

Summary Schedule

		ORAL PRESENTATIONS:					POSTERS:	
Time:	Room:	135	137A	137B	140	202	Ballroom A & B	
8:00-9:40	Oral Sessions	1 Computer Science	2 Biology	3 Geography, IET, Resource Management,	4 English, History, DHC	5 CHCI, Psychology, Anthropology	20, 21, & 22	23 2007 SOURCE Poster
9:40-9:50	Break	Refreshments in Room 201						
9:50-11:30	Oral/ Poster Sessions	6 Physics	7 Biology	8 Resource Management	9 English	24 Manastash Showcase	20, 21, & 22 Presenters with Work	23 2007 SOURCE Poster
11:30-12:15	Banquet	Ballroom C & D (<i>for participants, volunteers, and paid guests only</i>)						
12:15-1:00	Keynote	Keynote Address by Dr. Daniel Beck in Ballroom C & D (<i>all are welcome</i>)						
1:10-2:50	Oral Sessions	10 Chemistry	11 Biology	12 Resource Management, Anthropology	13 Philosophy, Anthropology	14 Art, Music	20, 21, & 22	23 2007 SOURCE Poster
2:50-3:00	Break	Refreshments in Room 201						
3:00-4:40	Oral Sessions	15 Chemistry, Geology	16 Biology	17 Family and Consumer Science, Resource Mgt.	18 Political Science	19 Law & Justice, Psychology, Education	20, 21, & 22	23 2007 SOURCE Poster
5:00-6:00	Awards	Outstanding Student Presentation and Faculty Mentor Awards in Theater (<i>all are welcome</i>)						

Schedule of Oral Presentations

Time	No.	Author(s)	Presentation Title	Mentor(s)/Department(s)
Session 1: Computer Science (Oral Presentations 8:00-9:40 in 135)				
8:00	1a	Magill, Lukas; Lemley, Joe; Widger, John; Erkul, Berk	Fuzzy artmap for chess artificial intelligence	Dr. Razvan Andonie, Computer Science
8:20	1b	Abdul-Wahid, Sarah; Collar, Catherine; Salim, Nicholas	An integrated computational intelligence approach for predicting biological activity of potential HIV-1 protease inhibitors	Dr. Razvan Andonie, Computer Science; Dr. Levente Fabry-Asztalos, Chemistry
8:40	1c	Lemley, Joseph; Widger, Jonathan; Mednick, Virgil; Abdul-Wahid, Sarah	Biologically inspired solution for load balancing distributed data	Dr. James Schwing, Dr. Razvan Andonie, Computer Science
9:00	1d	Arntson, Luke	Game programming optimization	Dr. James Schwing, Computer Science
9:20	1e	Lemley, Joseph	Stabilization of medical images with modified autocorrelation	Dr. Boris Kovalerchuk, Computer Science
Session 2: Biological Sciences (Oral Presentations 8:00-9:40 in 137A)				
8:00	2a	Lau, Helen	The effects of moisture on the ectomycorrhizae on <i>Pinus ponderosa</i>	Dr. James Johnson, Biological Sciences
8:20	2b	Peterson, Luke; Wagner, Steven	Phylogeography of the Stubby squid (<i>Rossia pacifica</i>).	Dr. Steven Wagner, Dr. James Johnson, Biological Sciences
8:40	2c	Moon, Curtis	Using genetically engineered bacteria to remove arsenic from water	Dr. Steven Wagner, Dr. Holly Pinkart, Biological Sciences; Dr. Anne Johansen, Chemistry
9:00	2d	Charbonneau, Jeff; Englund, Tim; Wagner, Steven	Project CROAK! Community-based research	Dr. Steven Wagner, Biological Sciences; Dr. Jim DePeape, Education
9:20	2e	Wagner, Steven; Johnson, James	Pestilence and Death: studies of amphibian declines in the Pacific Northwest	Department: Biological Sciences
Session 3: Geography, IET, and Resource Management (Oral Presentations 8:00-9:40 in 137B)				
8:00	3a	Beckley, Eric	When mining ends: a comparative case study of the general mining law of 1872 and the surface mining and control reclamation act of 1977	Dr. Gina Bloodworth, Resource Management/Geography and Land Studies
8:20	3b	Kosters, Kolten	Effects of irrigation in the Columbia Basin	Dr. Gina Bloodworth, Geography and Land Studies
8:40	3c	Willauer, Joe	Urban Growth in The Columbia Basin	Dr. Gina Bloodworth, Geography and Land Studies
9:00	3d	McCormick, Jason	Washington State Legislative Interconnectivity to Natural Resource Policy, An Inside Perspective	Dr. Gina Bloodworth, Geography and Land Studies

