

Schedule of Oral Presentations

| Time | No. | Primary Author | Presentation Title |
|--|-----|---------------------|--|
| Session 1: Chemistry (Oral Presentations 8:00-9:40 in 135) | | | |
| 8:00 | 1a | Bryner, Stephanie | Inhibition of Mitochondrial Electron Transport Due to Atmospheric Ultrafine Particle Iron |
| 8:20 | 1b | Davis, Ryan | New Synthetic Techniques For SrB4O7:Eu2+ and Sr3B2O6:Eu2+ |
| 8:40 | 1c | Warren, Katie | Determination of host to activator energy transfer efficiency in YBO ₃ :Eu ³⁺ and (Y,Gd)BO ₃ :Eu ³⁺ |
| 9:00 | 1d | Atkins, Ryan | Synthesis and Characterization of SrY ₂ O ₄ :Eu ³⁺ |
| 9:20 | 1e | Telecky, Alan | Novel Synthesis and Optical Characterization of Sr3Y2(BO3)4:Eu3+ and Sr3Y(BO3)3:Eu3+ |
| Session 2: Biology (Oral Presentations 8:00-9:40 in 137A) | | | |
| 8:00 | 2a | Dutton, Ashley | Completed Chloroplast Genome of <i>Dioon edule</i> |
| 8:20 | 2b | Bunnell, Cristy | The Complete Chloroplast Genome of <i>Zamia integrifolia</i> : An Ancient Lineage with a Highly Conserved Genome |
| 8:40 | 2c | Margheim, Stephanie | Chloroplast Genomes from Two Different Species of <i>Acorus</i> Almost Identical |
| 9:00 | 2d | Murphy, Nicole | A Reference Collection for the Paleontologist: Characteristic Eastern Washington Riparian Pollen Grains |
| 9:20 | 2e | McCoy, Skip | Evidence of Rapid Divergence in the Plastid Genome of <i>Welwitschia mirabilis</i> |
| Session 3: Biology (Oral Presentations 8:00-9:40 in 137B) | | | |
| 8:00 | 3a | Lau, Helen | Ectomycorrhizal Communities Found On <i>Pinus ponderosa</i> in two Moisture Regimes |
| 8:20 | 3b | Puls, Andrew | Microhabitat Use by an Eastern Cascades Stream Fish Community |
| 8:40 | 3c | Petrina, Diedra | Pollination of <i>Erigeron Basalticus</i> (Basalt Daisy) |
| Session 4: Health, Human Performance, and Nutrition (Oral Presentations 8:00-9:40 in 140) | | | |
| 8:00 | 4a | Zorn, Anna | Deep Tissue Massage is an Effective Treatment for Lateral Knee Pain |
| 8:20 | 4b | Wagner, Jessica | Exercise Amount Needed to Improve Quality of Life and Fatigue in Breast Cancer Survivors |
| 8:40 | 4c | Nethery, Vincent | Auditory and Visual Mediators of Rate of Perceived Exertion and Power Output During Exercise: A Response-Production Protocol Produces Counterintuitive Results |
| 9:00 | 4d | Burnham, Tim | Aerobic Exercise Decreases Depression and Anxiety in Breast Cancer Survivors |
| 9:20 | 4e | D'Acquisto, Leo | Running Economy is Not a Key Discriminator of Talent Level Among Trained Collegiate Male Runners |
| Session 5: Computer Science, Mathematics (Oral Presentations 8:00-9:40 in 201) | | | |
| 8:00 | 5a | Magill, Luke | Fuzzy ARTMAP with Relevances with Genetic Algorithm Optimization for Predicting Properties of HIV-1 Protease Inhibitors |
| 8:20 | 5b | Goodrich, Amber | A Visualization of Rigid Body Motion |
| 8:40 | 5c | Giese, Joel | Solving the Rubik's Cube Using Evolutionary Computing |
| 9:00 | 5d | Stahl, Charles | Modeling Civil Violence Using Computational Intelligence |

