

# 2002 Slippery Rock University of Pennsylvania Symposium for Research and Scholarship

THURSDAY, APRIL 11, 2002

## SUCCESSFUL STUDENT LEARNING AND TRANSITION

9:00 – 11:00 am

Choose from two workshops:

**“Thirty Years of Research on Efforts to Improve the First Year Experience:  
What Have We Learned and Are We Making It Any Better?”**

**Dr. John N. Gardner**

MPR University Union

**“Building on Solid Evidence:  
Intentionally Designing and Assessing First Year Programs”**

**Dr. Randy Swing**

206 University Union

## SESSION NO. 1

### ORAL PRESENTATIONS

8:30 – 11:00 am

Graduate School of Physical Therapy Building, Room 130

8:30 am ELDER, Timothy\* (G), [eltd36@sonline.net](mailto:eltd36@sonline.net), BORSARI, Bruno (F), Parks and Recreation/Environmental Education: **A Feasibility Study for the Implementation of Rotational Grazing in Western Pennsylvania.**

9:05 am EDIRISINGHE, Janaka (U), GHIMIRE, Ashwin (U), MARTINEZ, Juan (U), SLATER, Erika (U), WONG, Io Kei (U), VALENTINE, David W.\* (F), [david.valentine@sru.edu](mailto:david.valentine@sru.edu), Computer Science: **Learning a Second Programming Language in a Rapid Prototyping Environment: Jumping through Java!**

9:30 am MATLACK, Adrian\* (U), [axm4197@sru.edu](mailto:axm4197@sru.edu), THANGIAH, Sam R. (F), Computer Science: **Distributed Architecture Solutions to Vehicle Routing Problems with Time Windows.**

9:50 am JOHNSON, P.A. (F), Secondary Education, BURKHART, P.A.\* (F), [patrick.burkhart@sru.edu](mailto:patrick.burkhart@sru.edu), Geography, Geology, and The Environment, GRABNER, E.M. (F), Math, BUCHERT, E.W. (F), Elementary Education, CAMPBELL, M.L. (F), Academic Services, DECARLO, C.L. (F), Elementary Education: **Collaborative for Excellence in Teacher Preparation (CETP)-PA: Scholarship, Pedagogy, and an Increasingly Scientifically-Literate Citizenry.**

10:25am PERMENTER, Rachela (F), English, WAGNER, Corrie\* (G), [corriegirl@hotmail.com](mailto:corriegirl@hotmail.com): **‘The Desert of the Real’: Baudrillard’s Hyperreality, Sun Tzu’s Taoism, and The Matrix as Romantic-Postmodern Film.**

(F) Faculty, (G) Graduate Student, (U) Undergraduate, (S) Staff

\* Denotes speaker

**THURSDAY, APRIL 11, 2002**

**KEYNOTE ADDRESS BY  
DR. JOHN N. GARDNER AND DR. RANDY SWING  
Celebrating Scholarship: Students and Faculty Learning Together**

11:30 am – 12:30 pm  
MPR, University Union

**QUESTION AND ANSWER**  
Dr. John N. Gardner and Dr. Randy Swing  
1:45 – 2:30 pm  
MPR, University Union

**SESSION NO. 2**

**POSTERS**  
1:30 – 4:20 pm  
Graduate School of Physical Therapy Building, Room 132

- 1:30 pm BODENHORN, Penny, J.\* (U), [pennybodenhorn@hotmail.com](mailto:pennybodenhorn@hotmail.com), PIATT, Gretchen A. (G), University of Pittsburgh, Pittsburgh, PA. STUHL DREHER, Wendy L. (F), FORREST, Kimberly Y-Z. (F), Allied Health, RYAN, William. J. (F), Exercise and Rehabilitative Sciences: **A Picture of Depression Among College Students.**
- 1:30 pm REYES, Genara\* (U), [irisreyes99@yahoo.com](mailto:irisreyes99@yahoo.com), STOCKTON, Steven (U), ADAMCZYK, Jennifer (U), PORT, Richard (F), Psychology: **Acute Dexamethasone or Corticosterone Treatment Enhances Prepulse Inhibition in Rats.**
- 1:30 pm ADAMCZYK, Jennifer\* (U), [jennadamczyk@hotmail.com](mailto:jennadamczyk@hotmail.com), STOCKTON, Steven (U), PORT, Richard (F), Psychology: **Chronic Corticosterone Elevation Retards Appetitive Instrumental Conditioning in Rats.**
- 1:30 pm STOCKTON, Steven\* (U), [sds5579@sru.edu](mailto:sds5579@sru.edu), PORT, Richard (F), Psychology: **Chronic Corticosterone Elevation Impairs Prepulse Inhibition in Rats.**
- 2:30 pm BRANUDEEN, Shafraz (U), MURTHY, Rachna (U), PATHIRANA, Dilsara (U), TENNAKOON, Shalinda\* (U), [sxt2238@sru.edu](mailto:sxt2238@sru.edu), THOMAS, Jacob (U), THANGIAH, Sam (F), Computer Science: **Accessing Student Grades Securely over a Web Interface.**
- 2:30 pm RODGERS, Scott A.\* (U), [sar4712@sru.edu](mailto:sar4712@sru.edu), CHMIELEWSKI, Jerry G. (F), STRAIN, Steven R. (F), Biology: **Use of RAPD PCR Analysis in Studying the Biogeographical Relationships Among Members of the Genus *Antennaria*.**
- 2:30 pm REUSTLE, Theresa\* (G), [territbl9403@yahoo.com](mailto:territbl9403@yahoo.com), BORSARI, Bruno (F), Parks and Recreation/Environmental Education, KEFELI, Valentine, Slippery Rock Watershed Coalition, Cranberry, PA 16066: **Germination Tests of Lettuce (*Lactuca sativa* L.) Seed in Red Sumac (*Rhus typhina*) Leaves Water Extracts and Phenolics Isolation through Paper Chromatography.**

