

# ORAL PRESENTATION SCHEDULE

*Only presenters are listed for each paper/poster.  
Full authorship is provided in the ABSTRACT portion of this program.*

## MORNING ORAL PRESENTATION SESSIONS

### SESSION 1: ANTHROPOLOGY

ROOM: SURC 135

- 8:00 **AIDS IN SOUTH AFRICA: CRITICAL ANALYSIS OF AN ONGOING PROBLEM**  
*Stacy, Lori*
- 8:20 **THE LIFE AND TIMES OF HAIRY ELEFANTE: GEOGRAPHY, GEOCHEMISTRY AND PALEONTOLOGY OF THE PRATUM SITE, WESTERN OREGON**  
*Cearley, Stacie; Barton, Bax; Hackenberger, Steve*
- 8:40 **TRADITIONAL ECOLOGICAL KNOWLEDGE AND WESTERN SCIENCE ON THE YAKAMA RESERVATION, WASHINGTON**  
*Beavert, Tia*
- 9:00 **A 5-YEAR POST-CASINO ECONOMIC STATUS OF NATIVE AMERICAN TRIBES *de los Angeles, Gabriel***
- 9:20 **IDENTIFICATION AND MAPPING OF CULTURAL FEATURES HELLS CANYON NRA, (10NP464) COUGAR BAR, NEZ PERCE COUNTY, IDAHO**  
*Volkenand, Todd; Nauer, Christian; Barrett, Kari; Stanley, Stacy; Killsnight, Adriann; Otu-tei, Clement*

### SESSION 2: CAMPUS SUSTAINABILITY

ROOM: SURC 137A

- 8:00 **SUSTAINABILITY AND CAMPUS LIFE: IMPROVING CENTRAL'S ECOLOGICAL FOOTPRINT THROUGH EFFECTIVE RECYCLING, PURCHASING, AND PRODUCT USE**  
*Hull, Laura; Bonsell, Kristina; Bradford, Lura; Kang, Yeon Sil*
- 8:20 **SUSTAINABILITY AND CAMPUS LIFE: IMPROVING CENTRAL'S ECOLOGICAL FOOTPRINT THROUGH DINING, PURCHASING, AND PRODUCT USE**  
*Parmelee, Nell; Langer, Laura; Todd, Dakotah; Walling, Jessie*
- 8:40 **CAMPUS SUSTAINABILITY AND CARBON REDUCTION: ENERGY REDUCTION**  
*Perkins, Jeffrey; Chisholm, Markus; Jenkins, Justin; Vashist, Radha*
- 9:00 **CAMPUS SUSTAINABILITY AND CARBON REDUCTION: STUDENT TRANSPORTATION CARBON OUTPUT ANALYSIS**  
*LaMie, Riley; McCanles, Kurt; Kantor, Annie; Norman, Amanda*
- 9:20 **CAMPUS SUSTAINABILITY: CAMPUS CARBON EMISSIONS AND REDUCTION PLANS FOR TRANSPORTATION**  
*Mark, Moynihan; Collins, Brian; Culliton, John; Nelson, Curtis*

### **SESSION 3: SOCIOLOGY**

ROOM: SURC 137B

- 8:00 **THE SOCIAL CONSTRUCTION OF PREMENSTRUAL SYNDROME BY COLLEGE AGE MALES**  
*Mirus, Matt*
- 8:20 **DISCLOSING CHILD SEXUAL ABUSE: INTERVIEWS WITH PACIFIC ISLANDER FEMALE SURVIVORS OF CSA**  
*Smith, Jaynina*
- 8:40 **CAN UNCLE SAM KEEP HIS PROMISE?**  
*Lomax, Perry; Meeks, Domonique*
- 9:00 **GENDER AND FACULTY AT CWU: A COMPARATIVE ANALYSIS, 1974-2004 AND 2004-2008**  
*Sleigh-Layman, Staci; Slim, Deema; Beyer, Tiffanee*
- 9:20 **THE PERCEPTION OF RISK WHICH MALES HAVE REGARDING ACQUAINTANCE RAPE**  
*Jarczak, Ronald*

### **SESSION 4: EDUCATION**

ROOM: SURC 140

- 8:00 **TRANSITION FROM CORRECTIONAL FACILITIES TO THE MAINSTREAM COMMUNITY FOR YOUTH WITH EMOTIONAL OR BEHAVIORAL DISORDERS**  
*Hollod, Katie*
- 8:20 **OF NOBODIES AND WHOS: WHAT SHOULD WE CALL PEOPLE WITH MENTAL RETARDATION?**  
*Dee Bellah, Trisha*
- 8:40 **MEASURED EFFECTS OF COMMUNITY-BASED INQUIRY ON CRITICAL THINKING IN NON-MAJORS CHEMISTRY**  
*Cornell, Caitlyn; Quitadamo, Ian*
- 9:00 **DEPICTION OF "THE HOSTAGE CRISIS" OF 1979 IN HISTORY TEXTBOOKS: A TURNING POINT IN THE US-IRAN RELATIONS**  
*Kaviani, Khodi*
- 9:20 **DOES VISUAL IMAGERY ACTIVITY AID NARRATIVE WRITING USING THE 6+1 TRAIT WRITING SYSTEM RUBRICS?**  
*Donahoe, Susan*

### **SESSION 5: ENGLISH**

ROOM: SURC 201

- 8:00 **GOD AND RELATIONSHIPS, SOPHROSYNE AND OLOLYGA IN ANNE CARSON'S *GLASS, IRONY AND GOD***  
*Sander, Dustin*
- 8:20 **FORGETTING THE SELF: MEMORY AND IDENTITY IN W.G. SEBALD'S *AUSTERLITZ***  
*Mayer, Christopher*
- 8:40 **MR. FREUD ON MR. BROOKS: AN ATTEMPT TO EXPLAIN THE MIND OF A MURDERER**  
*Schornak, Nate*
- 9:00 **CRIES FROM THE "SIDE CHAPEL": CREATIVE NONFICTION AS GENRE, DISCOURSE & PERSPECTIVE**  
*Dunning, Sonya*
- 9:20 **TRANSATLANTIC FILM TRADITIONS IN *THE CRYING GAME***  
*McCorkindale, Don*

