

URCAD 2003

Participants

*The 2003 URCAD was a campus-wide celebration of undergraduate research and creative achievement at UMBC. Dr. Shirley Strum Kenny, president of the State University of New York at Stony Brook and chair of the Boyer Commission on Educating Undergraduates in the Research University, served as the gala event's distinguished guest speaker. Dr. Kenny is widely recognized for her initiatives to build bridges between the academic and business communities and has also been active in business and education collaborations on workforce issues. One of Dr. Kenny's major concerns is the improvement of undergraduate education. In order to achieve this goal she established the Boyer Commission on Educating Undergraduates in the Research University to create a new model of undergraduate education for major research universities. Funded by the Carnegie Foundation for the Advancement of Teaching, the Commission in 1998 published *Reinventing Undergraduate Education: A Blueprint for American Research Universities*.*

The 2003 URCAD Participants presented their work at a variety of exhibit locations including the Albin O. Kuhn Library and Gallery, UC Ballroom and Fine Arts Building Corridor and Studio. The list of 2003 presenters and the titles of their presentations demonstrates the quality, quantity and breadth of student projects taking place at UMBC.

Participants

Adedji, Abimbola - : Computer Science

“Instant Messaging: Error Tolerance and Perception”

Professor Jeffrey D. Campbell

Allen, Kevin - Mathematics

“A Parallel Matrix-Free Implementation of the Conjugate Gradient Method for the Poisson Equation”

Professor Matthias K. Gobbert

Ameen, Fatim I. - Visual Arts

Typeface Design: “Haruf”

Professor Guenet Abraham

Appelt, Chris - Mechanical Engineering

“Society of Automotive Engineers: 2003 SAE Midwest Mini Baja® All Terrain Vehicle”

Professor William Wood

Blanchard, Patricia - Music

See Student Musical Ensemble #2

Bronson, Samuel - History

“The Creoles of Russian-America: A Study of the Identity of the Children of Russian Fathers and Native Aleut Mothers, from Contact to the Sale of Alaska in

McCormick, Chad - Structural Biochemistry

“Identification of a High Affinity Nucleocapsid Protein Binding Element within the Rous Sarcoma Virus Psi RNAPackaging Signal: Implications for Genome Recognition”

Professor Michael F. Summers

Metzger, Christiana - Health Administration and Policy

“An Ethnographic Study on AHEAD’s Growth in the Meatu District of Tanzania”

Professor Joyce L. Riley

Miller, Erin - Political Science

“Military Tribunals: What Happened to Due Process?”

Professor Carol Barner-Barry

Northrop, Caroline - American Studies

“Punk Rock Manifestations in Cyberspace: Production, Consumption, Diy, and Authenticity”

Professor Patrice McDermott

1867 ”

Professor Marjoleine Kars

Crump, Jason - Visual Arts

Film “Habaneros”

Professor Mark Street

Cunningham, Megan - Music

See Student Musical Ensemble #1

DeGuzman, Kristine - Social Work

“OASDI: Saving the Plan for the Future”

Professor Claudia Lawrence-Webb

Desi, Jonathan - Mathematics

“A Numerical Study of Nucleation in Stochastic Cahn-Morral Systems”

Professor Thomas Wanner (now at George Mason University)

Duffy, Jerrel, Jr. - Political Science

“NGOs, MNCs and the State: A New Equilibrium Between International and Domestic Politics”

Professor Cynthia A. Hody

Eaton, Eric - Computer Science

“A Multi-tier Architecture for Video Communication Systems”

Professor Padma Mundur

Farina, Nicole - Mechanical Engineering

“Dynamic Cell Seeding of Collagen Scaffolds”

Professor Charles Eggleton

Fitzpatrick, Mary M. - Biochemistry & Molecular Biology

“Detection of Chemical Agents in Soil Using Protein Profiling”

Professor Brian Bradley

Fleischer, Corey - Mechanical Engineering

“Society of Automotive Engineers: 2003 SAE Midwest Mini Baja® All Terrain Vehicle”

Professor William Wood

Hall, Ian - Biological Sciences

“Sensory Deficits in Laboratory Animals”

Pallone, Karis - Health Administration and Policy

“Teen Birth Rates in the Hispanic Population: Understanding the Influence of Culture, Geography, and Measurement”

Professor Jessica Kelley-Moore

Parker, Chaye - Modern Languages & Linguistics

“Anti-American Sentiment in the French Press at the Turn of the Millennium”

Professor Julie Fette

Perry, Jay - Visual Arts

“Book of the Dead: Impermanence, Blight, and Renewal in Greater Baltimore”

Professor Timothy Nohe

Petenbrink, Eric - History

“ ‘Who But Hoover?’ The 1928 Presidential Election in Maryland”

Professor John Jeffries

Phelan, Timothy - Biological Sciences

“Unusual Lymphocyte Population Found in NeuT and Stat6_ NeuT Mice”

Professor Suzanne Ostrand-Rosenberg

Pohl, Aimee - History

“Denver’s Communist Party Women in the Age of McCarthyism: An Oral History”

Professor Kriste Lindenmeyer

Reamy, Amber - Music

See Student Musical Ensemble #1

Reppert, Todd - Mechanical Engineering

“Society of Automotive Engineers: 2003 SAE Midwest Mini Baja® All Terrain Vehicle”

Professor William Wood

Richman, Chad - Mechanical Engineering

“Society of Automotive Engineers: 2003 SAE Midwest Mini Baja® All Terrain Vehicle”

