Program for 2006 PERS meeting

Thursday, 16 February

1900 – 2130 President's Welcome followed by Evening Social and a special surprise event

Friday, 17 February

0830 – 0840 Welcome
Ken Sebens; Director, Friday Harbor Laboratory

0840 – 0945 *The loss of nature and the nature of the loss: sense of place Biophilia and the importance of education*
Paul Dayton; Professor, Scripps Institution of Oceanography

0945 – 1000 Break

1000 – 1200 **Oral Session I** (15 minutes each)

Estimating phytoplankton advection at Lofall, Hood Canal using an interdisciplinary technique
Eva Dusek; University of Washington

Results from the regional Spartina dispersal study (September 2004 – January 2006)
Vanessa M. Howard and Mark Sytsma; Portland State University

Salt marsh habitat assessment and restoration in the Gorge Waterway and Portage Inlet
Sarah E. Pearce and Rosaline R. Canessa; University of Victoria

Where the wild fish are: Natural isotope indicators of juvenile Chinook life histories in the Columbia River estuary
Greer Anderson and Charles "Si" Simenstad; University of Washington

Biological invasion threatens habitat essential for young-of-year rockfish in a large urban estuary
Jessica Hayden-Spear, Terrie Klinger, Kevin Britton-Simmons, and Don Gunderson; University of Washington

Characterizing restoration trajectories through food web linkages in San Francisco Bay's estuarine marshes
Emily R. Howe and Charles "Si" Simenstad; University of Washington

Ecosystem-based marine conservation planning in the San Juan Islands
Kirsten Evans and Jody Kennedy; University of Washington and San Juan County Marine Resources Committee

An ethnobotanical study of the Kwakwaka'wakw traditional harvesting of eelgrass, Zostera marina L.; Zosteraceae
Severn Cullis-Suzuki[1], Chief Adam Dick (Kwaxsistala)[2], Daisy Sewid-Smith (Mayanilth)[2], Nancy Turner[3], and Sandy Wyllie-Echiverria[4]; [1]University of Victoria, [2]Kwakwaka'wakw Nation, [3]University of Washington

1215 – 1315 Lunch

1315 – 1345 Business Meeting

1400 – 1600 **Poster Session I** (begins with 15 minute overview)

Using historical data to explore trends in floating kelp along the Strait of Juan de Fuca and outer coast of Washington State
Helen Berry, Pete Dowty, Philip Bloch, and Tom Mumford; Washington State Department of Natural Resources

Plankton dynamics of the lower Columbia River estuary
Rian Hooff[1], Stephen M Bollens[1], Gretchen Rollwagen Bollens[1], Angela Gibson[1], Ian McComas[1], Olga Kalata[1], and Curtis Roegner[2]; [1]Washington State University Vancouver, [2] NOAA Fisheries

Water quality properties of south Puget Sound basin: Spatial and annual observations 1997-2004
Julia K. Bos and S.A. Albertson; Washington State Department. of Ecology

Assessment of seed collection as a method of Zostera marina restoration in small costal embayments in San Juan County
Galen Boydston, Emily Bush, Tristan Delahunt, Camilla Loyd, Rebecca Wyllie-Echeverria, and Tessa Wyllie-Echeverria; Waldron Island Alternative High School

How mud shrimp Upogebia pugettensis (Dana, 1852) got big new bumps
J.W. Chapman[1], Brett R. Dumbauld[2], Lee McCoy[2], Andrew Smith[3], John C. Markham[4] and Gyo Itani[5]; [1]Oregon State University, [2]U.S. Dept. of Agriculture, [3]University of Wisconsin-Stout, [4]Arch Cape Marine Laboratory, [5] Kochi University

Recent results from annual monitoring of eelgrass (Zostera marina) area in greater Puget Sound
Pete Dowty[1], Blain Reeves[1], Helen Berry[1], Mike Hannam[1], Tom Mumford[1] and Sandy Wyllie-Echeverria[2]; [1]Washington State Department of Natural Resources, [2]University of Washington