**SESSION 6: RELIGIOUS STUDIES / CIVIC ENGAGEMENT**

ROOM: SURC 202

- 8:00 **PARADISE LOST, 1 ENOCH, AND THE LIFE OF ADAM AND EVE: MILTON AND EXTRA-BIBLICAL LITERATURE**  
*Klepach, Jr., Scott*
- 8:20 **GOD'S PEOPLE AT WAR: THE FAMILY IN PROTESTANT FUNDAMENTALISM**  
*Greene Sconce, Karlynn*
- 8:40 **SAVE BY THE LEAVE OF ALLAH: DOCTRINE CONCERNING SUICIDE IN ISLAM**  
*Soldat, Tyler*
- 9:00 **AVIATION, CONSTRUCTION, ENGINEERING AND SAFETY (ACES) CAREER ACADEMY FOR YOUNG WOMEN**  
*Geckle, Kristine; Hoover, Amy*
- 9:20 **CHALLENGES TO INCLUSION OF ACADEMIC SERVICE LEARNING IN COURSE CURRICULA**  
*Hultquist, Nancy B.*

**SESSION 7: PHYSICS**

ROOM: SURC 271

- 8:00 **ELECTRONIC REALIZATION OF THE LOGISTIC MAP**  
*Abdul-Wahid, Sami*
- 8:20 **COMPARING TWO METHODS OF ACQUIRING AND ANALYZING A SINGLE SLIT DIFFRACTION PATTERN**  
*Masters, Evan*
- 8:40 **INVESTIGATION INTO THE CHARACTERISTICS AND PROCEDURES OF NUMERICAL CALCULATION FOR THE LYAPUNOV EXPONENT**  
*Petersen, Travis*
- 9:00 **DIFFERENTIAL PHOTOMETRY ON SV CAMELOPARDALIS**  
*Kangas, Eric*
- 9:20

**SESSION 8: AVIATION / ENGLISH**

ROOM: SURC 301

- 8:00
- 8:20
- 8:40
- 9:00 **AVIATION, CONSTRUCTION, ENGINEERING AND SAFETY (ACES) CAREER ACADEMY FOR YOUNG WOMEN**  
*Geckle, Kristine; Hoover, Amy*
- 9:20 **FOCUS ON FORM AND LEARNER UPTAKE IN AN ESL CLASSROOM: WHAT TYPES OF FOCUS ON FORM FACILITATE STUDENTS' LEARNING?**  
*Allen, Yoko*

**SESSION 9: NATURAL SCIENCES**

ROOM: SURC 135

- 9:55 **A STUDY OF SOIL MOISTURE VARIATIONS AT TWO LOCATIONS IN ELLENSBURG, WA**  
*Howarth, Kathren*
- 10:15 **ISOTOPIC AND TRACE ELEMENT SIGNATURE OF THE YELLOWSTONE MANTLE PLUME: EVIDENCE FROM IMNAHA BASALTS**  
*Patterson, James D.; Ramos, Frank C.; Wolff, John A.*
- 10:35 **GEOSCRAPBOOK: SEE THE WORLD ALL OVER AGAIN**  
*Kolowinski, Casey; Long, Nate*
- 10:55 **HISTORICAL GLACIER AND CLIMATE FLUCTUATIONS ON MOUNT ADAMS, WA AND EFFECTS ON REGIONAL WATER SUPPLIES**  
*Treser, Jared*
- 11:15 **SELF-DIRECTED BEHAVIORS IN TIBETAN MACAQUES AS A FUNCTION OF TOURIST DENSITY AND PROXIMITY AT THE VALLEY OF THE WILD MONKEYS**  
*Yenter, Terrence A.; Matheson, Megan D.; Sheeran, Lori K.; Li, Jinhua; Wagner, R. Steven*

**SESSION 10: SOCIOLOGY AND SUSTAINABILITY**

ROOM: SURC 137A

- 9:55 **I WANT YOUR GARBAGE: FOOD SCRAP RECYCLING AND THE CENTRAL WASHINGTON UNIVERSITY COMMUNITY**  
*Washington, Natalie*
- 10:15 **ARCTIC MELTDOWN: GLOBAL WARMING AND THE ARCTIC**  
*Stinnett, Alix*
- 10:35 **THE AGING URBAN FORESTRY: AN ANALYSIS OF THE LONGVIEW, WA STREET TREE PROGRAM**  
*Weber, Juliana*
- 10:55 **WIND INTERMITTENCY AND POLICY: IMPLICATIONS FOR EFFICIENT ELECTRICITY PROVISION**  
*Dombert, Casey*
- 11:15 **TO SPRAWL OR NOT TO SPRAWL: THE GROWTH AND DEVELOPMENT OF KITTITAS COUNTY**  
*Charlton, Nea*

**SESSION 11: EXERCISE SCIENCE**

ROOM: SURC 137B

- 9:55 **PHYSIOLOGICAL COMPARISON OF YOUNG AND OLDER RUNNERS**  
*Swanson, Nicole; D'Acquisto, Leo; Pritchett, Robert; Nethery, Vince; Perkins, Ryan; Green, Amber*
- 10:15 **PERFORMANCE DECREMENTS BASED ON AGE AND GENDER IN ELITE TRIATHLETES**  
*Pritchett, Robert; Nethery, Vincent; Derkacs, David*
- 10:35 **BODY COMPOSITION USING CONDUCTOR LENGTH INSTEAD OF HEIGHT**  
*Nye, Jessica*
- 10:55 **AGE RELATED PERFORMANCE DECREMENTS IN TRIATHLON SUB-COMPONENTS IN ELITE AGE-GROUP ATHLETES**  
*Nethery, Vincent; Pritchett, Robert; Derkacs, David*
- 11:15 **CONDITIONING PRACTICES AND INJURY RATES OF COMPETITIVE IRISH DANCERS**  
*Bruhn, Christian*

**SESSION 12: EDUCATION / ENGLISH**

ROOM: SURC 140

- 9:55 **IMPLEMENTING READING RESPONSE TO INTERVENTION MODELS: PILOT PROGRAM PRACTICES IN WASHINGTON STATE**  
*Weston, Juliette*
- 10:15 **INQUIRY AND THE ESSAY**  
*Phill, Ryan*
- 10:35 **AM I BEING CLEAR? THE COMPLEXITY OF RESPONDING TO STUDENT WRITING**  
*Ross, Amanda*
- 10:55 **REGARDING WRITING**  
*Richardson, Elizabeth*
- 11:15 **TEACHING GRAMMAR IN THE NEW MILLENNIUM: STUDENTS BENEFIT FROM THE CONTINUED DEBATE**  
*Sander, Dustin*

