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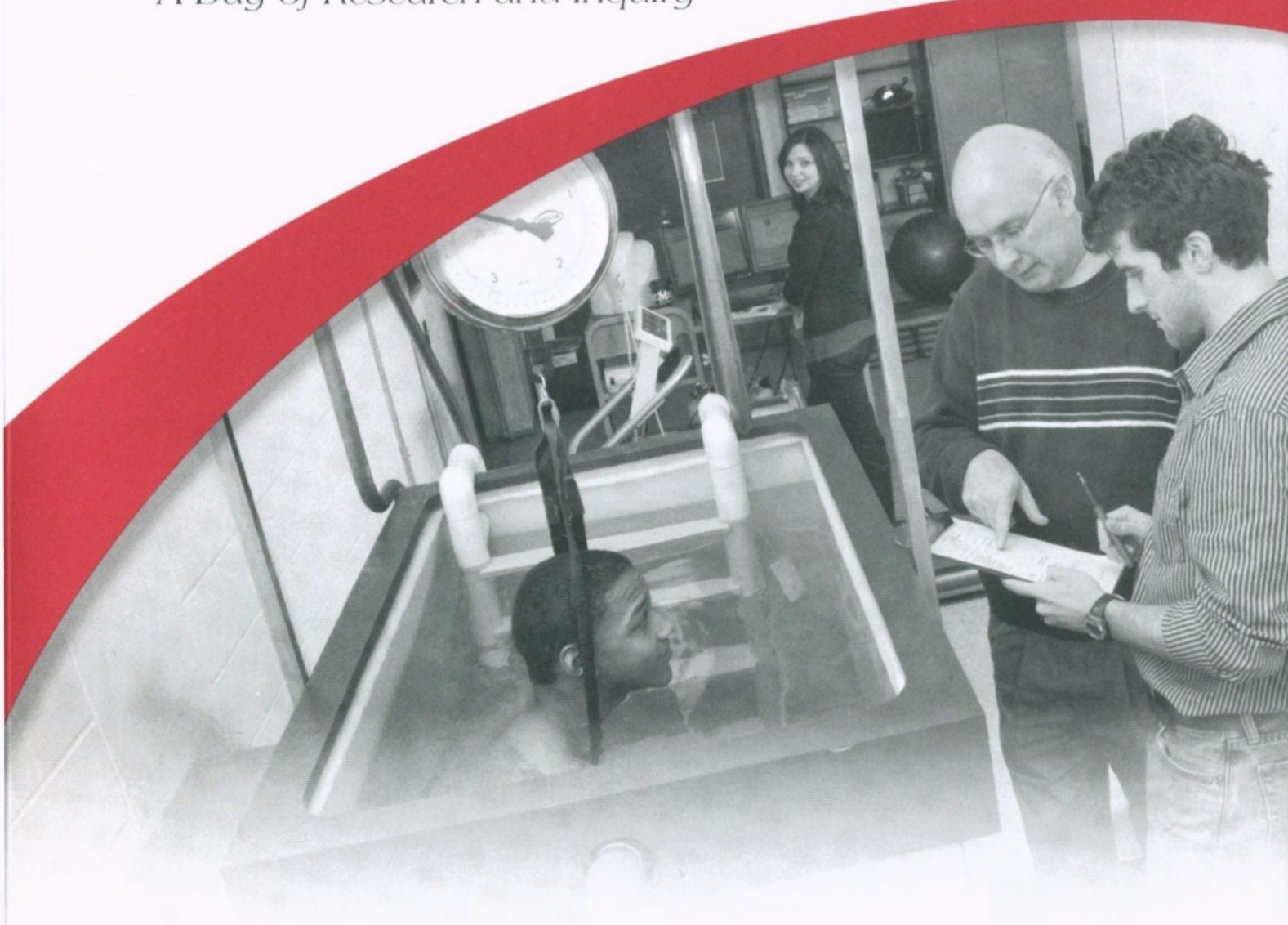
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Scholars' Day

A Day of Research and Inquiry



April 16, 2010

Schedule of Events/Abstracts

SUNY
Cortland



Scholars' Day

April 16, 2010

Old Main

SUNY Cortland

Schedule of Events

- | | |
|-----------------------|--|
| 8:30-9:45 a.m. | Concurrent Sessions I |
| 10:00-11:15 a.m. | Concurrent Sessions II |
| 11:30 a.m.-12:30 p.m. | Keynote Address
Brown Auditorium
<i>"Leveraging Research for Action"</i>

Brenda L. Henry '95, MPH, Ph.D.
Research and Evaluation Program Officer
Robert Wood Johnson Foundation
Princeton, New Jersey |
| 12:30-1:30 p.m. | Poster Sessions
Lobby Area, 1 st & 2 nd Floors |
| 1:30-2:45 p.m. | Concurrent Sessions III |
| 3:00-4:15 p.m. | Concurrent Sessions IV |
| 4:30-5:15 p.m. | Closing Session
Brown Auditorium

<i>SUNY Cortland Rock, Jazz, and
Blues Ensemble
Africana Studies and Communication
Studies: Hip Hop Culture</i> |
| 7:00 p.m. | Special Post-Scholars' Day Lecture
Brown Auditorium

<i>"From Overconsumption to Time Affluence:
Trading 'Stuff' for Time, Health, Families,
And the Environment"</i>

John de Graaf , Executive Director
TAKE BACK YOUR TIME |

Scholars' Day is an event designed to demonstrate, highlight, promote, and encourage scholarship among SUNY Cortland faculty, staff, and students. Our scholarly work is crucial to who and what we are as individuals and as an institution. This day is an attempt to help our students and the general public understand and appreciate what we do, to draw students into the intellectual life and the excitement of scholarly work, and to publicize the accomplishments of our faculty, staff, and students.

Throughout the day, presentations will be made by faculty, staff, students, and alumni. In addition to attendance by members of the campus community, invitations have been extended to area high school students and their advisors, our elected representatives, and to the Cortland community at large.

Support for Scholars' Day has been received from the President's Office, the Provost and Vice President for Academic Affairs' Office, The Cortland Fund, The Cortland College Foundation, and Auxiliary Services Corporation.

Our appreciation to the Scholars' Day Committee:

R. Bruce Mattingly, Arts & Sciences (Chair)

Cynthia J. Benton, Childhood/Early Childhood Education

David Berger, Psychology

Philip Buckenmeyer, Kinesiology

Patricia Conklin, Biological Sciences

Daniel M. Harms, Library

David Miller, Geography

Lisa Mostert, Classroom Media Services

Kevin Pristash, Campus Activities

Special thanks to the Student Alumni Association
for providing volunteers for Scholars' Day.

Complimentary refreshments will be served in Seminar Room 110
on the first floor both in the morning and in the afternoon.

CONCURRENT SESSIONS I

8:30-9:45 a.m.

Political and Legal Issues

Room G-10

Moderator: Mary McGuire, Assistant Professor, Political Science

Political Science Interns: Research Presentation

*Presenters: Ashley Jones, Todd MacIntosh, Christopher Montgomery, Matthew Pennello,
Christina Rusin, Undergraduate Students
Mary McGuire, Assistant Professor, Political Science*

Ticket Waivers: How Does New York Protect Sport Organizations

*Presenters: Mark Dodds, Assistant Professor, Sport Management
Kristi Schoepfer, Assistant Professor, Winthrop University*

Service Learning

Room 120

Moderator: John Suarez, Coordinator, Service-Learning, Institute for Civic Engagement

Reflective Thinkers: When and How?

Presenter: Valerie Winberry, Undergraduate Student

The Cortland-Area Communities-That-Care Archival Project

Presenter: Christopher Keaney, Graduate Student

We Use It; Let's Teach It: Service-Learning

Presenter: John Suarez, Coordinator, Service-Learning, Institute for Civic Engagement

On-campus Recreation

Room 121

Moderator: Sharon L. Todd, Associate Professor, Recreation, Parks and Leisure Studies

What Do Students Need and Want for On-campus Recreation? Results of a Comprehensive Needs Assessment for TC3

*Presenters: Sharon L. Todd, Associate Professor, Recreation, Parks and Leisure Studies
Patrick Langendorfer, Douglas McKee, Jennifer Page, Graduate Students*

Terrorism, Ethno-Nationalist Hatred & Violence: Case Studies in Europe, the Caucasus, and the United States

Room G-12

Moderator: Henry Steck, Distinguished Service Professor, Political Science

The European Response to Hate Crimes

Presenter: Jeff Quain, Undergraduate Student

The Ethno-Nationalist & Geopolitical Context of the Russia-Georgia Conflict of August 2008

Presenter: Lindsey Catanzarite, Undergraduate Student

How Terrorist Groups Can Create Peace: The Case of Ireland

Presenter: Kathleen Raedy, Undergraduate Student

The Attenuation of Constitutional Principles and the Terrorist Threat: The Case of the Bush Administration's Terrorist Surveillance Program

Presenter: Michelle Dorothy Santoro, Undergraduate Student

Kinesiology I

Brown Auditorium

Moderator: Wendy Hurley, Associate Professor, Kinesiology Department

Effects of a Short-Term Plyometric Training Program on Vertical Jump Height in Trained And Untrained College-Age Males

*Presenters: Andrew Eggleston, Brian Kokulak, Gene Rhee, Bryan Schmidt, Matt Rimmer, Undergraduate Students
Jeff Bauer, Associate Professor, Kinesiology Department
Wendy Hurley, Associate Professor, Kinesiology Department*

Nutritional Knowledge Among Undergraduate Students

*Presenters: Theron Harris, Christina Kennedy, Kevin McInrey, Helena Herzog, Undergraduate Students
Philip Buckenmeyer, Associate Professor and Chair, Kinesiology Department
Wendy Hurley, Associate Professor, Kinesiology Department*

The Thermoregulatory Effects of Short Intense Bouts of Physical Activity on Physically Fit College Aged Males and Females

*Presenters: Austin Malleolo, Patrick Sullivan, Ben Tyree, Undergraduate Students
James Hokanson, Associate Professor, Kinesiology Department
Wendy Hurley, Associate Professor, Kinesiology Department*

Comparison of Differences between Treadmill Running Versus Overground Running on Selected Physiological and Biomechanical Response Variables

*Presenters: Kristen Mallon, Caitlin Latham, Tachett Morrison, Undergraduate Students
Peter McGinnis, Professor, Kinesiology Department
Wendy Hurley, Associate Professor, Kinesiology Department*

Baseball Batting Swing Differences in Bat Velocity and Swing between the Chop Swing and Uppercut Swing

*Presenters: Mark McDonald, Ryan Castle, Jose Lopez, Undergraduate Students
Peter McGinnis, Professor, Kinesiology Department
Wendy Hurley, Associate Professor, Kinesiology Department*

Determination of a Specific Point of Biomechanical Breakdown While Running to Exhaustion: A Case Study

*Presenters: Seth DuBois, Joseph Keleher, Eric Stermer, Undergraduate Students
Peter McGinnis, Professor, Kinesiology Department*

Urban Education

Room G-09

*Moderator: Anne Burns Thomas, Assistant Professor, Foundations and Social Advocacy;
Program Coordinator, Cortland's Urban Recruitment of Educators (C.U.R.E.) Program*

Intersection of Issues in Urban Education

*Presenters: Anne Burns Thomas, Assistant Professor, Foundations and Social Advocacy
First Year Students in Cortland's Urban Recruitment of Educators (C.U.R.E.)
Program*

Video Games: Tools and Applications

Room 209

*Moderator: Colleen Kattau, Associate Professor/Graduate Coordinator,
International Communications and Culture*

La Biblioteca de Babel: A Literary Video Game in Spanish

Presenter: Andrew J. Hamilton, Graduate Student

Computer and Video Game Interest in Elderly Individuals

Presenter: Sarah Hahn, Undergraduate Student

A New Literature for Adolescents

Room 230

Moderator: Karen Stearns, Assistant Professor, English

New Ways of Reading Literature for Adolescents

*Presenters: Melissa DaCosta, Heather Dengler, Heather Fairchild, MaryBeth Whittaker,
Christine Wilson, Undergraduate Students*

CONCURRENT SESSIONS II

10:00-11:15 a.m.