Time	No.	Author(s)	Presentation Title	Mentor(s)/Department(s)
9:20	3e	Beardsley, Roger	Pilot Scale Production System for Making High Quality Biodiesel Fuel form Vegetable Oil	Dr. Craig Johnson, Industrial & Engineering Technology
Session 4: English, Honors College, & History (Oral Presentations 8:00-9:40 in 140)				
8:00	4a	Klepach, Scott	Widower's Peak: A Novella	Joseph Powell, Dr. Christopher Schedler, English
8:20	4b	Gay, Lindsey	Toward the Romantic sublime: imagination and creative power in Mary Shelley's <i>Frankenstein</i>	Dr. Sura Rath, Douglas Honors College
8:40	4c	Roy, Alyson	The augustan dichotomy: propagandistic anti-hellenism and the preservation of roman values	Dr. Jason Knirck, History; Dr. James Pappas, Education; Dr. Sura Rath, Douglas Honors College
9:00	4d	Laurent, Patrice	Harvesting legibility: coffee and the forging of identity in Soconusco, Chiapas	Dr. Jason Knirck, Dr. Michael Ervin, History
9:20	4e	Amutabi, Maurice	Interrogating the Role of Islam and Sharia on Women's Reproductive and Sexual Rights in Islamic States of Africa	Department: History
Session 5: Anthropology, Psychology, & CHCI (Oral Presentations 8:00-9:40 in 202)				
8:00	5a	Ruesto, Lucy; Sheeran, Lori; Matheson, Megan; Li, Jinhua; Wagner, Steven	Investigation of possible impacts of tourist density, behavior, and decibel level on Tibetan macaque aggression	Dr. Lori Sheeran, Anthropology/Resource Management
8:20	5b	McCarthy, Maureen; Jensvold, Mary Lee; Fouts, Roger; Fouts, Deborah	Space use in captive chimpanzees	Dr. Mary Lee Jensvold, CHCI
8:40	5c	Hartel, Jessica; Matheson, Megan; Sheeran, Lori; Li, Jin-Hua; Wagner, Steven	POST-CONFLICT and Self-Directed Behaviors in a Population of Tibetan Macaques (<i>Macaca thibetana</i>) at Mt. Huangshan, China	Dr. Megan Matheson, Psychology
9:00	5d	Jensvold, Mary Lee; Sheeran, Lori; Halberg, Rachel; Keyser, Jennifer;	Laughter, number of play partners, and play bout duration in captive chimpanzees (<i>Pan troglodytes</i>)	Institute: CHCI
Session 6: Physics (Oral Presentations 9:50-11:30 in 135)				
9:50	6a	Petersen, Travis; Piacsek, Andrew	Predicted Environmental Noise Impact of the Proposed Kittitas Wind Power Project	Dr. Andrew Piacsek, Physics
10:10	6b	Smith, Anthony; Piacsek, Andrew	Elastic and vibrational properties of a regular tensegrity structure	Dr. Andrew Piacsek, Physics
10:30	6c	Kendall, Taylor; Cross, David	Use of a small volume sodium iodide detector for observation of cosmic rays.	Dr. Michael Braunstein, Physics
10:50	6d	Cross, David	The effect of pulse duration on laser-induced damage by 1053-nm light in potassium dihydrogen phosphate crystals	Dr. Michael Braunstein, Physics; Dr. C. W. Carr, Lawrence Livermore National Laboratory

