SUURA

Seattle University Undergraduate Research Association

CELEBRATION
OF
STUDENT SCHOLARSHIP

May 18, 2012
Seattle University Student Center

The Seattle University Undergraduate Research Association is sponsored by the Provost's Office of Seattle University and the Office of Research Services and Sponsored Projects (ORSSP).

Executive Advisor: Jacquelyn Miller, Ph.D., Associate Provost
ORSSP Director: Nalini Iyer, Ph.D.
Co-Advisors:
Sharon Cumberland, Ph.D., Department of English
Kristen Skogerboe, Ph.D., Department of Chemistry

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, 2013.

Undergraduate students are also invited to apply for subsidized attendance to the NCUR Conference at University of Wisconsin LaCrosse in April, 2013 sponsored by the National Council of Undergraduate Research.

Please contact the Office of Research Services and Sponsored Projects at orssp@seattleu.edu for further information.

SCHEDULE OF EVENTS

8:30-4:00	Registration & Coffee, Hearth and Lobby
9:00-9:20	Introduction to the Celebration of Student Scholarship, Student Center 160A, • Dr. Nalini Iyer, Director Office of Research Services and Sponsored Projects • Dr. Isaiah Crawford, Provost Seattle University
9:20-5:00	Panels and Individual papers presentations, Student Center Rooms 130A, 130B, 160A, 160B and 210
10:00-11:00	Poster Session #1: Student Center Hearth and Lobby
2:00-3:00	Poster Session #2: Student Center Hearth and Lobby

*An asterisk next to a presenter's name indicates a recipient of a 2013 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 Weber State University, Ogden UT from March 31-April 2, 2012.

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

9:20-10:20	*Living-Learning Community: Just Food?*
130 A	**Brooke Johnston,** Wellness LLC: "Growing Healthy Kids: How School Gardens and Food Education are Vital for our Children's Futures" Mentor: Dr. Hilary Hawley **Katherine Larsen,** Hurtado LLC: "Tyson Chicken at Seattle University" Mentor: Professor Tara Roth **Amber Tran,** Wellness LLC: "Labeling Genetically Modified Foods" Mentor: Dr. Hilary Hawley
9:20-11:00	*The Individual and Society: Honors Projects in Anthropology, Sociology, and Social Work*
130B	Panel Organizer: Dr. Madeline Lovell **Shannon Dick**: "Constructions of Community and Religious Space: Feeding the Hungry and Finding Salvation" Mentor: Dr. Ted Fortier **Maggie McCarten-Gibbs**: "God and the Female Orgasm: An Analysis of the Relationship Women with Catholic Backgrounds Have with Sex" Mentor: Dr. Noreen Elbert **Jim Mezzera:** "Compassionate Fatigue: Self-care in the Field of Probation" Mentor: Professor Riva Zeff **Taylor Sheehan-Farley**: "Discrimination in the Workplace: Transmen Helping to Break the Binary" Mentor: Dr. Jodi O'Brien **Amanda Thomas**: "'Let's Hear it for the Boy': A study of eating disorders and body satisfaction in gay and straight men" Mentor: Dr. Julie Harms Cannon
10:00-11:00	*"'The Straight Line is Ungodly': Transnational Architecture in the Life and Thoughts of Friedensreich Hundertwasser"*
210	Mentor: Dr. Cordula Brown **Laura Mandler**: "Hundertwasser's Battle Against the Conventional" **Bethany Surber**: "The Reunion of Humans and Nature" **Kurt Naro**: "Hundertwasse and the Danger of the 'Organic'" **Miles Klingenberg**: "The Five Skins of Hundertwasser" **Ian Pumo**: "Considering Hundertwasser in Light of the Sustainability Era"
11:00-1:20	*English Department Honors Projects*
210	Panel Organizer: Dr. Charles Tung **Andrew Battaglia**:"Illness as Isolation: Competing Temporalities in Woolf's *Mrs. Dalloway* and Mann's *Der Zauberberg"* Mentor: Dr. Charles Tung **Antonio Ysursa**: "Of Rivers and Trains: Loss, Memory, and Forgetting in Thomas Wolf's *Of Time and the River"* Mentor: Dr. Mary-Antoinette Smith