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| 9:20 | 5e | Bucse, Sorin | Search by Clustering |
| Session 6: English, Science Education, Education (Oral Presentations 8:00-9:40 in 202) | | | |
| 8:00 | 6a | Braun, Celia | Community-Based Inquiry Improves Critical Thinking in General Education Biology |
| 8:20 | 6b/c | Shriner, Sylvia | Investigating Classroom Interaction |
| 9:00 | 6d | Meeks, Lacy | Bridging the Gap: Using Bridge Texts to Facilitate Reading Comprehension in the College Composition Classroom |
| 9:20 | 6e | Weston, Juliette | RTI and Elementary Reading Remediation: What is working? |
| Session 7: Chemistry, Physics (Oral Presentations 10:00-11:40 in 135) | | | |
| 10:00 | 7a | Shank, Lindsey | Analysis of Open-Ocean Aerosols: Do Phytoplankton Affect Iron Bioavailability in the Marine Atmosphere? |
| 10:20 | 7b | Rivard, James | Controlling Surface Properties by Exploiting the Natural Process of Molecular Self-Assembly |
| 10:40 | 7c | Wright, Ian | Interactive Java Physics Simulations |
| 11:00 | 7d | Kendall, Taylor | Blackbody Matching with a RGB LED for Star Classification |
| 11:20 | 7e | Braunstein, Michael | Undergraduate Research: A Model Based on 10+ Years Experience Mentoring Projects in the CWU Physics Department |
| Session 8: Biology (Oral Presentations 10:00-11:40 in 137A) | | | |
| 10:00 | 8a | Belmont, Susan | Death and Pestilence: A Deadly Fungus in a Natural Population of Treefrogs |
| 10:20 | 8b | Lester, Michelle | Demography of Chinese Paddle-Tailed Salamanders (<i>Pachytriton brevipes</i>) Using Spot Pattern Recognition |
| 10:40 | 8c | McCoy, Cheri | An Abundance Survey of <i>Paa spinosa</i> in the Huangshan Scenic District, China |
| 11:00 | 8d | Peterson, Luke | Phylogeography of the North Pacific Bobtail Squid (<i>Rossia pacifica</i>) |
| 11:20 | 8e | Yu, Jianing | An Interesting Phenomena of RNA Editing in Chloroplast Genomes of Gymnosperms |
| Session 9: Anthropology (Oral Presentations 10:00-11:40 in 137B) | | | |
| 10:00 | 9a | Beers, Kathryn | Henna: A Mysterious Art |
| 10:20 | 9b | Grimes, Ashley | This is Poppy |
| 10:40 | 9c | Beers, Kathryn | Emilio's Dream |
| | 9d | Beers, Kathryn (Withdrawn) | Ein Unbekannter Film: A Collection of Nazi News Reels |
| | 9e | Hogrefe, Melissa (Withdrawn) | Inhabiting Space |
| Session 10: Resource Management (Oral Presentations 10:00-11:40 in 140) | | | |
| 10:00 | 10a | Arthur, Marie | The Ethnography of Cougar Bar, Hells Canyon, Idaho |
| 10:20 | 10b | Lieb, Jeremy | Archaeological Investigation of Upland Ridgelines above Cougar Bar, Hells Canyon, Idaho |
| 10:40 | 10c | Beckley, Eric | In Search of Sgt. Ordway |
| 11:00 | 10d | Wilburn, David | Historic Context and Evidence of Chinese Placer Mining at Cougar Bar in the Hells Canyon National Recreation Area |
| 11:20 | 10e | Evans, Lowell | Hells Canyon Cultural Resources: From Dry Gulch to the Devil's Farm |