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Session 7: Biological Sciences (Oral Presentations 9:50-11:30 in 137A)				
9:50	7a	Belmont, Susan	Detection and prevalence of <i>Bactrachochytrium dendrobatidis</i> in Washington State.	Dr. Steven Wagner, Dr. James Johnson, Biological Sciences
10:10	7b	Mullen, Lindy; Wagner, Steven; Irwin, Jason	Consequences of dissolved oxygen and temperature on the respiration of Pacific Northwest stream associated salamanders.	Dr. Steven Wagner, Biological Sciences
10:30	7c	Heer, Tajinder; Crisafulli, Charlie	Phylogeography Of A Rare Endemic Mature Forest-Associated Salamander (<i>Plethodon vandykei</i>)	Dr. Steven Wagner, Biological Sciences
10:50	7d	Corrigan, Shawn; Irwin, Jason	When is a yellowjacket supercool?	Dr. Jason Irwin, Biological Sciences
11:10	7e	Bauer, Blake	The ecology of the rubber boa (<i>charina bottae</i>) in Kittitas County, Washington	Dr. Daniel Beck, Biological Sciences
Session 8: Resource Management (Oral Presentations 9:50-11:30 in 137B)				
9:50	8a	Collins, Matthew	The effects of migration distance on the energetics, morphology and reproduction of coho salmon (<i>Oncorhynchus kisutch</i>) in the Wenatchee River.	Dr. Anthony Gabriel, Resource Management/Geography and Land Studies; Dr. Paul James, Biological Sciences; Dr. Laurie Weitkamp, NOAA Fisheries
10:10	8b	Didricksen, Daniel	Using benthic macroinvertebrates to evaluate stream habitat for steelhead trout (<i>Oncorhynchus mykiss</i>) reintroduction	Dr. Anthony Gabriel, Dr. Karl Lillquist, Resource Management/Geography and Land Studies; Dr. Paul James, Biological Sciences
10:30	8c	Vasereno, Amy	Recruitment viability, habitat analysis, and proposed management strategies for <i>Margaritifera falcata</i> populations in the Yakima River Basin, WA.	Dr. Gina Bloodworth, Dr. Allen Sullivan, Resource Management/Geography and Land Studies
10:50	8d	Tyler, Kevin	Biological Soil Crusts: Analysis of Monitoring Techniques at the Yakima Training Center	Dr. Karl Lillquist, Resource Management/Geography and Land Studies
11:10	8e	Rhoades, Janet; Perkins, Andrew	Classification and distribution of lake types in Washington State	Dr. Anthony Gabriel, Dr. Karl Lillquist, Geography and Land Studies/Resource Management
Session 9: English (Oral Presentations 9:50-11:30 in 140)				
9:50	9a	Durgan, Jessica	Who read what?: Depictions of reading in nineteenth-century British novels	Dr. George Drake, English
10:10	9b	Amad, Margaret	The artist's vision: a struggle for freedom	Dr. Chris Schedler, English
10:30	9c	Peters, Lucas	The scaffolds of literature: an examination of A	Dr. Laila Abdalla English

Time	No.	Author(s)	Presentation Title	Mentor(s)/Department(s)
			Heartbreaking Work of Staggering Genius	
10:50	9d	Wilson, Shannon	Motherhood and power in Toni Morrison's <i>Beloved</i>	Dr. Chris Schedler, English
11:10	9e	Collucci, Paula	Okonkwo's <i>Gender Trouble</i>	Dr. Paulus Pimomo, English
Session 10: Chemistry (Oral Presentations 1:10-2:50 in 135)				
1:10	10a	Salim, Nicholas; Collar, Catharine; Abdul-Wahid, Sarah; Fabry-Asztalos, Levente; Andonie, Razvan	Fuzzy-neural network predictions of ic50 values for potential hiv-1 protease inhibitors	Dr. Levente Fabry-Asztalos, Chemistry; Dr. Razvan Andonie, Computer Science
1:30	10b	Biles, Heather; Fabry-Asztalos, Levente; Collar, Catharine; Ellis, Michael	Analyzing Force Field and Charge Conditions to Enhance Biological Activity Predictions of Cathepsin D Inhibitors	Dr. Levente Fabry-Asztalos, Chemistry
1:50	10c	Groce, Lindsay	New phosphors for modern display applications	Dr. Anthony Diaz, Chemistry
2:10	10d	Barker, Grant	The real time measurement of hydrogen peroxide produced by mitochondria under conditions of oxidative stress: Does complex II contribute?	Dr. Carin Thomas, Chemistry
2:30	10e	Paulk, Nicole; Key, Jennifer; Johansen, Anne	Iron photochemical dissolution in simulated marine aerosols enhanced by methanesulfinic acid.	Dr. Anne Johansen, Chemistry
Session 11: Biological Sciences (Oral Presentations 1:10-2:50 in 137A)				
1:10	11a	Betz, Jonathan; Cottrell, Tom	The role of fire disturbance in forest plant community seed rain	Dr. Tom Cottrell, Biological Sciences
1:30	11b	Higa, Midori; Collins, Matthew; Heniff, Keri	Pedestrian door use at Brooks E. Library at Central Washington University	Dr. Lixing Sun; Biological Sciences
1:50	11c	Dziubek, Chris	A whole genome similarity comparison between <i>Nuphar</i> and <i>Nymphaea</i>	Dr. Linda Raubeson, Biological Sciences
2:10	11d	McCoy, Skip; Kuehl, Jennifer; Boore, Jeffrey; Raubeson, Linda	The complete plastid genome sequence of <i>Welwitschia mirabilis</i> .	Dr. Linda Raubeson, Biological Sciences
2:30	11e	Raubeson, Linda	Seed plant phylogeny based on sequences from 61 (mostly) shared plastid genes	Department: Biological Sciences
Session 12: Anthropology & Resource Management (Oral Presentations 1:10-2:50 in 137B)				
1:10	12a	Lubinski, Patrick; Shapley, Jake; Barton, Bax; Lillquist, Karl; Uebelacker, Morris	Initial excavations at the Wenas Creek mammoth site near Selah, Washington	Department: Anthropology
1:30	12b	Karlson, Ryan	Investigation of ice age flood geomorphology and stratigraphy in Ginkgo Petrified Forest State Park, Washington: Implications for park interpretation	Dr. Karl Lillquist, Resource Management
1:50	12c	Fitzpatrick, Josh	The Need for Instream Flow Protection in New	Dr. Gina Bloodworth, Resource