11:00-1:20	*English Department Honors Projects* Continued
210	**Danielle Bowlden**: "*Persepolis:* Gender, Ethnicity, and Genre" Mentor: Dr. María Bullón-Fernández **Olivia Hernández**: "*La nueva mestiza* in Debora Miranda's *The Zen of La Llorona"* Mentor: Dr. Charles Tung **Amanda Karmelita**: "A Calfskin Briefcase, a Broken Chain Link, and a Sambo Doll: Invisibility as Self-Empowerment in Ellison's *Invisible Man"* Mentor: Dr. John Bean **Kayli Ammen: "**An excerpt from *Unbecoming"* (novel) Mentor: Dr. David Leigh, S.J. **Amanda Wade**: "Seeing By the Setting Sun" (short story) Mentor: Dr. Edwn Weihe

10:20-11:20	*Living-Learning Community: Belief and Politics*
130A	**Daniel Delurio**, Discovery LLC: "An Affair and Allegations, From Questionable to Out of the Question: Herman Cain's Fall to Spiraling Negative News Coverage" Mentor: Dr. Hannah Tracy **Thomas Palu**, Faith and the Great Ideas LLC: "Religion's Role in 20th Century Europe" Mentor: Dr. Heath Spencer **Abigail Dunlay**, Discovery LLC: "Sexist and Negative Frames in the Coverage of Michele Bachhman" Mentor: Dr. Hannah Tracy

11:00-12:20	*Effecting Change: Honors Projects in Social Work*
130B	Panel Organizer: Dr. Madeline Lovell **Erin Baltrusis**: "Organizational Structure in Residential Treatment Centers: The Impact on the Behavioral and Emotional Outcomes of Children" Mentor: Dr. Julie Harms Cannon **Caitlin Donovan**: "The Relationship Between MSW School Based Mental Health Providers and the Public School System" Mentor: Professor Mary Kay Brennan **Mary Lubey**: "Multiple-Deployment and PTSD: Consequences of the Conflicts in Iraq and Afghanistan" Mentor: Dr. Julie Harms Cannon **Kevyn O'Neill**: "A Program Evaluation of the House of Healing: Are Former Residents Truly Recovering?" Dr. Madeline Lovell **Michelle Roach:** "Mental Health Court: Factors that Determine Effectiveness" Mentor: Dr. Jason Capps

11:20-12:20	*Living-Learning Community: Facing Obstacles to Community Wellness*
130A	**Kimberly Ito**, Hurtado LLC: When Healthcare is Unattainable on Pill Hill" Mentor: Professor Tara Roth **Louise Gappa**, Xavier Global House LLC: "Phthalates in Cosmetics: The Ugly Truth" Mentor: Dr. Wes Howard-Brook **Laura Durand**, Wellness LLC: "Sexual Education: Helping or Harming?" Mentor: Dr. Hilary Hawley

Individual Paper Presentations

In 130A

12:40	**Sarah Brady***: "Venezuela's Occupied Industries: Building People Power Through Worker Control in the Contemporary Socialist Movement" Mentor: Dr. Marc McLeod
1:00	**Danielle Guyer**: "Globalization as the Constructor of Co-Workers and Education as the Maker of Neighbors: The Immigration and Integration of Turks in Germany" Mentors: Dr. Enyu Zhang and Dr. Carmen Gitre
1:20	**Roberto Errico, Ashley Ewing, Javier Rizo**: "Celtic Identity in a Modern World" Mentor: Dr. Hazel Hahn
1:40	**Jordan Eisen**: "The Opium War: The Invention of a British Public" Mentor: Dr. Hazel Hahn
2:00	**Javier Rizo:** "Nationalism and Imperialism in the British Empire" Mentor: Dr. Hazel Hahn
2:20	**Elizabeth Higgins***: "Women's Varying Involvement in the Cuban Revolution Based Upon Socioeconomic Status, 1953-1980" Mentor:
2:40	**Anna Long***: "Proof of Truth in Medieval Irish Law" Mentor: Dr. Theresa Earenfight
3:00	**Jonathan Shales*:** "A Cultural Historical Examination of John Locke's Economic Philosophy and Individualism" Mentor: Dr. William Kangas
3:20	**Jessica Richter***: "The Royal Fast: The Relationship Between St. Mary Magdalene, St. Louis, and Holy Anorexia" Mentor: Dr. Theresa Earenfight
3:40	**Lucy Spicer *: "**Uncovering the Truth: Themes of Exposure in Performances of Jean Renart's Guillaume De Dole" Mentor: Dr. Theresa Earenfight

