SUURA

Seattle University Undergraduate Research Association



CELEBRATION OF STUDENT SCHOLARSHIP

May 20, 2011 Seattle University Student Center The Seattle University Undergraduate Research Association is sponsored by the Provost's Office and the Office of Research Services and Sponsored Projects (ORSSP).

Executive Advisor: Susan Jackels, Ph.D.,

Department of Chemistry and Director, Office of Research Services and Sponsored

Projects

Co-Advisors:

Sharon Cumberland, Ph.D., Department of English Kristen Skogerboe, Ph.D., Department of Chemistry

Events for 2012:

All undergraduate students of Seattle University are invited to submit papers, posters, or panels in all disciplines and creative genres to the annual SUURA Celebration of Student Scholarship in May, 2012.

Undergraduate students are also invited to apply for subsidized attendance to the NCUR Conference at Weber State University in Ogden, Utah March 29-31, 2012 sponsored by the National Council of Undergraduate Research.

<u>For further information</u>: please contact the Office of Research Services and Sponsored Projects at <u>orssp@seattleu.edu</u>.

SCHEDULE OF EVENTS

8:30-9:00	Registration & Continental Breakfast, Hearth and Lobby				
9:00-10:00	 Plenary Session, Room 160A (LeRoux Room) Introduction to the Celebration of Student Scholarship: Dr. Susan Jackels, Director of the Office of Research Services and Sponsored Projects Welcome Comments: President Stephen Sundborg, SJ Introduction of Keynote Speaker: Dr. Kristen Skogerboe Honored Keynote Alumna: Kristine Hope, Cornell University 				
	Kristine Hope is a 2004 graduate of Seattle University with a B.S. in Chemistry and a B.A. in Humanities. She hails from Seattle and graduated from Seattle Preparatory High School. During her time at SU she did undergraduate research at the Pacific Northwest Diabetes Research Institute. She is completing her doctoral studies in Immunology at Cornell University, researching hemorrhagic diseases in fish. She will speak about the importance of undergraduate research in her own personal development as a scholar and also give an overview of her research.				
10:00-11:00	Poster Session #1: Hearth and Lobby				
9:00-5:00	Panels and papers presented in 130A, 130B, 160A, 160B				
12:00-2:00	Light Lunch, Hearth and Lobby				
2:00-3:00	Poster Session #2: Hearth and Lobby				

^{*}An asterisk next to a presenter's name indicates a recipient of a 2011 NCUR Scholarship, a grant from the Seattle University Provost's Office to present research at the National Conference of Undergraduate Research which took place at Ithaca College, Ithaca, NY from March 31-April2, 2011.

[#] A pound sign next to a presenter's name indicates a recipient of a 2011 M.J. Murdock Charitable Trust Summer Research Grant for laboratory research in the natural sciences.

Panel Presentations

10:00-11:00 Issues in Contemporary Social Work Practice I

130A Mentor: Dr. Madeline Lovell

Kristine Joy Culala: "Case Studies on Self-Efficacy in Children with

Histories of Abuse and Neglect."

Sauntia Griffin: "Social Class, Child Abuse and Probation."

Amelia Kent: "Coordinating Mental Health Services in Seattle."

Kathleen Walter: "Post Traumatic Stress Disorder (PTSD): Finding a Developmentally Appropriate Diagnosis and Treatment for Children and

Youth."

Christina Tufford: "Defining Barriers in a Supported Employment

Program."

11:00-12:00 Sociology and Social Work Honors Presentation

130A Mentor: Dr. Madeline Lovell

Andrea Biggs: "Harm Reduction Treatment: Staff Opinions on Working

with Homeless Adults."

Jenna Emerson: "The Social Construction of Virginity and its

Implications for Low-Income African American Girls."

Clare Obradovich: "An Examination of the Narrative of Diversity at

Seattle University."

@ldo Ulisses Rexéndiz: "The Making of a Hñähñu-MeXican@ (Mexican-

Xican@) Im/migrant Student-Activist: Exported, Repackaged, and

Transnationally Active."

12:00-1:00 Issues in Contemporary Social Work Practice II

130A Mentor: Dr. Madeline Lovell

Cindy Torres: "Training CASA Volunteers."