**SESSION 13: CHEMISTRY**

ROOM: SURC 201

- 9:55 **SURFACE METALS CONTRIBUTE TO THE TOXICITY OF AIR POLLUTION**  
*Bryner, Stephanie; Johnston, Justin; Thomas, Carin; Johansen, Anne*
- 10:15 **STUDYING THE VARYING EFFECTS OF BUCKMINSTER FULLERENES ON MITOCHONDRIA**  
*Rosario, Sara*
- 10:35 **MODELING THE ADSORPTION BEHAVIOR OF POLYELECTROLYTES/SURFACTANT SYSTEMS AT THE TiO<sub>2</sub>/WATER INTERFACE USING IN SITU ATTENUATED TOTAL INTERNAL REFLECTION FOURIER TRANSFORM INFRARED (ATR-FTIR) SPECTROSCOPY**  
*Hase, Michael; Rivera, Dion*
- 10:55 **DETERMINATION OF HOST TO ACTIVATOR ENERGY TRANSFER EFFICIENCY IN YBO<sub>3</sub>:Eu<sup>3+</sup> AND (Y,Gd)BO<sub>3</sub>:Eu<sup>3+</sup>**  
*Warren, Katie*
- 11:15 **METHOD DEVELOPMENT WITH HIGH PRESSURE LIQUID CHROMATOGRAPH FOR THE DETECTION AND QUANTITATION OF SUBMICROMOLAR CONCENTRATIONS OF METHANESULFINIC ACID**  
*Best, Brittany*

**SESSION 14: BIOLOGY**

ROOM: SURC 202

- 9:55 **VISUAL LOCALIZATION OF TWO NEW PROTEINS OF THE PARAFLAGELLAR ROD OF *TRYPANOSOMA CRUZI* AND THEIR IMPORTANCE TOWARDS PROVIDING PROTECTIVE IMMUNITY**  
*Neumann, Evan*
- 10:15 **TRACING AXON DEVELOPMENT IN CHICKEN EMBRYOS (*GALLUS GALLUS*)**  
*Landis, Brandi; Blaisdell, Megan*
- 10:35 **BIOCIDAL EFFECTS OF WATER FROM SOAP LAKE ON SKIN PATHOGENS**  
*Justus, David*
- 10:55 **ELECTRORECEPTION IN THE NEMATODE, *CAENORHABDITIS ELEGANS***  
*Chrisman, Steven*
- 11:15

**SESSION 15: PHILOSOPHY**

ROOM: SURC 271

- 9:55 **INFLUENCES OF PHENOMENOLOGY AND LOGICAL POSITIVISM ON THE NATURAL SCIENCES**  
*Petersen, Travis*
- 10:15 **LEIBNIZ'S VIEW OF FREEDOM: POSSIBLE WITH A GOD?**  
*Goo, Ashley*
- 10:35 **TECHNOLOGIC: A DIALECTIC OF METAPHYSICS AND TRANSHUMANISM**  
*Hively, Rocky*
- 10:55 **PROPAGANDA AND PLATO'S INVITATION: A CORRUPTIVE INFLUENCE IN THE STATE'S MISUSE OF ART**  
*Dunleavy, Casie*
- 11:15 **ROCK OUT WITH YOUR WHAT OUT?!?!**  
*Mechem, Christian*

**SESSION 16: VISUAL ANTHROPOLOGY**

ROOM: SURC 301

- 9:55 **ANTHROPOLOGY FIELD NOTES: A TELEVISION PROGRAM EXPLORING EXCITING ENDEAVORS IN ANTHROPOLOGY AND ARCHAEOLOGY**  
*Haney, Faith*
- 10:15 **WORLD OF WARCRAFT: THE RISE OF A SUBCULTURE**  
*Soltz, Andrew*
- 10:35 **WILD HORSES ACROSS GENERATIONS**  
*Blodgett-Duque, Kristen*
- 10:55 **BLUESTONE GIRLS**  
*Witkowski, Elizabeth*
- 11:15 **MY THANKSGIVING EXPERIENCE**  
*Blodgett-Duque, Kristen*

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## AFTERNOON ORAL PRESENTATION SESSIONS

### SESSION 17: INDUSTRIAL AND ENGINEERING TECHNOLOGY

ROOM: SURC 135

- 1:20 **DETERMINING THE CARBON DIOXIDE FOOTPRINT OF CWU SPONSORED AIR TRAVEL**  
*Morton, Stephen; Volker, Gretchen*
- 1:40 **REPLACEMENT OF TRADITIONAL AUTOMOTIVE INSTRUMENTATION WITH DIGITAL GRAPHICAL INSTRUMENTATION (DGI)**  
*Tunnell, James*
- 2:00 **LOW COST USB OSCILLOSCOPE**  
*Thorsvik, Jonathan*
- 2:20 **GUIDELINES FOR NEW CONSTRUCTION PERMITS**  
*Nouwens, O'Neil*

### SESSION 18: BIOLOGY

ROOM: SURC 137A

- 1:20 **SEASONAL MOVEMENT AND HABITAT USE OF THE CASCADES FROG (*RANA CASCADEAE*) IN WASHINGTON.**  
*Barreca, April; Irwin, Jason T.*
- 1:40 **INVESTIGATING THE GREEN PLAGUE: AN EXAMINATION OF THE PHYSIOLOGICAL CONSEQUENCES OF CHYTRID INFECTION IN NORTHWEST AMPHIBIANS.**  
*Gaulke, Christopher; Irwin, Jason; Johnson, Jim; Wagner, Steven*
- 2:00 **ITRACONAZOL FAILS TO CLEAR CHYTRID INFECTION IN NORTHERN LEOPARD FROGS (*RANA PIPIENS*).**  
*Gaulke, Christopher; Irwin, Jason; Johnson, Jim; Wagner, Steven*
- 2:20 **EFFECTS OF SALVAGE LOGGING ON AN EASTERN CASCADE BIRD COMMUNITY 12-13 YEARS POST STAND-REPLACEMENT FIRE**  
*Woodrow, Aja*

### SESSION 19: ART

ROOM: SURC 137B

- 1:20 **HEMSTITCH AND THE MANDREL**  
*Nott, Melissa; Goeltzenleuchter, Brian*
- 1:40 **CAMERA VIRTUA**  
*Ellis, Stephen John*
- 2:00 **PLAY**  
*Hollick, James*
- 2:20