The interaction of oyster aquaculture and burrowing shrimp in Pacific Northwest coastal estuaries: Spatial and temporal scales
Brett R Dumbauld; U.S. Department of Agriculture

A conceptual model of depositional, rather than erosional, tidal channel development in the rapidly prograding Skagit River Delta (Washington, USA)
W. Gregory Hood; Skagit River System Cooperative

Probabilistic survey of fish tissue contamination in west coast estuaries and coastal waters: Results from the National Coastal Assessment 1999-2003
Janet O. Lamberson, Henry Lee II, and Walter G. Nelson; US Environmental Protection Agency

Enhancement of damaged seagrass habitat: A case study in the potential application of Buoy Deployed Seeding
Jennifer Leach[1], Chris Fairbanks[2], Sandy Wyllie-Echeverria[1], and Chris Pickerell[3]; [1]University of Washington, [2]Fairbanks Environmental Services, [3]Cornell Cooperative Extension

Development of a fish-based index of biotic integrity for eelgrass ecosystems of Pacific Rim, Gwaii Haanas and Gulf Islands National Park Reserves
Clifford K. Robinson and Guy Martel; Parks Canada Agency

Protists in a temperate estuary: Diversity, grazing and consumption by Metazoans
Gretchen Rollwagen-Bollens[1], Scott Gifford[2], Angela Gibson[1], and Stephen Bollens[1]; [1]Washington State University, [2]Romberg Tiburon Center for Environmental Studies

Climate-related factors of temperature and sea level affect eelgrass in the Pacific Northwest
R.M. Thom, Amy B. Borde, John A. Southard, and Susan L. Sargeant; Battelle Marine Sciences Laboratory

Documenting Pacific sand lance (Ammodytes hexapterus) spawning habitat in Baynes Sound, East Vancouver Island, British Columbia, and the potential interactions with intertidal shellfish aquaculture
Pam Thuringer; Archipelago Marine Research Ltd.

The sounds of data: A technique to detect variation
Sandy Wyllie-Echeverria[1], B. Odlum[2], Tina Wyllie-Echeverria[3], and Tessa Wyllie-Echeverria[4]; [1]University of Washington [2]P.O. Box 832, Shaw Island, WA, [3]P.O. Box 111, Shaw Island, WA, [4]Griffin Bay School

An ecological analysis of the surfgrass Phyllospadix scouleri in the San Juan Archipelago
Victoria Wyllie-Echeverria[1], Sandy Wyllie-Echeverria[2] and Kern Ewing[2]; [1]University of Victoria, [2]University of Washington

1615 – 1720 *Toward a Sea Ethic*
Dorinda Dallmeyer, Director, Environmental Ethics Certificate Program; University of Georgia

1730 – 1930 **Poster Session II** (begins with 15 minute overview)

The Boundaries Project: Mapping Washington's shoreline for public accessibility and public ownership
Jessica A. Archer and Ryan M. McEliece; Washington State Department of Ecology

A comparison of coastal wetland inventories of British Columbia
N. Borecky[1], John Harper[1], Mary Morris[2], Norm Sloan[3], Patrick Bartier[3], Todd Golumbia[4], and Kathleen Moore[5]; [1]Coastal & Ocean Resources Inc., [2]Archipelago Marine Research Ltd., [3]Gwaii Haanas National Park Reserve, [4]Gulf Islands National Park Reserve, [5]Canadian Wildlife Service

Prioritizing tidal wetland conservation and restoration in midsized estuaries of Oregon, U.S.A.
Laura S. Brophy; Green Point Consulting

How does geoduck aquaculture affect eelgrass in south Puget Sound?
Carrie A. Craig, Kirsten Rowell, and Jennifer L. Ruesink; University of Washington

Measuring the accuracy of seagrass maps produced from video and side scan sonar imagery: Preliminary results for two sites in Yaquina Estuary, Oregon
DeWitt, Theodore H.[1], Andrew Stevens[2], and Alison Hyde[2]; [1]US Environmental Protection Agency, [2]Oregon State University

Evaluating cumulative ecosystem response to restoration projects in the Columbia River estuary: 2005 field studies
Heida L. Diefenderfer, [1], G. Curtis Roegner[2], Ronald M. Thom[1], Allan H. Whiting[3], Amy B. Borde[1], Earl M. Dawley[2], Lee M. Miller[1], Gary E. Johnson[1], Ian A. Sinks[4] and Blaine D. Ebberts[5]; [1]Pacific Northwest National Laboratory, [2]NOAA Fisheries, [3]Columbia River Estuary Study Taskforce, [4]Columbia Land Trust; [5]U.S. Army Corps of Engineers.