In 130B

12:40	**Michelle Miller**: "Ego Development Levels and Attitudes Toward Help in Youth Offenders" Mentor: De. Le Xuan Hy
1:00	**Matthew J.L. Brand**: "Gemeinschaftsgefühl: The Significance of Adler's Timeless Theory For The Modern Age" Mentor: Dr. Kathleen La Voy
1:20	**Amy Kangas**: "Perceived College Adjustment and Ego Development" Mentor: Dr. Le Xuan Hy
1:40	**Christopher Olsen**: "The Influence of Socioeconomic Factors on Environmental Education in Seattle Public Schools" Mentor: Dr. Trilieigh Tucker
2:00	**Molly Virgin and Samantha Hamar***: "Stress and Unhealthy Eating in a College Sample" Mentor: Dr. Kathleen Cook
2:20	**Katrina Goodjoint***: "Judicial Recognition of Colorism: How Can U.S. Courts Acknowledge Intra-Group Employment Discrimination?" Mentor: Dr. Angelique Davis
2:40	**Christopher Gethings***: "Honesty Differences at Seattle College Campuses" Mentor: Dr. Kathleen Cook
3:40	**Aaron Klingensmith, Kia Braha, Everett Sullivan**: Knot Theory and Game Playing" Mentor: Dr. Allison Henrich

In 160A

10:00	**Trevor Brown and Laura Wert**: "Gender Differences in Adolescent Ego Development" Mentor: Dr. Le Xuan Hy
10:40	**Emily Chambers and Maria Hanelin**: "The Role of Mental Health and Physical Wellness Practices on Stress Levels in College Students" Mentor: Dr. Katherine Raichle
11:00	**Isabella Esposito and Derrick McLean**: "The Effect of Meditation on Gratitude" Mentor: Dr. Le Xuan Hy
11:40	**Natalie Bold *: "**Making the Grade: A Cross-National Examination of Educational Outcomes" Mentor: Dr. Brian Kelly
12:00	**Georgiana Robinson and Michelle Eastman**: "*Fragments Literary Magazine* Discussion and Open Mic" Mentor: Dr. Sharon Cumberland
12:20	**Megan Garay and Katherine Campbell**: "The Effect of Winter Climate on College Students" Mentor: Dr. Katherine Raichle

In 160B

9:20	**Orrin Stone*#:** "Development of a hydrophobic interaction Chromatography Media Selection Protocol and Sequential Chromatographic Protein Purification." Mentor: Dr. Patrick Murphy
9:40	**Peter McDonnell:** " Vibrational Analysis of 3-Hydroxybutl-2-Nitrate and Butyl-2,3-Dinitrate" Mentor: Dr. Ryan McLaughlin
10:00	**Suchina Parmar*#: "**Metabolomics: Searching for Biomarkers of Human Disease in Urine using Multi-Dimensional GC_MS Methods Based on pH Modulated SPME Extraction**"** Mentor: Dr. Kristen Skogerboe
10:40	**Tin Bui:** "Detection of Glutamate Decarboxylase- and Islet Cell-Antibodies Using LIPS for Type 1 Diabetes Prediction and Confirmation" Mentor: Dr. Vicky Minderhout
11:00	**Halina Werner:** "Total Synthesis of the Amphimedosides" Mentor: Dr. Joseph Langenhan
11:20	**Sonam Ghag*#:** "The Synthesis and Reactivity of Novel Triple-Layer Bimetallic Complexes" Mentor: Dr. Eric Watson S.J.
11:40	**Adrian Henle:** "Synthesis of Iron and Ruthenium Bimetallic Triple-layer Complexes" Mentor: Dr. Eric Watson, S.J.
12:00	**Casey Johnson***: "Inequalities for Potential Operators on Differential Forms" Mentor: Dr. Shusen Ding
12:20	**Olivia Buonarati**: "Use of Heat Shock Proteins in Chinook Salmon Populations as a Proposed Approach to Biological Monitoring Pacific Marine Environments" Mentor: Dr. Patrick Murphy
12:40	**Jonathan Robertson**: "Andrew's Bay as a Nursery for Juvenile Salmon" Mentor: Dr. Annie Morton
1:00	**Justin Willis**: "Micro RNA-9 and the Development of the Central Nervous System in Mice" Mentor: Dr. Jennifer Sorensen
1:20	**Danielle Ashworth:** "Cold adaptation and sphingolipid biosynthesis in *Saccharomyces cerevisiae*." Mentor: Dr. Jenny Loertscher