A Plea for Honest Grades

Room 120

Moderator: Bruce Atkins, Professor Emeritus, English

A Plea for Honest Grades: Anecdotes and Research about Grade Inflation

*Presenters: Denise D. Knight, Distinguished Teaching Professor, English
Noralyne Masselink, Professor, English
Arnold Talentino, Coordinator, Honors Program
Karla J. Alwes, Distinguished Teaching Professor, English*

Education

Room G-12

Moderator: Susana Davidenko, Associate Professor, Childhood/Early Childhood Education

Male College Students' Career Choices: Perspectives on Teaching and Childhood Education

*Presenters: Jeremiah J. Best, Undergraduate Student
Cynthia J. Benton, Professor, Childhood/Early Childhood Education*

Addressing Diversity in a "so called" Un-diverse Elementary School Classroom

Presenter: Richelle Lawrence, Undergraduate Student

Implementing the PDS Unified Teaching and Learning Initiative (UTLI): Reporting Initial Findings, Inherent Strengths and Potential Challenges

*Presenters: Kimberly Rombach, Assistant Professor, Childhood/Early Childhood Education
David Smukler, Assistant Professor, Foundations and Social Advocacy
Karen Hempson, Coordinator, Professional Development School
Katie Swanson, Cortland City School District*

Positive Youth Development: The Effects of a Resiliency Based, After-School Program

*Presenters: Lindsey Brown, Graduate Student
Eddie Hill, Assistant Professor, Recreation, Parks and Leisure Studies
Amy Shellman, Assistant Professor, Recreation, Parks and Leisure Studies
Sharon Todd, Associate Professor, Recreation, Parks and Leisure Studies*

Developing Manual Sign Recognition

Room 230

Moderator: Paul D. Luyben, Associate Professor, Psychology

Developing Manual Sign Recognition – the Fast Way: Using Video to Develop Acquisition, Fluency, Maintenance, and Generalization

*Presenters: Paul D. Luyben, Professor, Psychology
Kerry Linden '09, Alumna, Syracuse University
Keri Urban, Maria Mursch, Leanne Hladik, Alexandrina MacPherson,
Undergraduate Students*

Kinesiology II
Brown Auditorium

Moderator: Katherine M. Polasek, Assistant Professor, Kinesiology

A Comparison of Physiological Conditions on Virtual Reality Bicycles versus Standard Stationary Bicycles

*Presenters: Mary Bielawski, Rebecca McKenney, Ryan Strang, Undergraduate Students
Philip Buckenmeyer, Associate Professor and Chair, Kinesiology*

The Amount of Upper-Body Strength Necessary to Complete the 9-Minute Shoulder Workout

*Presenters: Stephanie Detota, Morgan Moore, Undergraduate Students
James Hokanson, Associate Professor, Kinesiology*

The Effects of Static and Dynamic Warm-up on a Hockey Sprint

*Presenters: Jeanna Dippel, Adam Ravener, Casey Hubbard, Undergraduate Students
Jeff Bauer, Associate Professor, Kinesiology*

The Effects of Static and Dynamic Warm-up Modalities on Vertical Leap Performance in Collegiate Rugby Players

*Presenters: Sean Maloney, Anthony Joyce, Paul Anderson, Undergraduate Students
Jeff Bauer, Associate Professor, Kinesiology*

A Comparative Analysis of Barefoot and Shod Running

*Presenters: Lisa Holt, John Nulty, Colin Utz-Meagher, Undergraduate Students
Jeff Bauer, Associate Professor, Kinesiology*

The Effects of Physical Activity on Individuals' Self Esteem

*Presenters: Lauryn Kaznowski, Elizabeth Wasik, Christopher Tangredi, Undergraduate Students
James Hokanson, Associate Professor, Kinesiology*

Arts and Sciences

Room G-09

Moderator: Stephen Halebsky, Assistant Professor, Sociology/Anthropology

Religion, Education, and Occupation: A Qualitative Analysis of Educational and Occupational Choices of Atheists

Presenter: Faith Bentley, Undergraduate Student

Searching for the Hermit Foxey Brown: An Adirondack Mystery

*Presenters: Charles H. Yaple, Professor Emeritus, Recreation, Parks and Leisure Studies
David L. Miller, Distinguished Teaching Professor, Geography*

Floral Variation in Stinking Benjamin (*Trillium erectum*)

*Presenters: Sarah M. Smith, Undergraduate Student
Steven B. Broyles, Professor, Biological Sciences*

Social Science

Room 209

*Moderator: Christopher P. Latimer, Assistant Professor, Political Science;
Associate Director, Institute for Civic Engagement*

Jorge Ramos and the Immigration Debate

Presenter: Timothy Gerhard, Assistant Professor, International Communications and Culture

The Gaza Freedom March and the Israel-Palestine Conflict

Presenter: Timothy Rodriguez, Project Support Specialist, Institute for Civic Engagement

History and Tradition: Due-Process Rights Post-9/11

*Presenters: Christopher P. Latimer, Assistant Professor, Political Science; Associate Director,
Institute for Civic Engagement
Matthew G. Pennello, Undergraduate Research Fellow*

The Twilight Years: A Revisionist View of Britain between the Wars

Presenter: Gordon Beadle, Professor Emeritus, History

Mathematics I

Room 121

Moderator: Mary K. Gfeller, Assistant Professor, Mathematics

Mathematics Education: Historical Development of Computers

*Presenters: Michael Tota, Michael Panetta, Megan Rice, Shirelle Thomas, Undergraduate
Students*

An Exploration of the Focusing Approach for Enhancing Student Discourse among Geometry Students

Presenter: Betty Beckwith, Graduate Student

The Democratic Republic of the Congo

Room G-10

Moderator: Martine C. Barnaby, Assistant Professor, Art and Art History

The Democratic Republic of the Congo: An Art Installation

*Presenters: Martine C. Barnaby, Assistant Professor, Art and Art History
Lorraine Berry, Director, NeoVox
Caitlin Adsit, Jennifer Bakala, Timothy Carroll, Eric Feuer, Graciela Hernandez,
Sarah Lampke, Beth Newman, John Paone, Brian Roach, Jason Saunders,
Undergraduate Students*

KEYNOTE ADDRESS

11:30 a.m.-12:30 p.m.

Brown Auditorium

“Leveraging Research for Action”

Brenda L. Henry '95, MPH, Ph.D.

Brenda Henry, who joined the Robert Wood Johnson Foundation in 2008, is a Research and Evaluation program officer working to achieve RWJF's goal of ensuring quality in the nation's public health system and advocating for policies that protect, promote and preserve the population's health. In this capacity, her work spans several key research areas, including helping to develop the RWJF-funded Public Health Services and Systems Research (PHSSR) portfolio of work, which seeks to answer some of the most important and challenging questions about how best to structure, fund and support the nation's public health system. She also helps to further the Foundation's effort to support researchers from historically disadvantaged and underrepresented communities and to expand the diversity within the evaluation field overall. As she puts it: “What we do at the Foundation, whether it is addressing diversity, disparities, or population health, puts the nation on the road to better health, and that's extremely rewarding.”

Previously, Henry was program director for the Center for Applied Research and Technical Assistance, Inc. in Baltimore, a national nonprofit organization dedicated to ensuring the healthy development of all young people, specifically youth of color. She also conducted data analysis as a research associate for High/Scope Educational Research Foundation in Michigan, and was a graduate research assistant for the University of Michigan, School of Public Health, Center for Research on Ethnicity Culture and Health. Her extensive research background includes a range of positions at the University of Michigan, Memorial Sloan-Kettering Cancer Center, and the Joseph L. Mailman School of Public Health, Columbia University.

Henry received both her Ph.D. in health behavior and health education and her M.P.H. from the University of Michigan. She was awarded a B.S., cum laude, from SUNY, College at Cortland. A member of the American Public Health Association, she has received numerous academic awards and honors.

Born in Puerto Rico and raised in New York City, she now resides in Lawrenceville, N.J. She enjoys dining out, concert going, scuba diving and engaging in sports, especially softball.

POSTER SESSIONS

12:30-1:30 p.m.

Lobby Area, 1st & 2nd Floors

Environmental Enrichment of South American Tamarin Monkeys at the Utica Zoo

Presenter: Marjorie Pulver, Undergraduate Student

Genetic and Floral Variation in Partridgeberry (*Mitchella repens*)

*Presenters: Megan O'Hare, Stefan Birek, Undergraduate Students
Steven B. Broyles, Professor, Biological Science*

Exploring the Biochemical Activity of the Arabidopsis thaliana VTC3 Protein

*Presenters: Patricia L. Conklin, Associate Professor, Biological Sciences
Hannah Langbart, Kelly Schwippert, Undergraduate Students*

Role of Syndecan-4 in Wound Healing

*Presenters: Amanda Howard, Undergraduate Student
Theresa Curtis, Assistant Professor, Biological Sciences*

Antipredator Strategies of Invasive Earthworms

*Presenters: Nicole Chodkowski, Undergraduate Student
Peter K. Ducey, Professor and Chair, Biological Sciences*

The Capacity of Trees at Hoxie Gorge to Mitigate Global Warming

*Presenters: Eugene Aarnio, Undergraduate Student
R. Lawrence Klotz, Distinguished Teaching Professor, Biological Sciences*

Dissolved Oxygen as a Measure of Productivity in a Hoxie Gorge Beaver Pond

*Presenters: Danielle Birmingham, Kyle Kufs, Ben Schuerlein, Undergraduate Students
R. Lawrence Klotz, Distinguished Teaching Professor, Biological Sciences*

Using Molecular Techniques to Determine Genetic Diversity within the Earthworm Species, *Octolasion tyrtaeum*

*Presenters: Shannon Potaczala, Undergraduate Student
Angela M. Pagano, Assistant Professor, Biological Sciences*

Click Chemistry to a Photo-Cleavable Linker

*Presenters: Francis M. Rossi, Assistant Professor, Chemistry
Michael Houghton, Undergraduate Student*

A Multisensory Approach to Learning: The Art and Science of Voice Anatomy

Presenter: Irena Vincent, Assistant Professor, Communication Disorders and Sciences

Impact of Familiarity on Discourse Cohesion, Coherence, and Speech Acts for an Individual With Dementia of the Alzheimer's Type: A Qualitative Investigation

*Presenters: Alicia M. Gloede, Alyssa J. Riehle, Undergraduate Students
Brent Thomas Wilson, Assistant Professor, Communication Disorders and Sciences*

Dendroclimatology of Red Pine at Raquette Lake, NY

*Presenters: Jennifer Becker, Undergraduate Student
David Barclay, Associate Professor, Geology*

Using Geographic Information Systems (GIS) for Admission Management

*Presenters: David Delcourt, Undergraduate Student
Wendy Miller, Assistant Professor, Geography*

Using Geographic Information Systems (GIS) to Update the New York State Department Of Environmental Conservation Herpetology Atlas

*Presenters: David Delcourt, Angelika Beckmann, Eugene Aarnio, Glen Brozio,
Rebecca Aungst, Ian Burk, Lindsey Rothschild, Undergraduate Students
Wendy Miller, Assistant Professor, Geography*

Using Geographic Information Systems (GIS) to vie Marcellus Shale Deposits

*Presenters: Sarrah Kubinec, Undergraduate Student
Wendy Miller, Assistant Professor, Geography*

A Geographic Analysis of Energy Consumption in European Nations in 2000

*Presenters: Kristen Buck, Undergraduate Student
Wendy Miller, Assistant Professor, Geography*

Geographical Information Systems (GIS) Presentation of Descriptive and Negative Socioeconomic Indicators in Central New York

*Presenters: Dawn Battista, Undergraduate Student
Wendy Miller, Assistant Professor, Geography*

Are Better Runners Better?