Professor William Wood

Rund, Michael - American Studies

“Feeding the Hungry: A Critical Look at Food Assistance Programs in Maryland”

Professor Kathy Scales Bryan

Professor Frank Hanson

Handler, Zachary - Visual Arts
Photography “Sticks and Stones: Bullies, Brats, and Bashers”
Professor Calla Thompson

Higman, Kevin - Political Science
“Why Not Simply Call Neutrality Fallacy?”
Professor Cynthia A. Hody

Holter, Colin - Music
“Variations: Go Rin No Sho”
Professor Linda Dusman

Horner, Kimberly - Music
See Student Musical Ensemble #1

Hsu, Thomas - Biochemical Engineering
“Biosensors for Glucose from Genetically Engineered E.coli Binding Proteins”
Professor Leah Tolosa

Kaupp, Lauren - Chemistry
“In Vitro Reactivity of Copper (II) with A_n Peptides”
Professor Veronika Szalai

Kelm, Paul - Theatre
“LCD Gobo”
Professor Terry Cobb

Kinde, Isaac A. - Biochemistry
“Antiviral Inhibition of the HIV-1 Capsid Protein”
Professor Michael F. Summers

Kline, Wesley - Visual Arts
“Nothing Will Have Taken Place But Place”
Professor Mark Durant

Kloetzli, Liesel - Music
See Student Musical Ensemble #2

Kridler, Nicholas - Mathematics
“Numerical Simulation of Coupled Fluid Flow and Mechanical Deformation Models”
Professor Susan Minkoff

Sallerson, Amber - Mathematics
“Flow of an incompressible viscous fluid through a porous medium with periodic microstructure”
Professor Rouben Rostamian

Schweitzer, Ilse - English
“King Arthur the Tyrant and the Scottish Call for Freedom”
Professor Gail Orgelfinger

Seiple, Stewart - Music
See Student Musical Ensemble #2

Simmons, Audrey L. - Interdisciplinary Studies
“The Ellicott City Colored School – Restored: A Memorial to African American Education in Howard County, Maryland”
Professor Ann C. Frankowski

Smith, Chris - Visual Arts
“Yantra”
Professor Vin Grabill

Smyth, Maura - English
“Outer Spaces and Etralinguistic Places: The Poetry of Edwin Morgan”
Professor Christoph Irmischer

Student Musical Ensemble #1 - Music
G.F. Handel Songs: ‘Meine Seele hört im Sehen and Das zitternde Glänzen
UMBC Department of Music - Collegium musicum:
Baroque Ensemble No. 1
Cunningham, Megan, soprano
Reamy, Amber, oboe
Horner, Kimberly, harpsichord
Professor Joseph C. Morin

Student Musical Ensemble #2 - Music
Scarlatti Cantata, Clorui mia, clori bella for tenor, recorder and continuo
UMBC Department of Music - Collegium musicum:
Baroque Ensemble No. 2
Marshall, David, tenor
Seiple, Stewart, recorder
Kloetzli, Liesel, harpsichord

Kyrova, Lucie - History
“Native American Women and Adoption in Seventeenth-Century New France”
Professor Marjoleine Kars

Latrick, Chrysa - Chemistry and Biochemistry
“Creating a Gene 32_ T4 Bacteriophage”
Professor Richard Karpel

Loeliger, Erin - Biochemistry
“Antiviral Inhibition of the HIV-1 Capsid Protein”
Professor Michael F. Summers

Macura, Tomasz - Mathematics
“System for Checking the Logical Consistency of Free-Tet High Resolution Computed Tomography Reports”
Professor Jacob Kogan

Marinelli, Ale - Mechanical Engineering
“Society of Automotive Engineers: 2003 SAE Midwest Mini Baja® All Terrain Vehicle”
Professor William Wood

Marshall, David - Music
See Student Musical Ensemble #2

Mathew, Lisa - American Studies and Information Systems
“South Asian Women in Film: Social Constructions and the New Self”
Professor Mike Hummel, American Studies

McAllen, John - Structural Biochemistry
“Identification of a High Affinity Nucleocapsid Protein Binding Element within the Rous Sarcoma Virus Psi RNA Packaging Signal: Implications for Genome Recognition”
Professor Michael F. Summers

Blanchard, Patricia, cello
Professor Joseph C. Morin

Tailor, Yogita - Structural Biochemistry
“Identification of a High Affinity Nucleocapsid Protein Binding Element within the Rous Sarcoma Virus Psi RNA Packaging Signal: Implications for Genome Recognition”
Professor Michael F. Summers

Trappler, Michelle - Psychology
“Intake Regulation Via Flavor-Density Pairing”
Professor Zoe Warwick

Tofghi, Babak - Interdisciplinary Studies
“Diabetes Prevention in Baltimore’s Underserved Spanish-Speaking Immigrant Population”
Professor Kevin Eckert

Vandenhuerk, Laura - Psychology
“Parental Behaviors and Expectations of the Child Living with Epilepsy”
Professor Karen Freiberg

Wells, Chris - Biological Sciences
“Sensory Deficits in Laboratory Animals”
Professor Frank Hanson

Williams, Matthew - Biological Sciences
“Do Rhodopsins and Color Opsins Share a Similar Electrostatic Interaction?”
Professor Phyllis Robinson

Woodard, Jennifer - Visual Arts
Typeface Design: “Art Noufau”
Professor Guenet Abraham