



THE 15TH
ANNUAL **S**POKANE
INTERCOLLEGIATE
RESearch **C**ONFERENCE

SATURDAY, APRIL 28

WHITWORTH UNIVERSITY

SIRC provides an opportunity for undergraduate students to present their faculty-led research in a competitive, rigorous and inquiry-based format to help develop scholarly community.

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SIRC 2018 Schedule

7:00 a.m.	Compass Breakfast Wagon available	Outside Hixon Union Building (HUB)
8:00 a.m. – 8:30 a.m.	Check-in, Coffee and Pastries	Weyerhaeuser Hall (WEY), 107
8:30 a.m. – 9:00 a.m.	Welcome from President Beck Taylor	Weyerhaeuser Hall (WEY), 107
9:15 a.m. – 10:45 a.m.	Early Morning Sessions RS1, RS2, RS3, RS4, PS1	Weyerhaeuser Hall (WEY), Hixon Union Building (HUB)
11:00 a.m. – 12:30 p.m.	Late Morning Sessions RS5, RS6, RS7, RS8, RS9, PS2, IE1	Weyerhaeuser Hall (WEY), Hixon Union Building (HUB)
12:30 p.m. – 2:00 p.m.	Break for Lunch*	
2:15 p.m. – 3:45 p.m.	Afternoon Sessions RS10, RS11, RS12, RS13, PS3	Weyerhaeuser Hall (WEY), Hixon Union Building (HUB)
4:00 p.m. – 4:30 p.m.	Awards	Weyerhaeuser Hall (WEY), 107

*Several lunch options are within walking distance of campus. Students with Sodexo meal plans may opt to eat in the Hixon Union Building (HUB) cafeteria. Thai Lunchbox will be set up during the lunch hour by the campanile.

RS = Regular (Paper) Session PS = Poster Session IE = Ideas Exchange

Welcome from the President of Whitworth University



Whitworth University is proud to welcome students from Eastern Washington University, Gonzaga University, Washington State University-Spokane, Community Colleges of Spokane and Whitworth to the 15th Annual Spokane Intercollegiate Research Conference (SIRC). This event provides an opportunity for students to celebrate the research they have completed and to disseminate the results of their work to their peers and the public. In so doing, they join an academic enterprise that for centuries has advanced the frontiers of knowledge and applied that knowledge to solving the world's most complex problems.

The great medieval philosopher and theologian Thomas Aquinas may be considered one of the fathers of the modern university and, in many ways, of SIRC. He recognized reason as one of humankind's greatest gifts, and that the greatest use of human reason was to pursue knowledge and truth wherever they may be found. His careful examination of the natural world (science) led him to understandings of history, philosophy and theology (humanities) and of economics, politics and psychology (social science) that had tremendous influence on Western thought and that are reflected in the breadth of subjects explored at this conference.

Aquinas also is known for an extraordinary body of writings in which he shared his knowledge with the world. As we make discoveries and gain insights through our research, we bear the responsibility to submit our work to the review of others in our field and to share what we have learned with the broader public. Peer review and public dissemination go hand in hand with the underlying research in expanding the body of knowledge needed to solve the critical problems we face. The students presenting at SIRC take that responsibility seriously, and I thank you.

On behalf of the faculty, staff and students of Whitworth University, I welcome you to our campus and applaud your contributions to the noble and important enterprise of academic scholarship and research.

Sincerely,

A handwritten signature in black ink, appearing to read "Beck A. Taylor". The signature is fluid and cursive, with a long horizontal stroke at the end.

Beck A. Taylor,
Ph.D. President
Whitworth University

Early Morning Sessions

9:15 a.m. – 10:45 a.m.