*Presenters: Students in Advanced Exercise Physiology (EXS 555)
James F. Hokanson, Associate Professor, Kinesiology*

Fun Through Fitness

*Presenters: Teresa Baker, Undergraduate Student
James F. Hokanson, Associate Professor, Kinesiology
Roseanne Coville, Cortland County Youth Bureau
Manny Lann, Director, Cortland County Youth Bureau
Susan Prier, Coordinator, Eat Smart New York, Cornell Cooperative
Extension, Cortland County*

Enjoyment Levels of Youth with Visual Impairments While Playing 3 Different Commercially Available Exergames

*Presenters: Nick Boffoli, Graduate Student
John Foley, Associate Professor, Physical Education*

Validity of the Trauma Symptom Checklist-40

*Presenters: Margaret Anderson, Professor, Psychology
Brandi Kelley, Undergraduate Student*

The Effects of Prenatal Exposure to Nicotine on Ethanol Consumption by Male and Female Rats

*Presenters: John P. Lombardo, Professor, Psychology
David F. Berger, Professor, Psychology
Joshua A. Peck, Graduate Student
Stephen V. Faraone, Frank A. Middleton, Steven L. Youngentob, SUNY Upstate
Medical University*

Assessing the Role of Multisensory Redundancy on Imitative Behavior in 9-Month-Old Infants

*Presenters: Joanna Verdi, Undergraduate Student
Kimberly Kraebel, Associate Professor, Psychology*

Matching Multisensory Information Facilitates Imitative Behavior in 6-Month-Old Infants

*Presenters: Jennifer P. Walker, Undergraduate Student
Kimberly S. Kraebel, Associate Professor, Psychology*

Math Anxiety, Confidence, and Self-Efficacy in College Students

*Presenters: Michael Curry, Rebecca Zurek, Undergraduate Students
Judith A. Ouellette, Associate Professor and Chair, Psychology
Kathleen Burke, Associate Professor, Psychology*

CONCURRENT SESSIONS III

1:30-2:45 p.m.

Community Bike Program

Room 121

Moderator: Lynn Anderson, Professor and Chair, Recreation, Parks and Leisure Studies

The SUNY Cortland Community Bike Project: 5 Years and Going Strong

*Presenters: Lindsey Brown, Graduate Student
Lynn Anderson, Professor and Chair, Recreation, Parks and Leisure Studies
Eddie Hill, Assistant Professor, Recreation, Parks and Leisure Studies
Caleb VanSickle, Undergraduate Student*

SUNY Cortland Writing Contest Award Winners Present!

Room G-12

Moderator: Mary Lynch Kennedy, Distinguished Teaching Professor, English

Robot Music (for people with robot ears)

Presenter: Brooke Alden Hoffman, Undergraduate Student

“The light she helped kindle”: Revisiting Emma Hart Willard and the Troy Female Seminary, 1822-1844

Presenter: Michael Read, Graduate Student

The Butterfly Snatcher

Presenter: Michael DeVito, Undergraduate Student

Homework Help

Presenter: Victoria McGahan, Undergraduate Student

Yevgeny Zamyatin’s We and the Fallacies of Logic in Utopia

Presenter: Andrew Hamilton, Undergraduate Student

A Story About

Presenter: Kaitlyn Curtis, Undergraduate Student

Color Adjustment: Critical Media Analyses of Women of Color

Room 209

Moderator: Caroline Kaltefleiter, Associate Professor, Communication Studies

Beauty: More Than A While or Black Thing

Presenter: Rachel Gorman, Undergraduate Student

Latina Women and the “White Suburban Problem”

Presenter: Thanisa Perez, Undergraduate Student

Black Woman & Body Image

Presenter: Bari Smith, Undergraduate Student

Watching a Colored T.V.: Media Depiction’s of Women of Color

Presenter: Tiffany Lewars, Undergraduate Student

Island People: A Critical Media Analysis of West Indian Women

Presenter: Sarah Gentillon, Undergraduate Student

Clinical Interviews in Mathematics Education

Room 120

Moderator: David Dickerson, Assistant Professor, Mathematics

Justification and Proof in School Mathematics – Clinical Interviews

Presenters: Ruchi Agarwal, Christopher Donohue, Graduate Students

Harlotry Players

Brown Auditorium

Moderator: Jaclyn S. Pittsley, Lecturer, English

Harlotry Players: Students Perform Scenes from Classic and Contemporary Plays

Presenters: Jaclyn S. Pittsley, Lecturer, English

Janet Wolf, Associate Professor, English

Andrea Harbin, Assistant Professor, English

CONCURRENT SESSIONS IV

3:00-4:15 p.m.

Environmental Awareness and Health

Room 209

Moderator: Eddie Hill, Assistant Professor, Recreation, Parks and Leisure Studies

Measuring the Educational Impact of the Promoting Environmental Awareness in Kids (PEAK) Kit: The Development and Implementation of a New Scale

*Presenters: Jennifer Miller, Graduate Student
Eddie Hill, Assistant Professor, Recreation, Parks and Leisure Studies
Amy Shellman, Assistant Professor, Recreation, Parks and Leisure Studies
Lindsey Brown, Graduate Assistant
Ron Ramsing, Assistant Professor, Western Kentucky University*

Effectiveness of Anti-Smoking Campaigns

Presenter: Josiah Cimino, Undergraduate Student

Research in the Teaching of English: Digital Literacy

Room G-12

Moderator: Mary Lynch Kennedy, Distinguished Teaching Professor, English

Inequities in Technology Use in English Classrooms: Is There a Digital Divide?

Presenter: Brian Cibelli, Graduate Student

Digital Identity

Presenter: Joyce Hansen, Graduate Student

Blogs, Wikis, Webquests, and Video Games and Their Effects on Learning and Literacy

Presenter: Tim Casey, Graduate Student

Professional Writing

Room G-09

*Moderators: David Franke, Associate Professor, English and Professional Writing
Victoria Boynton, Associate Professor, English; Program Director, Professional Writing*

Spoken Word Performance by Professional Writing Students

Presenters: Professional Writing Students

Classroom Learning and Real World Application

Room 120

Moderator: Paulo Quaglio, Associate Professor, International Communications and Culture

Bridging the Gap Between Classroom Learning and Real World Application Through Video Conferencing

*Presenters: Paulo Quaglio, Associate Professor, International Communications and Culture
Rebecca Hanzes, Haley Hudson, Elena Krawczyk, Jessica Przepiora, Hilary Rehler,
Undergraduate Students – TESOL (Teaching English as a Second Language)
Program*

Mathematics II

Room 121

Moderator: Jalal Alemzadeh, Professor, Mathematics

Mathematics Education: Cross Cultural Analysis/Queensland Australia vs. New York

Presenter: Shane W. Sint, Graduate Student

Babylonian's Contributions to Mathematics and Science

Presenter: Robert Emery, Graduate Student

Europeans Contributions to Mathematics and Science

Presenter: Jamie Wright, Graduate Student

Spanish Contributions to Mathematics

Presenter: Thomas Cullem, Graduate Student

CLOSING SESSION

4:30-5:15 p.m.

Brown Auditorium

Moderator: Thomas Pasquarello, Professor, Political Science

SUNY Cortland Rock, Jazz, and Blues Ensemble with Hip Hop Culture

Presenters: Undergraduate Students from the SUNY Cortland Rock, Jazz, and Blues Ensemble

Undergraduate Students from Africana Studies and Communication Studies:

Hip Hop Culture

This Scholars' Day performance is dedicated to the memory of Steven Barnes, who passed away on March 10, 2010. Steve was a mentor to many young musicians as leader of the SUNY Cortland Rock, Jazz, and Blues Ensemble, and was well known in the community for his musical talent, his kindness, and his sense of humor. We will miss him greatly, but we know that he would have wanted us to keep playing.

SPECIAL POST-SCHOLARS' DAY LECTURE

7:00 p.m.

Brown Auditorium

From Overconsumption to Time Affluence:
Trading "Stuff" for Time, Health, Families, and the Environment

John de Graaf

John de Graaf is Executive Director of TAKE BACK YOUR TIME, an organization challenging time poverty and overwork in the U.S. and Canada (see www.timeday.org) and a frequent speaker on issues of overwork and over-consumption in America. A frequent guest lecturer on college campuses, John was on the faculty at Evergreen State College and the University of Washington. John is the co-author of the best-selling AFFLUENZA: THE ALL-CONSUMING EPIDEMIC (Berrett-Koehler, 2001/2005—now published in eight other languages as well.), editor of TAKE BACK YOUR TIME (Berrett-Koehler, 2003), and of the children's book, DAVID BROWER: FRIEND OF THE EARTH (Henry Holt, 1992).

John has worked with KCTS-TV, the Seattle PBS affiliate, for 26 years, as an independent producer of television documentaries, many with environmental subjects. More than 15 of his programs have been broadcast in Prime Time nationally on PBS. He is also the recipient of more than 100 regional, national and international awards for film-making, including three Emmy awards. The *de Graaf Environmental Filmmaking Award*, named in his honor, is presented annually at the Wild and Scenic Environmental Film Festival in Nevada City, California. He produced the popular PBS specials, RUNNING OUT OF TIME, an examination of overwork and time pressure in America, and AFFLUENZA, a humorous critique of American consumerism. His most recent films are WHAT'S THE ECONOMY FOR, ANYWAY?, a humorous look at American economic policy, and THE WHOLE WORLD WAS WATCHING, a look back at the 1999 WTO protests in Seattle.

In his talk, John will focus on the relationship of consumerism and time poverty, health and the environment, and what we can do take back our time.

ABSTRACTS

CONCURRENT SESSIONS I

8:30-9:45 a.m.

Political Science Interns: Research Presentation

Ashley Jones, Todd MacIntosh, Christopher Montgomery, Matthew Pennello, Christina Rusin, Undergraduate Students
Mary McGuire, Assistant Professor, Political Science

Theory meets practice in this presentation of original research conducted by political science students engaged in internships in the Cortland community. Based on their case studies, reviews of original documents, interviews, and participant observations, students place their practical experiences in the literature of political science. Student internships and research were conducted in the offices of members of congress, county judges, and state senators. Their research analysis represents a synthesis of the theoretical underpinnings of scholarship in American legislative and judicial politics with practical concerns of daily operations in those same fields.

Ticket Waivers: How Does New York Protect Sport Organizations

Mark Dodds, Assistant Professor, Sport Management
Kristi Schoepfer, Assistant Professor, Winthrop University

Many sport organizations try to protect their rights by using the event ticket as a legal document. Ticket waivers are very common in the sport industry because they limit the rights of the consumer. The authors will discuss how the waivers create a revocable license without any expectation of a property right. Next, the waiver will be examined for the types of defenses created. Finally, the authors will compare the protection afforded by the New York courts for these waivers to the protection given by other jurisdictions.

Reflective Thinkers: When and How?

Valerie Winberry, Undergraduate Student

Professors want their college students to become reflective thinkers. Winberry argues that elementary school teachers can help professors reach that goal by teaching children as young as five-years-old how to use reflective thinking methods. Drawing on recent scholarship, Winberry explains how elementary school teachers can use "reflective teaching" methods to improve children's metacognitive and critical thinking skills; in this way, the children learn more effectively and are better prepared for college learning.

The Cortland-Area Communities-That-Care Archival Project

Christopher Keaney, Graduate Student

The Cortland-Area Communities That Care (CACTC) is a nonprofit organization that works to reduce underage substance abuse. To help this nine-year-old organization more effectively meet its current challenges, SUNY Cortland graduate student and history major Christopher Keaney is creating an easily-accessible and updatable database of CACTC materials. This service-learning effort involves a review of the organization's paper- and electronic artifacts and the taking of oral histories from CACTC veterans. The database will help coalition members access data necessary for grant applications and other projects; the project has already revealed ways in which "doing history" can contribute to a deeper understanding of the process and nature of history, especially in the context of nonprofit community organizations.

We Use It; Let's Teach It: Service-Learning

John Suarez, Coordinator, Service-Learning, Institute for Civic Engagement

Many professors require their Elementary- and Secondary-Education majors to engage in service-learning projects so that these pre-service students can intensify their understanding of – and their appreciation for – multicultural concerns, social justice issues, activist democracy, and personal efficacy. Suarez argues that teacher-educators should also teach pre-service students how to use service-learning pedagogy in their own classes. Such a move has implications for professional development, scholarship, and NCATE reviews.

What Do Students Need and Want for On-campus Recreation? Results of a Comprehensive Needs Assessment for TC3

Sharon L. Todd, Associate Professor, Recreation, Parks and Leisure Studies

Patrick Langendorfer, Douglas McKee, Jennifer Page, Graduate Students

The purpose of this study is to assess the needs of Tompkins-Cortland Community College students in relation to quality of life on the college campus. Areas addressed include recreational needs, motivations, and preferences; perceived impact of alcohol use on the quality of campus life; and best ways to communicate campus activities to students. A clustered stratified random sample was used to survey approximately 400 TC3 students. In addition, three focus groups were conducted with commuters, student club leaders, and on-campus residents, to hear the needs and wants of these select groups in greater depth. Results will be used for future planning of activities and marketing strategies on the TC3 campus.