**SESSION 20: DOUGLAS HONORS COLLEGE**

ROOM: SURC 140

- 1:20 **VOICES OF THE WASTE LAND**  
*Flaherty, Fiona*
- 1:40 **THE NOBLE RIGHT TO RULE**  
*Sanford, Janna*
- 2:00 **LITERARY BIGOTRY**  
*Griffin, Pearl*
- 2:20 **THE MANIPULATION OF LANGUAGE IN THREE WORKS OF WESTERN CULTURE**  
*Tonnemaker, Heather*

**SESSION 21: PSYCHOLOGY**

ROOM: SURC 201

- 1:20 **HUMAN-MACAQUE (*MACACA THIBETANA*) AGONISTIC ENCOUNTERS IN MT. HUANGSHAN, CHINA**  
*Jones, Amber; Matheson, Megan; Sheeran, Lori; Li, Jin-Hua; Wagner, R. Steven*
- 1:40 **EMPATHY AS A PREDICTOR OF PARTICIPATION IN THREE TYPES OF BULLYING**  
*Mundt, Jennifer; Stahelski, Anthony*
- 2:00 **PROCRASTINATION AND SELF-HANDICAPPING**  
*Lake, Christopher; Linsley, Michelle; Jones, Joshua; Fierst, Katherine*
- 2:20 **GROOMING BEHAVIOR OF TIBETAN MACAQUES (*MACACA THIBETANA*) IN THE PRESENCE OF TOURISTS AT MT. HUANGSHAN, CHINA**  
*Mack, Heather; Matheson, Megan; Sheeran, Lori; Li, Jin Hua; Wagner, Steven*

**SESSION 22: MANASTASH**

ROOM: SURC 202

- 1:20 **MASASTASH SHOWCASE**  
*Whitcomb, Katharine; Nelson, Jessi; Pybon, Rachel; Burt, Andy; Ross, Amanda; Grass, Brennan*
- 1:40 **MASASTASH SHOWCASE**  
*Whitcomb, Katharine; Nelson, Jessi; Pybon, Rachel; Burt, Andy; Ross, Amanda; Grass, Brennan*
- 2:00 **MASASTASH SHOWCASE**  
*Whitcomb, Katharine; Nelson, Jessi; Pybon, Rachel; Burt, Andy; Ross, Amanda; Grass, Brennan*
- 2:20 **MASASTASH SHOWCASE**  
*Whitcomb, Katharine; Nelson, Jessi; Pybon, Rachel; Burt, Andy; Ross, Amanda; Grass, Brennan*

**SESSION 23: THEATRE ARTS / DOUGLAS HONORS COLLEGE / MUSIC**

ROOM: SURC 271

- 1:20 **ELECTRONIC THEATRICAL PROMPT SCRIPT**  
*Carroll, Justin*
- 1:40 **VIETNAM 101: STAGE MANAGING THE GRAND EXPERIMENT**  
*Curran, Terry*
- 2:00 **CIGARETTES AND ACCORDIONS: FRENCH MUSIC THROUGH THE NAZI OCCUPATION**  
*Harder, Erika*
- 2:20 **GAGAKU AND RYUTEKI: JAPANESE TRADITIONAL MUSIC AND FLUTE**  
*Ogawa, Emi*

**SESSION 24: CHEMISTRY**

ROOM: SURC 135

- 2:55 **COMPUTER MODELLING AND NEURAL NETWORKS USED IN THE DESIGN OF NOVEL HIV-1 PROTEASE INHIBITORS FOR THE THERAPEUTIC TREATMENT OF HIV/AIDS**  
*Barker, Grant*
- 3:15 **SYNTHESIS TOWARDS NOVEL 1,3-AZABORINE HETEROCYCLES AS POTENTIAL DUAL-MODE HIV-1 PROTEASE INHIBITORS**  
*Blackmore, Amanda*
- 3:35 **SYNTHESIS OF 5,6-DIHYDROPYRAN-2-ONES AS POTENTIAL INHIBITORS OF HIV-1 PROTEASE**  
*Nye, Jesse*
- 3:55 **SYNTHESIS AND OPTICAL CHARACTERIZATION OF  $\text{SrY}_2\text{O}_4:\text{Eu}^{3+}$**   
*Atkins, Ryan*

**SESSION 25: BIOLOGY**

ROOM: SURC 137A

- 2:55 **MICROHABITAT PARTITIONING IN AN EASTERN CASCADES STREAM FISH ASSEMBLAGE**  
*Puls, Andrew*
- 3:15 **ONTOGENETIC CHANGES IN FEEDING MORPHOLOGY AND DIET IN THE CHISELMOUTH MINNOW, *ACROCHEILUS ALUTACEUS***  
*Murray, Corrie*
- 3:35 **GENETIC DIVERSITY AND KINSHIP IN A CENTRAL WASHINGTON COUGAR POPULATION**  
*Houghtaling, Paul; Ernest, Kristina; Wagner, Steven; Koehler, Gary*
- 3:55 **SEXUAL SIZE DIMORPHISM OF THE NORTHERN PACIFIC RATTLESNAKE IN CENTRAL WASHINGTON**  
*Gilbertsen, Aaron*

**SESSION 26: LA COUNTY MUSEUM**

ROOM: SURC 137B

- 2:55 **SOMETHING MORE: TWO DIMENSIONS OF THREE DIMENSIONAL ART PRESENTATION**  
*Churchman, Joe*
- 3:15 **THE COGNITIVE AESTHETIC: ART MUSEUM AS EDUCATOR**  
*Talley, Sharon*
- 3:35 **A GRAND ENTRANCE**  
*Pribula, Jessica*
- 3:55

**SESSION 27: DOUGLAS HONORS COLLEGE**

ROOM: SURC 140

- 2:55 **DE TOCQUEVILLE IN AMERICA**  
*Wallace, Elizabeth*
- 3:15 **THE BIRTH OF GODS IN THE UNITED STATES: HOW MYTHOLOGIES ARE CREATED WHICH MAINTAIN THE MODERN AMERICAN REPUBLIC**  
*Pierce, Alex*
- 3:35 **THE SELFISHNESS OF POWERFUL WOMEN**  
*Frauen, Shiloh*
- 3:55 **THE IMPORTANCES OF KEEPING AN OPEN MIND TO CHANGES IN ONE'S SOCIETY**  
*Lehrman, Nathan*

**SESSION 28: PHILOSOPHY**

ROOM: SURC 201

- 2:55 **DESCARTES' PROBLEM WITH EVIL**  
*Radabaugh, Allison*
- 3:15 **POVERTY AND ACHIEVING WORLD PEACE IN CONTEMPORARY SOCIETY**  
*Dickinson, KathyMae*
- 3:35 **THE MORAL DEFINITION OF ART: WHY ANDY WARHOL'S CAMPBELL SOUP CANS ARE NOT ART**  
*Downes, Phillip*
- 3:55 **DISCUSSION IN THE AGE OF APATHY: THE CONCERNS OF AN ACTIVE MIND**  
*Derheimer, Michael*