Session RS1

Room WEYR 203

Faculty Moderator: Patrick Ferro, Gonzaga University

- RS1-a Bryn Cavin: "Whitman's Use of Dualism in His Poems of Identity"
Faculty Sponsor: Laurie Lamon, Whitworth University
- RS1-b Matt Sherber Howard: "Commodifying Tradition for Individual Gain: Religious Ritual and Social Change in 'A Chaste Maid in Cheapside,' 'Eastward Ho,' and 'The Alchemist'"
Faculty Sponsor: Heather Easterling, Gonzaga University
- RS1-c Molly Wilson: "Collective Writing, Therapeutic Authorship, and the Latina Feminist Experience"
Faculty Sponsor: Ana Roncero-Bellido, Gonzaga University
- RS1-d Rebecca Dunne: "A Redefined Captivity Narrative"
Faculty Sponsor: Jeff Miller, Gonzaga University
- RS1-e Brittany Justham: "Shelling For Courage"
Faculty Sponsor: Nicole Sheets, Whitworth University

Session RS2

Room WEYR 204

Faculty Moderator: Alisha Epps, Whitworth University

- RS2-a Tayler Humphrey: "Shattering the Systemic Glass Ceiling: Gender Differences in Leadership"
Faculty Sponsor: Patricia Bruininks, Whitworth University
- RS2-b Michael Liuzzi and Alexandra Pardico: "Friendships, Networks, and Moods"
Faculty Sponsors: Anna Marie Medina and Gary Thorne, Gonzaga University
- RS2-c Kathryn Holtzheimer: "The Effects of Expected Motivation on Actual Motivation"
Faculty Sponsor: Wendy Bleecker, Whitworth University
- RS2-d Jaden L. Zwick and Jordan Cotton: "Expectations vs. Reality: How a Vision Prepares First-Generation College Students Seeking Higher Education"
Faculty Sponsor: Nicole Willms, Gonzaga University
- RS2-e Austin Johnson: "Against the Odds: Former Foster Children's Experience"
Faculty Sponsor: Vikas Gumbhir, Gonzaga University

Session RS3**Room WEYR 205***Faculty Moderator: Lisa Laurier, Whitworth University*

- RS3-a Bailey Englin: "Nonlinear Model of the Business Cycle"
Faculty Sponsor: Richard Cangelosi, Gonzaga University
- RS3-b Maxwell John Dulin and Jacob Ray Krantz: "Syllabification by Categorization"
Faculty Sponsor: Paul De Palma, Gonzaga University
- RS3-c Marissa Moffett: "Tech Break: The Impact of Perceptions on Gender Disparity in Computer Science"
Faculty Sponsor: Kent Jones, Whitworth University
- RS3-d Taha F. Hakkani: "A Mathematical Analysis of Sleep Cycles and Circadian Rhythms"
Faculty Sponsor: Richard Cangelosi, Gonzaga University
- RS3-e Lydia Pane: "A Model of Immune System Response to Tumor Growth"
Faculty Sponsor: Richard Cangelosi, Gonzaga University

Session RS4**Room WEYR 303***Faculty Moderator: Julia Stronks, Whitworth University*

- RS4-a Alexander Mowery, Zachary Monroe, and Jake Nelson: "Cell Phone Privacy: An Analysis of Carpenter v. United States"
Faculty Sponsor: Julia Stronks, Whitworth University
- RS4-b Pema Tshogyal: "How Central is Nigel Farage to Brexit?"
Faculty Sponsor: Sean Swan, Whitworth University
- RS4-c Luke Atherton: "The Impact of JASTA"
Faculty Sponsor: Julia Stronks, Whitworth University
- RS4-d Hanna Gillingham: "The British-Irish Council as a Post-UK Formation"
Faculty Sponsor: Sean Swan, Whitworth University
- RS4-e Hannah Howell: "To Pee or Not to Pee: A Legal Analysis and Advisory Statement for U.S. Public Schools Concerning Transgender Students and Equal Access to Sex-Segregated Public Facilities"
Faculty Sponsor: Julia Stronks, Whitworth University

Session PS1**Room HUB MPR**

Faculty Moderators: William Ntow, Whitworth University; Deborah Tully, Whitworth University; Kraig Wheeler, Whitworth University

