Presenter	Title	Description	MCLT RCTR	Start -End	Day
Sam Angel	Fluvial Geomorphic Response to the Milltown Dam Removal, 7 Miles East of Missoula, Montana	The Milltown Dam was classified as a national superfund site due to toxic sediments stored in the dam's reservoir, which motivated one of the largest dam removal projects to date. This project addresses fluvial geomorphic responses to the dam removal.	109	8:00 - 8:20 AM	S
Ana Lara- Medellin	Holocene climate and circulation indicators in upwelling dominated continental margins	Taxa, δ 18O, % organic carbon, and lithology record processes and mechanisms of atmospheric and oceanic circulation. The Holocene paleoclimatic and paleoceanographic records help to understand future implications for climate variability.	109	8:20 - 8:40 AM	S
Blake Warner	A Comparison of Earthquake and Landslide Induced Tsunami Deposits	Characteristics of tsunami deposits are compared to determine if they reflect triggering mechanisms of tsunamis. Parameters examined are the thickness of the deposits, grain size distribution, composition, fossils, and sedimentary structures.	109	8:40 - 9:00 AM	S
Tim Cammann	A Microstructural and Petrographic Analysis of the Fractured Member Basalts in the Crescent Formation of the Olympic Peninsula, Washington	Petrographic and microstructural analyses of the Fractured Member from the Crescent Formation in Washington State can lead to a better understanding of the formation of both the Olympic Peninsula and the Crescent Formation.	109	9:00 - 9:20 AM	S
Maxwell Silver	How has the bathymetry of Commencement Bay, Washington changed since 1888?	A study of depth soundings taken by various agencies to investigate changes to Commencement Bay, Washington and differentiate between natural and human causes.	109	9:20 - 9:40 AM	S
Gray Endicott	A Mineralogical Analysis of Manganese Ore from the Tubal Cain Group of the Northern Olympic Peninsula, Washington	Manganese ore collected from the Tubal Cain group of Jefferson County, Wa, was analyzed using optical and electron microscopy. The Mineralogy was compared to that of other mines in the Olympics as well as to determine the paragenesis of the ore body.	109	9:40 -10:00 AM	l S

Presenter	Title	Description	MCLT RCTR	Start -End	Day
		BREAK		10:00 -10:20 AM	—— I
Riley Swanson	Glacial Retreat on Mount Rainier: Past, Present, and Future	This project tracks the spatial and temporal retreat of seven glaciers on Mount Rainier. Field and computer mapping show the moraine chronology since the late Pleistocene. Modeling will track possible glacial responses to climate change.	109	10:20 -10:40 AM	1 S
Katherine Harlan	The Impact of El Nino Events on Coastal Erosion and Hazards in the PNW	This project investigates how El Nino events impact the Pacific Northwest coastal erosion. Sites: Cape Shoalwater, WA and Yaquina Bay, OR. Both areas are populated with beach communities and have recorded major shoreline changes in recent decades.	109	10:40 -11:00 AM	1 S
Taylor Christensen	Suspended sediment concentrations in glacial meltwater on Mount Rainier, WA	Suspended sediment in glacial meltwater can show how fast glaciers erode, how much sediment is carried by the meltwater stream, and how sediment concentrations vary diurnally, seasonally, and interannually.	109	11:00 -11:20 AM	1 S
Courtney Serad	Interplay Between bank Erosion and Hillslope Stability: Oso, Washington	Key Factors in hazard assessment of areas at risk for sliding based on an analysis of the Oso Landslide.	109	11:20 -11:40 AM	1 S
Nichole Rathbun	Modeling Glacial Change in the Antarctic Peninsula.	Calving glaciers in Marguerite Bay and in the northwest Weddell Sea were modeled to provide insight on climate change responses on the Antarctic Peninsula.	109	11:40 -12:00 PM	1 S
	In Morken Center 103	COMPLIMENTARY PIZZA	103	12:00 -12:30 PM	l
		BREAK		12:30 - 1:00 PM	

Presenter	Title	Description	MCLT RCTR	Start -End	Day
Greg Hibbard	Projecting the Effect of Global Carbon Emission Pathways on Future Climate	This study builds off of my economic capstone which determined a date of global independence from fossil fuel energy. Using different emission pathways in a global climate model, I predict plausible long-term future climatic conditions.	109	1:00 - 1:20 PM	S
Elizabeth Tapler	An analysis of the aquifer potential beneath Pacific Lutheran University's campus for use in expanding Ground Source Heat Pumps applications	Can PLU heat and cool campus thru use of groundwater source heat pumps? Well tests and aquifer analysis research provide data to assess the hydrologic properties beneath PLU's campus.	109	1:20 - 1:40 PM	S
Adam Smith	Migmatite Dynamics of the Sandia Mountains, NM	In this study, migmatite in the contact zone of the Sandia Pluton in New Mexico was studied using textural and compositional data. The primary goal was to determine its formation history, and determine if partial melting or metasomatism with nearby granit	109	1:40 - 2:00 PM	S
Matt Lindmark	Hicks Butte Tonalite Symplectites and the Easton Metamorphic Suite	Mapping and sample analysis has revealed that the margins of Hicks Butte show mineral textures that are concordant with subduction related textures in neighboring rocks; this suggests Hicks Butte was related to subduction related tectonics nearby	109	2:00 - 2:20 PM	S
		BREAK		2:20 - 2:40 PM	
Cody Driscoll	The Geochemical Record of Cretaceous Oceanic Anoxic Event 2 in the Atlantic Ocean.	Geochemical parameters including organic carbon content, $\delta 13C$, %CaCO3 and trace metals were examined in order to assess the intensity of OAE-2 in the Atlantic Ocean, with an emphasis on the influence of basin bathymetry and geometry.	109	2:40 - 3:00 PM	S

Presenter	Title	Description	MCLT RCTR	Start -End	Day
Ryan Radke	Precipitation and a Changing Climates Effects of Mass Wasting and Slope Stability, Seattle, WA	This study was conducted to determine how precipitation, climate change, and geology of the area all work together to cause mass wasting in Seattle. A look at past and resent precipitation data and landslide data was the base for the study	109	3:00 - 3:20 PM	S
Isaac Moening- Swanson	A Glacial Geologic History of Tucker Glacier, Antarctica	Tucker glacier terminates in the Ross Sea near the edge of the ice sheet during the last glacial maximum. Elevations of erratics were taken to identify past ice thickness. These elevations constrain Antarctic contributions to sea-level rise.	109	3:20 - 3:40 PM	S
Hallie Peterson	Potential Geothermal Energy Production at Oceanic Ridges	On the bases of spreading rate, heat flow, and ridge geometry, three ridges have been analyzed to determine an optimal set of mid-ocean ridge characteristics for utilizing geothermal energy present at seafloor spreading centers.	109	3:40 - 4:00 PM	S