**SESSION 29: HISTORY**

ROOM: SURC 202

- 2:55 **CONCESSIONS OF NECESSITY: THE RELATIONSHIP BETWEEN PRIVATE ENTERPRISES AND STATE DURING THE COLONIZATION OF SIBERIA**  
*Baker, Paul*
- 3:15 **WHAT BUFFON'S ANIMALS TELL US ABOUT HUMANS: EIGHTEENTH-CENTURY CONCEPTIONS IN BUFFON'S NATURAL HISTORY: GENERAL AND PARTICULAR**  
*Caulkins, Tamara*
- 3:35 **SIXTEEN POINTS: THE RADICALISM OF THE 1956 HUNGARIAN REVOLUTION**  
*Soldat, Tyler*
- 3:55 **INTO THE LANDS BETWEEN: VICTORIAN TRANSGRESSIONS OF GENDER, NATIONALITY, AND SEXUALITY IN BRAM STOKER'S DRACULA**  
*Willden, Andrew*

**SESSION 30: MATH**

ROOM: SURC 271

- 2:55 **THE PRECISION OF TACKING AND JIBING**  
*Zimmer, Alisha; Goodrich, Amber; McGregor, Elizabeth*
- 3:15 **CRAZY DICE**  
*Zimmer, Alisha*
- 3:35 **AND FLORIDA LIVES TO SEE ANOTHER DECADE**  
*Goodrich, Amber; Zimmer, Alisha*
- 3:55

**SESSION 31: THEATRE ARTS / DANCE**

ROOM: SURC THEATER

- 2:55 **TAKE A LOOK**  
*Crowley, Hannah*
- 3:15 **THREE PIECES**  
*Ohrstrom, Thomas; Newbury, Anna*
- 3:35 **THREE PERFORMANCE PIECES**  
*Shanks, Andrew; TBD, TBD*
- 3:55 **THREE PERFORMANCE PIECES**  
*Cartwright, Madeleine; Deimer, Adrein*

**SESSION 32: COMPUTER SCIENCE**

ROOM: SURC 135

- 4:30 **ORDERED FUZZY ARTMAP FOR PREDICTING HIV-1 PROTEASE INHIBITOR ACTIVITY**  
*Abdul-Wahid, Badi'; Barker, Grant*
- 4:50 **ANTS NEED THIS SOFTWARE**  
*Woodard, Ben; Wilson, Michael; Magill, Luke; Bucse, Sorin*
- 5:10 **USING COMPUTER TECHNOLOGY TO REPLACE OBSOLETE (PAPER PROCESS) ATTENDANCE TRACKING OF MUSIC STUDENTS AT REQUIRED EVENTS**  
*Churchill, Stephen; Curtis, Steven; Barla, Sumanth; Dybvig, Abraham*
- 5:30 **ANT COLONY OPTIMIZATION FOR GRAPH COLORING**  
*Sisson, Ben; Wysocki, Brandon*

**SESSION 33: BIOLOGY**

ROOM: SURC 137A

- 4:30 **NORTHERN SCORPION SUPERCOOLING AND WINTER SURVIVAL**  
*Lessig, Zach*
- 4:50 **USING GENOMIC MUTATIONS TO INVESTIGATE EVOLUTIONARY RELATIONSHIPS WITHIN CONIFERS**  
*Lackey, Kelli*
- 5:10 **UTILIZATION OF THE NUCLEAR GENE XDH TO INFER PHYLOGENETIC RELATIONSHIPS IN GYMNOSPERMS**  
*Wilcox, Kevin; Peery, Rhiannon; Raubeson, Linda*
- 5:30 **INVESTIGATING MOLECULAR EVOLUTION IN THE CHLOROPLAST GENOMES OF CYCADS**  
*Dutton, Ashley*

**SESSION 34: DOUGLAS HONORS COLLEGE**

ROOM: SURC 140

- 4:30 **THE THEOLOGY OF THE FALL IN ROBOTIC SCIENCE FICTION FILMS**  
*Wickersham, Katy*
- 4:50 **THE DAO OF JOB: COMPARATIVE RELIGION THROUGH METHODOLOGY**  
*Mocer, Mike*
- 5:10 **PHENOMENOLOGY & AUTHENTIC EXPERIENCE**  
*Hudgens, Jordan*
- 5:30 **THE PRESENCE OF SOCIAL JUSTICE IN BIBLICAL JUDAISM**  
*Wilder, Kimberly*

# POSTER PRESENTATION SCHEDULE

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## MORNING POSTER PRESENTATION SESSION – SESSION 35 MEZZANINE

Posters will be on display from 8:00 – 11:35  
(Presenters must be by posters during judging from 9:55 – 11:30)

### EDUCATION

1. **BUDDY UP!**  
*Dix, Jessica; Dee Bellah, Trisha*

### THEATRE ARTS

2. **PIECES ON A BOARD: A DESIGN PROJECT FOR SHAKESPEARE'S ROMEO AND JULIET**  
*Shields, Samantha*
3. **THE IMPORTANCE OF BEING EARNEST**  
*Conner, Ashlee*
4. **THE BIRDS**  
*Hahn, Laura*
5. **THE BIRDS**  
*Wright, Heather*
6. **THE CABINET OF DR. CALIGARI**  
*Hahn, Laura*

### WATERS

7. **AMPHIBIAN POPULATION STUDIES WITH TEAM HERPS**  
*Ault, Kori; Arlt, John; Wagner, Steve*
8. **STREAM NUTRIENT CYCLING: A STABLE ISOTOPE STUDY ON UMTANUM CREEK**  
*Johnson, Allison; Hennessey, Kelly*
9. **USING INQUIRY-BASED LEARNING TO DEVELOP CRITICAL THINKING SKILLS AND INTEREST IN SCIENCE IN MIDDLE SCHOOL STUDENTS THROUGH GUIDED RESEARCH IN FLOODING ASSESSMENT OF A LOCAL WATERSHED**  
*Hammond, Travis*
10. **FIELD INVESTIGATIONS FROM THE UPPER YAKIMA RIVER WATERSHED & ACTIVE STEWARDSHIP THROUGH RESOURCE INQUIRY (FOUR POSTERS)**  
*Proszek, Kristina*
11. **TO CONVERT OR NOT TO CONVERT: BIODIESEL AND BUSES IN WHITE SWAN, WASHINGTON**  
*Othus, Shannon; Rice, Tyler*
12. **OBSERVATIONS OF SNOW NEAR ELLENSBURG AND AT SNOQUALMIE PASS, WASHINGTON: A YAKIMA WATERS RESEARCH PROJECT WITH ELLENSBURG HIGH SCHOOL**  
*Parker, Emily; Hashimoto, Jeff*