The European Response to Hate Crimes

Jeff Quain, Undergraduate Student

Hate crimes have long been a fixture in the rhetoric of politics and society. Over the years they have taken many forms. This paper examines how the policies of European countries and their leaders have allowed these crimes to take place and eventually become part of the social norm. As these crimes have become more and more prominent in everyday life, the governments of Europe have been forced to respond. England, France, and Germany have been the center of international attention for their problems with immigrants and Muslims. They have aggressively attempted to solve the issue of hate crimes with mixed results. In Eastern Europe similar issues are at hand for citizens and governments, however as they transition into full fledged democracies, they have yet to focus as much attention to the issues of civil rights as other western democracies. In an attempt to give a more united front against the growing problem of hate crimes, Europe has come together to handle the issue. Through the European Union and the Organization for Security and Cooperation in Europe (OSCE) councils and groups have been set up to find solutions as to how to best solve the problems at hand. While respectable strides have been made toward equality, institutional and social changes must be made for the problem of hate crimes to be eradicated.

The Ethno-Nationalist & Geopolitical Context of the Russia-Georgia Conflict of August 2008

Lindsey Catanzarite, Undergraduate Student

In August of 2008, a conflict between Georgia and Russia began with the invasion of a town in South Ossetia, a territory within the country of Georgia. Over the years Georgia has increasingly experienced on-going issues with its territories South Ossetia, and Abkhazia. Not only have the territories had reoccurring ethnic issues but they also continue to make a move towards independence from Georgia. Based on Georgia's historical ties to the Soviet Union, Russia invaded in 2008 to protect its citizens from ethnic conflict as well as encourage the independence of the breakaway territories. Not only will this study cover the conflict itself but it will also focus on Georgia's president Saakashvili's increasing involvement with western countries, and Russia's increasing geo-political role.

Baseball Batting Swing Differences in Bat Velocity and Swing between the Chop Swing and Uppercut Swing

Mark McDonald, Ryan Castle, Jose Lopez, Undergraduate Students

Peter McGinnis, Professor, Kinesiology Department

Wendy Hurley, Associate Professor, Kinesiology Department

The purpose of this proposed study is to determine if one swing style results in a faster bat velocity during contact with a baseball, which is optimal for maximum range trajectories. Bat velocities and swing times will be observed for 20 members of a college university's club baseball program. Each athlete will be asked to hit from a batting tee using a chop and uppercut swing. Dartfish Motion Analysis Software will be used to analyze various components of the swing including bat velocity during contact with the ball and total swing time. A one way repeated measures of analysis (ANOVA) will be used to determine if a significant difference exists between bat velocity for the chop and uppercut swings. It is hypothesized that the uppercut swing will produce significantly higher bat velocities than the chop swing. Findings from this study could be useful for power hitters at the amateur and professional levels.

Determination of a Specific Point of Biomechanical Breakdown While Running to Exhaustion: A Case Study

Seth DuBois, Joseph Keleher, Eric Stermer, Undergraduate Students

Peter McGinnis, Professor, Kinesiology Department

There have been numerous studies conducted that discuss the implications of muscle fatigue on running mechanics, but none that determine a specific point at which biomechanical breakdown occurs. The purpose of this case study was to determine a specific point of biomechanical breakdown during a run to exhaustion. One healthy male sub-elite distance runner with a personal best time of 14:35 in the 5,000 meter run participated in this research. The participant was asked to run until exhaustion while investigators videotaped his running biomechanics during each straight away of a 200-meter indoor track facility. The kinematic footage was then digitized and analyzed using Dartfish computer software. Standard deviation was used in order to determine if there was a significant difference in the fatigued biomechanics of the subject versus the un-fatigued biomechanics measured in the beginning of the run.

Intersection of Issues in Urban Education

Anne Burns Thomas, Assistant Professor, Foundations and Social Advocacy

First Year Students in Cortland's Urban Recruitment of Educators (C.U.R.E.) Program

Teaching in urban schools is a challenge that is complicated by the intersection of issues and identities present in any urban classroom. The needs of urban students are often essentialized as solely related to race or culture or class. In this presentation, first year students from Cortland's Urban Recruitment of Educators (C.U.R.E.) Program will disrupt the notion of the "typical" urban student with presentations related to the multiple identities of all students. These presentations include observations from the students time in two urban schools in Syracuse and provide strategies to understand and engage students in many settings.

La Biblioteca de Babel: A Literary Video Game in Spanish

Andrew J. Hamilton, Graduate Student

The works of Argentinian author Jorge Luis Borges are well-known for their self-awareness, their labyrinthine nature and their subtle rupturing of the veils that stand between dreams and reality, as well as between individuality and eternity. His short story, "La Biblioteca de Babel" ("The Library of Babel"), is no exception as it explores themes concerning an infinite universe and its relationship with the relatively miniscule humans that inhabit it. Inspired by Borges' work, Andrew Hamilton has applied modern media and artistry to "La Biblioteca de Babel" to reinterpret and re-envision the short story as an interpretive video game based on Borges' themes. The presentation of Hamilton's game provides a visually, musically and interactively novel exploration of Borges' text that breathes new life into the Library of Babel and calls to attention the literary potential of video games as an expressive medium.

Computer and Video Game Interest in Elderly Individuals

Sarah Hahn, Undergraduate Student

Early research (Hollander and Plummer, 1986) has suggested that elderly individuals benefit and enjoy playing strategic videogames. Video gaming has been found to improve working and short-term memory (Basak, et. al, 2008), reaction time (Goldstein, et. al, 1997), and attention-related neurocognitive process (Green & Bavelier, 2006; 2007; Jenks, LeTarte, & Collings; Creager, Withers, & Collings). Despite the growing interest in the use of video games with older populations, few studies have examined the interest and preferences of games and gaming platforms. This exploratory pilot study examined game types that might provide the most interest to the aging population and to estimate the rates of attrition among the older individuals playing. Working in conjunction with the Cortland Area on Aging, eight participants were recruited, aged 60+ to participate in for three gaming sessions. With the results of this study, the researchers hope to develop future intervention studies in this research area.

New Ways of Reading Literature for Adolescents

Melissa DaCosta, Heather Dengler, Heather Fairchild, MaryBeth Whittaker, Christine Wilson, Undergraduate Students

With an explosion of increasingly sophisticated literature marketed to adolescents, the last few decades have been a golden age for young adult readers. Edgy topics, the emergence of new formerly marginalized voices, and transmedia storytelling across new formats, YA Lit in the 21st century phenomenom invites consideration and critique within both literary and pedagogical discourses. Adolescence English Education students will share some examples of ways to read young adult literature that both complicate and clarify books that will be of interest to a wide reading audience. Come see and hear!

CONCURRENT SESSIONS II

10:00-11:15 a.m.

A Plea for Honest Grades: Anecdotes and Research about Grade Inflation

Denise D. Knight, Distinguished Teaching Professor, English

Noralyn Masselink, Professor, English

Arnold Talentino, Coordinator, Honors Program

Karla J. Alwes, Distinguished Teaching Professor, English

The issue of grade inflation has sparked a spirited debate on campuses nationwide. Those who oppose the practice are often dismayed by what they perceive to be unwarranted or even irrational leniency; those who defend it are surprised by all the fuss. As several studies have documented, educators often raise grades to reward students for hard work or to bolster their self-esteem. But however well-intended, we would argue that grade inflation is never justifiable. Not only are there ethical concerns, but also, when we create a culture in which we exaggerate a student's performance, we are not serving that student responsibly. Students who receive "easy As" are denied the opportunity to strengthen their skills, to grow intellectually, and to experience the sense of accomplishment that comes from hard work. Moreover, artificial grades may actually set the stage for future failure. This panel will examine the issue with facts, figures, and anecdotal histories.

Male College Students' Career Choices: Perspectives on Teaching and Childhood Education

Jeremiah J. Best, Undergraduate Student

Cynthia J. Benton, Professor, Childhood/Early Childhood Education

Fewer than ten percent of elementary teachers are male, reflecting a long-standing gender imbalance in early education. This qualitative study focused on factors identified by college males--both those who choose to teach at the elementary level, and those who choose other careers--and how these factors compared to previous literature on teacher recruitment and retention. Findings indicate certain common stereotypes and biases which factor in career choice and recruitment of men to education: widespread misperceptions about motives for working with young children; general lack of current information on teaching as a career path, and on the demand for gender balance in school settings; a persistent profile of teaching as a nurturing career to which persons are "called," not educated. Implications for career development and change in the teaching profession are described.

Addressing Diversity in a "so called" Un-diverse Elementary School Classroom

Richelle Lawrence, Undergraduate Student

As the nation and our schools grow more diverse in every dimension - race, ethnicity, class, gender, ability, sexuality, immigration status, economic status -- preservice teachers in teacher education programs are learning theory and practice to guide and inform their curriculum and pedagogy. In this presentation, I will share with the audience an interactive activity I designed and implemented at a local Cortland School that celebrates the diversity among students in the classroom. The lesson is motivated by the reading of a picture book, followed by an activity that enables students to discover and learn about the commonalities and diversity of their experiences, as well as how to respect the culture of others. The audience of the session will be able to participate in the cultural activity as well as gain other ideas to use in their classroom.

Implementing the PDS Unified Teaching and Learning Initiative (UTLI): Reporting Initial Findings, Inherent Strengths and Potential Challenges

Kimberly Rombach, Assistant Professor, Childhood/Early Childhood Education

David Smukler, Assistant Professor, Foundations and Social Advocacy

Karen Hempson, Coordinator, Professional Development School

Katie Swanson, Cortland City School District

Professional Development School models share the goal of supporting the development of inservice and preservice teachers (Yendol-Hoppey, 2007). They also provide university and school leaders with collaborative opportunities to combine efforts to implement and study promising research-based pedagogical practices. This presentation will discuss the Unified Teaching and Learning Initiative (UTLI), which focuses on collaboration throughout its design. UTLI purposefully places general and special education student teachers alongside each other in inclusive classrooms that are co-taught by general and special education teachers. We will report findings from implementing the UTLI model regarding (a) inservice general and special education classroom teachers' collaborative efforts; (b) general education student teachers' knowledge gains regarding teaching students with disabilities; and (c) special education student teachers' knowledge gains about pedagogical content knowledge.

Positive Youth Development: The Effects of a Resiliency Based, After-School Program

Lindsey Brown, Graduate Student

Eddie Hill, Assistant Professor, Recreation, Parks and Leisure Studies

Amy Shellman, Assistant Professor, Recreation, Parks and Leisure Studies

Sharon Todd, Associate Professor, Recreation, Parks and Leisure Studies

Widespread concern over bullying and sedentary lifestyles in young people, along with a decrease in academic achievement and afterschool child supervision has created a need for positive youth programs designed to address such issues. The purpose of this study was to determine the impact of a theory-based after-school program on resiliency, aggressive behavior and academic achievement. In the fall of 2009, 5th and 6th grade students at F.S. Barry Elementary School had the opportunity to participate in *League 56 Academy*, a new theory-based after-school program facilitated by SUNY Cortland students. Study participants completed a survey designed to measure resiliency before and after the program. In addition, student grades and number of referrals were obtained to assess the impact of the program on academic achievement and aggressive behavior.

Developing Manual Sign Recognition – the Fast Way: Using Video to Develop Acquisition, Fluency, Maintenance, and Generalization

Paul D. Luyben, Professor, Psychology

Kerry Linden '09, Alumna, Syracuse University

Keri Urban, Maria Mursch, Leanne Hladik, Alexandrina MacPherson, Undergraduate Students

Manual sign recognition is an essential component of the acquisition of sign language. Developing an efficient approach to teaching fluent sign recognition could be beneficial in teaching sign language. This presentation reports the results of two preliminary studies using a software program called *Relate*, an on-line fluency building program, to teach manual sign recognition. In both studies, participants were taught to label 28 video clips of signed English words using four different training modes. The aim was to develop acquisition and fluency and to test for maintenance over time and generalization across signers. We used a multiple-baseline design across two sets of signs, embedded within a counterbalanced pre-post experimental design. The data in both studies show average gains from approximately 3% on the pretest to over 90% on the posttest. The data suggest that this approach to manual sign recognition may be useful in sign language training programs. As part of this presentation members of the audience will be invited to participate in a demonstration of the program.

