dr. Noah Schwartz
3. Classifying and Studying Survey Based Galaxy Morphology, Disk Components, and Central Star Clusters. Richard Hillyer, faculty sponsor Stefan Kautsch
4. Integrin function in the distal tip cell migration of *C. elegans*. Chrissy Rogers and Kerri Anton, faculty sponsor Dr. Christopher Meighan
5. Determination of structure by fragmentation in an ion trap mass spectrometer. Rebecca Beasley, faculty sponsor Geoffrey Klein
6. Prolonged Grief Disorder: A Literature Review. Laurin Roberts, faculty sponsor Dr. Sherman Lee
7. Compassion Fatigue: A Literature Review. Lauren Tapscott, faculty sponsor Dr. Sherman Lee
8. Religion and Weird Beliefs: Examining the relationship between religiosity and pseudoscientific thinking. Rachel Goodwyn, Ashley Prichard, Laura Stockham, Ashley Adamonis, James Gurdal and Danielle Haymore, faculty sponsor Dr. Jason Hart
9. Individual differences and pseudoscientific thinking: Examining the relationships between the Need for Cognition, the Big Five Personality Traits, and the tendency to hold weird beliefs. Laura Stockham, Ashley Prichard, Rachel Goodwyn, Danielle Haymore, James Gurdal, and Ashley Adamonis, faculty sponsor Dr. Jason Hart
10. Una Comparación de Dos Pícaros Abstracto. Sarah Patton, faculty sponsor Dr. Claudia Mendez
11. Direct and Indirect Effects of Pavlovian Conditioning of Sexual Responding in Male *Betta splendens*. Christina Seibert, faculty sponsor Dr. Andrew Velkey
12. Mindfulness Based Cognitive Therapy to Reduce Negative Cognitions: A Literature Review. Amanda Powell, faculty sponsor Dr. Sherman Lee
13. Mechanochemical Synthesis of Tetrathiafulvalene-Chloranil: Scanning Electron Microscopy Study of Product Morphology. Alex Wixtrom, Jessica Buhler and Silvina Pagola, faculty sponsor Tarek Abdel-Fattah

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14. Addressing Spirituality and Religion in Therapy: A Literature Review. Diana Reiss, faculty sponsor Dr. Sherman Lee
15. Development of a Computerized Image Acquisition System for Analysis of Betta splendens Bubble-Nesting Behavior. Ashley Prichard, Carol Paulson, Raluca Brand, Brian Roller and Jeffrey Illinik, faculty sponsor Dr. Andrew Velkey
16. Refinements to the Theory of Planned Behavior in Explaining Hand Hygiene. Daniel Mitteer, faculty sponsor Dr. Thomas D. Berry
17. Food Placement in Refrigerators Influencing Inherent Choice Behavior. Dara Gruber, faculty sponsor Thomas D. Berry
18. Reproductive Habits of Geoffroy's Rousette (*Rousettus amplexicaudatus*), a Fruit Bat in the Philippines. Christianne Reyes, Ambre Graham and Lindsey George, faculty sponsor Dr. Rick Sherwin
19. Labor and Delivery in Geoffroy's Rousette Fruit Bat (*Rousettus amplexicaudatus*). Ambre Graham, Lindsey George and Christianne Reyes, faculty sponsor Dr. Rick Sherwin
20. New cave colonization strategy observed in Geoffroy's Rousette Fruit Bat (*Rousettus amplexicaudatus*), an Old World bat. Lindsey George, Ambre Graham and Christianne Reyes, faculty sponsor Dr. Rick Sherwin
21. The Effects of Sleep Deprivation on Cognitive Ability. Tejaswi Chalasani, Nicholas Smith and Jennifer Marshall, faculty sponsor Dr. Noah Schwartz
22. Multi-Step Synthesis of Violacein. Kyle Ponce, faculty sponsor Dr. Jeffrey Carney
23. Teaching Basic Independent Mnemonic Formation to Students in Public Schools. John Gladstone, faculty sponsor Dr. Jeffrey Gibbons
24. Investigation of the Asphaltene Composition of Different Crude Oils and How Their Composition Affects Flocculation. Mitchell Horten and Brendan Peacor, faculty sponsor Dr. Geoffrey C. Klein
25. Impact of Local Watersheds on Lake Maury Water Quality. Michelle Moses, Robert Rice, Chris Thome, Kevin Frye and Anna Maria Bobovich, faculty sponsor Dr. Gary Whiting



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**Location: Street of David Student Union**

