SOURCE 2009 Award Winners

Outstanding Oral Presentations

ANALYZING CONDITIONAL PROBABILITIES THAT ARE COMMONLY COUNTER-INUITIVE: WHY YOUR DOCTOR MAY BE WRONG AND HOW TO WIN ON GAME SHOWS
St. Brown, Max
Mentor: Bob Carbaugh, Economics

THE MISCONCEPTIONS OF THE WESTERN WORLD ON ISLAMIC WOMEN
Harlan, Justine
Mentor: Laila Abdalla, Douglas Honors College

SOCIO-ECONOMIC IMPACTS OF HYDRO POWER DAMS: THE BUI DAM PROJECT, GHANA (WEST AFRICA)
Otu-Tei, Clement
Mentors: Kathleen Barlow, Anthropology & Museum Studies; Morris Uebelacker, Geography

TERRESTRIAL AND MARINE FOOD SUBSIDY TO SALMONID DIET: A STABLE ISOTOPE STUDY ON THE YAKIMA RIVER
Johnson, Allison
Mentor: Paul James, Biological Sciences

MANASTASH SHOWCASE
Cavazos, Xavier
Mentors: Katharine Whitcomb, English; Joseph Powell, English; Lisa Norris, English

CHAUCER AND THE TRUE VALUE OF ORDINARY EXPERIENCE
Wildes, Sheena
Mentor: Laila Abdalla, Douglas Honors College

INTEGRATING CWU CHESS IN THE ARENA CHESS GUI
Littlefield, Kyle
Mentor: Razvan Andonie, Computer Science

RACE AND PERCEPTIONS OF INJUSTICE: EVIDENCE FROM ATTITUDES ON THE DEATH PENALTY SURVEY
Johnson, Michele
Mentors: Eric Cheney, Sociology; Sarah Britto, Law & Justice

ADULT BEGINNERS PIANO WORKSHOP: RESEARCH AND IMPLEMENTATION OF SKILL-BUILDING TECHNIQUES AND MATERIALS FOR LIFE-LONG LEARNING AND ENJOYMENT
Jaffe, Jan
Mentor: Bret Smith, Music

PUNNING THE PUDENDUM: VIOLENCE, LOVE, AND LEARNING IN CHAUCER’S MILLER’S & WIFE OF BATH’S TALES
Sander, Dustin
Mentor: Laila Abdalla, English
FROGS IN SPRING ALL WINTER: OVERWINTERING OF CASCADES FROGS IN WASHINGTON STATE
Barreca, April; Irwin, Jason
Mentor: Jason Irwin, Biological Sciences

QUANTITATIVELY MODELING SURFACE TRAPPING IN NANO-SCALE YTTRIUM OXIDE DOPED WITH EUROPIUM
Mann, Rusty
Mentor: Anthony Diaz, Chemistry

MARY, LILITH OR EVE: WOMEN'S ROLES WITHIN NAZI GERMANY
Geise, Sasha
Mentor: Heidi Szpek, Religious Studies

QUESTIONING SUSTAINABILITY RHETORIC: WHEN CULTURAL PRACTICES SUSTAIN DEPLETION OF NATURAL RESOURCES (AN EXAMINATION OF LAS VEGAS CITY OFFICIALS' SUSTAIN LAS VEGAS POLICY #CM-302)
Zimmerman, Kathryn
Mentors: Rex Wirth, Political Science; Morris Uebelacker, Resource Management; Kathleen Barlow, Resource Management; Nancy Hultquist, Resource Management

NO CAUSE FOR ALARM: A NARRATIVE VIDEO ESSAY
Iiyama, Brian; Allum, Kyle; Brown, Nick
Mentor: Michael Ogden, Communication

USE OF MELTS MODELING AND DETAILED TEXTURAL AND CHEMICAL CRYSTAL POPULATION STUDIES TO DOCUMENT MAGMA CHAMBER PROCESSES AT MT. ETNA, SICILY
Moses, Maureen; Bohrson, Wendy
Mentors: Wendy Bohrson, Geological Sciences; Christopher Mattinson, Geological Sciences

EFFECT OF SEROTONIN ON LOCOMOTORY BEHAVIOR IN THE ROUNDWORM, C. ELEGANS
Foss, Eric
Mentor: Lucinda Carnell, Biological Sciences

FUZZY ARTMAP RULE EXTRACTION IN COMPUTATIONAL CHEMISTRY
Abdul-Wahid, Badi'; Crivat, Bogdan; Abdul-Wahid, Sarah
Mentors: Razvan Andonie, Computer Science; Levente Fabry-Asztalos, Chemistry

CLEAR AND DIRECTIVE: VALUE CLARIFICATION AS A TOOL FOR ADVANCE DIRECTIVES
Blesi, Lauren
Mentor: Matthew Altman, Philosophy

INCORPORATING FILM INTO THE WOMEN'S STUDIES CLASSROOM
Johnson, Melissa
Department of English

INTEGRATED MARKETING COMMUNICATIONS PLAN FOR HABITAT FOR HUMANITY
Sundborg, Susanna; Reinhardt, Ian; Wohlfarth, Stephanie; Peck, Michael
Mentor: Jeffrey Stinson, Management
FREQUENCIES AND WAVELENGTHS FROM A NEW FAR-INFRARED LASING GAS: $^{13}$CHD$_2$OH
Petersen, Travis
Mentor: Michael Jackson, Physics

Outstanding Poster Presentations

**CWU—DES MOINES**

THE SLIPPERY SLOPE: A CONNECTION BETWEEN SMOKING AND DRUG ATTITUDES
Scalf, Natalie; Engel, Cynthia
Mentor: Edward Kingston, Psychology