Time	No.	Author(s)	Presentation Title	Mentor(s)/Department(s)
			Mexico: A Comparative Analysis of Yakima River Basin Farmers with San Juan River Basin Farmers	Management/Geography and Land Studies
2:10	12d	Swan, Luke	Alternative representations of stream-channel dynamic in the Naches River, WA: Hydraulic assessment with a management focus	Dr. Anthony Gabriel, Dr. Graeme Aggett, Dr. Karl Lillquist, Resource Management/Geography and Land Studies
2:30	12e	Snider, Todd	The conversion of private timberlands to residential development in Upper Kittitas County, Washington	Dr. Gina Bloodworth, Dr. Robert, Kuhlken, Resource Management/Geography and Land Studies
Session 13: Philosophy & Anthropology (Oral Presentations 1:10-2:50 in 140)				
1:10	13a	Nelson, Valerie	Stairway to heaven	Dr. Heidi Szpek, Philosophy
1:30	13b	Fairfield, Randy	The social construction of tolerance: from narrow-mindedness towards softheadedness	Dr. Heidi Szpek, Philosophy
1:50	13c	LeMieux, Adam	Islamic law: the need for western understanding	Dr. Heidi Szpek, Philosophy and Religious Studies
2:10	13d	Charlebois, Mikelle	Myths Across Cultures: Oedipus and the Great Flood	Dr. Lene Pedersen, Anthropology
Session 14: Art & Music (Oral Presentations 1:10-2:50 in 202)				
1:10	14a	Sherwin, Michael; Grases, Christian; Scherperel, Stefan	Translations of Lorca; Sharing an experience in cross-disciplinary collaboration	Department: Art
1:30	14b	Steinert, Brent	Practical solutions for developing jazz rhythm sections	Chris Bruya, Music
1:50	14c	Petchprapa, Ninee	Thai flute and Thai music	Dr. Hal Ott, Music
Session 15: Chemistry & Geological Sciences (Oral Presentations 3:00-5:00 in 135)				
3:00	15a	Klein, William; Bullock, Eric	Incorporation of Guest Molecules on the Self-Assembled Supramolecular Complex on Graphite	Dr. Eric Bullock, Chemistry
3:20	15b	Johnston, Justin; Anne Johansen; Eric Bullock; Carin Thomas	Method development for the collection and analysis of atmospheric ultrafine particles for their use in toxicological studies on mitochondria	Dr. Anne Johansen, Chemistry
3:40	15c	Bullock, Eric; Lamberte, Travis; Wagner, Steven	Aggregation and toxicity of buckminsterfullerene in water	Department: Chemistry
4:00	15d	Gilliam, Katharine	Acid drainage and metal ion transport at Holden Mine, Lake Chelan, Washington	Dr. Paul Hoskins, Geological Sciences
4:20	15e	Trosper, Tabitha	Geomorphic Characterization of La Alberca	Dr. Lisa Ely, Geological Sciences

