



The College of William and Mary

Fourth Annual  
Graduate Research Symposium  
and  
the American Cultures Caucus

Friday, February 11, 2005

and

Saturday, February 12, 2005

University Center

*The Graduate Research Symposium is sponsored by the Office of Graduate Studies, Faculty of Arts and Sciences, the Graduate Center, and the Graduate Student Association.*

# Graduate Research Symposium Schedule

## Friday, February 11, 2005

SESSION	JAMES RM.	YORK RM.	TIDEWATER A	TIDEWATER B
10:00 am	Sarah Tedder (Physics) CARS Measurements in a Supersonic Combuster	Elizabeth Blake (Biology) The Reproductive Biology of <i>Amathys lutzi</i> , an Ampharetid Polychaete, from Hydrothermal Vents on the Mid-Atlantic Ridge		<u>10:00 - 10:50 am</u>  Workshop I: "From Fancy Women to 'Demimondames': Working-Class Women in Peter Taylor's Short Fiction" <i>Frank Cha, American Studies</i>  Chairperson: Kristen Proehl, American Studies
10:30 am	Shannon Watson (Physics) The Effect of Long Length Scale Roughness on Giant Magnetoresistive Multilayers Grown on Novel Substrates and Buffers	Jessica Wallace (Biology) Reproductive Attributes of Polynoid Polychaetes from Hydrothermal Vents on the East Pacific Rise		
11:00 am	Sharon Karkehabadi (Education) The Academy of Jundi- Shapur, 259 AD: A Key Link in the History of Higher Education	Bryan Koenig (Psychology) Cognitive Biases in the Perception of Romantic and Sexual Interest in Opposite- sex Friendships		<u>11:00 - 11:50 am</u>  Workshop II: "Persistent Violence: <i>Two Towns of Jasper</i> and Legacies of Lynching" <i>Brian Piper, American Studies</i>
11:30 am	Meghan Riemer (Business) Ecotourism in the Galapagos	Bryan Moffit (Physics) Parity Violating Electron Scattering from Helium-4		Chairperson: Meredith Crawford, American Studies
Noon- 12:15 pm	Rebekah Packett (Biology) Effects of Salinity on the Distribution and Growth of Native and Non-native <i>Phragmites australis</i>			
12:15pm	LUNCH – TIDEWATER A			

## Graduate Research Symposium Schedule (cont'd)

SESSION	JAMES RM.	YORK RM.	TIDEWATER A	TIDEWATER B
1:00 pm	<b>PLENARY POSTER SESSION – TIDEWATER A (please see page 3 for titles)</b>			<u>1:00 - 3:30 pm</u>
1:30 pm				
2:00 pm	<b>Andriy Kot (Computer Science)</b> Parallel Out-of-Core Constrained Delaunay Mesh Generation	<b>Kimberly Ryan (Psychology)</b> Subtype Differentiation of Borderline Personality Disorder Features in Subclinical Young Adults		<b>Patterns of Identity: Words, Images, and Things</b> Chairperson: <b>Hilary Marcus, American Studies</b>  <i>Margaret Freeman, American Studies</i> "Envisioning African American Identity: Formulations of Femininity, <i>Ebony and Our World, 1946-1952"</i>  <i>Jennifer Ogborne, Anthropology</i> "Preliminary Motif Analysis of Chickahominy River Ceramics"
2:30 pm	<b>Andrey Chernikov (Computer Science)</b> Parallel Guaranteed Quality Graded Delaunay Meshing	<b>Ryland Pace (Applied Science)</b> Breathing: An Emergent Network Property?		<i>Nathaniel Green, History</i> "The Inner Audience: Fisher Ames and Political Oratory, 1789-1797"  <i>John Miller, American Studies</i> "NASCAR's Early History: Southern Tradition or Stifled Ambition?"
3:00 pm	<b>James Deverick (Computer Science)</b> Unattended Secure NFS Mounts with Userspace Packet Filters	<b>Kevin Rudd (Applied Science)</b> Nonlinear Acoustic Concealed Weapons Detection		
3:30 pm	<b>Jing Zhang (Chemistry/ Applied Science)</b> Dechlorination of the Fire Retardant "Dechlorane Plus" in the Polymeric Systems: Mechanistic Studies	<b>Jianmin Ye (VIMS)</b> The Impacts of Affinity and Mutation in the Maturation of the Trout Antibody Response		<u>3:30 - 5:00 pm</u>
4:00 pm	<b>Kun Hou (Applied Science)</b> Synthesis of Aligned Carbon Nanotubes on TiW Substrate and their Field Emission Properties	<b>Caitlin Kight (Biology)</b> The Effects of Human Disturbance on Breeding Success of Eastern Bluebirds		<b>Workshop III: Professionalism and Publishing</b> <i>Dr. Matt Cohen, Department of English, Duke University</i>  <i>Dr. Martin Gallivan, Department of Anthropology, College of William &amp; Mary</i>  OTHER PARTICIPANTS TBA
4:30 pm	<b>Sue Henshon (Education)</b> How to Write and Sell a Novel	<b>Xin Zhao (Applied Science)</b> Field Emission Analysis and Optimization of Carbon Nanosheets (CNS) Edge Emitters		
5:00 pm	<b>RECEPTION – TIDEWATER A</b>			

