



**2nd Annual
College of William & Mary
Graduate Research Symposium**

Friday, February 7, 2003

and

Saturday, February 8, 2003

University Center

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

GRADUATE RESEARCH SYMPOSIUM SCHEDULE

For session titles, see corresponding (#) in the
"Presenters and Projects" section

Friday, February 7, 2003

- Jing Zhang, New Copper Compounds as Flame-Retardant for Plasticized PVC

EDUCATION

- Diann Drummond, Funding and Services for Rural and Minority Gifted Students in a Western State
- Jenee James & Nicole Buttermore, Aggression and Sexuality in Relation to Domain-Specific Self-Esteem
- Jené Kapela, Academic Intervention Programs: Helping Students Help Themselves
- Susan Lamprecht & Jessica Goldman, Basic Concept Development Among Diverse Populations

PHYSICS

- Keoki Seu, Exchange Biasing in Materials
- Shannon Watson, Carbon Nitride as a Buffer Layer for Magnetic Thin Films

Session	James	York	Tidewater A
9:00 a.m.	Jia Huang, Applied Science (2)	Wendy Vogan, Physics (14)	Beth Kreydatus-History
9:30 a.m.	Hui Tian, Applied Science (4)	Lindy Dingserson & Paul Bradley VIMS (18)	Kristen Proehl & Lisa White Smith, American Studies (23)
10:00 a.m.	Christopher Kulp, Physics (11)	James Douglass, VIMS (19)	
10:30 a.m.	Sarah Phillips, Physics (12)	Jacques Oliver, VIMS (20)	Catharine Dann, History
11:00 a.m.	Donna Kaiser, Education (9)	Zhengmao Zhu, Applied Science (5)	Erin Krutko & Betty Sexton, American Studies (24)
11:30 a.m.	Josh LeClerc, Biology (7)	Wirawan Purwanto, Physics (13)	
Noon	LUNCH		
1:00 p.m.	Mark Pepper, Education (22)	Nimel Theodore, Applied Science (3)	W. Scott Eberhardt & Steve Feeley, History (25)
1:30 p.m.		Elizabeth Hoagland, Applied Science (1)	
2:00 p.m.	Conor Sipe, Biology (8)	Justin Conroy, Physics (10)	
2:30 p.m.	Kristina Gleason, Biology (6)		
3:00 p.m.			
3:30 p.m.		Moot Court (3:30-4:15p.m.)	
4:00 p.m.			
4:30 p.m.			
5:00 p.m.			
5:30 p.m.			
6:00 p.m.			

- Julie Warner, Controlling Permeability and Selectivity of Metal-polyimide Nanocomposite Films

BIOLOGY

- David Desrochers & David Cristol, Seasonal Bird Use of Created Tidal Wetlands of Southeast Virginia
- Chris Fetsch, Firing Rate Responses of Thermally Classified Anterior Hypothalamic Neurons to Melatonin in Tissue Slices from the White-footed Mouse, *Peromyscus leucopus*
- Rachel E. Horak, Mark Forsyth & Cindy Lee Van Dover, Does Sulfide Oxidation Produce *Beggiata* spp. Produce light?
- Melissa Kennedy, Developmental Stability and Symmetry
- Julie Anita Marie Kruse, Analysis of the Excretion of the Melatonin Metabolite 6-sulphatoxymelatonin in Urine of Photoresponsive and Nonphotoresponsive Laboratory Rats in Short and Long Photoperiods
- Kathleen Rathbun, Variation in Reproductive Behavioral Responses of *Peromyscus Leucopus* in Different Photoperiods
- Justine Whitaker, Plumage as a Microhabitat for Bacilli

COMPUTER SCIENCE

- Andriy Fedorov, Location Management in the Distributed Object Programming Model
- Aaron T. Hawkins, Minimizing Costs in Data Broadcasting Scheduling
- Richard Mills, Dynamic Adaptation of Memory Usage in a Conjugate-gradient Linear Solver
- Shansi Ren & Suzanna Schmeelk, Reflecting Host Movement in REMOS (Resource Monitoring System)
- Marcia Zangrilli, Comparison of Achievable Bandwidth Techniques through Integration in a Single Tool

CHEMISTRY

- Misty Odell, Synthesis and Properties of o-cresolphthalein Derivatives

Friday, February 7, 2003

Session	Tidewater B	Chesapeake	Commonwealth
9:00 a.m.	Donna Kaiser, Cheri Harrell & Ed Cannon Education (21)	POSTER SESSION (Posters Displayed)	
9:30 a.m.			
10:00 a.m.	Tracy Vidinghoff, Elizabeth Koenig & Jason Fabbricante Public Policy (16)		
10:30 a.m.			
11:00 a.m.			
11:30 a.m.			
Noon		LUNCH	
1:00 p.m.	Maggie Giammarco, Kendra Langlois, Walt Latham Public Policy (15)	POSTER SESSION (Posters Displayed)	
1:30 p.m.			
2:00 p.m.	Danielle West, Rebecca Filkins, Margaret Rhine Public Policy (17)		
2:30 p.m.			
3:00 p.m.		Plenary Poster Session	
3:30 p.m.			
4:00 p.m.			
4:30 p.m.			Plenary Session Maciek Sasinowski & Marley Brown (30)
5:00 p.m.			
5:30 p.m.		Reception	
6:00 p.m.			