Suzanne Wagner: "Case Study of Social Work Intervention with Geriatric

Post Surgical Patient."

Alysson Riutta: "Survey of Depression Treatment and Outcome with

Latinos."

10:00-11:00 English Department Honors Presentation I

130B Mehron Abdollmohammadi: "There's a new game we like to play, you

see:' A Literary Response to Interactive Ludic Fiction."

Mentor: Dr. Kate Koppelman

Kathryn Freeman: "Of lothynesse inowghe she had:' The Effect of the

Distorted Female Body on Patriarchal Constructions of Sex and Gender in

Two late Medieval Romances."

Mentor: Dr. María Bullón-Fernández

Adam Benjamin: "More Than Mere Mystery: Detective Fiction's

Discourse." Mentor: Dr. Kate Koppelman

English Department Honors Presentation II			
Nelsy Gutierrez: "Skies of Purple and Gold': A Mythological			
Understanding of El Salvador: Fiction/Creative Writing."			
Mentor: Dr. Christina Roberts			
Jennifer Williams: "Feet First': Science Fiction/Creative Writing."			
Mentor: Dr. David Leigh, S.J.			
Brandon Bye: "'A 10VE Story': Fiction/Creative Writing."			
Mentor: Dr. Sharon Cumberland			

Individual Paper Presentations

In 130A	Psychology, Social Issues, History, and Creative Writing			
9:00	Allison Prather: "Implicit Cognition, Cognitive and Social Psychology."			
	Mentor: Dr. Kathleen Cook.			
9:20	Elizabeth Holleman and Cayce Cheairs: "Power and Helpfulness: A			
	Gender Interaction." Mentor: Dr. Kathleen Cook			
9:40	*Tessa Koutsky and *Allison Schimmel-Bristow: "Is there a difference			
	in psychological maturity between college students and collegiate			
	student-athletes?" Mentor: Dr. Kathleen Cook			
10:00-1:00	Sessions in Contemporary Social Work			
1:00	Olivia Gibbons: "I Fought the Law (and Then Ran Away): The Social			
	Politics of Sanctuary in Thirteenth Century London."			
	Mentor: Dr. Thomas Cramer			
1:20	Brittany Cohen: "Seattle Playgrounds: Access, Equity, and Safety."			
	Mentor: Dr. Trileigh Tucker			
1:40	Nicholas Marianetti: "LSD: Why the U.S. National Institutes of Health			
	Should Help Fund Its Renewed Medical Research."			
	Mentor: Dr. June Johnson Bube			
2:00	Justin Najar: Excerpt from the novella Heath's End.			
	Mentor: Dr. Sharon Cumberland			
2:20	Sarah Elgatian: Short story: "BRAA."			
	Mentor: Dr. Sharon Cumberland			
2:40	Kaily Serralta: Selections from a Poetry Collection: Strain			
	Mentor: Dr. Sharon Cumberland			
3:00	Bradley Jackson: "Divorcing the Spiritual from the Temporal: Luther's			
	Address to the Christian Nobility of the German Estate."			
	Mentor: Dr. William Kangas			
3:20	Danielle Pappo: Poems: "Girls and Boys," "Colloidal Silver," and			
	"Memorial Services." Mentor: Dr. Sharon Cumberland			

Individual Papers (continued)