**Presiding: Dr. Tarek Abdel-Fattah**

26. Remediation of Co(II) from Soil Using Electrokinetics. Angela Zoumplis and Catherine Borgeson, faculty sponsor Dr. Tarek Abdel-Fattah
27. Sociocognitive Threats to Body Esteem and Self-Perception. Lindsay Keeler, Predair Robinson, Rebecca Campbell, Chaney Flahive, Samantha Pearl and Jenna Wynn, faculty sponsor Dr. Noah Schwartz
28. Distributed, EEG-Controlled BCI Platform. Nathan Walker, Daniel Tomaino and Ian Muse, faculty sponsor Dr. Noah Schwartz
29. Betta splendens do not demonstrate preference for immediate reward over delayed reward under constant magnitude of reinforcement. Robert Michel, Nicola Donnelly, Madeline Yoder, Ashley Prichard, Katrina Hallwerck, Jasmine Rynolds, Ashley Darden and Christine Searles, faculty sponsor Dr. Andrew Velkey
30. The impact of personality on divergent thinking. Geneva Polser and Uneque Gaines, faculty sponsor Dr. Gayle Dow
31. The Golden Ratio. Jason Clark, faculty sponsor Dr. Stavroula Gailey

### **Session III    3:00 PM – 4:40 PM**

#### **Room MCM 112**

**Moderator: Dr. Claudia Mendez**

- 3:00 PM – 3:20 PM      Writing in a second language with the focus of grammar vs. the focus of language use.  
Rachel Iacoletti, faculty sponsor Dr. Claudia Mendez
- 3:20 PM – 3:40 PM      Una Comparación de Dos Pícaros Abstracto  
Sarah Patton, faculty sponsor Dr. Claudia Mendez
- 3:40 PM – 4:00 PM      The Concept of God During the Renaissance  
Petia Sotirova, faculty sponsor Dr. Claudia Mendez
- 4:00 PM – 4:20 PM      El movimiento LGBT en Latinoamérica: factores que favorecen los derechos logrados  
Nathan Melnik, faculty sponsor Dr. Elaine Miller

#### **Room MCM 114**

**Moderator: Dr. Shannon Greene**

- 3:00 PM – 3:20 PM      Die Übernahme der Wall Street durch die Deutsche Börse und deren Ursache in der Finanzkrise 2007-2009  
Jefferson Beavers, faculty sponsor Dr. Shannon Greene
- 3:20 PM – 3:40 PM      Die deutsche Börse und ihre Wurzeln in der Frankfurter Messe des Mittelalters  
Robert Scruggs, faculty sponsor Dr. Shannon Greene
- 3:40 PM – 4:00 PM      Die Ideologie in der Architektur: Die Darstellung von Macht in West- und Ostberlin  
Christopher Young, faculty sponsor Dr. Shannon Greene

### **Session III    3:00 PM – 4:40 PM**

#### **Room MCM 164      Moderator: Dr. Margarita Marinova**

- 3:00 PM – 3:20 PM      Effects of Rhenium on Zebrafish (Danio rerio)  
Jacquelyn Doroski and Vanessa Correll, faculty sponsor Dr. Lisa Webb
- 3:20 PM – 3:40 PM      Remediation of Cobalt (II) Ion Aqueous Solution Using Cation  
Exchangeable Zeolites Placed in an Electrokinetic Cell  
Sergio Navarrete, faculty sponsor Dr. Tarek Abdel-Fattah
- 3:40 PM – 4:00 PM      A comparison of soil and large woody debris mercury in the Great  
Dismal Swamp  
Catherine Lavagnino, faculty sponsor Dr. Robert Atkinson
- 4:00 PM – 4:20 PM      Comparison of Atlantic White Cedar Growth From Two Nursery Stocks  
at Two Restoration Sites Located in Southeastern Virginia, a  
Collaborative Study  
Justin Weiser and Jacqueline Roquemore, faculty sponsor Dr. Robert  
Atkinson

#### **Room MCM 160      Moderator: Dr. Danielle Stern**

- 3:00 PM – 3:20 PM      Puerto Ricans' Perceptions of Parenting and its Influence on Youth  
Leadership Development  
Hector Feliciano-Ayala, faculty sponsor Dr. Linda M. Waldron
- 3:20 PM – 3:40 PM      Weblogs Enhance Adoption Experience  
Morgan Arnold and Jordan Mellington, faculty sponsor Dr. Danielle Stern
- 3:40 PM – 4:00 PM      Online Communication & People Living with Epilepsy  
Kathryn Wilson, faculty sponsor Dr. Danielle Stern
- 4:00 PM – 4:20 PM      This is Human Trafficking: A Documentary Short  
Caitlin Boyd, Roy Fuller and Heather McGriff, faculty sponsor Dr. Linda  
M. Waldron
- 4:20 PM – 4:40 PM      Government Organization's Use of Facebook  
Lori Ertel, faculty sponsor Dr. Danielle Stern