A Comparison of Physiological Conditions on Virtual Reality Bicycles versus Standard Stationary Bicycles

*Mary Bielawski, Rebecca McKenney, Ryan Strang, Undergraduate Students
Philip Buckenmeyer, Associate Professor and Chair, Kinesiology*

The purpose of this study was to compare VO_2 max, caloric expenditure, heart rate (HR), rate of perceived exertion (RPE), and post workout mood while participants rode a standard stationary bike and an Espresso virtual reality enhanced bike. The participants were asked to come to the gym on four separate days. On day one, background information was collected and procedures were described to the participants. Participants then rode on a flat course on the standard stationary cycle. Day two was a flat course on the virtual reality cycle, with days three and four being a hill course on the standard and virtual reality cycle respectively. During the testing, HR, VO_2 , and RPE were recorded every two minutes, and each minute after the twelfth minute to the fifteenth minute. After each session participants filled out a brief mood questionnaire. Results were analyzed using SPSS 16.0 software.

The Amount of Upper-Body Strength Necessary to Complete the 9-Minute Shoulder Workout

*Stephanie Detota, Morgan Moore, Undergraduate Students
James Hokanson, Associate Professor, Kinesiology*

The purpose of this study was to determine the amount of strength necessary to successfully complete VonLeer's (1986) 9-minute shoulder workout. College-aged individuals were used as subjects in the study. Each subject completed a familiarization session, a 1-RM bench press test, and a grip strength assessment using a hand-held dynamometer. Two days later subjects attempted to complete the 9-minute shoulder workout with 2.5-pound dumbbells while watching a PowerPoint presentation of the exercise sequence. Actual time completed was assessed using a stopwatch. Subjects were asked to report their current RPE twice during the workout program. Results were analyzed using SPSS 16.0 software.

The Effects of Static and Dynamic Warm-up on a Hockey Sprint

*Jeanna Dippel, Adam Ravener, Casey Hubbard, Undergraduate Students
Jeff Bauer, Associate Professor, Kinesiology*

Warm-ups are common practice for many athletes; however, due to conflicting results of multiple research studies, the warm-up protocol which results in the greatest improvement in performance remains unknown. To date no research has investigated the most effective warm-up procedure prior to playing ice hockey. The purpose of this study was to determine the effects of a static and dynamic warm-up on ice skating sprint times using 17 collegiate hockey players. The first day the participants were randomly assigned to one of three groups to establish the order in which they would perform the three warm-up modalities: no warm-up, static warm-up, and dynamic warm-up. The participants then performed the designated warm-up and upon completion of the warm-up participants were asked to complete an agility course on the ice. The following day each group performed a different warm-up followed by the same skating course. The third day each group did their final warm-up procedure and again completed the same skating course. All sprints were videotaped and analyzed using Dartfish software. Results were analyzed using SPSS 16.0 software.

The Effects of Static and Dynamic Warm-up Modalities on Vertical Leap Performance in Collegiate Rugby Players

Sean Maloney, Anthony Joyce, Paul Anderson, Undergraduate Students
Jeff Bauer, Associate Professor, Kinesiology

The purpose of this study was to determine whether static or dynamic stretching modalities would have any effect on performance in the vertical jump test. Seventeen collegiate male rugby players were the participants. Participants were randomly assigned to one of three groups: control (no warm-up), static warm-up, or dynamic warm-up group. After the warm-up modality was assigned participants completed the respective warm-up protocol. Upon completion of the warm-up protocol, participants performed three trials of the vertical leap test with 30-second rest intervals in between each trial. Results were analyzed using SPSS 16.0 software.

A Comparative Analysis of Barefoot and Shod Running

Lisa Holt, John Nulty, Colin Utz-Meagher, Undergraduate Students
Jeff Bauer, Associate Professor, Kinesiology

The aim of the current study was to investigate the biomechanical differences between barefoot running and shod running. Fourteen collegiate runners were the participants. Participants were asked to run four times across a force platform and walk four times across a GAITmat in both shod and barefoot conditions in order to establish a baseline. Following the initial evaluation all participants attended two barefoot training program sessions a week for three weeks. The first week included barefoot running for one minute and thirty seconds, the second week participants ran barefoot for three minutes, and the final week participants ran barefoot for five minutes. After completing all training sessions, participants were reassessed in order to measure any biomechanical changes. Results were analyzed using SPSS 16.0 software.

The Effects of Physical Activity on Individuals' Self Esteem

Lauryn Kaznowski, Elizabeth Wasik, Christopher Tangredi, Undergraduate Students
James Hokanson, Associate Professor, Kinesiology

The purpose of this study was to determine if a relationship exists between self-esteem and activity levels among college-aged individuals enrolled in an undergraduate major specific group exercise class. Thirteen undergraduate fitness majors were the participants. Prior to onset of their participation in the group exercise class a brief demographic questionnaire, a fitness assessment, and the Rosenberg's Self-Esteem Survey was given to all participants in order to establish baseline measures. Six weeks into the course participants were retested. Results were analyzed using SPSS 16.0 software.

Religion, Education, and Occupation: A Qualitative Analysis of Educational and Occupational Choices of Atheists

Faith Bentley, Undergraduate Student

Existing data presently show that a disproportionate percentage of mathematicians and scientists in the United States express disbelief in religion. Simultaneously, international math and science proficiency rate comparisons show the United States is not keeping pace. In many cases, the degrees to which countries are religious are inversely related to their proficiency rates, suggesting a relationship between religiosity and the pursuit of mathematics and science. The present research uses qualitative methods to explore this relationship, using semi-structured, in-depth interviews with self-identified atheists. The results of this study support the idea that the educational and occupational choices of atheistic mathematicians and scientists reinforce an atheistic worldview and uphold the values that atheists consider important.

Searching for the Hermit Foxey Brown: An Adirondack Mystery

Charles H. Yaple, Professor Emeritus, Recreation, Parks and Leisure Studies

David L. Miller, Distinguished Teaching Professor, Geography

Imagine a map of the Adirondack West Canada Lakes Wilderness Area and the words "Foxey Brown Hermitage" written across several thousand acres of wild forest. Initial inquiries reveal only that Brown was a hermit of questionable character who lived "there" in the late 1800's. More research finds a sketchy story of Brown being accused of murder, on more than one occasion, and that he had lived as a recluse for twenty-five years in the wilderness. This presentation tells "the rest of the story" including how Professors Miller and Yaple, along with SUNY Cortland geography students, found and explored the remains of Foxey Brown's long lost homestead. Yaple will share his four-year quest to understand Brown's life illustrating the triumphs and tragedies of an educated man compelled to pursue a hermit's lifestyle.

Floral Variation in Stinking Benjamin (*Trillium erectum*)

Sarah M. Smith, Undergraduate Student

Steven B. Broyles, Professor, Biological Sciences

Stinking Benjamin is a herbaceous perennial of deciduous forests in eastern North America. Each year a Stinking Benjamin plant will produce a single stem bearing three leaves and a single flower. Stinking Benjamin flowers vary in size and color within natural populations. We examined floral variation on nearly 900 plants from a central New York population. Image analysis was used to measure leaf area, petal length, petal width, sepal length, and flower color from digital photographs. Rhizome volume and age were determined from a subsample of these plants. These data will illustrate how trillium flowers vary with age, rhizome size, and leaf area within a natural population. Our results will provide detailed information on population demographics and the potential selection on floral traits by pollinators.

Jorge Ramos and the Immigration Debate

Timothy Gerhard, Assistant Professor, International Communications and Culture

Jorge Ramos, news anchor of the Spanish-language channel Univisión, has been ranked as one of the most important Hispanics in the United States. In addition to his work on television, Ramos has authored nearly a dozen books, several of which treat specifically the theme of immigration in the United States. Such books include *Morir en el intento*, an investigation into one of the worst recent border-crossing disasters, and his new book, *Tierra de todos*, in which he writes passionately about the need to reform the immigration system in the United States. As the immigration debate heats up this spring, it will be interesting to reflect upon what one of the most important Hispanic personalities today has to contribute to the immigration debate.

The Gaza Freedom March and the Israel-Palestine Conflict

Timothy Rodriguez, Project Support Specialist, Institute for Civic Engagement

Following the 2006 elections in the Gaza Strip that brought Hamas to power, Israel, with critical support from Egypt and the United States, imposed a blockade on the Palestinians in Gaza that has crippled almost every aspect of daily life. The blockade, which is an act of war under international law, has had severe consequences on food and water, health care, education, housing, and the economy in Gaza. The current plight of Gaza and all of Palestine is the context and reason for the Gaza Freedom March (GFM), an international delegation attempting to enter Gaza to challenge the blockade this past winter. Rodriguez will describe his experience with the GFM, highlight some important history of the conflict, and describe ways of achieving a peaceful settlement.

History and Tradition: Due-Process Rights Post-9/11

Christopher P. Latimer, Assistant Professor, Political Science; Associate Director, Institute for Civic Engagement

Matthew G. Pennello, Undergraduate Research Fellow

Since the landmark decision in *Boumediene v. Bush*, the Supreme Court rebuked the Bush Administration's previously unchecked, self imposed authority, later made legal by Congress. In *Boumediene v. Bush* (2008), the Court struck down the MCA (Military Commissions Act) as an unconstitutional encroachment of habeas corpus under the Suspension Clause. Unfortunately, the majority opinion neglected to clarify the historical foundation for granting habeas corpus to non-citizens, determining that the record was inconclusive. The purpose of our research was to look at whether the *Boumediene* majority misapplied the *Eisenstrager* precedent based on the principles of *stare decisis*, and if the *Boumediene* majority was wrong in mischaracterizing the history and tradition of the suspension clause as "reveal[ing] no certain conclusions".

The Twilight Years: A Revisionist View of Britain between the Wars

Gordon Beadle, Professor Emeritus, History

The near present, to some extent, always influences our view of the recent past and so it was with Britain where the inter-war years were later seen in the context of the heroic Battle of Britain, victory in World War II, and the dramatic rise of the social welfare state. But such a future could scarcely have been imagined in the light of the grim predications and public concerns of Britons during the inter-war years, which can be partially summarized as follows: "fear of eugenic disaster, the diseases of capitalism, the dark side of the human mind, the inevitability of conflict [war], the powerlessness of reason, the fear of political extremism."* Fear of the dangerous social and political consequences of the loss of religious belief might also be added to this depressing list of concerns. This paper will attempt to discuss and analyze the social, political, and emotional atmosphere of inter-war Britain with special emphasis on the often neglected decline of traditional religious belief, which, it might be tentatively argued, was related to the collective gloom and doom described above. *Richard Overby, *The Twilight Years, The Paradox of Britain Between the Wars* (London: Viking Press, 2009, p. 363).

Mathematics Education: Historical Development of Computers

Michael Tota, Michael Panetta, Megan Rice, Shirelle Thomas, Undergraduate Students

The history of computers can be traced back to the creation of numbers and operations of +, -, *, and division. The very first computers were People. But the history of mechanical computers can be traced back to 5000 years ago with the Oriental abacus, a calculating device of beads and rods that still is in use in some societies. However it is more appropriate to say that the history of modern/electrical computers should be traced back to 17th century. In this presentation, Michael Tota will share the historical development of Abacus and Sliding Ruler, Michael Panetta will talk about the historical development of the Pascaline and Leibniz Stepped Reckoner, Megan Rice will share her finding on historical development of Babbage's Differential Engine and ENIAC, finally Kathleen Davis will talk about the historical development of PCS and Calculators.

An Exploration of the Focusing Approach for Enhancing Student Discourse among Geometry Students

Betty Beckwith, Graduate Student

Teaching mathematics utilizes a variety of techniques. One technique, called focusing, is used to encourage student discourse in the classroom. The results of implementing this technique with tenth grade students in a geometry classroom will be discussed.

The Democratic Republic of the Congo: An Art Installation

Martine C. Barnaby, Assistant Professor, Art and Art History

Lorraine Berry, Director, NeoVox

Caitlin Adsit, Jennifer Bakala, Timothy Carroll, Eric Feuer, Graciela Hernandez, Sarah Lampke, Beth Newman, John Paone, Brian Roach, Jason Saunders, Undergraduate Students

The Democratic Republic of the Congo (DRC) has been home to one of the most deadly civil wars of the past century. In addition to the millions of dead, killed by a combination of seven invading armies, hundreds of thousands of Congolese women have been raped as a tactic of war. Activist art is based on the desire to bring about social change through collaboration. Art and professional writing students will present an art-based performance reflecting their research, reaction and need for change in the DRC. Through this performance students will present crucial information about the situation in the DRC, but will also provide participants/spectators with immediate "things that could be done." Participants will examine how art may or may not be used to move its viewers from observation to action. Time will be allocated for discussion at the end of the performance.