In 130B	English, Philosophy, History, and Psychology
10:00	English Honors Panel I
11:00	Mathew Simonton: "An Application and Examination of Reader/User
	Autonomy in the New Media"
	Mentor: Dr. Sharon Cumberland
11:20	Nick Hendricks: "Exploring the Hermeneutic Circle in Gadamer's <i>Truth and Method</i> and Plato's <i>Republic</i> ."
	Mentor: Dr. Paul Kidder
11:40	Amy Kangas: "From the Screen to Real Life: The Effects of Social
	Networking Sites on Relationships and Communication."
	Mentor: Dr. Jennifer Schulz
12:00	English Honors Panel II
1:00	Heather Martin-Murdoch: "Art for Politics' Sake: Of Christian and
	Muslim Art in Medieval Spain."
	Mentor: Dr. Theresa Earenfight
1:20	Arica Jeffrey: "Angels: Slaves or Subjects?"
	Mentor: Dr. Erica Martin
1:40	Mae Saul: "Representations of Family in Postmodern American Fiction: Don DeLillo's White Noise and Thomas Pynchon's <i>The Crying of Lot 49.</i> " Mentor: Dr. Charles Tung
2:00	Jennifer Bray: "Lucy Snowe's Book of Life: The Task of Mutual
2.00	Recognition Between Narrator and Reader in Charlote Brontë's <i>Villette.</i> "
	Mentor: Dr. Bryn Gribben
2:20	*Annie Rose Favreau: "Mother, Sister, Witch, and Widow: A Critique of
0	Modernity in <i>Midnight's Children.</i> "
	Mentor: Dr. Nalini Iyer
2:40	Hajer Al-Faham: "Rethinking the Islamic State: A Theory of Islamic
2.10	Liberalism." Mentor: Dr. Erik Olsen
3:00	*Annie Kucklick: "Foucault: A Foundation for Radical Feminist
3.00	Thought?" Mentor: Dr. Erik Olsen
3:20	*Kathryn Freeman: "The Queen's Jolly Wenches: The Ambiguous Threat
5.20	of Chaucer's Pardoner."
	Mentor: Dr. María Bullón-Fernández
	Mentor. Dr. Maria Dunon-remanuez

In 160A	Social Science and Cultural Issues
10:00	Robert Lyons: "The Effect of Religious Primes on Private and Social
	Honesty." Mentor: Dr. Kathleen Cook
10:20	Douglas Rudeen: "Implicit Theories of Personality and the Relationship
	Between Implicit Prejudice and Implicit Stereotyping."
	Mentor: Dr. Kathleen Cook

11:40	*Zachary Gerdes: "Cross-cultural Perspectives of Lived Experience: The
	Implications of Government University Funding on Emerging Adults in
	Northern Europe." Mentor: Dr. George Sayre
12:00	Zachary Gerdes and Javier Rizo: "The Relationship Between Gender
	and Academic Major on Gender Role Conflict: Two Unexamined Variables
	Using the Gender Role Conflict Scale." Mentor: Dr. Katherine Raichle
12:20	Jourdan McGinn: "AIDS, Religion, and Modernity: Neo-Pentecostal and
	Muslim Conceptions in Tanzania"
	Mentor: Dr. Rick Malleus
12:40	*Annelie Day: "The Sexualization of Preteen and Teen Girls in American
	Culture." Mentor: Dr. Harriet Phinney
1:00	Kyla McGroarty: "Birth and Women's Agency: How the Perceptions of
	Birth Practitioners in the United States Affects the Scope and Value of
	Women's Autonomy." Mentor: Dr. Harriet Phinney
1:20	Aric Lane: "Sex Reassignment Surgery and the Control of Sexual
	Minorities in the Islamic Republic of Iran."
	Mentor: Dr. Connie Anthony
1:40	Shannon Dick: "The Future of Tradition: An Ethnographic and
	Comparative Study on Social Preference and Medicine in Rural Ghana."
	Mentor: Harriet Phinney
2:00	Catherine Wilcox: "The Cross-Cultural Experiences of Saudi Women
2.00	Giving Birth." Mentor: Dr. Harriet Phinney
	Giving Direit. Methor. Dr. Harriet i filling

In 160B	Sciences
10:00	Kyle Zielinski: "ARES: Architecture Reliability Estimation System."
	Mentor: Dr. Roshanak Roshandel
10:20	#Hannah Rose Franklin: "Metagenomic Analysis of Microbial
	Communities in Yellowstone National Park: Application for Bio-ISRU."
	Mentor: Dr. Kristen Skogerboe
10:40	Kristina Ieronimakis: "Synergy of Compounds in Aqueous Plant
	Extractions has Inhibitory Effects Against Staphylococcus aureus."
	Mentor: Dr. Jennifer Sorensen
11:00	Kamala Squires: "Development of Solid Phase Micro Extraction Gas
	Chromatography (SPME-GC) Methods: Analysis of Urine for Biomarker
	Screening in Human Disease."
	Mentor: Dr. Kristen Skogerboe
11:20	Dmytro Rudoy: "An Understanding of the Calcium Phosphate Role in
	Renal Stone Development."
	Mentor: Dr. David Thorsell
11:40	#Michael Tarlton: "The Synthesis and Reactivity of Novel Triple-layer
	Complexes: Models for Molecular Electronics."
	Mentor: Dr. Eric Watson
12:15	*Karen White: "The Galanin Receptor Subtype 2 Agonist NAX 306-1
	Displays Analgesic Activity Following Systemic Administration to Mice."
	Mentor: Dr. Vicky Minderhout

