



College of William and Mary

Third Annual

Graduate Research Symposium

Friday, February 13, 2004

and

Saturday, February 14, 2004

University Center

GRADUATE RESEARCH SYMPOSIUM SCHEDULE
Friday, February 13, 2004

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

| Session | James Room | York Room |
|----------|---|--|
| 10:00 am | Nimel Theodore, Applied Science (6) Mei Li, Biology (9) Suzanne Cole, Biology (7) | Brendan Burke, Anthropology (1) Melissa Eaton, Anthropology (2) |
| 11:00 am | Sarah Phillips, Physics (15) Vahagn Nazaryan, Physics (14) | Tracy M. Louk & Janet McGrath, Business Adm. (28) |
| Noon | LUNCH IN THE CHESAPEAKE ROOM | |
| 1:00 pm | Plenary Poster Session | |
| 2:00 pm | Jennifer Wilkes, Physics (16) Andrey Chernikov, Computer Science (12) | Jessica Wallace, Biology (11), Wen Gao, Applied Science (3) |
| 3:00 pm | Alissa Richmond, Biology (10) Taylor Heyl, Biology (8) | Jianguo Qian, Applied Science (5) Kevin Leonard, Applied Science (4) Marko Pepper, Education (13) |
| 4:00 pm | | |
| 5:00 pm | | |

Highlights

General Lecture - Christopher Kulp,
The Physics of Martial Arts, 4:30 pm, Tidewater Room B

Reception follows in the Chesapeake Room

Friday, February 13, 2004

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

| Session | Tidewater A | Tidewater B | Chesapeake |
|----------|--|--|------------------------------|
| 10:00 am | Amy Speckart, American Studies | | |
| 11:00 am | Buddy Paulett, History Erin Krutko, American Studies (17) (10:00 - 11:30 am) | | |
| Noon | LUNCH IN THE CHESAPEAKE ROOM | | |
| 1:00 pm | Lisa Heuvel, American Studies Melissa Eaton, Anthropology Annette Saunooke, American Studies Angela L. Daniel, Anthropology (18) (1:00 - 2:45 pm) | | Plenary Poster Session |
| 2:00 pm | | | |
| 3:00 pm | Mikal Gaines, American Studies Peggy Aartien, American Studies (19) (3:00 - 4:30 pm) | | Posters Displayed |
| 4:00 pm | | General Lecture Christopher Kulp, Physics (26) 4:30 pm | |
| 5:00 pm | RECEPTION IN THE CHESAPEAKE ROOM | | |
| 6:00 pm | | | |

GRADUATE RESEARCH SYMPOSIUM SCHEDULE
Third Annual American Culture Conference
 Saturday, February 14, 2004

*the Graduate Student Association, the Graduate Council
 and the American Studies Program.*

| Session | Tidewater A | Tidewater B |
|----------|---|--|
| 8:30 pm | | |
| 9:00 pm | | Daniel O. Sayers, Anthropology Sean P. Harvey, History Ben Swenson, American Studies (20) |
| 9:30 pm | | (8:00 - 10:00 am) |
| 10:00 pm | | Jim David, History Matthew White, American Studies (21) (10:15 - 11:15 am) |
| 10:30 pm | | Jennifer Hancock, American Studies John Miller, American Studies Meredith Crawford, American Studies (22) (11:30 - 1:00 pm) |
| 11:00 pm | | |
| 11:30 pm | | |
| Noon | | |
| | | |
| 12:30 pm | | |
| | | |
| 1:00 pm | | Kate Scott, American Studies Evan Cordulack, American Studies John Weber, History (23) (1:15 - 2:45 pm) |
| 1:30 pm | | |
| 2:00 pm | | |
| 2:30 pm | | |
| 3:00 pm | | Andrea K. Westcott, American Studies Libby Neidenbach, American Studies Ellen E. Adams, History (24) (3:00 - 4:30 pm) |
| 3:30 pm | | |
| 4:00 pm | | |
| | | |
| 4:30 pm | | Seth Feman, American Studies Merit Kaschig, American Studies Margaret L. Freeman, American Studies (25) (4:45 - 6:15 pm) |
| 5:00 pm | | |
| 5:30 pm | | |
| 6:00 pm | | |
| 6:30 pm | Keynote Address Brad Evans, Rutgers University (27) (6:30 - 7:30 pm) | |

- Salmaan F. Toor, Domain-Specific Self-Esteem and Domain-Specific Resilience

Presenters and Projects

Oral Presentations

ANTHROPOLOGY

1. Brendan Burke, Ethnohistoric and Paleopathological Research of a Late Woodland Canid Burial from Site 44CH62 (York 2/13 10:00 am)
2. Melissa A. Eaton, Hegemony, Western Medicine, and Concepts of Indian Health: Exploring the Medical Records of Dudley Indians, 1811-1840 (York 2/13 10:20 am)