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			archaeological site in Michoacan, Mexico	
4:40	15f	Gazis, Carey; Taylor, Sarah	Geochemical studies of surface water-groundwater interactions in the upper Yakima River drainage, Washington	Department: Geological Sciences
Session 16: Biological Sciences (Oral Presentations 3:00-4:40 in 137A)				
3:00	16a	Peery, Rhiannon	Comparisons of three Apiaceae (parsley family) chloroplast genomes: dill, fennel and coriander	Dr. Linda Raubeson, Biological Sciences
3:20	16b	Fry, Joseph; Cox, Stanley	Deep east-west division of the wood frog, <i>Rana sylvatica</i> based on the sequence analysis of the cytochrome <i>b</i> mitochondrial gene.	Dr. Jason Irwin, Biological Sciences; Dr. Steven, Wagner; Biological Sciences
3:40	16c	Irwin, Jason; Wagner, Steven	Natural freezing in Pacific treefrogs (<i>Hyla regilla</i>) overwintering at Engelhorn Pond, Ellensburg, WA	Department: Biological Sciences
4:00	16d	Johnson, James; Chestnut, Tara; Wagner, Steven	Synergistic interactions among a herbicide and amphibian pathogens: a potential evolutionary arms race	Department: Biological Sciences
4:20	16e	Weaver, Robert; Darda, David	Natural history of the ring-neck snake (<i>Diadophis punctatus</i>) and the sharp-tailed snake (<i>Contia tenuis</i>) in Washington	Department: Biological Sciences
Session 17: Family and Consumer Sciences, Resource Management, & Geology (Oral Presentations 3:00-4:40 in 137B)				
3:00	17a	Bui, Bryce	The Roslyn Experience Audio Guide	Dr. Dorothy Chase, Family and Consumer Sciences
3:20	17b	Sainsbury, Benjamin	Crucifixion Cave - the resurrection: a photomonitoring GIS procedure to evaluate visitor impacts in the last 15 years	Dr. Robert Hickey, Resource Management/Geography and Land Studies
3:40	17c	Cordner, David	Community places: mapping landscape meaning in the community of Ellensburg, WA	Dr. Anthony Gabriel, Dr. Robert Kuhlken, Resource Management/Geography and Land Studies; Dr. Steven Hackenberger, Resource Management/Anthropology
4:00	17d	Fairbanks, Marc	An examination of geovisualization using building and power infrastructure development projects.	Dr. Robert Hickey, Resource Management/Geography and Land Studies
4:20	17e	Westrich, Ahnna	A computational approach to understanding magma chamber processes: application of the energy-constrained eruption, recharge, assimilation, fractional crystallization (EC-ERAFC) model and MELTS algorithm	Dr. Wendy Bohrson, Geological Sciences
Session 18: Political Science (Oral Presentations 3:00-4:40 in 140)				

Time	No.	Author(s)	Presentation Title	Mentor(s)/Department(s)
3:00	18a	Angelier, Mario	The struggle for new teachers	Dr. Rex Wirth, Political Science
3:20	18b	Maley, Maley Eileen	Toward peace: Peaceful policy methods in the Middle East as a deterrent to future terrorism	Dr. Rex Wirth, Political Science
3:40	18c	Libby, Kimberly	Better nutrition for low income families: can the current food stamp program become more effective?	Dr. Rex Wirth, Political Science
4:00	18d	Leadingham, Scott	Washington water law: Is the prior appropriations doctrine still the right choice?	Dr. Rex Wirth, Political Science; Dr. Allen Sullivan, Geography and Land Studies
Session 19: Psychology, Education & Law and Justice (Oral Presentations 3:00-4:40 in 202)				
3:00	19a	Downs, Robyn Conley	Using best practices to create an early intervention program for young children with autism spectrum disorder	Dr. Debra Prigge, Education
3:20	19b	Bush, Elizabeth	Music therapy for college depression	Dr. Robert Sorrells, Psychology
3:40	19c	Hughes, Tycy; Saltzman, Kurt; Stroh, Colin; Britto, Sarah	What's So Special About "Law and Order: Special Victims Unit"?	Dr. Sarah Britto, Law and Justice
4:00	19d	Elerson, Sarah; Eshghi, Breanna	Education denied: drug offenders attempt to reform.	Teresa Francis, Law and Justice