KEYNOTE ADDRESS

11:30 a.m.-12:30 p.m.

Brown Auditorium

“Leveraging Research for Action”

Brenda L. Henry '95, MPH, Ph.D.

Too often, research findings that have implications for programs, policies, and practices never make it into the hands of those who have the power to make changes. When research does make it out to key decision-makers, it is often laden with jargon that only those within that research field can understand, which makes the research virtually impossible for outsiders to comprehend. There are also instances when decision-makers base actions on research that is inconclusive or unsound due to either political pressures or an incomplete understanding of the overall findings in a field.

Unfortunately, many academic training programs do not prepare future researchers on how to disseminate and communicate their work to outside audiences. Once in the field, few opportunities exist to equip researchers with these critical tools. This session will focus on the important role that research could, should, and does play in the program, policy and practice decision-making process and how we, as a research and educational community, can do a better job in leveraging our research to create informed and purposeful action.

POSTER SESSIONS

12:30-1:30 p.m.

Lobby Area, 1st & 2nd Floors

Environmental Enrichment of South American Tamarin Monkeys at the Utica Zoo

Marjorie Pulver, Undergraduate Student

Environmental enrichment is commonly used with captive animals in zoos. It involves manipulating the animal's surroundings to induce a behavior that would normally occur in the wild. This is important because with intelligent animals, like the South American Tamarin monkeys, stimulation is necessary to prevent boredom and abnormal behaviors. Cotton-Top Tamarins, Golden-Headed Lion Tamarins, and Golden-Lion Tamarins were given daily enrichment at the Utica Zoo and their behaviors and responses to the techniques were studied through a nine week internship. The results showed that enrichment yielded a positive influence on the Tamarin monkeys. The techniques caused them to display natural behaviors, and to be more active and less aggressive.

Genetic and Floral Variation in Partridgeberry (*Mitchella repens*)

Megan O'Hare, Stefan Birek, Undergraduate Students

Steven B. Broyles, Professor, Biological Science

Partridgeberry is a distylous flowering plant found in forests throughout eastern North America. The flower morphology of individual plants is determined by a "supergene" complex. Plants bearing "thrum-like" flowers produce styles shorter than the stamens. Plants bearing "pin-like" flowers produce styles that exceed the stamen in length. Legitimate, compatible pollination occurs only between the two flower morphs. In this study, we characterized the variation of thrum and pin flower morphs from Hoxie Gorge. In addition, we conducted a genetic analysis on allozyme markers to begin searching for genes linked to the distylous supergene complex. Our results will illustrate how pin and thrum flower morphs vary in natural populations and if molecular markers may provide an opportunity to unravel genetic mysteries of distyly.

Exploring the Biochemical Activity of the *Arabidopsis thaliana* VTC3 Protein

Patricia L. Conklin, Associate Professor, Biological Sciences

Hannah Langbart, Kelly Schwippert, Undergraduate Students

Plant ascorbic acid biosynthesis proceeds mainly via the intermediates D-mannose and L-galactose. *Arabidopsis thaliana* mutants with defects in the *VTC3* gene have a significant ascorbic acid deficiency. The *VTC3* gene has been recently identified. Based on its predicted amino acid sequence, the *VTC3* polypeptide appears to contain a ser/thr kinase-like domain and a PP2C phosphatase-like domain. We predict that this polypeptide is involved in the regulation of plant ascorbic acid biosynthesis. In this project, we will confirm if these *VTC3* polypeptide domains do indeed function experimentally as predicted. Using site-directed mutagenesis, PCR, and Gateway cloning, we have generated two different recombinant DNA molecules that encode "stand alone" his-tagged versions of the *VTC3* kinase and *VTC3* phosphatase domains. We are expressing these domains in *E. coli* and will purify and test the resultant recombinant proteins *in vitro* for kinase and PP2C phosphatase activity. Our progress on this project will be reported.

Role of Syndecan-4 in Wound Healing

Amanda Howard, Undergraduate Student

Theresa Curtis, Assistant Professor, Biological Sciences

Chronic wounds are on the rise, and are estimated to cost the U.S. billions of dollars this year to treat. Understanding how the body repairs damaged tissues, and what genes and biochemical factors influence the wound healing process will have tremendous impact on the treatment of chronic wounds. In collaboration with Dr. Sarah Wilcox-Adelman at the Boston Biomedical Research Institute, we are investigating the mechanism of delayed wound healing in mice lacking the syndecan-4 gene. The syndecans are a family of transmembrane heparan sulfate proteoglycans that can act as co-receptors with growth factor tyrosine kinase receptors. An essential step in wound healing is a vascular endothelial growth factor (VEGF) induced increase in permeability of area vessels which allows inflammatory mediators and cells to gain access to the wound site to promote the repair process. The hypothesis of this study is that syndecan-4 acts as a co-receptor with the VEGF receptor on endothelial cells, and is essential for the VEGF induced increase in vascular permeability observed after injury. In this study, endothelial cells were isolated from wild-type and syndecan-4 null mice, grown in vitro, and exposed to VEGF. The data show that after VEGF exposure, the wild-type cells exhibited the expected increase in vascular permeability; whereas the syndecan-4 null cells did not. These data show that when syndecan-4 is absent, the VEGF induced increase in permeability is not observed which may contribute to the delayed wound healing observed in the null mice.

Antipredator Strategies of Invasive Earthworms

Nicole Chodkowski, Undergraduate Student

Peter K. Ducey, Professor and Chair, Biological Sciences

Earthworms are ecosystem engineers, and some species are suspected to be invasive in North America. This means that they may be changing the chemical composition of the soils and causing damage to our forests. To better understand the invasion, we need to know more about the ecology of invasive earthworms; important ecological differences among species may exist. We studied the antipredator defense mechanisms of five species of earthworms, specifically their ability to autotomize and regenerate, to detect interspecific differences in defensive strategies. We designed lab experiments using an artificial predator to test the ease of autotomy and post-autotomy behavior in each species. Our results demonstrate distinct differences among species, suggesting that the invaders differ in their abilities to survive predatory attack. Because other researchers have shown that salamander species also differ in defensive strategies and autotomy, we compared our results for earthworms with the scientific literature concerning salamander ecology and defense.

The Capacity of Trees at Hoxie Gorge to Mitigate Global Warming

Eugene Aarnio, Undergraduate Student

R. Lawrence Klotz, Distinguished Teaching Professor, Biological Sciences

Carbon sequestration occurs during photosynthesis when carbon dioxide is removed by plants from the air and then stored in the roots and trunks. Carbon dioxide in the atmosphere is a principal cause of global warming, and sequestration of this gas into the tissues of plants is an environmentally friendly way of neutralizing it. The larger the plants, the more biomass they represent and the more carbon that is sequestered in their tissues. Therefore, trees are a principal unit of interest for terrestrial carbon sequestration studies. Data were collected in the form of tree diameters measured at breast height from 177 trees in a 50 meter by 50 meter square plot at SUNY Cortland's Hoxie Gorge field station to estimate the annual rate of carbon sequestration by the forest. We estimate that Hoxie Gorge trees sequester 153,000 kg of carbon annually. This mitigates the emissions of approximately 295 average commuting students.

Dissolved Oxygen as a Measure of Productivity in a Hoxie Gorge Beaver Pond

Danielle Birmingham, Kyle Kufs, Ben Schuerlein, Undergraduate Students

R. Lawrence Klotz, Distinguished Teaching Professor, Biological Sciences

Beaver (*Castor canadensis*) create pond habitats along streams for protection against predators, resulting in a new aquatic ecosystem with increased sunlight. Before European settlement of North America and the near extinction of beaver, their ponds impacted an estimated 10% of the land area. The number of beaver and their ponds is increasing, making it important to understand how they impact the ecosystem. Previous published studies showed that beaver ponds were unproductive, lacking oxygen producers. However, a recent study by SUNY Cortland biologists found that a beaver pond along an agricultural stream in Virgil, NY was highly productive. Our study involved measuring dissolved oxygen in a beaver pond located in Hoxie Gorge to determine productivity in a more pristine area. During October, 2009, the maximum dissolved oxygen was 147 % saturation, indicating excess oxygen production. These data will be discussed in terms of the overall productivity of the pond and global climate change.

Using Molecular Techniques to Determine Genetic Diversity within the Earthworm Species, Octolasion tyrtaeum

Shannon Potaczala, Undergraduate Student

Angela M. Pagano, Assistant Professor, Biological Sciences

Non-native earthworms can have negative changes on the function and structure of forest ecosystems. In order to limit future invasions and manage areas already affected by non-native earthworms, it is important to determine patterns of earthworm invasion and spread. However, before this can be done, we must first decipher what species we are examining. The purpose of this research was to compare genetic sequences between individual earthworms of the same species to characterize the genetic structure of a locally found earthworm population. *Octolasion tyrtaeum* was used in this experiment as this species contains individuals that vary significantly in body length. Total genomic DNA was extracted and sections of the mitochondrial 12s and 16s genes isolated to identify individuals and determine if significant variations existed between their DNA sequences. These differences were used to assess relationships between individuals and may suggest if the population was established through single or multiple introductions.

Click Chemistry to a Photo-Cleavable Linker

Francis M. Rossi, Assistant Professor, Chemistry

Michael Houghton, Undergraduate Student

It is difficult for most biologically active peptides to traverse the hydrophobic cell membrane due to their size and polarity. However, peptides known as cell-penetrating peptides (CPPs) can cross the membrane while carrying an attached cargo. Using the "click chemistry" developed by the K. Barry Sharpless group, an azide labeled biologically active PKC peptide is clicked to an alkyne labeled CPP TAT peptide, allowing both to traverse the membrane. The alkyne is novel because it is photocleavable. This is desirable because it allows for cleavage at the appropriate time and location upon exposure to a focused laser beam.

A Multisensory Approach to Learning: The Art and Science of Voice Anatomy

Irena Vincent, Assistant Professor, Communication Disorders and Sciences

The larynx is the primary structure for voice production. Having a thorough understanding of voice/laryngeal anatomy is essential for undergraduate students in communication disorders and sciences. Both teaching and learning this type of material can be challenging. This is partly due to incompatibilities between the mode of classroom instruction and students' preferred type of learning. To overcome this obstacle, students enrolled in SHH 371 Voice and Fluency are exposed to a multisensory approach to learning, which consists of providing relevant information through PowerPoint presentation, verbal lecture, and laryngeal model examination. This is done not only to accommodate both visual and auditory, as well as tactile learners, but also to prepare them for the culminating learning experience of building their own model of the larynx using any material(s) they choose. As part of this poster presentation, pictures of students' models and their feedback on this type of learning will be shared.

Impact of Familiarity on Discourse Cohesion, Coherence, and Speech Acts for an Individual With Dementia of the Alzheimer's Type: A Qualitative Investigation

Alicia M. Gloede, Alyssa J. Riehle, Undergraduate Students

Brent Thomas Wilson, Assistant Professor, Communication Disorders and Sciences

Cohesion and coherence are important parts of any unfolding discourse, and these issues have been a topic of interest in relation to individuals with dementia of the Alzheimer's type (DAT). The impact of familiarity and the role of repetitive topics on the discourse cohesion and coherence have rarely been investigated. Coherence was defined as the appropriate association of an utterance in relation to the previous utterance, while cohesion was defined as the clarity of a single utterance. The qualitative methodology of conversation analysis was employed to explore and categorize the behaviors of interest. The purpose of this study was to determine the strategies used by both the individual with DAT and her conversational partner to maintain cohesion and coherence within conversations. The results of the study indicate that depending on the familiarity between the interactants, different strategies were employed to co-construct meaning and the appearance of conversational competence.

Dendroclimatology of Red Pine at Raquette Lake, NY

Jennifer Becker, Undergraduate Student

David Barclay, Associate Professor, Geology

Dendroclimatology is a useful tool for studying past climate fluctuations. This technique involves collecting core samples from trees in an area and then analyzing their annual ring width patterns. By comparing the results with meteorological data, it is possible to determine specific environmental factors influencing tree growth. The purpose of this research project is to determine which climatic variables have the largest effect on the growth of red pine (*Pinus resinosa*) in the Adirondacks. This information can then be used to determine how climate may have changed in this region over the past few hundred years.