**13. A STUDY OF ATMOSPHERIC DEPOSITION AND ITS EFFECTS ON THE CHEMISTRY OF THE YAKIMA RIVER WATERSHED (FOUR POSTERS)**

*Johnson, Jacob; Kopczynski, Meghan; Eddings, Gabriel; Sturgill-Simon, Kyle; Seaman, Stephanie; Johansen, Anne*

**14. WATERS IN LINCOLN ELEMENTARY FIFTH GRADE**

*Cornell, Caitlyn; Affholter, Tara*

**CIVIC ENGAGEMENT**

**15. USING A GIS TO FIND A NEW GEOCACHE LOCATION IN BELLINGHAM, WA**

*Thompson, Jason*

**16. REDUCING THE BARRIERS TO SMALL-SCALE LIVESTOCK PRODUCTION IN WASHINGTON STATE**

*Vicklund, Korbie*

**17. CIVIC ENGAGEMENT AND ACADEMIC SERVICE LEARNING THROUGH INTERNSHIPS**

*Hultquist, Nancy B.*

**18. A KNIGHT OF STORIES: A COMMUNITY STORYTELLING EVENT AS CIVIC ENGAGEMENT**

*Walker, Sharryn; Fauth, Megan; Swick, Jenny*

**CHIMPANZEE AND HUMAN COMMUNICATION INSTITUTE**

**19. THE RECENT EXPRESSIVE LEXICON OF A CROSS-FOSTERED CHIMPANZEE**

*Wallin, Jason; Jensvold, Mary Lee; Fouts, Roger; Fouts, Deborah*

**20. INDIVIDUAL- AND TASK-VARIATION IN HANDEDNESS IN FIVE CROSS-FOSTERED CHIMPANZEEES (PAN TROGLODYTES).**

*Blodgett, David; Stadtnr, Gina; Metzler, Deborah; Wallin, Jason; Potosky, Robin*

**LAW & JUSTICE**

**21. KITTITAS COUNTY LAW AND JUSTICE COUNCIL: A HISTORY**

*Cox, Candee*

**MATHEMATICS**

**22. CAN FUTURE SOPHOMORE WASL TEST SCORES BE PREDICTED?**

*Andrews, Chelsey; Flowers, Traca*

**23. MARVEL VS. DC (A REAL WORLD BATTLE FOR COMIC SALES)**

*Davis, Kelsey; Warnock, Allie*

**24. ARE ECONOMIC VARIABLES AND NEW HOME SALES IN THE U.S. RELATED?**

*Voronov, Eliyahu*

**25. FUEL EFFICIENCY**

*Moe, Andrew*

**POLITICAL SCIENCE**

**26. THE BLACKWATER PROBLEM: ACCOUNTABILITY & OTHER POLICY ISSUES**

*Scanlon, Brian*

**27. ELUDING A POLICE VEHICLE IN WASHINGTON STATE: THE PROBLEM OF ENDANGERMENT**

*Ormberg, Justin*

## PSYCHOLOGY

### 28. STATISTICAL ANALYSIS OF "ATTITUDES TOWARD ANIMAL RESEARCH" SURVEY

*James, Jesse*

## AVIATION

### 29. EARLY IDENTIFICATION AND MITIGATION OF TEST ANXIETY FOR AVIATION STUDENTS

*Sloan, Teresa*

## INFORMATION TECHNOLOGY & ADMINISTRATIVE SCIENCES

### 30. INTERNATIONAL JOINT PROJECT USING BLACKBOARD WEB TECHNOLOGY: FOREIGN DIRECT INVESTMENT OF USA RETAILERS IN SLOVAKIA BY SLOVAKS AND USA COLLEGE STUDENTS

*Lupton, Robert; Rawlinson, David*

## HISTORY

### 31. SCIENCE, ART, AND THE PERCEPTION OF NATURE: MARIA SYBILLA MERIAN AND ALEXANDER VON HUMBOLDT IN THE NEW WORLD

*Caulkins, Tamara*

## BIOLOGICAL SCIENCES

### 32. EFFECTS OF A CALCIUM CHANNEL, UNC-2, ON LONG-TERM EXPOSURE TO SEROTONIN ON EGG LAYING IN THE NEMATODE, *CAENORHABDITIS ELEGANS*.

*Chamberlin, David*

### 33. DNA BARCODING AND *SAPROLEGNIA*

*Nielsen, Kim; Johnson, Jim*

### 34. FUNCTION OF GENE PRODUCT ISOLATED FROM RETINA OF CHICKEN EMBRYO

*Blaisdell, Megan; Wessel, Erich*

### 35. ISOLATION OF BACTERIAL VIRUSES FROM AN ALKALINE ENVIRONMENT

*Cusack, Alicia*

### 36. FLUORESCENT CELL LABELING & IDENTIFICATION OF RETINAL NEURONS & THEIR AXONAL GROWTH PATTERNS WITHIN CHICKEN (*GALLUS GALLUS*) EMBRYOS

*Quisenberry, Jennae*

### 37. ROLE OF VENTRAL CORD NEURONS ON EGG LAYING UPON LONG-TERM EXPOSURE TO SEROTONIN IN THE ROUNDWORM, *C. ELEGANS*

*Bates, Terri*

## CHEMISTRY

### 38. SYNTHESIS OF NOVEL 1,3-AZABORINES AS POTENTIAL DUAL-MODE HIV-1 PROTEASE INHIBITORS FOR THE TREATMENT OF HIV/AIDS

*Chen, Pei-Mien; Ream, Lee*

### 39. AN EXPLORATORY STUDY OF THE PROPARGYLATION OF AROMATICS WITH $\text{Bi}(\text{OTf})_3$ IN IONIC LIQUID SOLVENT $[\text{BMIM}][\text{OTf}]$ : NEW LIFE FOR A CLASSIC TRANSFORMATION