Schedule of Poster Presentations

Session 20 (Posters in Ballrooms A & B) Authors present during session 9:50-11:30				
	20a	Shank, Lindsey; Lenington, Matt; Moon, Curtis; Pinkart, Holly; Johansen, Anne	Siderophore producing microorganisms in the marine atmosphere	Dr. Anne Johansen, Chemistry
	20b	Jorgensen, Ryan	Functionalization and characterization of a silica gel surface	Dr. JoAnn DeLuca, Chemistry
	20c	Scott, Elizabeth	Spectroscopy and kinetics: determining reaction order via colorimetry.	Dr. Timothy Sorey, Chemistry
	20d	Schiro, Alenda	Preparation and attachment of binding molecules to a silica surface.	Dr. JoAnn Deluca, Chemistry
	20e	Bryner, Stephanie	The Effect of Crystal Violet on Cellular Respiration	Dr. Carin Thomas, Chemistry
	20f	Atkins, Ryan	Synthesis and Characterization of $\text{SrY}_2\text{O}_4:\text{Eu}^{3+}$	Dr. Anthony Diaz, Chemistry
	20g	Posekany, Robert	Synthesis and study of two silyl phosphonates	Dr. JoAnn Deluca, Chemistry
	20h	Nguyen, David	Determination of reduction potentials at non-standard states for aqueous metallic ions via coulometry	Dr. Timothy Sorey, Chemistry; Dr. John R. Amend, Montana State University, Chemistry and Biochemistry

Time	No.	Author(s)	Presentation Title	Mentor(s)/Department(s)
	20i	Heer, Tajinder; Nguyen, David; Jia, Yinshan	Synthesis of Novel Boronated HIV-1 Protease Dual-Mode Inhibitors	Dr. Levente Fabry-Asztalos, Chemistry
	20j	Salim, Nicholas; Noridomi, Kaori; O'Connell, Tracy; Fabry-Asztalos, Levente	Synthesis of 5,6-dihydropyran-2-one analogues as potential hiv-1 protease inhibitors	Dr. Levente Fabry-Asztalos, Chemistry
	20k	Bjorge, Krista	Kinetics and spectroscopy: Determination of reaction rate via fluorimetry	Dr. Timothy Sorey, Chemistry
	20l	Bulfinch, Vaughan	Preparation of template imprinted silica gel	Dr. JoAnn DeLuca, Chemistry
	20m	Warren, Cassandra	Kinetics and Spectroscopy; Determination of Reaction Order via Turbidity	Dr. Timothy L. Sorey, Chemistry
	20n	Smith, Talitha	Milltown dam removal	Dr. Gina Bloodworth, Geography and Land Studies
	20p	Brossy, Cooper; Ely, Lisa	Fluvial response to intra-canyon lava flows, southeast oregon	Dr. Lisa Ely, Geological Sciences
	20q	Mattos, Seth	Deciphering the signature of magma mixing: examples from the Castle Creek eruptive period, Mount St. Helens, Washington	Dr. Wendy Bohrson, Dr. Paul Hoskin, Geological Sciences; Dr. Michael Clynne, United States Geological Survey
	20r	Gray, Brian; Rubin, Charles; Chen, Wen-Shan; Chen, Yue-Gau	Long-term slip rates of the Longitudinal Valley Fault inferred from uplifted terraces of the Bieh River, eastern Taiwan	Dr. Charles Rubin, Geological Sciences
	20s	Tebbe, Michelle	Constraints on the formation conditions of Ellensburg blue agate and moganite (SiO ₂).	Dr. Paul Hoskin, Geological Sciences
	20t	Tiedeman, Andrew; Alm, Steve	Looking past faults: correlation of the Chiwaukum Schist and the Tonga Formation, North Cascades, Washington.	Dr. Paul Hoskin, Geological Sciences
	20u	Buswell, Tessa; Trospen, Tabitha; Ely, Lisa; Gabany-Guerrero, Tricia; Cid-Aguero, Pedro; Hackenberger, Steve	Tephrochronology and geomorphology at an archeological site in the Mexican Volcanic Belt	Dr. Lisa Ely, Geological Sciences
	20v	Hayes, Callie; Bohrson, Wendy; Gazis, Carey; Ferland, Marie; Brugger, Carrie; Salisbury, Morgan	Teaching geology students about water quality: integrating chemical data analysis and interpretation into general education geology classes	Dr. Carey Gazis, Geological Sciences
	20w	Carpenter, Korin; Jones, Zach; Hayes, Callie	The influence of sediment size and lithology on plant density and diversity, Sonoran Desert, Baja California, Mexico	Dr. Lisa Ely, Geological Sciences; Dr. Daniel Beck, Biological Sciences
	20x	Walker, Kurt	Using geomorphic techniques to characterize structural geometry of folding and faulting, Yakima Fold and Thrust Belt, Washington.	Dr. Jeffrey Lee, Geological Sciences
	20y	Huddleston, Kimberly	STEP (Science Talent Expansion Program): The data and response behind the three-year pilot program.	Dr. Martha J. Kurtz, Science Education