Individual Papers (continued)

In 160B	Sciences (continued)
12:35	Alex Kutyavin: "Synthesis of Novel Fluorescent Uridine Analog for
	Potential Applications in Biotechnology."
	Mentor: Dr. Kristen Skogerboe
12:55	Tracie Lawton: "Algae Sourced Biodiesel as a Sustainable Energy
	Source for the Future."
	Mentor: Dr. Susan Jackels
1:30	#David Andrews: "Investigation of Metabolite Binding in the preQ ₁
	Riboswitch."
	Mentor: Dr. Ian Suydam
1:50	Ngoc Doan: "Characterization of Hotspot Motif Matches in Exons of
	Autism-Associated Genes in the X-Chromosome."
	Mentors: Dr. Jennifer Sorensen and Dr. Theresa Deisher
2:10	#Kathryn Dahl A. Bacarro: "Aroma Profiles of Roasted Coffea Robusta
	and Coffea Arabica Analyzed by Principle Component Analysis and GC-
	MS." Mentor: Dr. Susan Jackels
2:30	Zephan Melville: "The Role of Trehalose in Quiescence."
	Mentors: Dr. Jennifer Loertscher and Dr. Linda Breeden
2:50	#John Berude: "Dirty Duwamish: Developing a Method for Investigating
	Concentrations of Pyrethroid Pesticides Across Multiple Estuarine Sites."
0.40	Mentor: Dr. Douglas Latch
3:10	Melissa Prowant: "Vitamin D: Effects on Bone Health and Breast Cancer
0.00	Risks." Mentor: Dr. Kristen Skogerboe
3:30	Lindsay Stetson: "Reliability Analysis for Software Product Lines."
2.50	Mentor: Dr. Roshanak Roshandel
3:50	Mac Clay: "Anomeric Effect in Glycosylated Oxyamines."
4.40	Mentors: Dr. Joseph Langenhan; Dr. Ryan McLaughlin; Dr. PJ Alaimo
4:10	James Rohlfing: "Total Synthesis of Amphimedosides A-C."
	Mentor: Dr. Joseph Langenhan

Poster Presentations

In Hearth and Lobby

10:00-11:00 Tyler Doyle, Graham Miller, Gulsana Saryyeva, Lauren Kokojejchick-

Kotch, Kelsey Henan: "Reclaiming Environmental Health Through

Legislation: Revenue Neutral Carbon Taxing."

Mentor: Dr. Gareth Green

Laudan Espinoza, Lauren Kolojejchick-Kotch, Jack McKool, Steve

Stetter: "Localization: A Model for Sustainable Urbanism."

Mentor: Dr. Marie Wong

Claire Giordano: "Henry David Thoreau's Philosophy of Living

Deliberately as Introduced in Walden."

Mentor: Dr. James Risser

*Keelan Hooper: "Making Your Own Luck: 1920's Cuban Politics and the

Corruption in the National Lottery."

Mentor: Dr. Marc McLeod

*Elizabeth Kendall: "The Effect of Heat-Based Marine Algae Substrate

Pretreatments on Digester Sludge Bacteria Biogas Production."

Mentor: Dr. Michael Marsolek

Alyssa Landry: "Implicit Effects of Scent on Honesty."

Mentor: Dr. Kathleen Cook

*Joseph McIntosh: "Using Smart Grid Technology to Promote Energy

Efficiency and Conservation in Student Housing."

Mentor: Dr. Henry Louie

Melissa Symon: "Fluorescence Based Binding Assay for the preQ1

Riboswitch." Mentor: Dr. Ian Suydam

#Bernice Terrell Martinez: "Archean Earth Atmosphere Fractal Haze

Aggregates: Light Scattering Calculations and the Faint Young Sun

Paradox." Mentor: Dr. David Boness

#Michael Van Nuland: "Investigation of Forest Floor Litter Invertebrates

Along an Urbanization Gradient."