## THURSDAY, APRIL 11, 2002

3:30 pm ELDER, Timothy\* (G), [eltd36@csonline.net](mailto:eltd36@csonline.net), BORSARI, Bruno, (F), REYNOLDS, Thomas (S), Parks and Recreation/Environmental Education: **A Preliminary Evaluation from the Educational Opportunities Offered by a Solar Powered Cultivator.**

3:30 pm ELDER, Timothy\* (G), [eltd36@csonline.net](mailto:eltd36@csonline.net), BORSARI, Bruno, (F), REYNOLDS, Thomas (S), Parks and Recreation/Environmental Education: **Technical Characteristics and Versatility of an Alternative Energy Toolkit at Slippery Rock University.**

### SESSION NO. 3

#### ORAL PRESENTATIONS

1:30 – 3:00 pm

Graduate School of Physical Therapy Building, Room 130

1:30 pm McDONALD, Andy\* (G), [andyboeke@yahoo.com](mailto:andyboeke@yahoo.com), DOHERTY, Steven (F), Parks and Recreation/Environmental Education: **A Proposal for a Campus Sustainability Initiative for Slippery Rock University.**

2:05 pm KOWALCZUK, Ranae\* (U), [drradical@hotmail.com](mailto:drradical@hotmail.com), STRASSER, Jeffrey, Geology, Augustana College, Rock Island, IL 61201, EVENSON, Edward, Earth and Environmental Sciences, Lehigh University, Bethlehem, PA 18015, BURKHART, Patrick (F), Geology, Geography, and The Environment, ENSMINGER, Staci, Geology and Geography, Northwest Missouri State Univ., Maryville, MO 64468, LAWSON, Daniel, CRREL, Fort Richardson, AK: **Rotation, Translation, and Vertical displacement of Supraglacial clasts during summer ablation, Matanuska Glacier, Chugach Mts., AK.**

2:30 pm SHOTWELL, Mark A\* (F), [mark.shotwell@sru.edu](mailto:mark.shotwell@sru.edu), Biology, ANDREWS, Richard I., Grove City Senior High School, Grove City, PA 16127: **Maize Crosses to Illustrate Epistatic Ratios of Kernel Colors in Maize.**

3:05 pm BILLEK-SAWHNEY, Barbara\* (F), [barbara.billek@sru.edu](mailto:barbara.billek@sru.edu), Graduate School of Physical Therapy: **Preliminary Study of Compliance and Outcomes and Their Relationship in Patients After Anterior Cruciate Ligament Surgery.**

3:30 pm HOLBEIN-JENNY, M.A. (F), BILLEK-SAWHNEY, B. (F), BECKMAN, E.\* (G), [ebeckman@angelfire.com](mailto:ebeckman@angelfire.com), CHICHY, J. (G), GRUVER, K. (G), MEEK, K. (G), SMITH, T. (G), Graduate School of Physical Therapy: **A Comparison of the Activities-Specific Balance Confidence Tool, Multidirectional Reach and Berg Balance Score in Elderly Residents of a Catered Living Facility.**

## THURSDAY, APRIL 11, 2002

### SESSION NO. 4

#### DANCE PERFORMANCES

1:30 – 3:00 pm

West Gym

*1:30 pm* KELLER, Jennifer\* (F), Dance, [jennifer.keller@sru.edu](mailto:jennifer.keller@sru.edu), MARTIN, Nina, Marfa, TX 79843,  
40 SRU Dance Majors and Minors (U): **The Spontaneous Act of Choreography.**