Time	No.	Author(s)	Presentation Title	Mentor(s)/Department(s)
	21a	Cartmell, Kathleen; Trosper, Tabitha; Duke, Paul	Lichen habitat preference and diversity on boulders in the Sonoran Desert of Baja California, Mexico	Dr. Dan Beck, Dr. Steven Wagner, Biological Sciences; Dr. Lisa Ely, Geological Sciences
	21b	Gilliam, Katharine; Ebinger, Sara; Coward, Kanani	Comparison of reptile species diversity between the Catalina boulder field and Bahia de los Angeles habitats of the Sonoran Desert	Dr. Daniel Beck, Biological Sciences; Dr Lisa Ely, Geological Sciences
	21c	Berkley, Amy; Poulson, Mary	Production of dehydrin proteins as a mechanism for enhanced environmental stress tolerance in plants grown under ambient ultraviolet-B radiation	Dr. Mary Poulson, Biological Sciences
	21d	Margheim, Stephanie; Feysa IV, Peter; Murphy, Nicole	Chloroplast genome rearrangements in Pinaceae	Dr. Linda Raubeson, Biological Sciences
	21e	Aragon, Anna	Sulfate-reducing bacteria of Soap Lake	Dr. Holly Pinkart, Biological Sciences; Dr. Steven Wagner, Biological Sciences
	21f	Smith, Cailin; Wagner, Steven; Matheson, Megan; Sheeran, Lori; Li, Jinhua	Population monitoring of the mountain stream frog (<i>Rana spinosa</i>) in Huangshan, China.	Dr. Steven Wagner, Biological Sciences
	21g	Maitem, Stephanie	Characterization of cell differentiation using viral transduction and immunocytochemistry	Dr. Daniel Selski, Biological Sciences
	21h	Cusack, Alicia	Interaction of morphological color change and demography in <i>Hyla regilla</i> .	Dr. Steven Wagner, Biological Sciences
	21i	Watanabe, Miho	Using XML and SVG to generate dynamic UML diagrams	Dr. Ed Gellenbeck, Computer Science
	21j	Dickinson, Jared; Hovey, Greg; Matanane, Kenny; Schaefer, Tracy; Garver, Matt; Nielsen, Leland; D'Acquisto, Leo; Nethery, Vince; Bergman, Ethan	Metabolic and cardiovascular responses to running on sloping surfaces	Dr. Leo D'Acquisto, Dr. Vince Nethery, Dr. Ethan Bergman, Health, Human Performance, and Nutrition
	21k	Nielsen, Leland; Garver, Matt; Dickinson, Jared; Campbell, Derek; Papadopoulos, Charilaos	Physiological and Metabolic Responses During Two Self Selected Cycling Time Trials	Dr. Charilaos Papadopoulos, Health, Human Performance, and Nutrition
	21m	Twaddle, Brent; Papadopoulos, Charilaos	Influence of the built environment on physical activity of adults in a small ural community.	Dr. Charilaos Papadopoulos, Health, Human Performance, and Nutrition
	21n	Fernyhough, Liane; Wiseley, Laura	A comparative study of dietary and health-related risk factors of Mexican women in Morelia and Mexican-American women in Yakima Valley	Dr. Virginia Bennett, Dr. David Gee, Dr. Ethan Bergman, Health, Human Performance, and Nutrition
	21o	Damian, Letitia; McCorquodale, Kim; Richardson, Amanda	Evaluation of sensory and objective changes to a fruit-based smoothie after the addition of two different quantities of tri-calcium citrate	Dr. David Gee, Health, Human Performance, and Nutrition
	21p	Cleveland, Megan; Erickson, Rosanna; Brown, Shawn	Benefat is a successful partial fat substitute in chocolate cake	Dr. David Gee, Health, Human Performance, and Nutrition