Mentor: Dr. Lindsay Whitlow

*#Halina Werner, Anja Tjaden, Leo Rozal: "Total Synthesis of the

Amphimedosides." Mentor: Dr. Joseph Langenhan

Lindsey Youngquist: "Back to the Future: Effects of Runoff, Raid©. and

Restoration of the Duwamish River."

Dr. Lindsay Whitlow

Poster Presentations (continued)

In Hearth and Lobby

2:00-3:00

Michelle Anderson, Brooke Holoubek, Elizabeth Eshelman, Kara

Kuttler: "Inter-Participant Variability in Response to Exercised-Induced Stimulation of the Hypothalamic-Pituitary-Adrenal Axis: A Precursor to Glucocorticoid-Mediated Pharmacogenetics."

Mentor: Dr. Patrick Murphy

#Hannah Rose Franklin: "Effects of Ischemia-Reperfusion Injury on GR•Hsp90 Heterocomplex Function" Mentor: Dr. Patrick Murphy

John Goertz: "Visualization of Recombinant DNA and Protein Complexes

Using Atomic Force Microscopy." Mentor: Dr. Patrick Murphy *Jeremiah Grams: "Creation of a Deletion Panel Spanning the C-Terminus of Foamy Virus Polymerase Protein by a Modified Overlap Extension PCR Strategy." Mentor: Dr. Carolyn Stenbak

#Andrew Hankins: "Photometric Analysis of UMAII/WLM Dwarf Galaxies." Mentor: Dr. Joanne Hughes Clark

* Jessica Silbaugh-Cowdin, Lauren Weber: "CBT Plus: A Cost-Effective and Evidence-Based Practice Implementation for Community Mental Health Agencies." Mentor: Dr. Randall Horton

Orrin Stone, Kelly Biette: "Automated Hydrophobic Interaction Chromatography Column Selection for Use in Protein Purification."

Mentor: Dr. Patrick Murphy

Nicole Suleiman, Stefanie Schmuck: "Keeping Time: Does the Biological Clock Control Corticosterone Secretion Through the Sympathetic Nervous System?" Mentor: Dr. Cheryl Wotus

Mentors

Alaimo, Peter Chemistry
Anthony, Connie Political Science

Boness, David Physics

Breeden, Linda Fred Hutchinson Cancer Center

Bullón-Fernández, María English Cook, Kathleen Psychology

Cumberland, Sharon English/Creative Writing

Cramer, Thomas History

Deisher, Theresa AVM Biotechnology

Earenfight, Theresa
Green, Gareth
Gribben,Bryn
Horton, Randall
Hughes Clark, Joanne
Iyer, Nalini
Jackels, Susan
History
Economics
Fenglish
Psychology
Physics
English
Chemistry

Mentors (continued)

Johnson Bube, June English Kangas, William History Kidder, Paul Philosophy Koppelman, Kate English Langenhan, Joseph Chemistry Latch, Douglas Chemistry Leigh, S.J., David English Loertscher, Jenny Chemistry

Louie, Henry Electrical and Computer Engineering

Lovell, Madeline Sociology

Marsolek, Michael Civil and Environmental Engineering
Martin, Erica School of Theology and Ministry
Malleus, Rick Communication/Journalism

McLaughlin, Ryan Chemistry
McLeod, Marc History
Murphy, Patrick Nursing
Minderhout, Vicky Chemistry

Olsen, Erik Political Science

Paul, Christopher Communication/Journalism Phinney, Harriet Cultural Anthropology

Raichle, Katherine Psychology Risser, James Honors Program

Roberts, Christina English

Roshandel, Roshanak Computer Science and Software Engineering

Sayre, George Psychology Schulz, Jennifer Psychology Skogerboe, Kristen Chemistry