- PS1-a Brendon Winston: "Student Attitudes to Healthcare Information Technology and Patient Privacy"
Faculty Sponsors: Anna Tresidder and Patricia Richards, Eastern University
- PS1-b Sarah Rounry: "Ella Baker"
Faculty Sponsor: Marc Robinson, Whitworth University
- PS1-c Andrew Hackett: "Fred Hampton"
Faculty Sponsor: Marc Robinson, Whitworth University
- PS1-d Emily Vermillion: "Cloning and Expressing PEPN in Lactobacillus helveticus"
Faculty Sponsor: Deanna Ojennus, Whitworth University
- PS1-e Sarah Bundy and Yasmeen Albasheer: "The Effects of Copy-Cover-Compare on Sight Word Acquisition for a 16-Year-Old Male in a High School Resource Room"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS1-f Erica Horn and Hailey Noyes: "The Effects of Contingent Rewards on On-Task Behavior and Copy, Cover, Compare on Correct Multiplication Facts for a Middle School Student with an Intellectual Disability"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS1-g Kelley O'Toole and Annie Heller: "The Effects of an Alternating Patterns Intervention on Sight Word Recognition for a High School Student with a Learning Disability in a Resource Room"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS1-h Katherine Ruff: "The Effects of Direct Instruction Flashcards on Sight Word Recognition for a First-Grade Boy with Developmental Delays in an Elementary Resource Room"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS1-i Veronica Tischer, Catherine R. Siefert, David Baker, and Joseph Panchesson: "A Critical Analysis of the Food Industry and Proposed Local Solutions"
Faculty Sponsor: Betsy Bancroft, Gonzaga University
- PS1-j Lauren Wilkin and Anna Yeung: "The Effect of Model-Lead-Test Intervention Procedure on the Correct Number of Subtraction Problems Using Money for a 13-Year-Old Student with an Intellectual Disability in a Special Education Classroom"
Faculty Sponsor: Jennifer Neyman, Gonzaga University

- PS1-k Olivia Bartlett: "Injury-related Anxiety as a Psychological Barrier in Return to Play"
Faculty Sponsor: Cynthia Wright, Whitworth University
- PS1-l Ashley Yang: "Berberine Uptake in HepG2 Cells"
Faculty Sponsor: Trisha Russell, Whitworth University
- PS1-m Jody Dillman, Dominique Cruz-Reyes, Luke Barrick, and Thomas Newberg: "The Effects of Hippotherapy on the Electromyograph of a Subject with Multiple Sclerosis"
Faculty Sponsor: Mike Sardinia, Whitworth University
- PS1-n Jacqueline Reid and William Henzler: "L-Theanine Effects on Memory and Cognition in Swim-Low Rats"
Faculty Sponsor: Mike Sardinia, Whitworth University
- PS1-o Braden L. Corigliano and Desiree M. Graham: "Efficacy of Pyrantel Pamoate in Canines with Small vs. Large Genetic Variability"
Faculty Sponsor: Mike Sardinia, Whitworth University
- PS1-p Jon Reid: "Effect of Amide-substituent Position on the Magnetic Resonance Imaging (MRI) and Optical Properties of Quinoline-sensitized Europium (III) Complexes"
Faculty Sponsor: Osasere Evbuomwan, Gonzaga University
- PS1-q Brian Hamm: "Assessing Bird Diversity in the Saltese Uplands Conservation Area Using Bioacoustic Monitoring and Cluster Analysis"
Faculty Sponsor: Methea Sapp, Spokane Community College
- PS1-r Erik Robin Bruhjell: "Functional Microbial Diversity in Lake Arthur, Spokane, Washington"
Faculty Sponsor: Betsy Bancroft, Gonzaga University
- PS1-s Paul Leonetti: "Lake Arthur Community Project"
Faculty Sponsor: Betsy Bancroft, Gonzaga University
- PS1-t Austin Cassity: "Characterization of the Cyclization of Sucralose Derivatives under Basic Conditions"
Faculty Sponsor: Trisha Russell, Whitworth University
- PS1-u Annika Barnett: "The Effect of Local Muscle Cooling on Muscle Activation and Fatigue"
Faculty Sponsor: Ryan McCulloch, Gonzaga University
- PS1-v Simon A. Derrer and Alana K. Andrews: "Comparison of Tensile Strength of 3D Printed Elastomeric Dogbones Following Hydrocarbon Environmental Exposure"
Faculty Sponsor: Patrick Ferro, Gonzaga University