1:40 **Matthew McClement:** ""The Role of Orm 1 and Orm 2 proteins in sphingolipid biosnthesis and regulation in Saccharomyces cerevisiae when adapting to cold environments." Mentor: Dr. Jenny Loertscher

2:00 **Adam Neal**: "Clocked Senseless: Does the Biological Clock Control Adrenal Sensitivity to Andrenocorticotropic Hormone?" Mentor: Dr. Cheryl Wotus

2:20 **Jacob Felcyn:** "Aquatic Photochemistry of Phytoestrogens." Mentor: Dr. Doug Latch

2:40 **Jasmine Davis#:** " Studies on the photodegradation pathways and kinetics of phytoestrogens" Mentor: Dr. Doug Latch

3:00 **Phuc Pham:** "Comparison of Instrumentation to Measure Stem Cell Count following physical method of Isolation." Mentor: Dr. Kristen Skogerboe

3:20 **Thanh-Hoa Nguyen#: "**Photochemical induces changes of *in vitro* estrogenic activity of steroid hormones" Mentor: Dr. Douglas Latch

In 210

1:20 **Susie Chinisci**: "*Pushing"* (Non-fiction) Mentor: Dr. William Taylor

1:40 **Charles Dickson***: "Phenomenology and Robotics: Making the Phenomenological Case for Embodiment in Robotics" Mentor: Dr. Wai Shun Hung

2:00 **Kathryn Gores**: Dziga Vertov's *Man With a Movie Camera:* Perfecting the Human-Machine Cyborg" Mentor: Dr. Naomi Hume

2:20 **Tori Head**: "Images of the New Woman in Weimar Germany: Understanding the Myth through Celebratory, Faulty, Adaptive, and Critical Lenses of the Times" Mentor: Dr. Naomi Hume

2:40 **Claire Giordano*:** "Soul's Search: An Analysis of Spiritual Development in the Anglo Saxon Poems 'The Wanderer' and 'The Seafarer'" Mentor: Dr. Alison Walker

3:00 **Frances Dinger***: "Defining the Value of Small Press in an Uncertain Publishing Climate" Mentor: Dr. Sharon Cumberland

3:20 **Daniel Peters** *: "The Danger of Living One Day: The Ambiguity of Identity and Queer Theory Within *Mrs. Dalloway"*

3:40 **Claire Giordano***: "You Are what You Wear: The Significance of Fashion, Textiles, and Personal Luxury Items During the Renaissance" Mentor: Dr. Theresa Earenfight

4:00 **Katherine Campbell:** "Reconfiguration, Psychoanalysis, and the Role of the Spectator: The Gender Dialogue of Hans Bellmer's Dolls" Mentor: Dr. Naomi Hume