APPLIED SCIENCE

3. Wen Gao, Sonar Sensor Interpretation for Ectogenous Robots (York 2/13 2:20 pm)
4. Kevin R. Leonard, Nondestructive Evaluation of Pipes (York 2/13 3:20 pm)
5. Jianguo Qian, Computed Tomography Nuclear Imaging of Small Animals (York 2/13 3:00 pm)
6. Nimes Theodore, Surface Modification Using Plasma Immersion Ion Implantation (James 2/13 10:00 am)

BIOLOGY

7. Suzanne Cole, The Effects of Overexpressing Alternative Isoform Pax-5e *in vivo* (James 2/13 10:40 am)
8. Taylor P. Heyl, Environmental Conditions in Deep-Sea Clam Beds at the Blake Ridge Methane Seep (James 2/13 3:20 pm)
9. Mei Li, Determination and Specification of GABAergic and Glutamatergic Neural Phenotypes (James 2/13 10:20 am)
10. Alissa Richmond, Sperm-oocyte Membrane Interactions in the Nematode *Caenorhabditis elegans* (James 2/13 3:00 pm)
11. Jessica L. Wallace, Reproductive Attributes of Polynoid Polychaetes from the East Pacific Rise (York 2/13 2:00 pm)

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,

BUSINESS ADMINISTRATION

28. Tracy M. Louk & Janet McGrath, Market Research for Gannett Broadcasting (James 2/13 11:40 am)

COMPUTER SCIENCE

12. Andrey Chernikov, Parallel Guaranteed Quality Delaunay Meshing (James 2/13 2:20 pm)

EDUCATION

13. Mark R. Pepper, A Philosophy of Education: Is Education Useless? (York 2/13 3:40 pm)

PHYSICS

14. Vahagn Nazaryan, A New Particle: The Pentaquark (James 2/13 11:20 am)
15. Sarah K. Phillips, Strange Quarks and the G⁰ Experiment in Hall C at Jefferson Lab (James 2/13 11:00 am)
16. Jennifer Wilkes, Laser Measurement System for NASA Wind Tunnels (James 2/13 2:00 pm)

BIOLOGY

- T. Ryan Crabtree, Morphology and Attractiveness of Male Zebra Finches
- Jennifer Dreyer, Time-series Comparison of Hydrothermal-Vent Mussel Bed Communities on the East Pacific Rise between 1999 and 2001
- Catlin Kight, How Do Golf Courses Affect the Behavioral Ecology of Eastern Bluebirds?
- Kevin Woolfrey, Effects of Postnatal Ethanol Administration on Sustained Attention Performance in Rats

COMPUTER SCIENCE

- Andrey Chernikov, Parallel Delaunay Refinement by Concurrent Point Insertion
- James Deverick, Byzantine Perimeter Firewalls
- Andriy Fedorov, Clam: Light Communication Layer for Asynchronous Mobile Computations
- Robert Painter, Toward a Formal General Intermediate Dependability Modeling Language

EDUCATION

- Jocelyn G. Henry-Whitehead, A Study Exploring the Educational Needs of African-American Pastors' Wives within Baptist Congregations

PHYSICS

- Steve Richardson, Stabilized by Noise

PSYCHOLOGY

- Evie J. Gerber, Stress, Humor Style, and Social Support: Predictors of Health Symptomatology
- Ryan T. Johnson, Salivary Testosterone and Domain-Specific Self-Esteem
- Bryan Koenig, Do We Construe Others Like We Construe Ourselves? An Application of Cross-Cultural Psychology

General Lecture
Friday, February 13, 2004
Tidewater Room B, 4:30 pm

26. Christopher Kulp, Physics, The Physics of Martial Arts

Keynote Address
Saturday, February 14, 2004
Tidewater A, 6:30 pm

27. Dr. Brad Evans, Assistant Professor of English,
Rutgers University

**The Ends of Culture: W.E.B. Du Bois and
the Legacy of Boasian Anthropology**

Co-Sponsored by the Charles Center and Student Activities

Posters

All posters will be displayed in Chesapeake A
from noon until 6:00 pm.
From 1:00 to 2:00 pm, authors will be available
to discuss their posters.