- PS1-w Joshua Nay: "Approaches to the Organic Synthesis of 2-Oxoglutaramate"
Faculty Sponsor: Travis Denton, Whitworth University
- PS1-x Katherine Drexelius: "Using Human Cortical and Cerebral Organoids to Model Prenatal Hypoxic-ischemic Encephalopathy"
Faculty Sponsor: Jenny Hsieh, Gonzaga University
- PS1-y Jenna Valentine, Ryan Meehan, and Shane O'Brien: "Mitigating Dioxin Formation from Lignocellulose Combustion: An Experimental and Computational Approach"
Faculty Sponsor: Matthew Cremeens, Gonzaga University
- PS1-z Lee Cantrell: "Uncharacteristic Quasiracemic Assemblies Derived from Tartaramide/Malamide Molecular Frameworks"
Faculty Sponsor: Kraig Wheeler, Whitworth University
- PS1-aa Everett Fellger and Patrick Tjandra: "Investigation of the Material Properties of 304 Stainless in Tension with Prior Fatigue"
Faculty Sponsor: Patrick Ferro, Gonzaga University

Late Morning Sessions

11:00 a.m. – 12:30 a.m.

Session RS5

Room WEYR 203

Faculty Moderator: Lisa Laurier, Whitworth University

- RS5-a Regina Carrere: "Feminine Men in the Western"
Faculty Sponsor: Matthew Bolton, Gonzaga University
- RS5-b Daniel Roberts: "Why the Proliferation of Amateur Photography is Good for Self-Representation"
Faculty Sponsor: Jessica Clements, Whitworth University
- RS5-c Claire Standaert: "'What is the Right Thing to Do?' Understanding, Applying, and Evaluating Ethical Theories in Western Film"
Faculty Sponsor: Matthew Bolton, Gonzaga University
- RS5-d Alice Barry: "The Unnatural Becoming Natural: How Mistress Eyre Creates Spatial Power in the Transitional City"
Faculty Sponsor: Heather Easterling, Gonzaga University
- RS5-e Tilly Blakesley: "The Subtlety of Alchemy: Formation of Alchemical Space in Early Modern London Theatre"
Faculty Sponsor: Heather Easterling, Gonzaga University

Session RS6

Room WEYR 204

Faculty Moderator: Alisha Epps, Whitworth University

- RS6-a Molly Wilson: "Separate Sphere to Concentric Circles: Moll Cutpurse and the Third Space"
Faculty Sponsor: Heather Easterling, Gonzaga University
- RS6-b Gladys Suarez: "London's Contradictions Transform into the Epicene: Eastward Ho! and The Roaring Girl"
Faculty Sponsor: Heather Easterling, Gonzaga University
- RS6-c Analee Scott: "What's Foreign to You May Not Be Foreign to Them: Investigating the Emic and Etic Experiences of International Students at Gonzaga University"
Faculty Sponsors: Nicole Willms, Vikas Gumbhir and Mary Jeannot, Gonzaga University
- RS6-d Nick Neely: "Stokely Carmichael Biography Abstract"
Faculty Sponsor: Marc Robinson, Whitworth University

Session RS7**Room WEYR 205***Faculty Moderator: Sean Swan, Whitworth University*

- RS7-a Sidnee Grubb: "Comparative Analysis of Communication Practices of Baristas: Drive-Through Coffee, A Service Sexualized"
Faculty Sponsor: Lisa Silvestri, Gonzaga University
- RS7-b Samantha Louie: "Now Trending...#BlackMirror"
Faculty Sponsor: Claudia Bucciferro, Gonzaga University
- RS7-c Joshua M. Jacobs: "The Journey Walked on Water: An Analysis of the Christ Narrative as an Archetypal Hero"
Faculty Sponsor: Lisa Silvestri, Gonzaga University
- RS7-d Kolby Cameron: "Class v. United States: A Judicial Analysis"
Faculty Sponsor: Julia Stronks, Whitworth University
- RS7-e Boitumelo Nkonde: "How Influential was the New Media in the Brexit and Scottish Independence Debate?"
Faculty Sponsor: Sean Swan, Whitworth University