# POSTER PRESENTATIONS

Friday, February 11, 2005

## Applied Science

- **Jill Bingham** -- Lamb Wave Tomography with Walking Toneburst Excitation
- **Hilary DeRemigio** -- A Mean-field Theory for Stochastic Attrition Viewed as an Absorption Time on a Terminating Markov Chain
- **Wen Gao** -- Sonar Sensor Interpretation for Ectogeneous Robots
- **George Williams** -- Modeling Cardiac Excitation-contraction Coupling: A Probability Density Approach to Whole Cell Modeling
- **Haibin Zhao** -- Interface Magnetization Reversal and Anisotropy in Fe/ALGaAs (001)

## Biology

- **D. Cameron Braasch** -- The Effects of Calcitonin Gene-Related Peptide on Thermosensitive and Temperature Insensitive Neurons in the Anterior Hypothalamic Neurons of the Rat

## Chemistry

- **Wei Lai, Steven Berry, and Deborah Bebout** -- Investigation of Group 12 Metal Complexes with Tridentate SNS Ligand by X-ray Crystallography and NMR
- **Sha Yang** -- Synthesis of Hydrogen-rich Polyimide Materials for Radiation Shielding

## Computer Science

- **Xin Chen, Haining Wang, Shansi Ren, and Xiaodong Zhang** -- Strong Cache Consistency Support for Domain Name System
- **Matthew Curtis-Maury** -- Exploiting SMT Architectures for Improved Communication Performance
- **Shansi Ren, Qun Li, Haining Wang, Xin Chen, and Xiaodong Zhang** -- Probabilistic Coverage for Object Tracking in Sensor Networks
- **Meghan Revelle and Robert Painter** -- Software Plans: Separating and Understanding Concerns in Code
- **Scott Schneider** -- Factory: An Object Oriented Parallel Programming Model

## Physics

- **Haijian Chen** -- The Systematic Study of Ga TOF SIMS High Mass Molecular Ion Registration, Composition and Fragmentation of Selected Peptide Hormones
- **Peter Harris** -- Incorporating Plume Dynamics in Ion Detection
- **Steve Richardson** -- Symbols of Operators and the Quantization of Mechanics
- **Mingyao Zhu** -- Carbon Nanostructures by Plasma Enhanced Chemical Vapor Deposition

## Psychology

- **Scott Cassidy** -- Does Inspiration Predict Well-Being?
- **Allison Eden** -- Inspiration and the Transmission of Poetic Insight

# AMERICAN CULTURES CAUCUS

Saturday, February 12, 2005

SESSION	TIDEWATER A	TIDEWATER B
10:30 am		<u>10:30am - 12:00pm</u>
11:00 am		Anglos, Art, and Aliens: Religion and America Commentator: Jennifer Hancock, American Studies
11:00 am		
11:30 am		<i>Angela Daniel, Anthropology</i> "The Cross and the Circle: Mediators of English and Powhatan Ideologies in the Seventeenth Century"  <i>Matthew White, American Studies</i> "Visions of Rapture, Alien and Divine: Premillennialist and UFOian Apocalypticisms in Contemporary America"  <i>Seth Feman, American Studies</i> "The Museum of Modern Art as Late Christian Ritual: Alfred Barr, Faith, and the Cold War"
noon	<b>LUNCH - TIDEWATER A</b>	
1:00 pm		<u>1:00pm - 2:30pm</u>
1:30 pm		By Land and By Sea: Landscape, Property, and Space Commentator: TBA
2:00 pm		<i>Catharine Dann, History</i> "William Pool's Couch: The 1756 Militia Law and the Role of Property in Colonial Pennsylvania and its Lower Counties"  <i>Grace Turner, Anthropology</i> "Bahamian Shipping in Black"  <i>James Rosenthal, American Studies</i> "Relating the Built and the Natural"
2:30 pm	<b>BREAK</b>	
3:00 pm		<u>3:00pm - 4:30pm</u>
3:30 pm		Visions of Violence: Consumerism, the Family, and the CIA Commentator: Tim Barnard, American Studies
4:00 pm		<i>Evan Cordulack, American Studies</i> "Consumer Under Fire: Consumerism and Vietnam War Films"  <i>Mikal Gaines, American Studies</i> "From Familiar Shadows: Hitchcock and Haynes Kill the American Family"  <i>Dave McCarthy, History</i> "Sydney Bristow & American Popular Culture: Representations of the C.I.A. in ABC's 'Alias'"

The American Cultures Caucus was coordinated by Lisa Heuwel and Erin Krutko (American Studies, Co-Chairs), Dave Brown (History), John Miller (American Studies), Jenn Osborne (Anthropology), Josh Beatty (History), Seth Feman (American Studies), and Kristen Proehl (American Studies).