*2:20 pm* CASEY, Meagan (U), CASEY, Meredyth (U), GEORGE, Leanne (U), HARVEY, Krista (U),  
KINKER, Lauren (U), MADSEN, Tara (U), MAZZULLI, Kristin (U), MCHENRY, Jennifer (U),  
NOLEN, Nola\* (F), [nola.nolen@sru.edu](mailto:nola.nolen@sru.edu), Dance, O'BRIEN, Amanda (U), PEIFFER, Angela (U),  
ROE, Jennifer (U): **Three Dance Works: Student-Faculty Collaborative Research and  
Faculty Research.**

## FRIDAY, APRIL 12, 2002

### SESSION NO. 5

#### POSTERS

9:30 – 11:20 pm

Graduate School of Physical Therapy Building, Room 132

- 9:30 am HOPWOOD, Amanda A.\* (U), [mandarin80@hotmail.com](mailto:mandarin80@hotmail.com), FORREST, Kimberly Y-Z. (F), STUHLBREHER, Wendy L. (F), Allied Health, RYAN, William J. (F), Exercise and Rehabilitative Sciences: **Examining the Prevalence of Drug Use Among College Students.**
- 9:30 am CUTTINO, Brooke\* (G), [brookecuttino@hotmail.com](mailto:brookecuttino@hotmail.com), ELDER, Timothy (G), LAUZON, Jennifer (G), LEFEVRE, Christina (G), WELTON, Spencer (G), BORSARI, Bruno (F), Parks and Recreation/Environmental Education: **Earthworms (*Lumbricus spp.*) as Indicators of Soil Quality: A Comparative Study Between a Forest Habitat and a Cultivated Field.**
- 10:30 am SHAEVITZ, Ben Alan\* (F), [ben.shaevitz@sru.edu](mailto:ben.shaevitz@sru.edu), Chemistry and Physics: **Teaching Science Using Research-Based Pedagogy in a Conceptual Physics Course for Pre-Service Elementary Education Majors – Early Results from the Assessment Program.**
- 10:30 am COLE, CHRISTOPHER S.\* (U), [csc2676@sru.edu](mailto:csc2676@sru.edu), SHUMWAY, Jon (F), Art: **Hunting for Perfection.**

### SESSION NO. 6

#### ORAL PRESENTATIONS

8:30 – 11:30 am

Graduate School of Physical Therapy Building, Room 130

- 8:30 am BAIRD, Patricia (G), BATEMAN, Laura (S), BAXTER, Cheryl (G), BEATTY, Linda (S), BUCK, Diane\* (G), [littled24@alltell.net](mailto:littled24@alltell.net), COLEMAN, Jocelyn (G), JOHNSON, Patsy Ann (F), Secondary Education, KELLINGER, Kathleen (F), PENROSE, Joyce (F), Nursing, STAROSTA, Linda (G), WALTON, Victoria (G): **Studying the Prevalence of Chlamydia Trachomatis Among Undergraduate Students at Slippery Rock University.**
- 9:05 am MAJCHER, Megan\* (U), [meejy@yahoo.com](mailto:meejy@yahoo.com), WEINSCHENK, Sarah (U), BIRCKBICHLER, Paul J. (F), Chemistry and Physics, GUBERSKI, Dennis L, Biomedical Research Models, Inc., Worcester, MA 01606: **Studies on a New Animal Model for Type 2 Diabetes.**
- 9:25 am FOX, Susan\* (U), [smf7391@sru.edu](mailto:smf7391@sru.edu), WEINSCHENK, Sarah (U), BIRCKBICHLER, Paul J. (F), Chemistry and Physics: **Response of Human Erythrocyte Cells to Retinoic Acid Analogues.**
- 9:45 am FORREST, Kimberly Y-Z.\* (F), [kimberly.forrest@sru.edu](mailto:kimberly.forrest@sru.edu), LEEDS, Marcy (F), WILLIAMS, Adelle (F), Allied Health: **High Depression Rate in Native American Children.**

(F) Faculty, (G) Graduate Student, (U) Undergraduate, (S) Staff

\* Denotes speaker

## FRIDAY, APRIL 12, 2002

10:05 am NIXON, Shawna\* (U), [shawna2405@zoominternet.net](mailto:shawna2405@zoominternet.net), RYAN, William J. (F), Exercise and Rehabilitative Sciences, STUHLREHER, Wendy L. (F), FORREST, Kimberly, Y-Z., Allied Health: **Factors Related to Distorted Body Image in College Women.**

10:25 am KELLY, Priscilla\*(F), [priscilla.kelly@sru.edu](mailto:priscilla.kelly@sru.edu), English, DILLON, Cynthia (G), MULLER, Jacquelyn (G): **Researching Our Roots: Writing Our Stories- Writing in the Fourth Genre.**