Session RS8**Room WEYR 303***Faculty Moderator: Richard Cangelosi, Gonzaga University*

- RS8-a Bailey Englin, Rachael Kuhn, and Russell Ford: "Patterns in Klein Links"
Faculty Sponsors: Vesta Coufal and Kate Kearney, Gonzaga University
- RS8-b Haley Miller: "The Changing Portrayal of Women in Star Wars"
Faculty Sponsors: Claudia Bucciferro and Ann Ciasullo, Gonzaga University
- RS8-c Laura Miller: "Materials Engineering, Investment Casting, and Additive Manufacturing as an Intersection of Visual Art"
Faculty Sponsor: Patrick Ferro, Gonzaga University
- RS8-d Dee Dee Brown, Sarah Godbehere, and James Sulser: "Addressing the Issue of Food Loss and Waste at Gonzaga University's Main Dining Facility: A Holistic Systems-Based Approach"
Faculty Sponsor: J. Alexander Maxwell, Gonzaga University
- RS8-e Gabriella Bulman and Suhail Rajah: "Global Gene Expression Analysis in the Absence of a Non-Receptor Tyrosine Kinase during Post-Embryonic Development of the Nematode *C. elegans*"
Faculty Sponsors: Aaron Putzke and Kent Jones, Whitworth University

Session RS9**Room WEYR 304***Faculty Moderator: Tara Lambert, Whitworth University*

- RS9-a Hannah Mumm: "Trumpit: The Similarities between Brexit and Trump"
Faculty Sponsor: Sean Swan, Whitworth University
- RS9-b Matthew Boardman, Phillip Bax, Austin Casey, Kalani Padilla, and Eamonn Epinga-Neff: "Conventions, Affordances, and Lessons of Visual Narratives"
Faculty Sponsor: Fred Johnson, Whitworth University
- RS9-c Sarah Herington: "The Significance of the National Health Service in British Politics"
Faculty Sponsor: Sean Swan, Whitworth University

Session PS2**Room HUB MPR***Faculty Moderators: William Hayes, Gonzaga University; Pam LeBret, Whitworth University; Craig Wheeler, Whitworth University*

- PS2-a Aaron B. Cleveland, Eric Perry, and Kristine Larson: "Geotechnical Engineering: The Impact of Water Content on the Unconfined Compressive Strength of Compacted Latah Creek Floodplain Soil"
Faculty Sponsor: Richard Orndorff, Eastern University
- PS2-b Pedro Tomazzelli: "Dorothy Height"
Faculty Sponsor: Marc Robinson, Whitworth University
- PS2-c Annika Perez-Krikorian and Jacqueline M. Bertagnolli: "Next to Normal: Exploring Mental Illness through Musical Theatre"
Faculty Sponsor: Leslie Stamoolis, Gonzaga University
- PS2-d Chantae Avina and Brazee Smith: "The Effects of Direct Instruction Flashcards on Sight Words for a Middle School Student with an Intellectual Disability in a Self-Contained Special Education Classroom"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS2-e Aspen Edwards: "The Effects of Cover, Copy, and Compare on the Spelling Accuracy of a High School Student with a Learning Disability"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS2-f Yanell Magana and Alexis Kozyra: "The Effectiveness of Direct Instruction Mathematics on Teaching Numeral Identification to a High School Student with Down Syndrome in a Special Education Classroom"
Faculty Sponsor: Jennifer Neyman, Gonzaga University