GRADUATE RESEARCH SYMPOSIUM SCHEDULE
Second Annual American Culture Conference
 Saturday, February 8, 2003

Session	Tidewater A	Tidewater B
12:30 p.m.		Jennifer Oast, History
1:00 p.m.		Matthew White, American Studies (26)
2:00 p.m.		BREAK
2:15 p.m.		Brian Daugherty & Sarah Trembanis, History (27)
3:00 p.m.		BREAK
3:15 p.m.		Jennifer Blanchard & Caroline Nichols, American Studies (28)
3:30 p.m.		BREAK
4:00 p.m.		Timothy Barnard & Matthew Bumb, American Studies (29)
4:15 p.m.		BREAK
4:30 p.m.		
4:45 p.m.		
5:00 p.m.		
5:30 p.m.		
5:45 p.m.		
6:00 p.m.	Keynote Address	
6:15 p.m.	Paul Boyer, Harrison Professor of History (31)	
6:30 p.m.		
6:45 p.m.		
7:00 p.m.		

Plenary Session
 Friday, February 7, 2003
 Commonwealth Auditorium, 4:30 p.m.

30. Dr. Maciek Sasinowski, CEO of Incogen Inc. and Dr. Marley Brown, Colonial Williamsburg Foundation and Professor of History and Anthropology, College of William and Mary

“Careers at the Interface between the Academy and the Private Sector”

Keynote Address
 Saturday, February 8, 2003
 Tidewater A, 6:00 p.m.

31. Dr. Paul Boyer, William and Mary Harrison Professor of History

“The Scholarly Life; The Dilemmas of Citizenship: Some Random Reflections”

Posters

All posters will be displayed in Chesapeake A and B from 9:30 a.m. until 6:30 p.m. From 3:00 to 4:00 p.m., authors will be available to discuss their posters.

APPLIED SCIENCE

- Wen Gao, Sonar Sensor Interpretation for Ectogeneous Robots
- Xianlong Ge & William Starnes, Jr., Selective Chlorination of Chloroalkanes in Radical-Complexing Solvents
- Jidong Hou, Ultrasonic Periodontal Probing Based on the Dynamic Wavelet Fingerprint
- Kevin Leonard, Guided Wave Helical Ultrasonic Tomography of Pipes

26. Creating Identities in Virginia History: Race, Religion, Slavery, and Self (Tidewater B 2/8 12:30 pm)

Jennifer Oast, History, "Public Slaves in Private Hands: Colonel Charles Lynch and Loyalist Slaves during the American Revolution"

Matthew White, American Studies, "Constructing Southern Identity: The Impact of the Civil War on a Baptist Newspaper in Virginia"

Comment: TBA

27. Representing the Race: The Politics of Race in Twentieth-Century America (Tidewater B 2/8 2:15 pm)

Brian Daugherty, History, "The NAACP and the Campaign for School Desegregation in Virginia"

Sarah Trembanis, History, "Clean Living: Baseball Players and Public Morality in the Negro Leagues"

Comment: Melissa Ooten, History

28. Familial Bonds: Constructing the Family in Nineteenth Century Print Culture (Tidewater B 2/8 3:30 pm)

Jennifer Blanchard, American Studies, "Such Devoted Sisters: *Little Women* and the Alcott Vision of Siblinghood"

Caroline Nichols, American Studies, "Yesterday's Craze: The Decline of the Antebellum Gift Book"

Comment: Brian Geiger, History

29. Redefining the Intellectual: Public Figures on an International Stage (Tidewater B 2/8 4:45 pm)

Timothy Barnard, American Studies, "In Search of Greener Hills: Herringway's Quest "out past" the African Travel Narrative"

Matthew Bumb, American Studies, "Desolation Row: Christopher Hitchens and the Public Intellectual"

Comment: Robert K. Nelson, American Studies

Presenters and Projects

Oral Presentations

APPLIED SCIENCE

1. Elizabeth Hoagland, 2H Analysis of DAB Dendrimers (York 2/7 1:30 pm)
2. Jia Huang, Surface Studies Under Real Conditions: Sum Frequency Generation (James 2/7 9 am)
3. Nimes Theodore, Modifying the Surface Properties of Stainless Steel Using PSII (York 2/7 1 pm)
4. Hui Tian, Native Chemistry of Reactive Metal Surfaces: Niobium (James 2/7 9:30 am)
5. Zhengmao Zhu, Surface Modification of Polyester Film (York 2/7 11:00 am)