11:00 am FOSTER, Ellen A.\* (F), [ellen.foster@sru.edu](mailto:ellen.foster@sru.edu), English: **Catharine Maria Sedgwick's 'Patient Investigation' of America's Past.**

### SESSION NO. 7

#### POSTERS

1:30 – 4:20 pm

Graduate School of Physical Therapy Building, Room 132

1:30 pm DAVIDSON, Scott W.\* (U), [icswd@hotmail.com](mailto:icswd@hotmail.com), SMITH, Janet S. (F), Geography, Geology, and The Environment: **Exclusionary Area Criteria Georeferencing for Sechan Limestone Industries Proposed Residual Waste Landfill.**

1:30 pm KOWALCZUK, Ranae (U), SANDER, Kirk\* (U), [kxs9569@sru.edu](mailto:kxs9569@sru.edu), BURKHART, Patrick (F), Geography, Geology, and The Environment: **Characterization of Pseudokarst in Badlands National Park, S.D.**

1:30 pm LAUZON, Jennifer\* (G), [jal1011@sru.edu](mailto:jal1011@sru.edu), REYNOLDS, Thomas J. (S), Parks and Recreation/Environmental Education: **The Design of the "I-CARE" Community Garden in New Castle, PA**

2:30 pm CHESTO, Shawna\* (G), [thepeaceofwildthings@yahoo.com](mailto:thepeaceofwildthings@yahoo.com), GAUGER, Michele (G), ALBAUGH, Rebecca (G), DOHERTY, Steven (F), Parks and Recreation/Environmental Education: **A Plant Community Survey of the Restoration Site at the Robert A. Macoskey Center for Sustainable Systems Education and Research: Past Intentions, Present Condition, and Future Potential.**

2:30 pm GAUGER, Michele\* (G), [gaumich@hotmail.com](mailto:gaumich@hotmail.com), BORSARI, Bruno, (F), Parks and Recreation/Environmental Education, KEFELI, Valentine, Slippery Rock Watershed Coalition, Cranberry, PA 16066: **Soil Capabilities of Decreasing Growth Inhibiting Effects of Coumarins.**

2:30 pm DOHERTY, Steven\* (F), [steven.doherty@sru.edu](mailto:steven.doherty@sru.edu), Parks and Recreation/Environmental Education, GAUGER, Michele (G), LEONE, Anne (G): **Old Fields to Forests: A Study of Plant Community Succession at the Robert A. Macoskey Center for Sustainable Systems Education and Research.**

3:30 pm AHMED, Imran (U), AWAN, Salman (U), KEENAGAHAPITIYA, Gihanth (U), RUPASINGHE, Suneth\* (U), [sxr6174@sru.edu](mailto:sxr6174@sru.edu), ZETTLEMOYER, Jonathan (U), THANGIAH, Sam (F), Computer Science: **B12 Interface Project.**

(F) Faculty, (G) Graduate Student, (U) Undergraduate, (S) Staff

\* Denotes speaker

## FRIDAY, APRIL 12, 2002

3:30 pm CREASY, Brian (U), LOVERDE, Kurt (U), WEBBERKING, Megan\* (U), [mmw3164@sru.edu](mailto:mmw3164@sru.edu), THANGIAH, Sam (F), Computer Science: **Coding the B12 Robot at the Assembly Level.**

### SESSION NO. 8

#### ORAL PRESENTATIONS

1:30 – 4:30 pm

Graduate School of Physical Therapy Building, Room 130

1:30 pm BRANUDEEN, Shafraz\* (U), [mxb6319@sru.edu](mailto:mxb6319@sru.edu), MURTHY, Rachna (U), PATHIRANA, Dilsara (U), TENNAKON, Shalinda (U), THOMAS, Jacob (U), THANGIAH, Sam (F), Computer Science: **Secure Internet Access to Intern Information.**

1:50 pm DENU, Roman\* (U), [rijd0826@sru.edu](mailto:rijd0826@sru.edu), PATEL, Narendra (U), and LIN, Yi (F), Mathematics: **True Distance Fit of Exponential Curves and Tests of Applications.**

2:25 pm YALE, Amanda\* (F), [amanda.yale@sru.edu](mailto:amanda.yale@sru.edu), CASHDOLLAR, Matthew (S), LONGWELL, April (F), Orientation, BRINJAK, Cathy (F), Academic Services: **The Impact of an Integrated Learning Community Cluster and Freshman Seminar on Academic and Social Integration, Academic Performance, and Student Persistence for First Year Students, Special Admits, Students of Color, and Specific Majors.**

3:00 pm BORSARI, Bruno (F), Parks and Recreation/Environmental Education, REYNOLDS, Thomas (S), WELTON, Spencer\* (G), [ssw2122@sru.edu](mailto:ssw2122@sru.edu): **A Renovated System Design for Greywater Treatment at the Robert A. Macoskey Center: Approach and Assessment.**