- PS2-g Samantha Romeo: "The Effect of Receptive Tact Training Flashcards on Developing Picture Identification of a Two-Year-Old Boy with Down Syndrome"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS2-h Darby Stone: "The Effects of a Communication Board with Contingent Rewards on Appropriate Behavior of a 20-Year-Old Female with a Developmental Disability in a Special Education Classroom"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS2-i Jacie White: "The Effects of Social Stories and a Token Economy on Decreasing Inappropriate Peer Interactions with a Middle School Student"
Faculty Sponsor: Cynthia Caniglia, Gonzaga University
- PS2-j Nicole Duke: "How Social Media Influences Our Romantic Relationships"
Faculty Sponsor: Lisa Silvestri, Gonzaga University
- PS2-k Kashish Choudhary: "Inhibition of Peroxidase Activity in Horseradish"
Faculty Sponsor: Deanna Ojennus, Whitworth University
- PS2-l Reilly Bealer: "How Does Relatedness of Breeders Affect Reproductive Partitioning in the Acorn Woodpecker?"
Faculty Sponsor: Joseph Haydock, Gonzaga University
- PS2-m Emily Donnel and Hannah VanDellen: "Cold Tolerance in *Melittobia Digitata*"
Faculty Sponsor: Mike Sardinia, Whitworth University
- PS2-n Haley Williams, Colton Long, and Zachary Halma: "The Effects of Blueberry Supplementation on the Rate of Neocytolysis"
Faculty Sponsor: Mike Sardinia, Whitworth University
- PS2-o Matthew Stanley: "Effects of Uniaxial Tensile Strain on Moth Wings through Digital Image Correlation"
Faculty Sponsor: Timothy Fitzgerald, Gonzaga University
- PS2-p Patrick Wilber: "Calcium and Magnesium in the Sediment of the Little Spokane River Watershed"
Faculty Sponsor: William Ntow, Whitworth University
- PS2-q Blake Casagrande: "Mechanical Properties and Hydrogen Embrittlement Resistance of API 5L X60 Pipeline Steel in Welded and Seamless Grades"
Faculty Sponsor: Patrick Ferro, Gonzaga University
- PS2-r Nathaniel Carleton: "GIS Survey of the Flying L Ranch"
Faculty Sponsor: Betsy Bancroft, Gonzaga University

- PS2-s Colette Jayde Werk, Erik Robin Bruhjell, and Gabrielle Dianne Thompson:
 “When Objects Collide: A Proposal for the Mitigation of Vehicle-Wildlife
 Collisions in the Inland Northwest”
Faculty Sponsor: Betsy Bancroft, Gonzaga University
- PS2-t Alex Navarra: “Orthogenesis at Trent & Harvard”
Faculty Sponsor: Andy Buddington, Spokane Community College
- PS2-u Joe Wilson: “Concentration of Hydrogen as a Function of Thickness of 304
 Stainless Tensile Specimen”
Faculty Sponsor: Patrick Ferro, Gonzaga University
- PS2-v Haylee Hamilton: “Sleep Disturbances in Pathological Amyotrophic Lateral
 Sclerosis Drosophila melanogaster Model”
Faculty Sponsors: Jason Gerstner and Gary Chang, Gonzaga University
- PS2-w Seth Foust and Bradley Tiefenthaler: “Effects of Lavender Oil on Predator
 Odor Induced Anxiety in Rats”
Faculty Sponsors: Alisha Epps and Patricia Bruininks, Whitworth University
- PS2-x Abigail Nye: “The Redemption of Mary’s Image in Catholicism and
 Protestantism”
Faculty Sponsor: Karin Heller, Whitworth University
- PS2-y Garrett Wikum: “Solid-Liquid Equilibrium Behavior of Binary Mixtures using
 DSC”
Faculty Sponsor: Trisha Russell, Whitworth University
- PS2-z Louisa Reilly: “Developing a Lactate Analogue for Use as a PET Tracer in the
 Brain to Detect Alzheimer’s”
Faculty Sponsor: Stephen Warren, Gonzaga University
- PS2-aa Lee Cantrell: “Absolute Configuration Determination of Sesquiterpene Lactone
 Inuloxin A Based on Experimental and Computational Analysis of Chiroptical
 Properties”
Faculty Sponsor: Prasad Polavarapu, Vanderbilt University