Using Geographic Information Systems (GIS) for Admission Management

David Delcourt, Undergraduate Student

Wendy Miller, Assistant Professor, Geography

There are a lot of resources, time, and thought involved when it comes to recruiting students to a university. The admissions department needs to locate and evaluate areas with graduating high school seniors to recruit and they have to keep track of where and how they are investing their recruitment capabilities. Keeping accurate records of previous admissions and recruitment efforts and being able to visualize the change over time is something that is equally important. Geographic Information Systems (GIS), or computer mapping, helps in all of these aspects. With GIS, a user can map any data that has a geographic location. The software contains many capabilities, but the Animation tool in ArcMap is specifically designed to show spatial data as it changes over time. An animation can show what areas have historically been the best for recruiting incoming freshman and which areas may require improved recruitment measures. This poster will explore the capabilities of GIS for admissions management.

Using Geographic Information Systems (GIS) to Update the New York State Department Of Environmental Conservation Herpetology Atlas

David Delcourt, Angelika Beckmann, Eugene Aarnio, Glen Brozio, Rebecca Aungst, Ian Burk,

Lindsey Rothschild, Undergraduate Students

Wendy Miller, Assistant Professor, Geography

The New York State Department of Environmental Conservation maintains a database of the geographic distribution of New York State's herpetofauna. Herpetofauna include amphibians, such as frogs, toads, and salamanders, as well as reptiles, such as turtles, snakes, and lizards. Volunteers throughout New York State conducted a survey of herpetofauna from 1990 to 1999 and recorded the species identification and location. Biology and geography students are working with this database and historic records to update the occurrence and location of these species in digital format. Specialized Geographic Information Systems (GIS) software is used and will be presented in this poster.

Using Geographic Information Systems (GIS) to vie Marcellus Shale Deposits

Sarrah Kubinec, Undergraduate Student

Wendy Miller, Assistant Professor, Geography

Geographic Information Systems (GIS), a computer mapping program, can be used to explore many topics. Kubinec's research looks into its use for displaying Marcellus Shale deposits in New York and Pennsylvania. The poster will discuss the potential uses of GIS in the oil and gas exploration field.

A Geographic Analysis of Energy Consumption in European Nations in 2000

Kristen Buck, Undergraduate Student

Wendy Miller, Assistant Professor, Geography

Geographic Information Systems (GIS) uses computer mapping software to create maps. With computer mapping software you can use any data set that you want as long as you have some geographic reference. Behind the map is a database that is similar to that of Microsoft Excel. I obtained energy data from the World Resource Institute Earth Trends portal. Using GIS software I created a poster of maps showing the natural gas consumption, biogas and liquid biomass consumption, solar, wind and wave consumption, coal and coal products consumption, hydroelectric consumption, oil and petroleum consumption, solid biomass consumption, nuclear consumption, and total energy consumption all for European nations in 2000.

Geographical Information Systems (GIS) Presentation of Descriptive and Negative Socioeconomic Indicators in Central New York

Dawn Battista, Undergraduate Student

Wendy Miller, Assistant Professor, Geography

This study uses ERSI software to create GIS maps of selected urban and rural socioeconomically depressed areas in Central New York (CNY) and Binghamton, NY, in the Southern Tier. This is to be used as a tool to help policymakers identify problem areas and the magnitudes of various problems. Among other sources, Ms. Battista drew on methodology utilized by Javier Martínez who published a study entitled: *The use of GIS and indicators to monitor intra-urban inequalities. A case study in Rosario, Argentina*. Quoting from the Martínez paper abstract: "This article presents a methodology that combines the use of urban indicators and Geographical Information Systems (GIS) as a valid diagnostic and prescriptive tool to generate policy relevant information on the complex and multidimensional aspects of spatial inequalities." The Battista results can also be used as a diagnostic tool, but it does not cover as broad an area as did Martínez. The Battista study focuses on three major areas: Demographic; Work, Education, and income; and, Social Security, Supplemental Security Income, and Poverty. Data was collected from the U.S. Census Bureau, city and state sources, and private community development organizations.

Are Better Runners Better?

Students in Advanced Exercise Physiology (EXS 555)

James F. Hokanson, Associate Professor, Kinesiology

Students in EXS 555 studied the hypothesis that trained runners will have a better running economy. Volunteers ran around an indoor 200 m track at a constant self-selected comfortable pace for 5 – 10 min. Oxygen cost (VO₂) was measured using indirect calorimetry by a portable oxygen analyzer (MedGraphics VO2000). Heart rates were measured by a Polar Heart rate monitor. The pace was monitored every lap by a stopwatch to control for pace changes throughout the run. A survey based on self-perceived running ability was completed by each participant. Results showed approximately 10% better running economy in trained runners. Respiratory exchange ratio had a greater association with relative exercise intensity compared to actual running pace.

Fun Through Fitness

Teresa Baker, Undergraduate Student

James F. Hokanson, Associate Professor, Kinesiology

Roseanne Coville, Cortland County Youth Bureau

Manny Lann, Director, Cortland County Youth Bureau

Susan Prier, Coordinator, Eat Smart New York, Cornell Cooperative Extension, Cortland County

Obesity rates for children in the United States have been increasing. Two main factors affecting greater obesity is amount of physical activity and nutrition. The main purpose of the present study was to increase physical activity level in children. An after school program was developed which ran for 6-8 weeks and met once a week for 1½ hours. Students were shown how to be physically active without the need of organized sport and equipment. They were taught new and fun ways to play in an unstructured format. They were also introduced to easy and nutritional snacks they would be able to make at home. Four rural elementary schools participated. Total attendance for the program was 781 students. One measure of success of the program was a high retention rate.

Enjoyment Levels of Youth with Visual Impairments While Playing 3 Different Commercially Available Exergames

Nick Boffoli, Graduate Student

John Foley, Associate Professor, Physical Education

Recent scientific research has shown that children benefit from an hour or more of physical activity a day. However, by about age 13, many children are not receiving the recommended 60 minutes of MVPA (moderate to vigorous physical activity). Although this is a problem potentially affecting all youth, the problem is magnified in certain populations. Studies have concluded that on average, children with visual impairments have a lower level of fitness and less motor skills than their sighted peers. Those with visual impairments face many challenges when trying to be physically active, so they often do not receive all the same opportunities as their sighted peers. This study sought out to measure the enjoyment levels of youths with visual impairments while using 3 commercially available Exergames, or physically active video games. The results can help us provide a wider range of opportunities for those with visual impairments to be physically active.

Validity of the Trauma Symptom Checklist-40

Margaret Anderson, Professor, Psychology

Brandi Kelley, Undergraduate Student

With mental and emotional disorders affecting the quality of one's life, it is important to have measures for an accurate diagnosis. New measures claim to identify disorders like depression, anxiety, bipolar, and personality disorders, to name a few. However, to be an effective measure it must be valid. This means that the measure is actually testing what it claims to be testing. The purpose of this study was to find supporting evidence that the Trauma Symptom Checklist-40 is a valid measure of depression and anxiety. Students of the Psychology 101 course took three surveys, two of which have already been found valid for depression and anxiety. The results of the TSC-40 were compared to the results of the two pre-validated measures. The TSC-40 was found to be valid, so it will be worth validating the entire measure. With the TSC-40 being able to properly identify a debilitating disorder, it will be beneficial to those who are looking for treatment.

The Effects of Prenatal Exposure to Nicotine on Ethanol Consumption by Male and Female Rats

John P. Lombardo, Professor, Psychology

David F. Berger, Professor, Psychology

Joshua A. Peck, Graduate Student

Stephen V. Faraone, Frank A. Middleton, Steven L. Youngentob, SUNY Upstate Medical University

Nicotine has been associated with abnormalities in fetal brain development. Several investigators have shown that nicotine affects alcohol consumption by rats. For example, Potthoff, Ellison, and Nelson (1983) reported increased ethanol intake in females implanted with a device that slowly released nicotine. We investigated the effects of gestational exposure to nicotine on the voluntary ethanol consumption by male and female Sprague-Dawley rats. Starting on postnatal day 30 nicotine-exposed and control groups had 24-hr access to 2%, then 4%, and then 6% ethanol, followed by 1-hr access to the 6% until intake stabilized. Nicotine-exposed females consumed more ethanol during 1-hr access than both nicotine-exposed and control males; but after using water intake as a covariate, the differences were not significant. These data show that deprivation conditions need to be considered when generalizing the results of voluntary consumption studies, and that estrogens may be a modulator of addictive behavior.

Assessing the Role of Multisensory Redundancy on Imitative Behavior in 9-Month-Old Infants

Joanna Verdi, Undergraduate Student

Kimberly Kraebel, Associate Professor, Psychology

Studies have suggested that multisensory redundancy facilitates learning, although this effect decreases with age and increases with task difficulty. The current study investigated the role of multisensory redundancy in an imitation task. Nine-month-old infants watched a two-action sequence on an object (a cylinder) and were tested for imitation of those actions. Redundant sensory information about object shape was manipulated across three groups. Preliminary analyses revealed, unexpectedly, that infants who received mismatching sensory information were the fastest to imitate actions of the cylinder. These results present an interesting dimension to the role of multisensory redundancy in learning. In a more cognitive-based imitation procedure, multisensory redundancy had its greatest effect when the redundant information (i.e. shape) mismatched across the two senses (haptic, visual). These results suggest a more complex interplay among the factors of age and task difficulty and their role in facilitating learning in a multisensory context.

Matching Multisensory Information Facilitates Imitative Behavior in 6-Month-Old Infants

Jennifer P. Walker, Undergraduate Student

Kimberly S. Kraebel, Associate Professor, Psychology

Studies have shown that infants can imitate simple action sequences as early as 6 months. The current study, unlike previous studies, focused on the role of intersensory processes on cognitive behavior and imitation of actions. Infants watched a two-action sequence on a cylinder and were tested for imitation of those actions. Redundant sensory information was manipulated across three groups. Preliminary analyses revealed that infants holding a cylinder while observing actions upon a cylinder made the first action faster than both control infants and infants who held a brick. The infants who held a brick performed the first action significantly slower than the cylinder group and control infants. Results suggest that imitative learning is facilitated in infants in the presence of matching multisensory information and inhibited in the presence of mismatching multisensory information. Results are in agreement with previous studies on facilitated learning and with Bahrlick and Lickliter's (2004) Intersensory Redundancy Hypothesis.

Math Anxiety, Confidence, and Self-Efficacy in College Students

Michael Curry, Rebecca Zurek, Undergraduate Students

Judith A. Ouellette, Associate Professor and Chair, Psychology

Kathleen Burke, Associate Professor, Psychology

Math anxiety, confidence, and self-efficacy were examined in male and female undergraduate students. Results indicate that math anxiety is negatively correlated with math self-efficacy and math confidence. Specifically lower math anxiety is associated with greater math self-efficacy and confidence. Interestingly, the number of college math courses a student reported previously taken was positively associated with math confidence, such that the more courses a student reported taking the higher their math confidence. Implications for performance are discussed.

CONCURRENT SESSIONS III

1:30-2:45 p.m.

The SUNY Cortland Community Bike Project: 5 Years and Going Strong

Lindsey Brown, Graduate Student

Lynn Anderson, Professor and Chair, Recreation, Parks and Leisure Studies

Eddie Hill, Assistant Professor, Recreation, Parks and Leisure Studies

Caleb VanSickle, Undergraduate Student

Over the last 5 years, the Community Bike Project at SUNY Cortland has progressed from an inspirational idea to a campus-wide sustainable phenomenon! The project began as a free bike share and has evolved into a campus-wide sustainable vehicular system, an alternative to gas-guzzling busses and cars. Students, faculty and staff from all departments across campus have been utilizing loaner yellow bikes as a method of transportation. The last year brought many changes including a check-in/check-out system, a semester-long bike rental option, and the ability to take a bike anywhere in town. These changes have inspired students to complete research projects, organize special events and become advocates for the program. This session will present the results of student research projects that have helped the organizers of the Bike Project create a sustainable program, as well as update the campus community on the new changes to the project.

SUNY Cortland Writing Contest Award Winners Present!

Each year, the SUNY Cortland Writing Committee sponsors a campus-wide writing contest open to students in all majors and at all levels of study. Categories for which writing can be submitted include academic writing, fiction, poetry, scripts, literary nonfiction, and web page design. This year, six College Writing Contest winners will present their work.