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| Session 11: Accounting, IET, Law & Justice (Oral Presentations 10:00-11:40 in 201) | | | |
| 10:00 | 11a | Garrtner, Erica | Patient or Prisoner: Barriers to Effective Mental Health Care |
| 10:20 | 11b | Eshghi, Breanna | Washington State: A Model for Voting Restoration? |
| 10:40 | 11c | Gay, Bradford | Distributed Databases and Security Over the Internet |
| 11:00 | 11d | Beardsley, Roger | Biofuels, Foreign Energy Dependence, and What You Can Do About It |
| Session 12: English, Manastash (Oral Presentations 10:00-11:40 in 202) | | | |
| 10:00 | 12a | Flaherty, Fiona | Lady Macbeth: Downfall Through Devotion |
| 10:20 | 12b | Sander, Dustin | Sophisticated Sophistry: The Mystical and Paradoxical Balance of Free Will and Determinism in <i>Everyman</i> |
| 10:40 | 12c | Whitcomb, Katharine | <i>Manastash</i> Showcase |
| Session 13: Science Honors (Oral Presentations 1:20-3:00 in 135) | | | |
| 1:20 | 13a | Tebbe, Michelle | Trace Element Distribution in Agate: Open Versus Closed System Formation |
| 1:40 | 13b | Trosper, Tabitha | Implications of Climate Change and Tephra Accumulation on the Lacustrine Environment in a Volcanic Caldera Michoacan, Mexico |
| 2:00 | 13c | Yeager, Kalyn | The Influence of the "Built" Environment on the Physical Activity Levels of Older Adults in a Rural Environment |
| 2:20 | 13d | Wallin, Jason | Play, Laughter, and Humor in Chimpanzees (<i>Pan troglodytes</i>) |
| 2:40 | 13e | Fernyhough, Liane | Dietary Behavior and Anthropometric Measures of Mexican Women and Second-Generation Mexican American Women |
| Session 14: Biology (Oral Presentations 1:20-3:00 in 137A) | | | |
| 1:20 | 14a | Gaulke, Christopher | Mechanisms of Mortality of <i>Batrachochytrium dendrobatidis</i> in Amphibians |
| 1:40 | 14b | Walsworth, Austen | The Effect of Gender and Age on the Freezing of <i>Pseudacris Regilla</i> |
| 2:00 | 14c | Corrigan, Shawn | Chillin' Out in the Northwest: How Hibernating Wasps Survive Sub-zero Temperatures |
| 2:20 | 14d | Corrigan, Shawn | Waking Up Wasps, "Oh My": Interspecific Differences in Awakening from Hibernation |
| 2:40 | 14e | Lessig, Zach | <i>Polistes dominulus</i> , the Fair Weather fiend: Metabolic Rates at Low Temperature |
| Session 15: Resource Management (Oral Presentations 1:20-3:00 in 137B) | | | |
| 1:20 | 15a | Child, David | Taylor Ditch/Side Channel: Water Quality Study and Analysis for Salmonid Suitability in the Yakima River, Selah Floodplain, Washington, USA |
| 1:40 | 15b | White, James | Bridging the Gap Between Human Perception and Scientific Understanding in Large River Systems |
| 2:00 | 15c | Perkins, Andrew | Development, Debris Torrents and Dendrogeomorphology |
| 2:20 | 15d | Rhoades, Janet | Using Geospatial Data and Techniques to Identify Potential Wetland Restoration Sites |
| 2:40 | 15e | Vasereno, Amy | A Guatemalan Model of Ecotourism and Participatory Wildlife Management |
| Session 16: Psychology (Oral Presentations 1:20-3:00 in 140) | | | |
| 1:20 | 16a | Leinweber, Rachel | Investigating Personality: Do Gamers Differ from Non-Gamers? |