Session IE1

Room WEYR 111

Faculty Moderators: Jessica Clements, Whitworth University; Osasere Evbuomwan, Gonzaga University

- IE1-a Christopher Apodaca: “‘What are you really?’: A Qualitative Approach to
 Learning about Identity Formation of Mixed Race Students”
Faculty Sponsor: Nicole Willms, Gonzaga University
- IE1-b Jack VanderGriend: “Applying Synchronous and Asynchronous Online
 Communication to Academic Consultation”

Faculty Sponsor: Jessica Clements, Whitworth University

IE1-c Morgan Portlock: "Daisy Bates: Ferocious Civil Rights Fighter"
Faculty Sponsor: Marc Robinson, Whitworth University

IE1-d Breezie Rayas: "Faith in the Line of Fire"
Faculty Sponsor: Karin Heller, Whitworth University

IE1-e Abebaye Bekele: "White Allies of the Civil Rights Movement: Virginia Durr"
Faculty Sponsor: Marc Robinson, Whitworth University

IE1-f Abebaye Bekele: "Are Faulty Opinion Polls to Blame for Brexit?"
Faculty Sponsor: Sean Swan, Whitworth University

Afternoon Sessions

2:15 p.m. – 3:45 p.m.

Session RS10

Room WEYR 203

Faculty Moderator: Pam LeBret, Whitworth University

- RS10-a Lacy Nguyen: "Dismantling the Myth of the Model Minority: How Harmful Stereotypes Effect Asian-American Women"
Faculty Sponsor: Doug Sugano, Whitworth University
- RS10-b Kimberly Griggs: "An Interreligious Intervention: Transforming the Abortion Debate into a Dialogue on Life"
Faculty Sponsor: Emily Clark, Gonzaga University
- RS10-c Rachael Eaton: "The Ecumenical Movement in Latin America"
Faculty Sponsor: Lindy Scott, Whitworth University
- RS10-d Rachel Murray: "Julian of Norwich: Ignored and Rediscovered"
Faculty Sponsor: Karin Heller, Whitworth University
- RS10-e Kimberly Forster: "Would You Room with a Felon? A Study on Student Perceptions and the Stigma of Convicted Felons on a College Campus"
Faculty Sponsors: Nicole Willms and Vik Gumbhir, Gonzaga University

Session RS11

Room WEYR 204

Faculty Moderator: Brian Smith, Whitworth University

- RS11-a Allison Rude: "Christie v. NCAA"
Faculty Sponsor: Julia Stronks, Whitworth University
- RS11-b Brittney Murray: "Row, Row, Row, Repeat: A Study of the Experiences of Division 1 Female Rowers"
Faculty Sponsors: Nicole Willms and Vik Gumbhir, Gonzaga University
- RS11-c Dakota Peterson: "The Grass is Greener on the Other Side: The Subculture of Environmentalism on a College Campus"
Faculty Sponsor: Nicole Willms, Gonzaga University
- RS11-d Jess Albinson: "Navigating Gender and Sexual Identity in a 'Straight' World: A Study of How LGBTQ+ College Students Talk about Romantic Relationships"
Faculty Sponsors: Nicole Willms and Vik Gumbhir, Gonzaga University
- RS11-e Annica Balentine and Callen Aten: "Future Doctor or Future Mom? How Undergraduate Women Choose to Pursue Medicine"
Faculty Sponsor: Vik Gumbhir, Gonzaga University

Session RS12**Room WEYR 205***Faculty Moderator: Heather Easterling, Gonzaga University*

- RS12-a Alexander Mowery: "What are the Implications of the Brexit Supreme Court Ruling on the UK's Devolution Settlements?"
Faculty Sponsor: Sean Swan, Whitworth University
- RS12-b Ashlie Loring: "Is Euroscepticism Increasing?"
Faculty Sponsor: Sean Swan, Whitworth University
- RS12-c Alicia Heiser: "Examining Declining Voter Turnout in Post-Authoritarian Chile"
Faculty Sponsor: Laura Brunell, Gonzaga University
- RS12-d Caralyn Diedrich: "It's a Match! A Study of the Use of Dating Apps at a Small Catholic University"
Faculty Sponsor: Vikas Gumbhir, Gonzaga University
- RS12-e Yeeun Hong: "A Model or a Minority? Asian International and Asian American Student Experiences of Racial Stereotypes at Predominantly White University"
Faculty Sponsor: William Hayes, Gonzaga University