Poster Presentations

In Hearth and Lobby

10:00-11:00 **Feras Aldahlawi#:** "The effect of fractal aerosol and haze on past, present, and future climate: computationally generating realistic aerosol clusters." Mentor: Dr. David Boness
John Berude*: "Dirty Duwamish: Developing Methods for Investigating Concentrations of Pyrethroid Pesticides in the Duwamish River Ecosystem" Mentor: Dr. Doug Latch
Laurel Howard: "A Theoretical Study of the Electronic Basis for Organometallic Molecular Wires" Mentor: Dr. Charity Lovitt
Carolyn Huynh*: Critical Creek Health Assessment in the Duwamish River Urban Watershed" Mentor: Dr. Lindsay Whitlow
Sarah McHugh*: "The Effect of Land Use Conversion o Soil Nutrients in the Ecuadorian Andes" Mentor: Dr. Tanya Hayes
Sai Manaswi Somareddy#: "Strain interaction between Myxococcus xanthus and Myxococcus virescens." Mentor: Dr. Dan Smith
Laura Wert: "Ego Development in Adolescent Girls: Shifts in Parental influence Over 35 Years" Mentor: Dr. Le Xuan Hy

2:00-3:00 **Kelly Biette*:** "Inter-participant Variability in Exercised-induced Corticosteroid Signaling: A Precursor to Glucocorticoid-mediated Pharmacogenetics" Mentor: Dr. Patrick Murphy
Lindsey Chen*: "Generalized Poincaré Inequalities for Differential Forms" Mentor: Dr. Shusen Ding
Signe Poquette*#: "Pyrethroid Pesticide Effects on Invertebrate Behavioral Responses to Danger Cues" Mentor: Dr. Lindsay Whitlow
Charles Rackson#: "Development of a Torsion Balance for Measuring the Casimir Force." Mentor: Dr. Woo-Joong Kim
Vincente Tafur*: "The Top Ten Effect: An Examination of Consumers' Subjective Perceptions of Rankings" Mentor: Dr. Mathew Isaac

Conference Directory

Presenters

Aldahlawi, Feras	10:00	Lobby
Ammen, Kayli	11:00	210
Ashworth, Danielle	1:20	160B
Baltrusis, Erin	11:00	130B
Battaglia, Andrew	11:00	210
Berude, John	10:00	Lobby
Biette, Kelly	2:00	Lobby
Bold, Natalie	11:40	160A
Bowlden, Danielle	11:00	210
Brady, Sarah	12:40	130A
Braha, Kia	3:40	130B
Brand, Matthew	1:00	130B
Brown, Trevor	10:00	160A
Buonarati, Olivia	12:20	160B
Bui, Tin	10:40	160B
Campbell, Katherine	12:20	160A
	& 4:00	210
Chambers, Emily	10:40	160A
Chen, Lindsey	2:00	Lobby
Chinisci, Susie	1:20	210
Davis, Jasmine	2:40	160B
Delurio, Daniel	10:20	130A
Dick, Shannon	9:20	130B
Dickson, Charles	1:40	210
Dinger, Frances	3:00	210
Donovan, Caitlin	11:00	130B
Dunlay, Abigail	10:20	130A
Durand, Laura	11:20	130A
Eastman, Michelle	12:00	160A
Errico, Roberto	1:20	130A
Esposito, Isabella	11:00	160A
Ewing, Erica	1:20	130A
Felcyn, Jacob	2:20	160B
Garay, Megan	12:20	160A
Gappa, Louise	11:20	130A
Gethings, Christopher	2:40	130B
Ghag, Sonam	11:20	160B
Giordano, Claire	2:40	210
	& 3:40	210
Goodjoint, Katrina	2:20	130B
Gores, Kathryn	2:00	210
Guyer, Danielle	1:00	130A
Hamar, Samantha	2:00	130B
Hanelin, Maria	10:40	160A
Head, Tori	2:20	210
Hernandez, Olivia	11:00	210
Henle, Adrian	11:40	160B
Higgins, Elizabeth	2:20	130A
Howard, Laurel	10:00	Lobby
Huynh, Carolyn	10:00	Lobby
Ito, Kimberly	11:20	130A
Johnson, Casey	12:00	160B
Johnston, Brooke	9:20	130A
Kangas, Amy	1:20	130B
Karmelita, Amanda	11:00	210
Klingenberg, Miles	10:00	210
Klingensmith, Aaron	3:40	130B
Larsen, Katherine	9:20	130A
Long, Anna	2:40	130A
Lubey, Mary	11:00	130B
McCarten-Gibbs, Maggie	9:20	130B
McClement, Matthew	1:40	160B
McDonnell, Peter	9:40	160B
McHugh, Sarah	10:00	Lobby
McLean, Derrick	11:00	160A
Mandler, Laura	12:00	130B
Mezzera, Jim	9:20	130B
Miller, Michelle	12:40	130B
Naro, Kurt	10:00	210
Neal, Adam	2:00	160B
Nguyen, Thanh-Hoa	3:20	160B
Olsen, Christopher	1:40	130B
O'Neill, Kevyn	11:00	130B
Palu, Thomas	10:20	130A
Parmar, Suchina	10:00	160B
Peters, Daniel	3:20	210
Pham, Phuc	3:00	160B
Poquette, Signe	2:00	Lobby
Pumo, Ian	10:00	210
Rackson, Charles	2:00	Lobby
Richter, Jessica	3:20	130A
Rizo, Javier	1:20	130A
	& 2:00	130A
Roach, Michelle	11:00	130B
Robertson, Jonathan	12:40	160B
Robinson, Giorgiana	12:00	160A