*Brown, Kelley; Kellar, Casey; Charlton, Paul*

### 40. PREDICTION OF NOVEL INHIBITORS TARGETING *P. FALCIPARUM* PLASMEPSIN IV

*Abdul-Wahid, Badi'*

- 41. SYNTHESIS AND ANALYSIS OF BIODIESEL : ACIDIC OR BASIC CATALYSIS?**  
*O'Brien, Ian; Proulx, Josh*
- 42. CHEMICAL KINETICS: A TURBIDIMETRIC APPROACH TO SOLVING RATE ORDER WITH MICROLAB 10-COLOR COLORIMETER**  
*Mullen, Kellie; Helland, Terry*
- 43. LEMON BATTERIES: AN EXPLORATION AND APPLICATION OF THE ELECTROCHEMICAL SERIES**  
*Balandova, Zhenya*
- 44. METAL PLATING OF SILVER AND COPPER VIA GRAVIMETRIC COULOMETRY**  
*Overby, Grant*
- 45. PSEUDO-RATE REACTION: REACTION OF EDTA WITH Ni/PADA**  
*Helland, Terry; Mullen, Kellie*
- 46. SYNTHESIS OF FOUR NOVEL 5,6-DIHYDROPYRAN-2-ONES AS POTENTIAL HIV-1 PROTEASE INHIBITORS**  
*Palmer, Scott*
- 47. NOVEL SYNTHESIS AND CHARACTERIZATION OF STRONTIUM BORATES**  
*Rabinovitz, Rosa*
- 48. GREEN SYNTHESIS AND CHARACTERIZATION OF QUANTUM DOTS**  
*Gyselinck, Craig*

# POSTER PRESENTATION SCHEDULE

## AFTERNOON POSTER PRESENTATION SESSION – SESSION 36 MEZZANINE

*Only presenters are listed for each paper/poster.  
Full authorship is provided in the ABSTRACT portion of this program.*

### GEOGRAPHY & LAND STUDIES

1. **CHANGING CULTURAL LANDSCAPE OF ASAN POINT, GUAM: 1953 AND 1993**  
*Ayers, Marc*
2. **POTENTIAL GROWING SITES FOR PRODUCTION OF THE TEA PLANT (*CAMELLIA SINENSIS*)**  
*Ray, Eian*
3. **IDENTIFYING WILD HORSE IMPACTS USING AERIAL PHOTOGRAPHY**  
*Walling, Jessica*
4. **WYMER QUADRANGLE: ISSUES AND CONFLICTS IN RESOURCE MANAGEMENT**  
*Anderson, CJ*
5. **GEOGRAPHIES OF FRESHWATER SPORT FISHING IN THE UNITED STATES**  
*Kuhlken, Robert*
6. **THE EVOLUTION OF RESOURCES IN UPPER KITTITAS COUNTY: COAL MINING, LOGGING, AND REAL ESTATE**  
*LaRiviere, Maggie*

### ANTHROPOLOGY & MUSEUM STUDIES

7. **POSTER WITHDRAWN**
8. **EVALUATING THE CHRONOLOGY FOR HUMAN LAND USE IN THE SOUTHERN WASHINGTON CASCADE MOUNTAINS**  
*McCutcheon, Patrick; Vaughn, Kevin; Smith, Nicholas; Gauthier, Tara*
9. **SIZE DISTRIBUTION OF *MARGARITIFERA FALCATA* FROM THE SANDERS SITE (45KT315)**  
*VanTine, Launi*
10. **APPLICATION OF GIS MAPPING AT EL MARCIANO, MICHOACÁN, MEXICO**  
*Ellering, Anthony; Hackenberger, Steve; Guerrero, Tricia; Fairbanks, Marc; Palmquist, Bruce*
11. **RADIOCARBON CHRONOLOGY FOR VANTAGE AREA PITHOUSE SETTLEMENTS: MIDDLE COLUMBIA RIVER**  
*Witkowski, Elizabeth*
12. **THE CENTRAL LOWLAND MAYA REGION OF THE YUCATAN PENINSULA PRE 1492 CE**  
*Barrett, Carrie*
13. **CONTACT, CONQUEST, AND COLONIZATION OF THE MAYA**  
*Barrett, Carrie*
14. **IDENTIFYING POTENTIAL ARCHAEOLOGICAL WET SITE LOCATIONS IN THE PUGET SOUND LOWLANDS, WASHINGTON: A GEOSPATIAL INVESTIGATION**  
*VanTine, Launi*

15. **FORENSIC ANALYSIS AND FACIAL RECONSTRUCTION OF A SKELETON FROM MEXICO**  
*Steinkraus, Mark*
16. **TOURIST IMPACT ON TIBETAN MACAQUE (*MACACA THIBETANA*) BEHAVIOR: MACAQUE RESPONSES TO TOURISTS OF DIFFERING SEX AND AGE**  
*Vaughn, Clare; Sheeran, Lori K.; Matheson, Megan D.; Li, Jinhua; Wagner, Steven R.*
17. **THE SNAKE RIVER PLATEAU: 1805 AD - 1900 AD**  
*Dice, Laura*
18. **AN INVESTIGATION OF SALMON REMAINS FROM THE ARCHAEOLOGICAL SITE IN HELL'S CANYON, OREGON**  
*Rogers, Devon*

#### **GEOGRAPHY & LAND STUDIES - HELLS CANYON**

19. **GENERAL ECOLOGY AND DISTRIBUTION OF THE HACKBERRY TREE WITHIN SADDLE CREEK, OREGON**  
*Pennebaker, Rachel; Humphries, Katherine; Smith, Andrew; McEvoy, Steven; Nesbitt, Andrea*
20. **MAPPING OLD HOMESTEAD IRRIGATION DITCHES IN SADDLE CREEK, HELLS CANYON**  
*Malkuch, Tyler; Quirk, Tony*
21. **IDENTIFICATION AND MAPPING OF CULTURAL FEATURES HELLS CANYON NRA, (10NP464) COUGAR BAR, NEZ PERCE COUNTY, IDAHO**
22. **MORE THAN MEETS THE EYE: ENVIRONMENTAL ARCHAEOLOGICAL APPLICATIONS OF AN IR+VISIBLE+UV SPECTRA SENSITIVE DIGITAL CAMERA**  
*Schroeder, William*

#### **RESOURCE MANAGEMENT**

23. **ESTIMATING LANDSCAPE RESILIENCY OF THE WESTBERG AND BOY SCOUT TRAILS**  
*Evans, Jennifer*
24. **INVESTIGATING VARIABILITY IN PREHISTORIC STONE TOOL ASSEMBLAGES FROM THE SOUTHERN WASHINGTON CASCADES**  
*Vaughn, Kevin*
25. **THE CARBON FOOTPRINT OF TOBACCO**  
*Merrill, Adam*
26. **KEEP YOUR FRIENDS CLOSE, YOUR ENEMIES CLOSER**  
*Weitzel, Christie*