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| 1:40 | 16b | Christianson, Jeffrey | Psychometric Properties of the Job Search Self-Efficacy Scale |
| 2:00 | 16c | Bush, Elizabeth | Music Therapy for Mild Depression |
| Session 17: History, English (Oral Presentations 1:20-3:00 in 201) | | | |
| | 17a | Holly, William (Withdrawn) | War Without Quarter: The Plan of San Diego and the South Texas Race War, 1915-1916 |
| 1:20 | 17b | Birks, Rachael | Dancing <i>Cubanidad</i> : Reconfiguring National Identity through Fidel Castro's Cultural Project, 1959-1973 |
| 1:40 | 17c | Miller, Albert | Aspects of British Identity as Exhibited in Accounts of Russia by British Visitors |
| 2:00 | 17d | Humphrey, Marisa | A Brief Analysis of the Anti-English Rhetoric of the Irish Language Revival |
| 2:20 | 17e | Bator, Jeanine | Mother Ireland and the Multifold Revolution |
| Session 18: English (Oral Presentations 1:20-3:00 in 202) | | | |
| 1:20 | 18a | Li, Charles | Aristotelian and Confucian Rhetorical Traditions in Four Modern Political Texts |
| 1:40 | 18b | Cutler, Robert | Certain Features of a "Japanese Accent" in English |
| 2:00 | 18c | Nelson, Jessica | The History of the English Verb "To Be": Irregularity in Common Usage |
| 2:20 | 18d | Powell, Alina | The Use of <i>It</i> in English Discourse |
| 2:40 | 18e | Wallace, Elizabeth | The Rise of Sancho Panza |
| Session 19: Science Honors (Oral Presentations 3:20-5:00 in 135) | | | |
| 3:20 | 19a | Mullen, James | Triplet Decay Rates in Poly(3-octylthiophene) |
| 3:40 | 19b | Klein, William | Designing and Constructing a Research Grade Scanning Tunneling Microscope System for Imaging Individual Molecules in Surface Self-Assembly |
| 4:00 | 19c | Wells, Josie | Ultrafine Particle Initiation of Lipid Peroxidation in Mitochondria |
| 4:20 | 19d | Heer, Tajinder | Synthesis Towards Novel Straight Chain Borinic Acid Potential HIV-1 Protease Inhibitors |
| 4:40 | 19e | Abdul-Wahid, Christopher | Dimensional Abstraction: Generating Novel Potential Inhibitors of Malarial Plasmeprin IV using Computational Methodologies |
| Session 20: Biology (Oral Presentations 3:20-5:00 in 137A) | | | |
| 3:20 | 20a | Justus, David | Effects of Soap Lake Water on Biofilms |
| 3:40 | 20b | Vashist, Radha | Culture and Characterization of Aerobic Bacteria from Soap Lake, WA |
| 4:00 | 20c | Gain, Jonathan | Effects of the herbicide Roundup® on the growth of pathogenic strains of <i>Saprolegnia</i> |
| 4:20 | 20d | Gain, Jonathan | Ecological Impact of Wilson Creek Stream Diversion |
| 4:40 | 20e | Peery, Rhiannon | Chloroplast Genome Evolution in the Parsley Family |
| Session 21: Anthropology, Resource Management (Oral Presentations 3:20-5:00 in 137B) | | | |
| 3:20 | 21a | Cearley, Stacie | Morphometric and Age Analysis of Mammoth Molars from the Pratum-Rutschman/Qualey Site, Marion County, Oregon |
| 3:40 | 21b | Dombert, Casey | Where is the Beef? Food, Wealth and Culture in the Landscapes of the Columbia Basin, Washington |
| 4:00 | 21c | Turner, Katharyne | Mapping Techniques as Educational Tools to Preserve the Hidden Landscapes of Cougar Bar |
| 4:20 | 21d | Vaughn, Kevin | Technological & Functional Variability in the Sunrise Ridge |

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| | | | Borrow Pit (45PI408) Lithics |
| 4:40 | 21e | Evans, Lowell | Use-Wear Analysis of the Beech Creek Site (45LE415) Formed Stone Tool Assemblage. |
| Session 22: CHCI, Psychology (Oral Presentations 3:20-5:00 in 140) | | | |
| 3:20 | 22a | McCarthy, Maureen | Behavioral Sequences between Tibetan Macaques (<i>Macaca thibetana</i>) and Tourists at Mt. Huangshan, China |
| 3:40 | 22b | McCarthy, Maureen | Use of Gesture Sequences in Captive Chimpanzee Play |
| 4:00 | 22c | Jensvold, Mary Lee | Species-Typical Behaviors Promote Positive Interactions with Chimpanzees |
| Session 23: History, Douglas Honors College, Philosophy (Oral Presentations 3:20-5:00 in 201) | | | |
| 3:20 | 23a | Heintz, Taryn | Christianity as a Justification for Slavery in the Antebellum South |
| 3:40 | 23b | Thayer, Sadie | "In Friendship, Love, and Truth": The Independent Order of Odd Fellows and the Degree of Rebekah |
| 4:00 | 23c | Dickinson, KathyMae | Nietzsche's Blind Spot: An Appeal Toward Less Sexualized Discourse |
| 4:20 | 23d | Mecham, Christian | Human Suffering as Understood From a Buddhist Perspective |
| 4:40 | 23e | Harder, Erika | Beyond Average Comprehension |
| Session 24: English (Oral Presentations 3:20-5:00 in 202) | | | |
| 3:20 | 24a | Rose, Christopher | Christianity in the Deconstruction of White Paternalism in <i>Incidents in the Life of a Slave Girl</i> |
| 3:40 | 24b | Lane, Jeff | Frederick Douglass: An Absurd Hero, Feeling Abject, and Contemplating Suicide |
| 4:00 | 24c | Ducken, Seanse | Haunted Histories: How the Gothic Influenced Modernist Literature |
| 4:20 | 24d | Wilson, Shannon | Chicana Trinity: Mestiza Consciousness in Sandra Cisneros' <i>Woman Hollering Creek</i> |
| 4:40 | 24e | Peters, Lucas | Timothy McSweeney's Long Arms Want to Embrace You: Dave Eggers's Independent Publishing Community |