Sorensen, Jennifer Chemistry & General Science

Stenbak, Caroline Biology
Suydam, Ian Chemistry
Thorsell, David Chemistry

Tucker, Trileigh Environmental Studies

Tung, Charles English
Watson, Eric Chemistry
Whitlow, Lindsay Biology

Wong, Marie Institute of Public Service

Wotus, Cheryl Biology

Abdollmohammadi, M.	10:00/130B	Landry, Alyssa	PS#2
Al-Faham, Hajer	2:40/130B	Lane, Aric	1:20/160A
Anderson, Michelle	PS#2	Lawton, Tracie	12:55/160B
Andrews, David	1:30	Lyons, Robert	10:00/160A
Bacarro, Kathryn D. A.	2:10/160B	Marianetti, Nicholas	1:40/130A
Biette, Kelly	PS#2	Martin-Murdoch, H.	1:00/130R 1:00/130B
		•	
Biggs, Andrea	11:00/130A	McGinn, Jourdan	12:20/160A
Benjamin, Adam	10:00/130B	McGroarty, Kyla	1:00/160A
Bray, Jennifer	2:00/130B	McIntosh, Joseph	PS#1
Bye, Brandon	12:00/130B	McKool, Jack	PS#1
Cheairs, Cayce	9:20/130A	Melville, Zephan	2:30/160B
Clay, Mac	3:50/160B	Miller, Graham	PS#1
Cohen, Brittany	1:20/130A	Najar, Justin	2:00/130A
Culala, Kristine Joy	10:00/130A	Obradovich, Clare	11:00/130A
Day, Annelie	12:40	Pappo, Danielle	3:20/130A
Dick, Shannon	1:40/160A	Prather, Allison	9:00/130A
Doan, Ngoc	1:50/160B	Prowant, Melissa	3:10/160B
Doyle, Tyler	PS#1	Riutta, Alysson	12:00/130A
Elgatian, Sarah	2:20/130A	Rexéndiz, @ldo Ulisses	11:00/130A
Emerson, Jenna	11:00/130A	Rizo, Javier	12:00/160A
	•	Rohlfing, James	
Eshelman, Elizabeth	PS#2	G. 7	4:10/160B
Espinoza, Laudan	PS#1	Rozal, Leo	PS#1
Favreau, Annie Rose	2:20/130B	Rudeen, Douglas	10:20/160A
Franklin, Hannah Rose	PS#2	Rudoy, Dmytro	11:20/160B
	10:20/160B	Saryyeva, Gulsana	PS#1
Freeman, Kathryn	10:00/130B	Saul, Mae	1:40/130B
and	d 3:20/130B	Schmuck, Stefanie	PS#2
Gerdes, Zachary	11:40/160A	Schimmel-Bristow, A.	9:40/130A
	d 12:00/160A	Serralta, Kaily	2:40/130A
Gibbons, Olivia	1:00/130A	Silbaugh-Cowdin, J.	PS#2
Giordano, Claire	PS#1	Squires, Kamala	11:00/160B
Goertz, John	PS#2	Simonton, Mathew	11:00/130B
Grams, Jeremiah	PS#1	Stetson, Lindsay	3:30/160B
Griffin, Sauntia	10:00/130A	Stetter, Steve	PS#1
Gutierrez, Nelsy	12:00/130B	Stone, Orrin	PS#2
Hankins, Andrew	PS#2	Suleiman, Nicole	PS#2
Henan, Kelsey	PS#1	Symon, Melissa	PS#1
Hendricks, Nick	11:20/130B	Tarlton, Michael	11:40/160B
Holleman, Elizabeth	9:20/130A	Terrell Martinez, B.	PS#1
Holoubek, Brooke	PS#2	Tjaden, Anja	PS#1
Hooper, Keelan	PS#1	Tufford, Christina	10:00/130A
Ieronimakis, Kristina	10:40/160B	Torres, Cindy	12:00/130A
Jackson, Bradley	3:00/130A	Van Nuland , Michael	PS#1
Jeffrey, Arica	1:20/130B	Wagner, Suzanne	12:00/130A
Kent, Amelia	10:00/130A	Walter, Kathleen	10:00/130A
Koutsky, Tessa	9:40/130A	Weber, Lauren	PS#2
Kangas, Amy	11:40/130B	Werner, Halina	PS#1
Kendall, Elizabeth	PS#2	White, Karen	12:15/160B
Kolojejchick-Kotch, L.	PS#1	Wilcox, Catherine	2:00/160A
Kucklick, Annie	3:00/130B	Williams, Jennifer	12:00/130B
Kuttler, Kara	PS#2	Youngquist, Lindsey	PS#1
Kutyavin, Alex	12:35	Zielinski, Kyle	10:00/160B