APPLIED SCIENCE

- Jeffrey R. Groff, The Effect of Feedback Inhibition in Network Simulations of Retinogeniculate Transmission
- Jie Zhang, Direct Calculation of Puff Statistics from Stochastic Automata Network Models of Instantaneously-Coupled Intracellular Calcium Channels
- Jing Zhang, Mechanism for the Dechlorination of "Dechlorane Plus" by Mixtures of Antimony (III) Oxide and Polymers

Panels

17. Revisiting Colonial Geographies (Tidewater A 2/13 10:00 am)

Amy Speckart, American Studies, Slavery on a Late-Eighteenth Century Chesapeake Plantation, *Work-In-Progress*

Buddy Paulett, History, The Bewildering World of William De Brahm

Erin Krutko, American Studies, "The Granddaddy of Them All": Colonial Williamsburg and Museum Reproductions

Comment: Joshua Beaty, History

18. Perceptions and Marketing of Native Identities (Tidewater A 2/13 1:00 pm)

Lisa Heuvel, American Studies, Pocahontas's Crossing Over: Rebecca Rolfe in London, 1616-1617, *Work-In-Progress*

Melissa Eaton, Anthropology, Maintenance of Cultural Boundaries Among the Gwich'in at Venetie, Alaska

Annette Saunooke, American Studies, Dancing Bears and Caged Indians: The Effects of Marketed Indian Imagery for The Eastern Band of Cherokee Indians, *Work-In-Progress*

Angela L. Daniel, Anthropology, The True Story of Pocahontas

Comment: Stephen Feeley, History

19. Watching Culture (Tidewater A 2/13 3:00 pm)

Mikal Gaines, American Studies, The Beating Song: Reading the Collision of Violence, Sexuality, Identity, and Cultural Expressions in Spike Lee's *Summer of Sam*, *Work-In-Progress*

Peggy Aarlien, American Studies, Anything Goes: "Girls Gone Wild"

Comment: Andrea K. Westcott, American Studies

20. Whiteness, Slavery, and Empire, 1730-1860 (Tidewater B 2/14 8:30 am)

Daniel O. Sayers, Anthropology, The Great Dismal Swamp as a Landscape of the African Diaspora: Reconstructing the Political Economies of Maroons and Canal Laborers, 1730-1860, *Work-In-Progress*

Sean P. Harvey, History, To "sustain their republican principles:" Debate over the Franchise in the Pennsylvania Constitutional Convention of 1837-38, *Work-In-Progress*

Ben Swenson, American Studies, Abolitionist Reaction to Manifest Destiny in the United States

Comment: James Spady, American Studies

21. Creating Communities Through Exclusion (Tidewater B 2/14 10:15 am)

Jim David, History, Love and Alienation: Anti-Tory Rhetoric in Revolutionary New York

Matthew White, American Studies, Facets of Antebellum Anti-Catholicism

Chair: Rob Nelson, American Studies

22. Poetic Power and Identity (Tidewater B 2/14 11:30 am)

Brown Bag Lunch Panel

Jennifer Hancock, American Studies, "What would you do with me if I came 'in white?': Dickinson's Use of Ghostly Imagery in Forging a Poetic Identity

John Miller, American Studies, Poetic Politics: William Gilmore Simms and the Periodical Press

Meredith Crawford, American Studies, Reading Gwendolyn Brooks' Children Books: A Negotiation Between Race and Modernism, *Work-In-Progress*

Chair: Kristen Proehl, American Studies

23. Legacies of War (Tidewater B 2/14 1:15 pm)

Kate Scott, American Studies, I Ain't No Fortunate Son: Voices of Vietnam Women Veterans, *Work-In-Progress*

Evan Cordulack, American Studies, Saigon Shopping Spree: Military Culture and Shopping During the Vietnam War, *Work-In-Progress*

John Weber, History, The Shadow of the Revolution: South Texas, the Mexican Revolution and the Rise of the Mexican American Working Class

Comment: Melissa Eaton, Anthropology

24. Vampires, Nuns, and Prostitutes (Tidewater B 2/14 3:00 pm)

Andrea K. Westcott, American Studies, "The Fangs of a Harpy...The Part of a Vampire": Discourses of Elite Decay and Feminine Corruption in the Infanticide Case Against Nancy Randolph

Libby Neldenbach, American Studies, Light-Skinned Prostitutes, Black Madams, and White Men, Oh My!: Carl Galmon and His Problem with Black Female Prostitution in Antebellum New Orleans

Ellen E. Adams, History, "Consecrated Female Talent and Influence": The Image of the Nun in the Writings of Protestant Women Educational Reformers

Comment: Beth Komski, History

25. Gender, Goods, and God (Tidewater B 2/14 4:45 pm)

Seth Feman, American Studies, For the Love of God: Consuming Christ in the Cold War, *Work-In-Progress*

Merit Kaschig, American Studies, Crossing the Threshold of Modernity: Female Agency and the Workings of Bio-Power

Margaret L. Freeman, American Studies, Constructing Women's Identity Through Advertising, *Work-In-Progress*

Comment: Ben Anderson, American Studies