Shales, Jonathan	3:00	130A
Sheehan-Farley, Taylor	9:20	130B
Somareddy, Sai M.	10:00	Lobby
Spicer, Lucy	3:40	130A
Stone, Orrin	9:20	160B
Sullivan, Everett	3:40	130B
Surbur, Bethany	12:00	130B
Tarfur, Vincente	2:00	Lobby
Thomas, Amanda	9:20	130B
Tran, Amber	9:20	130A
Virgin, Molly	2:00	130B
Wade, Amanda	11:00	210
Werner, Halina	11:00	160B
Wert, Laura	10:00	Lobby
Willis, Justin	1:00	160B
Ysursa, Antonio	11:00	210

Mentors

Adame, Alexandra	Psychology
Bean, John	English
Boness, David	Physics
Brennan, Mary Kay	Social Work
Brown, Cordula	Modern Languages
Bullón-Fernández, María	English
Capps, Jason	Sociology
Cook, Kathleen	Psychology
Cumberland, Sharon	English
Davis, Angelique	Pre-law
Ding, Shusen	Math
Earenfight, Theresa	History
Elbert, Noreen	Public Affairs
Fortier, Ted	Anthropology
Gitre, Carmen	International Studies
Hahn, Hazel	History
Harms Cannon, Julie	Sociology
Hawley, Hilary	English, Wellness LLC
Hayes, Tanya	Latin American Studies
Henrich, Allison	Math
Howard-Brook, Wes	Theology & Religous Std. (STEP-Up) LLC
Hume, Naomi	Fine Arts
Hung, Wei Shun	Philosophy
Hy, Le Xuan	Psychology
Isaac, Mathew	Business
Kangas, William	History
Kelly, Brian	Economics
Kim, Woo-Joong	Physics
Langenhan, Joseph	Chemistry
Latch, Douglas	Chemistry
La Voy, Kathleen	Psychology
Leigh, David	English
Loertscher, Jenny	Chemistry
Lovell, Madeline	Sociology
Lovitt, Charity	Chemistry
McLaughlin, Ryan	Chemistry
McLeod, Marc	History
Minderhout, Vicky	Chemistry
Morton, Annie	Biology
Murphy, Patrick	Chemistry
O'Brien, Jodi	Sociology
Raichle, Katherine	Psychology
Roth, Tara	English, Hurtado LLC
Skogerboe, Kristen	Chemistry
Smith, Dan	Biology
Smith, Mary-Antoinette	English
Sorensen, Jennifer	Biology
Spencer, Heath	History, Faith Great Ideas LLC
Taylor, William	English
Tracy, Hannah	English, Discovery LLC
Tucker, Trileigh	Environment
Tung, Charles	English
Walker, Alison	English
Watson, Eric	Chemistry
Weihe, Edwin	English/Film Studies
Whitlow, Lindsay	Chemistry
Wotus, Cheryl	Biology
Zeff, Riva	Criminal Justice
Zhang, Enyu	Asian Studies