Schedule of Poster Presentations

| Sessions 25 and 26 (Posters in Ballrooms C & D) Authors present during session 1:20-3:00 | | | |
|---|-----|----------------------|--|
| | 25a | Lester, Jack | Green Cascade Frog, <i>Rana livida</i> , Detection in the Valley of the Wild Monkeys, Mt Huangshan, China |
| | 25b | Johnston, Justin | Correlation of atmospheric ultrafine particle iron and mitochondrial toxicity. |
| | 25c | Jorgensn, Ryan | Preparation of Imprinted Silica Gel Surfaces Through Reversible Covalent Attachment of Template |
| | 25d | Nguyen, David | Synthesis Towards 1,3-Azaborine Heterocycles as Potential HIV-1 Protease Inhibitors |
| | 25e | Nieber, Annika | Photochemical Reduction of Iron(oxy)hydroxides in the Presence of Dimethyl Sulfide Derived Electron Donors |
| | 25f | Rosario, Sara | The Effects of Buckminster Fullerenes C ₆₀ on Cellular Respiration |
| | 25g | Aguiar, Ana Cristina | Analysis of Cascadia slow-slip events on Plate Boundary Observatory GPS and borehole seismometers |

| Time | No. | Primary Author | Presentation Title |
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| | 25h | Byman, Emma | Relative Age and Characteristics of Landslides on Mt. Solo: Longview, WA |
| | 25i | Hammond, Travis | Using Stable Isotopes to Characterize the Soil Water Budget Across a Climate Gradient |
| | 25j | Lantau, Aaron | Characterizing Processes Driving Magmatic Evolution of Castle Creek Eruption Period Basalts, Mount St. Helens, Washington |
| | 25k | Taylor, Sarah | Seasonal Changes in Groundwater Chemistry due to Irrigation in the Kittitas Valley, Washington |
| | 25l | Brennan, Mark | Preferred Qualifications for an Assistant Strength and Conditioning Coach at a NCAA Division I University |
| | 25m | Compton, Alissa | Physical Activity and Physical Fitness Levels in 6th Grade Students |
| | 25n | Herrington, Stefanie | Mexican-Influenced School Lunch Entrees Result in Increased Plate Waste and Decreased Caloric Consumption When Compared to Non-Mexican Entrees |
| | 25o | Melvin, Neil | Creatine Supplementation Impairs Jumping Performance in Female Athletes. |
| | 25p | Schlafer, Teresa | Discovery of a Three Chambered Human Heart |
| | 25q | Warfel, Kimberly | Regulation of Functional Foods in Japan: Foods for Specialized Health Uses (FOSHU) |
| | 25r | Klemin, Wayne | An Instrument Pilot Study of Attitudes and Perceptions of Radio Frequency Identifiers as a Means of Monitoring Students in Student Leadership Organizations |
| | 25s | Lupton, Robert | Strategic Ethics Management for Effective Corporate Governance of Multinational Enterprises: Strategic Policies, Concepts, and Frameworks |
| | 25u | Bjorkqvist, Jeanette | NHL Lockout and its Effects on Player Salary Distributions |
| | 25v | Bonallo, Ian | How Fair Is the Pro-football (NFL) Overtime Rule? |
| | 25w | Norman, Nicole | Which Popular Online Retailer Offers Better Prices on Electronic Products? |
| | 25x | SPS: CWU Society Of Physics Students | Electronic Realization of Chaotic Systems |
| | 25y | Kangas, Eric | Laser Induced Bubble Formation In Salt Solutions |
| | 25z | Ruud, Blaze | How to Unlock a Locking Carabiner |
| | 26a | Beers, Kathryn | Contemporary Cultural and Economic Sustainability for the Suquamish Tribe of Washington State |
| | 26b | Bertolani, Jennifer | Archaeological Applications of GIS at La Loma, Michoacan |
| | 26c | Evans, Lowell | Geoarchaeology of the Yakima Training Center |
| | 26d | Haney, Faith | <i>Anthropology Field Notes</i> |
| | 26e | Hiramatsu, Kenjiro | Maori Language and Maori Identity |
| | 26f | Huntington, Sarah | Resource Management, Sovereignty and the Future: The Port Gamble S'Klallam of Washington State |
| | 26g | Miskar, Dawn | Forensic Osteology of the Boiling Rock Burials, Barbuda, West Indies |
| | 26h | Muramoto, Minori | Analysis of Historic Glass from Three Kittitas Valley Sites |
| | 26i | VanTine, Launi | Virtual Excavations at Tyron Creek Site |
| | 26j | Wyatt, Noella | Seeing Red: Ochre Utilization, Tryon Creek Archaeological Site, Hells Canyon, Oregon |
| | 26k | Simmons, Stephanie | Historical Archaeology of the Overseas Chinese of City Block 24 Ellensburg, Washington |