**CWU—LYNNWOOD**

CRIME RATES AND THE STATE OF THE ECONOMY
Layher, Reed
Mentor: Krystal Noga-Styron, Law & Justice

**CWU—ELLENSBURG**

ELEMENT CONCENTRATIONS IN DRINKING WATER FROM A.C. DAVIS HIGH SCHOOL, YAKIMA, WA
Orem, Caitlin; Kendrick, Casey
Mentors: Beth Pratt-Sitaula, Geological Sciences; Carey Gazi s, Geological Sciences

USE OF VISIBLE SPECTROSCOPY TO MONITOR THE REMOVAL OF BROMOTHYMOL BLUE FROM WATER USING A POLYELECTROLYTE/SURFACTANT/TIO$_2$ SYSTEM
Best, Brittany; Tasker, Adam; Hodges, Dave
Mentors: Dion Rivera, Chemistry

SEXUAL DIMORPHISM OF RECOMBINATION RATES AS A CONSEQUENCE OF SEXUAL CONFLICT
Buxel-Florenzen, Stefanie
Mentor: Lixing Sun, Biological Sciences

THE EFFECTS OF TEMPERATURE ON METABOLIC RATE, VENOM SYNTHESIS, AND POTENCY IN PEUCETIA VIRIDANS (ARANEAE: OXYOPIDAE)
Galindo, Joanna; Irwin, Jason; Carnell, Lucinda; Galindo, Gracie
Mentors: Jason Irwin, Biological Sciences; Lucinda Carnell, Biological Sciences

SER-7, A SEROTONIN RECEPTOR, IS INVOLVED IN WITHDRAWAL EFFECTS FROM LONG-TERM EXPOSURE TO SEROTONIN IN THE ROUNDWORM, C. ELEGANS
Sudduth, Brandon
Mentor: Lucinda Carnell, Biological Sciences

REAL-TIME COMPARISON POLARIMETER FOR DATA ACQUISITION IN DETERMINATION OF 0$^{\text{TH}}$, 1$^{\text{ST}}$, AND 2$^{\text{ND}}$ ORDER RATE CONSTANTS
Pereze, Edgar
Mentor: Tim Sorey, Chemistry
AN EXPLORATORY STUDY OF THE PROPARGYLATION OF AROMATICS IN IONIC LIQUIDS EMPLOYING YTTERBIUM TRIFLATE AS A CATALYST
Kellar, Casey; Brown, Kelley; Laali, Kenneth
Mentor: Viorel Sarca, Chemistry; Levente Fabry-Asztalos, Chemistry

KINEMATICS AND VORTICITY IN KANGMAR DOME, SOUTHERN TIBET: TESTING PATTERNS OF MID-CRUSTAL DUCTILE DEFORMATION DURING THE HIMALAYAN OROGENY
Wagner, Tom
Mentor: Jeff Lee, Geological Sciences

AÇÁI PUREE PERFORMANCE AS A FAT REPLACER IN FUDGE BROWNIES
Sconce, Michael; Rust, Bret; Walton, Michelle
Mentor: David Gee, Health, Human Performance & Nutrition

USING THE FORCE CONCEPT INVENTORY TO IMPROVE STUDENT UNDERSTANDING OF FRICTIONAL FORCES
Sizemore, William
Mentor: Bruce Palmquist, Physics; Michael Jackson, Physics

FROM THE PAST INTO THE FUTURE: FLATHEAD AND PEND D’OREILLE CULTURAL MAINTENANCE AND ADAPTATION
Judy, Krystal; Smith, Tallitha
Mentor: Tracy Andrews, Anthropology & Museum Studies

ANALYSIS OF THE FRESHWATER MUSSEL (*Margaritifera falcata*) FROM 45-KT-315, KITTITAS COUNTY, WA
VanTine, Launi
Mentor: Steven Hackenberger, Anthropology & Museum Studies

IDENTITY STYLE, ATTITUDES ABOUT SEX, AND RELATIONSHIP STATUS AS PREDICTORS OF ADOLESCENT RISKY SEXUAL BEHAVIOR
Paulk, Amber; Zayac, Ryan
Department of Family & Consumer Sciences

ARCHAEOLOGICAL SITE MONITORING IN HELL’S CANYON, ID, MARCH 2009
Shea, Holly; Fredrickson, Carl; Oosahwee-Voss, Eric
Mentor: Morris Uebelacker, Geography

2009 HELL’S CANYON RESEARCH OVERVIEW
Shapley, Helen
Mentor: Morris Uebelacker, Geography

THE RESEARCH EXPERIENCE: REQUIREMENTS AND OPPORTUNITIES IN UNDERGRADUATE PSYCHOLOGY CURRICULUMS
Haghighi, Meisam; Biddle, Ryan; Gabriel, Kara
Mentor: Kara Gabriel, Psychology

UNDERSTANDING CHANGING LAND USE ON IRRIGATED ACREAGE IN THE KITTITAS VALLEY OF CENTRAL WASHINGTON STATE
Hackett, Jennifer
Mentor: Nancy Hultquist, Resource Management
THE ARCHAEOLOGY OF THE DAVIS LAKE AREA, DESCHUTES AND KLAMATH COUNTIES, OREGON
Nauer, Christian
Mentor: Steven Hackenberger, Resource Management

ELEGANCE TO ITS LIMIT
Martini, Jenni
Mentor: Andrea Eklund, Family & Consumer Sciences

DOWN TOWN CHIC
Trosper, Ashley
Mentor: Andrea Eklund, Family & Consumer Sciences

Outstanding Creative Presentations

MEI
Ogawa, Emi
Mentor: Hal Ott, Music

DIES IRAE (MODERN DANCE PERFORMANCE)
McLain, Tyler Elizabeth
Mentor: Therese Young, Health, Human Performance & Nutrition