Session RS13**Room WEYR 303***Faculty Moderator: David Boose, Gonzaga University*

- RS13-a Christina Parslow: "The Impact of Brexit on the Good Friday Agreement and Northern Ireland"
Faculty Sponsor: Sean Swan, Whitworth University
- RS13-b Katlin Bowers: "A Legal Analysis of Collins v. Virginia"
Faculty Sponsor: Julia Stronks, Whitworth University
- RS13-c Alana Fujimoto: "Would Brexit Have Occurred if Austerity Measures had Never Been Initiated?"
Faculty Sponsor: Sean Swan, Whitworth University
- RS13-d Peter Lockhart Schoening: "Discrimination in the U.S. Political Asylum Process"
Faculty Sponsor: Julia Stronks, Whitworth University
- RS13-e Grace Muljadi: "Objection! The Truth behind the Courtroom Drama"
Faculty Sponsors: Vik Gumbhir, Nicole Willms, and William Hayes, Gonzaga University

Session PS3**Room HUB MPR**

Faculty Moderators: Marianne Bracke, Whitworth University; Grant Casady, Whitworth University; David Sloan, Whitworth University

- PS3-a Alex Fergus: "Robert F. Williams: Civil Rights Activist & Revolutionary Nationalist"
Faculty Sponsor: Marc Robinson, Whitworth University
- PS3-b Brian Hann: "James Morris Lawson, Jr. and His Career of Non-Violent Activism"
Faculty Sponsor: Marc Robinson, Whitworth University
- PS3-c Kohlton Wilcox: "Lions vs. the Sun"
Faculty Sponsor: Thom Caraway, Whitworth University
- PS3-d Jillian Barta: "The Use of a Model-Lead-Test-Retest Procedure on a Kindergarten Student to Increase Sight Word Identification in a Home Setting"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS3-e Claren Fraher: "The Effectiveness of Story Retelling on Reading Comprehension for a High School Student with a Specific Learning Disability in a Resource Room"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS3-f Jordyn McKenna: "The Effectiveness of an Adapted Direct Instruction Math Strategy on the Development of Quantifying Numbers by Two Thirteen-Year-Old-Boys with Special Needs in a Special Education Classroom"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS3-g Madison Rose: "Using 'Interval Check-ins' to Implement 'Self-Monitoring' Skills During Peer Conversations for a High School Student with Autism Spectrum Disorder in a High School Resource Room"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS3-h Calle Sullivan: "The Effectiveness of Repeated Reading on Reading Fluency of a 15-Year-Old Girl with a Learning Disability in an English Language Arts Special Education Resource Room"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS3-i Molly White, Madison Rose, and Evelyne Namakula: "An Analysis Comparing the Effects of Two Interventions, iPad and Computer Typing, on the Rate and Accuracy of Augmentative Communication for an Adolescent with Autism"
Faculty Sponsor: Jennifer Neyman, Gonzaga University
- PS3-j Tristan Robins and Miquette Orren: "Examining the Factors that Contribute to Faster and Slower Regional High School Cross Country Times in the United States of America"
Faculty Sponsor: Robin Henager, Whitworth University

- PS3-k Brian Lee: "Strategies in Disulfide Bond Formations to Stabilize X-Prolyl Amino Dipeptidases for Hydrolysis of Proline-Rich Amino Acid Sequences"
Faculty Sponsor: Deanna Ojennus, Whitworth University
- PS3-l Megan Cavataio, Hillary Le, and Phillip Bax: "The Cognitive Effects of an Acute Dose of Dark Chocolate on the Deary-Liewald Four Choice Reaction Time Test"
Faculty Sponsor: Mike Sardinia, Whitworth University
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