#### **GEOLOGICAL SCIENCES**

27. **GPS ESTIMATES OF CASCADIA SLIP DEFICIT BENEATH THE OLYMPIC PENINSULA**  
*Chapman, Jim; Melbourne, Tim*
28. **MIDDLE CRUSTAL DUCTILE DEFORMATION PATTERNS: INSIGHTS FROM VORTICITY STUDIES IN MABJA DOME, SOUTHERN TIBET**  
*Langille, Jackie; Lee, Jeffrey; Hacker, Bradley; Seward, Gareth*
29. **PETROGENETIC PROCESSES CHARACTERIZING THE MOUNT BACHELOR, OREGON MAGMATIC SYSTEM: OPEN VERSUS CLOSED SYSTEM PROCESSES**  
*Johnson, Sara*
30. **A STABLE ISOTOPE STUDY OF THE SOIL WATER BUDGET ON A CLIMATE IN A SNOWMELT DOMINATED SYSTEM**  
*Hammond, Travis*

31. **COMPARISON OF TWO LANDSLIDES AND THEIR RELATED OUTBURST FLOOD DEPOSITS, OWYHEE RIVER, SOUTHEASTERN OREGON**  
*Othus, Shannon; Ely, Lisa; House, P. Kyle; Safran, Liz; O'Connor, Jim; Fenton, Cassandra*
32. **MEASURING THE OXYGEN ISOTOPE RATIO OF SOIL CO<sub>2</sub> EMISSIONS ACROSS A CLIMATE GRADIENT IN THE EASTERN CASCADES, WA**  
*Larkins, Clayton*
33. **CHARACTERIZING THE ~1000 AD ERUPTION OF BAITOUSHAN VOLCANO USING ISOTOPES AND TRACE ELEMENTS**  
*Kinch, Adam; Shurtleff, Brett*
34. **USING Sr AND Pb ISOTOPES TO IDENTIFY MAGMATIC PROCESSES AT BAITOUSHAN VOLCANO, CHINA**  
*Wilson, Rodger; Ramos, Frank; Gill, James*
34. **MONITORING MOVEMENT OF THE NACHES LANDSLIDE**  
*Wilson, Rodger; Shurtleff, Brett*
36. **EVALUATING THE TIMING OF MAGMATISM AT BAITOUSHAN VOLCANO; INSIGHTS FROM SINGLE MINERAL ISOTOPE ANALYSES**  
*Rodgers, Sarah; Ramos, Frank*

#### **HEALTH, HUMAN PERFORMANCE & NUTRITION**

37. **THE EFFECT OF KITTITAS COUNTY HEAD START ON NUTRITION STATUS OF PARTICIPANTS: AN EXPLORATORY STUDY**  
*Mize, Charlene; Cashman, Linda; Gee, David; Madlem, Melody*
38. **CHARDONNAY GRAPE SEED FLOUR AS AN ACCEPTABLE PARTIAL SUBSTITUTION FOR ALL-PURPOSE FLOUR IN A FUDGE COOKIE BAKED GOOD PRODUCT**  
*Pellicer-McCann, Jamie; Peters, Jamey; Arriaga, Alexandria*
39. **BENEFAT AS AN ACCEPTABLE FAT SUBSTITUTE FOR COOKIES**  
*Southards, Kasey; Balandova, Zhenya; Walker, Heather*
40. **KINEMATIC CHARACTERISTICS OF YOUNGER AND OLDER TRAINED MALE RUNNERS**  
*Perkins, Ryan; Swanson, Nicole; Green, Amber; D'Acquisto, Leo*
41. **ELITE MASTER AGE GROUP RUNNERS SHOW DIMINISHED MACRONUTRIENT INTAKE PER KG BODY WEIGHT COMPARED TO COMPETITIVE COLLEGE RUNNERS**  
*Rust, Bret; Swanson, Nicole*
42. **VENTILATORY THRESHOLD AND LACTATE THRESHOLD COINCIDE USING THE Dmax METHOD**  
*del Pozzi, Andrew; Papadopoulos, Harry*
43. **ELEMENTARY SCHOOL CHILDREN CONSUME LESS THAN RECOMMENDED INTAKE STANDARDS OF CALORIES, FIBER, IRON AND CALCIUM FROM NATIONAL SCHOOL LUNCH PROGRAM MEALS**  
*Romo, Megan; Aragon, Maria; Bergman, Ethan; Cashman, Linda; Englund, Tim*

#### **PHYSICS**

44. **ELECTRONIC REALIZATION OF CHAOTIC SYSTEMS**  
*Petersen, Travis; Kangas, Eric; Parker, Chris; Masters, Evan; Bakke, Erick; Abdul-Wahid, Sami; Leiseth, Jeff*

# CREATIVE ACTIVITY SCHEDULE

*Only presenters are listed for each creative activity.  
A more complete description of each work is provided in the ABSTRACT portion of this program.*

## **SESSION 37: 5<sup>TH</sup> ANNUAL JURIED ART SHOW**

SARAH SPURGEON GALLERY

8:00 – 5:00

## **SESSION 31: THEATRE ARTS / DANCE**

ROOM: SURC THEATER

(For more information, please refer to Session 31 in the oral presentation schedule.)

## **SESSION 16: VISUAL ANTHROPOLOGY**

ROOM: SURC 301

(For more information, please refer to Session 16 in the oral presentation schedule.)

## **TROMBONE QUARTET**

2<sup>ND</sup> FLOOR MEZZANINE

9:40 **FUNERAL MARCH FOR TROMBONE QUARTET, OPUS 11**  
*Sean Brown*

## **PIANO AND VIOLIN**

BALLROOM

12:25 **SONATA FOR PIANO AND VIOLIN #9 IN A MAJOR**  
*Nikolas Caoile and Carrie Rehkopf*

## **CWU HORN ENSEMBLE**

2<sup>ND</sup> FLOOR MEZZANINE

2:40 **FANTASIA FOR 12 HORNS AND WARM-UP**  
*Jeffrey Snedeker*

## **FLUTE**

2<sup>ND</sup> FLOOR MEZZANINE

4:15 **SHUN-SAN FOR FLUTE SOLO**  
*Emi Ogawa*