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	21q	Alsoszatai-Petheo, Andrew	How to set up a digital signature	Dr. David Rawlinson, Information Technology and Administrative Management
	21r	Schill, Wyatt	Radio frequency identification use in schools	Dr. David Rawlinson, Dr. Robert A. Lupton, Dr. V. Wayne Klemin, Information Technology and Administrative Management
	21s	Brown, David; Larson, Carlee	Do the "best" golfers break the bank?	Dr. Yvonne Chueh, Mathematics
	21t	Mun, Stephen	Statistics and the Stock Market	Dr. Yvonne Chueh, Mathematics
	22a	Andrews, Tracy; Gray, Ian; Sainsbury, Ben; Aronica, Tony; Naragon, Jan	Environment, migration histories, and childhood health: uses of folk healing and biomedicine among Hispanic families in central Washington	Department: Anthropology
	22b	Muramoto, Minori	Analysis of Historic Glass from the Grissom Site (45KT301)	Dr. Patrick Lubinski, Anthropology
	22c	Simmons, Stephanie	A preliminary analysis of historic ceramics from a late nineteenth century chinese community in ellensburg	Dr. Patrick Lubinski, Anthropology
	22d	Shapley, Jake; Barton, Bax; Lubinski, Patrick;	Preliminary attempts at taxonomic identification of the wenas creek mammoth	Dr. Patrick Lubinski, Anthropology
	22e	Fairbanks, Marc	The Tryon Creek site revisited, Hells Canyon, OR: 3-D Visualization and Statistical Analysis	Dr. Steven Hackenberger, Resource Management/Anthropology
	22f	Hoang, David	Transfigured	Brian Goeltzenleuchter, Art
	22g	Carson, Eric	Everything Theory	Brian Goeltzenleuchter, Art
	22h	Johnson, Mary	(I love you).	Brian Goeltzenleuchter, Art
	22i	Karl, Keri	"I don't want no change:" A study of multiple negation.	Dr. Natalie Lefkowitz, Foreign Languages
	22j	Adamson, Rebekah	¿Somos parientes? : a study on the linguistic parallels between Chabacano and Spanish	Dr. Natalie Lefkowitz, Foreign Languages
	22k	Lloyd, Nicole	What an ass!:The use of animal references for men and women	Dr. Natalie Lefkowitz, Foreign Languages
	22l	Sun, Key	Chinese brush paintings	Department: Law and Justice
	22m	Castro, Julie	Art and the Holocaust: An Artist's Story	Dr. Heidi Szpek, Philosophy
	22n	Lybbert, Susan	WASL: Alternatives to High Stakes Testing	Dr. Rex Wirth, Political Science
	22o	Sorrells, Robert; Chang, Katherine	What develops in the development of art appreciation?	Department: Psychology
	22p	Sorrells, Robert; Robinson, Elizabeth; Lutz, Lauren	FlexArt	Department: Psychology
	22q	Brett, Brandi; Williams, Wendy	Gender difference in the perception of rape	Dr. Wendy Williams, Psychology
	22r	Robinson, Ellie; Lutz, Lauren; Szymanska, Ewa; Sorrells, Robert	FlexArt: a test of creativity	Dr. Robert Sorrells, Psychology

Time	No.	Author(s)	Presentation Title	Mentor(s)/Department(s)
	22s	Lance, Leslie; Grundberg, Mark	Religious Upbringing & Shame-proneness	Dr. Marte Fallshore, Psychology
	22t	Schmidt, Emily; Wederquist, Carman; Aydelott, Serena; Fallshore, Marte	Recycling and canvas bags: Can charging people increase recycling?	Dr. Marte Fallshore, Psychology

Session 23 (Source Poster / Cover Design Competition in Ballrooms A & B)				
Session 24 (Manastash Showcase 9:50-11:30 in 202)				
		Whitcomb, Katharine	Manastash Showcase	Department: English