The Green Shores Project – A voluntary assessment and ratings program to facilitate sustainable approaches to coastal development
Brian Emmett[1], John Harper[2], John Readshaw[3] and Gretchen Harlow[4]; [1]Archipelago Marine Research Ltd., [2]Coastal and Oceans Resources Inc., [3]Sandwell Inc., [4]The Canadian Wildlife Service

Sawmills, sulfides, and seagrasses: The environmental legacy of historic Tacoma lumber mills and its implications for seagrass restoration
Erin Spear[1], Joel Elliott[1], and Sandy Wyllie-Echeverria[2]; [1]University of Puget Sound, [2]University of Washington

The San Juan County Marine Stewardship Area: Developing a voluntary marine management regime that recognizes the social, economic and ecological values of county water
J. Kennedy and Mary Masters; San Juan County Marine Resource Committee

The Nuu-chah-nulth root garden research project, Clayoquot Sound, Vancouver Island
J.C. Pukonen[1], E. Richard Atleo[2], and Nancy J. Turner[1]; [1]University of Victoria, [2]University of Manitoba

Comparison of two methods of rogue creosote log removal in Padilla Bay, Washington
Sharon R. Riggs and Mary Anderson; Washington State Department of Ecology

Coastal homogenization through oyster introductions: Causes and consequences
J.L. Ruesink and Alan C. Trimble; University of Washington

Assessment of eelgrass (Zostera marina) loss in the San Juan Archipelago
T. Whitman[1], J. Slocomb[1], S. Buffum-Field[1], S. Wyllie-Echeverria[2], E. Grossman[3], R. Takesue[3], T. Mumford[4], H. Berry[4], J. Newton[5], V. Wyllie-Echeverria[6], and A. Boettcher[7]; [1]Friends of the San Juans, [2]University of Washington, [3]U.S. Geological Survey, [4]Washington State Department of Natural Resources, [5]University of Washington, [6]University of Washington Friday Harbor Laboratory, [7]University of South Alabama.

Communities connecting to place: A strategy for eelgrass restoration in British Columbia
Nikki Wright; Seagrass Conservation Working Group

Educational outreach for young boaters
Tessa Wyllie-Echeverria[1] and Rebecca Mason[2]; [1]Griffin Bay School, [2]Spring Street International School

1945 – 2100 Banquet, Friday Harbor Laboratory Dinning Hall

Saturday, 18 February

0830 – 1030 **Oral Session II** (15 minutes each)

Restoration of seagrass communities using seeds: Conservation issues
Jesse J. Campbell and Sandy Wyllie-Echeverria; College of William and Mary, Gloucester, University of Washington

Assessing the ecological connectivity of eelgrass habitats and protected areas: A tail of the population genetic structure of the bay pipefish, Syngnathus leptorhynchus.
Ramona C. de Graaf; University of British Columbia

Japanese eelgrass, Zostera japonica, in Oregon estuaries
Chana M. Dudoit and Daniel O'Leary; Oregon State University

The effects of black brant herbivory and fecal addition on the animal community within an eelgrass bed of Humboldt Bay, CA
Adam J. Frimodig, Susannah L. Ferson, Frank J. Shaughnessy and Jeffrey M. Black; Humboldt State University

Assessing eelgrass transplants in the Squamish Estuary, British Columbia: A case study for community-based coastal restoration
Margot Hessing-Lewis[1], Edith Tobe[2], and Cynthia Durance[3]; [1] Oregon State University, [2]Squamish River Watershed Society, [3]Precision Identification