Robot Music (for people with robot ears)

Brooke Alden Hoffman, Undergraduate Student

"The light she helped kindle": Revisiting Emma Hart Willard and the Troy Female Seminary, 1822-1844

Michael Read, Graduate Student

The Butterfly Snatcher

Michael DeVito, Undergraduate Student

Homework Help

Victoria McGahan, Undergraduate Student

Yevgeny Zamyatin's We and the Fallacies of Logic in Utopia

Andrew Hamilton, Undergraduate Student

A Story About

Kaitlyn Curtis, Undergraduate Student

Color Adjustment: Critical Media Analyses of Women of Color

Trends in media theory and analysis discuss the dominant ideological representations of women in media today. However missing from these discussions is a succinct dialogue of difference regarding images of women of color. This panel brings together five student scholars whose individual papers situate complex issues of racial identity. Together their work focuses on matrixes of oppression as cultivated in mainstream media programming and advertisements. At stake are issues of skin tone, body image, eating disorders, and racial stereotypes. Together, panel members will create dialogue of understanding by suggesting ways to critique and to resist such representations.

Beauty: More Than A While or Black Thing

Rachel Gorman, Undergraduate Student

Beauty is defined as “the quality or aggregate of qualities in a person or thing that gives pleasure to the senses or pleasurably exalts the mind or spirit.” This definition speaks nothing of color, race, or gender. So why is it that from the moment we are born we are taught lighter is better or more beautiful? In this paper, I consider why white Barbie dolls are considered the “norm?” I position myself as a mixed race girl/woman who remembers growing up and getting only Barbie dolls that were white, blonde and had blue eyes. My paper seeks to discuss color codes and discrimination within one’s culture, and internal conflicts that different races encounter in society. Finally, I highlight how the media exacerbates such color lines.

Latina Women and the “White Suburban Problem”

Thanisa Perez, Undergraduate Student

Eating disorders have, for the most part, been a problem of the white population in the United States. Research on Latina women and their ideas of beauty now indicates that the number of Latina women suffering with eating disorders has increased. Latina women are not portrayed accurately in the media, and any attempt to try has been manipulated to fit the white idea of what is beautiful. In this paper, I will attempt to look into the reasons as to why eating disorders have become prevalent in a culture where the rate was low. I will also focus on why our perception of beauty has changed so much and why it is easy for us to accept it and change where we come from.

Black Woman & Body Image

Bari Smith, Undergraduate Student

In many cultures and historical periods women have been proud to be large; being fat was a sign of fertility, of prosperity, of the ability to survive. Even in the U.S. today, where fear of fat reigns in most sectors of the culture, some racial and ethnic groups love and enjoy large women. In this paper, I will examine studies that indicate that some black women experience more body satisfaction and are less concerned with dieting, fatness, and weight fluctuations than are white women. My analysis investigates how black people prize wide hips, broad curves, and fleshy bodies and whether black women have positive body images or if they too are succumbing to a “coke bottle shape” ideal. Media artifacts of black women are examined and recommendations are made for creating positive discussions about body images for black girls.

Watching a Colored T.V.: Media Depiction's of Women of Color

Tiffany Lewars, Undergraduate Student

As a child, I moved to the United States from Jamaica. I was conditioned to Jamaican television programs and cartoons that were so full of diversity and positive characters. In America, the television programs showed me men and women that looked nothing like me. Most of the time when I saw people on my television that looked like me, they were characters that made me far from proud. In this paper, I will deconstruct the media's depiction of women of color from a commercial/advertising standpoint. I will delve into the differences in the complexion of women used in these ads. I will address a politics of skin tone with regards to assimilation into the ideological culture of the United States and suggest ways for girls of color to resist such images.

Island People: A Critical Media Analysis of West Indian Women

Sarah Gentillon, Undergraduate Student

West Indian men and women, "island people" as the media calls them have been limited stereotypical roles. There are different stereotypes for people of different nations such as Jamaica, Haiti, and The Dominican Republic. The men are portrayed as unemployed, weed smoking, deadbeat fathers with dreadlocks. Meanwhile the woman are seen as angry, sex crazed, man needing mothers, with several children struggling either without a job or juggling multiple jobs such as a nurse's aid or a maid. In this paper, I will examine media portrayals of men and women of West Indian countries. Using textual analysis, I will examine gender representations of "island people and advocate for audiences to critically reflect on such images and media interpretations.

Justification and Proof in School Mathematics – Clinical Interviews

Ruchi Agarwal, Christopher Donohue, Graduate Students

Research on justification and proof in school mathematics shows that students have many difficulties associated with reading and writing proofs. In this session, undergraduate and graduate students from AED 492 and AED 602 will share results from clinical interviews conducted with students in area schools on the topic of justification and proof in the context of secondary mathematics classes.

Harlotry Players: Students Perform Scenes from Classic and Contemporary Plays

Jaelyn S. Pittsley, Lecturer, English

Janet Wolf, Associate Professor, English

Andrea Harbin, Assistant Professor, English

Drama is meant to be performed, and the most comprehensive way for students to appreciate the complexities of dramatic art is to stage scenes from the plays that they are studying in class. Students from Shakespeare class, Introduction to Drama class, and volunteers from the student body and alumni will perform several brief scenes from Shakespearean and other classic authors, and also from contemporary authors.

CONCURRENT SESSIONS IV

3:00-4:15 p.m.

Measuring the Educational Impact of the Promoting Environmental Awareness in Kids (PEAK) Kit: The Development and Implementation of a New Scale

Jennifer Miller, Graduate Student

Eddie Hill, Assistant Professor, Recreation, Parks and Leisure Studies

Amy Shellman, Assistant Professor, Recreation, Parks and Leisure Studies

Lindsey Brown, Graduate Assistant

Ron Ramsing, Assistant Professor, Western Kentucky University

To determine the educational impact of the PEAK program on youth, kids' attitudes before and after participation in the program will be measured using the newly developed PEAK Assessment Scale. A 35-item Likert-type scale was designed and the items were constructed based on the goals of the program, material from the PEAK activities, and a literature review. The scale was modified through review and feedback from a panel of experts, including educational administrators at Leave No Trace Center for Outdoor Ethics. Students will participate in a daylong PEAK experience facilitated by college students in the spring of 2010. This assessment scale could promote more usage of the program by providing empirical data to help support claims that participation can develop environmentally responsible youth. Thus, resulting in getting kids outside more while assessing their learning of the Leave No Trace principles, which reinforces the national Children in Nature movement.

Effectiveness of Anti-Smoking Campaigns

Josiah Cimino, Undergraduate Student

It was once thought that there were no harmful side effects of smoking cigarettes. Today, it is a well known fact that smoking cigarettes can be detrimental to one's health, and even harmful to the health of those around you. In recent history, there have been many different initiatives to help prevent or decrease the amount of smokers in America. Cimino's study will be to examine the relationship between adults who smoke (aged 18 and up), either willingly or through addiction, and the effectiveness of anti-smoking campaigns. This research project is important because hopefully it will help determine what types of anti-smoking legislation are effective at decreasing the amount of smoking through the population.

Inequities in Technology Use in English Classrooms: Is There a Digital Divide?

Brian Cibelli, Graduate Student

Cibelli will review research on technology integration in middle and high school classrooms in an attempt to answer the question: To what extent is technology being used equitably and effectively in low resource as well as high resource ELA middle-school and high-school classrooms? Cibelli will examine access to hardware, software, the Internet, and technology support.

Digital Identity

Joyce Hansen, Graduate Student

How is identity constructed in online spaces? Are online identities real? Are students suffering social pressure to conform in virtual group settings? Are digital literacy practices destroying students' grammar skills? Hansen will synthesize research on the ways Web 2.0 literacy practices like instant messaging, short message service, virtual group work, and webpage creation are used by adolescents to construct digital identities. Evidence suggests that online identities are "real" constructions; that social conformity based upon socio-demographic likeness does sometimes take place, depending upon an individual's need to be a part of a group; and that literacy practices associated with non-standard English usage might provide key analytic linguistic markers.

Blogs, Wikis, Webquests, and Video Games and Their Effects on Learning and Literacy

Tim Casey, Graduate Student

Casey will review research on blogs, wikis, Webquests, and video games and their effects on learning and literacy in ELA classrooms. The research suggests that these digital tools are positive influences on the development of literacy in students; they vastly improve motivation and engagement in the learning process; and they may empower students to become life-long literacy learners.

Spoken Word Performance by Professional Writing Students

Professional Writing Students

Professional Writing students read from their creative nonfiction, rap, short fiction, poetry, and other creative work. This session is open to spoken performances from other students and faculty as well.

Bridging the Gap Between Classroom Learning and Real World Application Through Video Conferencing

Paulo Quaglio, Associate Professor, International Communications and Culture

Rebecca Hanzes, Haley Hudson, Elena Krawczyk, Jessica Przepiora, Hilary Rehler, Undergraduate Students – TESOL (Teaching English as a Second Language) Program

There is a major gap between classroom learning (including the initial field experiences) and student teaching. The presenters introduce a pilot project aiming at providing ESL (English as a Second Language) teachers in training with real language teaching practice prior to their student-teaching experience. Utilizing video-conferencing software, the teachers in training teach ESL learners abroad – online, yet face-to-face; currently, the ESL learners taking part in the project are from Brazil. The participants describe the design of the project, share their experiences, and discuss the benefits and potential of this modality of practicum for other disciplines as well. A live demonstration of a class is also included in the presentation.

Mathematics Education: Cross Cultural Analysis/Queensland Australia vs. New York

Shane W. Sint, Graduate Student

Cross-Cultural analysis of school system is an important aspect for schools, teachers, and curriculum developers to learn and improve their school systems. A detailed analysis of Queensland, Australia and New York school systems will be presented. Improving recommendations for Queensland Australia and New York Secondary Educational systems will be discussed.

Babylonian's Contributions to Mathematics and Science

Robert Emery, Graduate Student

The Babylonians were the original occupants of the Fertile Crescent, the area between the Tigris and Euphrates rivers (also known as Mesopotamia) in what is now Iraq. They were one of the first cultures to develop a writing system and have a rich history of early mathematical contributions dating back to their very beginning in 1700 B.C. Their studies cast an umbrella over many modern day specified subjects and the ripple effect of these beginnings are still evident, sometimes blatantly. Some of Babylonian's Contributions to Mathematics and Science will be shared in this presentation.

Europeans Contributions to Mathematics and Science

Jamie Wright, Graduate Student

Europeans made their contributions to mathematics and science much later than most cultures. With all the political and social troubles, it wasn't until around the 10th century that Europe was stable enough for people to begin to learn and focus on education. After the popularization of translating and publishing books of other cultures, Europeans interest in mathematics finally sparked. In this presentation, some of Europeans Contributions to Mathematics and Science will be presented.

Spanish Contributions to Mathematics

Thomas Cullem, Graduate Student

Spain's European inhabitants made important contributions to preserving classical mathematics after the Fall of Rome and showed flashes of creativity into the Middle Ages. It was her Islamic residents, however, who played by far the bigger role in this process. Highlights of Contributions of Spanish spoken People to Mathematics will be shared with participants.

CLOSING SESSION

4:30-5:15 p.m.

Brown Auditorium

SUNY Cortland Rock, Jazz, and Blues Ensemble with Hip Hop Culture

Undergraduate Students from the SUNY Cortland Rock, Jazz, and Blues Ensemble

Undergraduate Students from Africana Studies and Communication Studies: Hip Hop Culture

The SUNY Cortland Rock, Jazz, and Blues Ensemble explores and performs various facets of American popular music dating from rock to various forms of jazz to blues dating from the beginning of the 20th century to the present. The Hip Hop Culture Class presents an original Hip Hop Video created by undergraduate students at SUNY Cortland. Students have created an original beat, lyrics, and done their own video and audio recording and editing. For Scholars' Day, the video focuses on a student letter to Dr. Bitterbaum through which the students showcase their critical engagement of institutional systems, standards, and practices.

SPECIAL POST-SCHOLARS' DAY LECTURE

7:00 p.m.

Brown Auditorium

From Overconsumption to Time Affluence: Trading "Stuff" for Time, Health, Families, and the Environment

John de Graaf, Executive Director of TAKE BACK YOUR TIME

In his talk, John de Graaf will focus on the relationship of consumerism and time poverty, health and the environment, and what we can do take back our time.

Scholars' Day is made possible with support from the
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www.cortland.edu/scholarsday