| Time | No. | Primary Author | Presentation Title |
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| | 26l | Halberg, Rachel H. | Laughter, Number of Play Partners, Age & Play Bout Duration in Chimpanzees (<i>Pan troglodytes</i>) Living in an African Sanctuary |
| | 26m | Snyder, Tabitha | The relationship between childcare and non-traditional students academic and social integration |
| | 26n | Finne, Sarah | Analyzing Vegetation Regeneration on Mount St. Helens Using Remote Sensing Techniques |
| | 26o | Knott, Richard | Native Life in Hells Canyon |
| | 26p | Ikeda, Ami | The Myth that Iraq was involved in the 9/11 attacks |
| | 26q | Shattuck, Carly | State Sponsored Terrorism |
| | 26r | Valdez, Rudy | Future Child Advocate Needs In Kittitas County |
| | 26s | Bach, Brian | Calcutta's Edifice: The Buildings of an Great City |
| | 26t | Cornell, Caitlyn | Critical Thinking Grudge Match: Biology vs. Chemistry |
| | 26v | Sorrells, Robert | The Cognition of Abstract Art |
| | 26w | Haney, Faith | The Shipwreck Austria: An Historical And Archaeological Investigation At The Olympic Coast National Marine Sanctuary |
| | 26x | Pinter, Rachel | The Science Behind an Art: A Sociological Perspective of the Tattooing Phenomenon |

Schedule of Creative Activity

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|--|-----|-----------------------|--|
| Session 27 (Music Session 10:00-11:40 in Theater) | | | |
| 10:00 | 27a | Brown, Sean | Trombone No. 3 in F minor, Opus 6 (World Premiere) |
| 10:20 | 27b | Logan, Brooke | The Lower Pitched Members of the Flute Family |
| 10:40 | 27c | Hamilton, Thomas | Orchestral Excerpts for Flute |
| Session 28 (Film and Art Session 1:20-3:00 in Theater) | | | |
| 1:20 | 28a | Gray, Naomi | Birds in the Valley of Wind |
| 1:40 | 28b | Ellis, Stephen John | Loss of Innocence |
| 2:00 | 28c | Wasserburger, Brandon | <i>Amidst the Ruins</i> : A Documentary on the Grassroots Restoration Effort after Hurricane Katrina |
| Session 29 (Student Art Show in Sarah Spurgeon Gallery) | | | |