BIOLOGY

6. Kristina Gleason, Functional and Regulatory Analysis of X-msr in the Developing Xenopus Vascular System (James 2/7 2:30 pm)
7. Josh LeClerc, Do Golf Courses Provide Quality Avian Habitat? - Levels of Fluctuating Asymmetry On and Off Golf Courses. (James 2/7 11:30 am)
8. Conor Sipe, Cloning and Functional Characterization of HIF-1alpha Upstream Regulatory Regions in *Xenopus laevis* (James 2/7 2 pm)

EDUCATION

9. Donna Kaiser, Family Counselors in Transition: A Multiple Case Study (James 2/7 11 am)

PHYSICS

10. Justin M. Conroy, Journeys into Extra Dimensions (York 2/7 2 pm)
11. Christopher W. Kulp, Controlling Nonlinear Physical Systems (2/7 James 10 am)

12. Sarah Phillips, Monitoring Beam Quality for G0 Experiment at Jefferson Lab (James 2/7 10:30 am)
13. Wirawan Purwanto, Quantum Monte Carlo Method for Bosons: A Quest for the Many-Body Ground State (York 2/7 11:30 am)
14. Wendy S. Vogan, Changing Surface Properties: A New Perspective (York 2/7 9 am)

PUBLIC POLICY

15. Maggie Giammarco, Kendra Langlois & Walt Latham, Jr., Arthritis Care in Managed Care Populations (2/7 Tidewater B 1 pm)
16. Tracy Vidinghoff, Elizabeth Koenig & Jason Fabbricante, The Collection of DNA Evidence in Reported Rape and Sexual Assault Cases: A Virginia Case Study (2/7 Tidewater B 10 am)
17. Danielle West, Rebecca Filkins & Margaret Rhine, Phased Retirement: A Viable Option? (2/7 Tidewater B 2 pm)

VIRGINIA INSTITUTE OF MARINE SCIENCE

18. Lindy Dingson & Paul Bradley, An Oasis in the Encroaching Sea Development: A Comparative Case Study of Growth and Management Planning in Coastal Virginia (York 2/7 9:30 am)
19. James G. Douglass, Functional Differences and Competitive Interactions of Pericaridean Mesograzers: Life and Death in the Eelgrass (York 2/7 10:00 am)
20. Jacques L. Oliver, The Heterotrophic Bacterial Response During the Meso-scale Southern Ocean Experiment (SOFex) (York 2/7 10:30 am)

Workshops

EDUCATION

21. Donna Kaiser, Cheri Harrell & Ed Cannon, Restless Creativity: Promoting Your Own Personal and Professional Development (Tidewater B 2/7 9 am)
22. Mark R. Pepper, Bequia: The Influence of Ecology, History, and Culture on the Education of the Children of the Lesser Antilles (James 2/7 1 pm)

Panels

23. Getting the Message Out: Gender, Race and the Articulation of the Private in Public Movements (Tidewater A 2/7 9 am)

Beth Kreydatus, History, "From the Miss America Protest to About Face: The Feminist Reaction to Beauty Culture"

Kristen Proehl, American Studies, "Race, Gender, and the Anti-Slavery Dialogue: Exploring the Relationship between Harriet Jacobs' *Incidents in the Life of a Slave Girl* and Jurgen Habermas' Theory of the Public"

Lisa White Smith, American Studies, "The 'Saddle-Colored Sapphira' versus the 'Slimy Rattlesnake': The Rhetorical Mêlée of Ida B. Wells and Edward Carmack on the Subject of Lynching"

Comment: Andrea Westcot, American Studies

24. The Politics of Public History (Tidewater A 2/7 10:30 am)

Catharine Dann, History, "Building in a Box: The Slate Roof House of Philadelphia and the Politics of Preservation, Relic-Making, and Reconstruction"

Erin Krutko, American Studies, "Colonial Williamsburg: Museum or Amusement Park?"

Betty Sexton, American Studies, "Saving Places: The Arthur Ashe and Bojangles Monuments in Richmond, Virginia"

Comment: Buddy Paulett, History

25. Defining Self and Other in Colonial America: The Case of Ethnohistory (Tidewater A 2/7 1 pm)

W. Scott Ehardt, History, "Northeastern American Indian Literacy: Colonialism and Resistance in the Seventeenth and Eighteenth Centuries"

Steve Feeley, History, "Warriors, Refugees, and the Shaping of Tuscarora Identity in the 18th Century"

Comment: TBA