Science and management of the introduced seagrass Zostera japonica in the Pacific Northwest
Deborah J. Shafer[1] and Sandy Wyllie-Echeverria[2]; [1]University of South Alabama, [2]University of Washington

The effect of nutrient limitation on eelgrass (Zostera marina L.) shoot density in Humboldt Bay, California
Ginger Tennant[1], Frank J. Shaughnessy[1], and Susan Schlosser[2]; [1]Humboldt State University, [2]University of California Sea Grant

Assessing the importance of early life history stages of eelgrass (Zostera marina L.) in response to aquaculture disturbance
Lorena Wisehart and Sally Hacker; Oregon State University

1030 – 1045 Break

1045 – 1200 **Poster Session III** (begins with 15 minute overview)

Depth profiles of Zostera marina throughout the greater Puget Sound: Results from 2002-2004 monitoring data
J.R. Selleck III, Helen Berry*, and Pete Dowty; Washington State Department of Natural Resources

Evaluating factors contributing to tidal wetland community distribution in the Columbia River estuary
Amy B. Borde[1], Heida L. Diefenderfer[1], Kathryn L. Sobocinski[1], Ronald M. Thom[1], Shon A. Zimmerman[1], Allan H. Whiting[2], Lucinda Tear[3], and Blaine D. Ebberts[4]; [1]Pacific Northwest National Laboratory, [2] Columbia River Estuary Study Taskforce, [3]Independent Consultant, [4] US Army Corps of Engineers

The interactive effects of propagule pressure and disturbance regulate invasion by the Japanese seaweed Sargassum muticum
Kevin Britton-Simmons; University of Washington

Distribution of eelgrasses and macroalgae in Padilla Bay, Washington in 1989, 2000, and 2004
Douglas A Bulthuis and Suzanne Shull; Washington Department of Ecology

Invasive tunicates in Puget Sound: An early warning system
Andrea Copping and Simon Geerlofs; University of Washington

Demographic similarities and differences between Zostera japonica in its native (Korea) and introduced (Willapa Bay) habitats
Stacey L.DeAmicis[1], Jae-Sang Hong[2] and Jennifer L. Ruesink[1]; [1]University of Washington, [2]Inha University

Web-based ShoreZone mapping and imagery: Gulf Islands National Park
John R. Harper, Bill Henwood, Todd Golumbia, Brad Mason, Mary Morris and Tara Sharma; Coastal & Ocean Resources Inc., Parks Canada, Fisheries and Oceans Canada, Archipelago Marine Research Ltd. and Parks Canada

Structural complexity of native, naturalized, and invasive ecosystem engineers influence habitat use by subadult Dungeness crab (Cancer magister).
Kirsten H. Holsman, P. Sean Mcdonald, and David A. Armstrong; University of Washington

Energetic trade-offs among potential habitats of an invasive crab: Reconciling a model with empirical results
P. Sean McDonald[1], K.K. Holsman[1], D.A. Beauchamp[1], B.R. Dumbauld[2], and D.A. Armstrong[1]; [1]University of Washington, [2]USDA/ARS

Invasive Spartina patens at Dosewallips State Park (WA, USA): An eradication success story … ?
David H. Milne; Evergreen State College

Effects of temperature on growth of the introduced seagrass Zostera japonica from two Pacific Northwest Estuaries
Deborah J. Shafer[1] and Sandy Wyllie-Echeverria[2]; [1]University of South Alabama, [2]University of Washington

The use of high resolution remotely sensed imagery in conjunction with field surveys to determine vegetation communities in the tidal freshwater reach of the Columbia River
Kathryn L. Sobocinski , Lee M. Miller and Amy B. Borde; Battelle Marine Sciences Laboratory

Factors preventing the recovery of Ostreola conchaphila in Washington
A. Trimble and Jennifer Ruesink; University of Washington

The effects of the invasive seagrass Zostera japonica on ecosystem processes
Lisa C. Turnbull and Scott D. Bridgham; University of Oregon

Factors influencing the germination of eelgrass (Zostera marina L.): Salinity, temperature, location, seed color and sulfide concentrations
J. Wilkerson[1], Ben Lee[1], Joel Elliott[1], and Sandy Wyllie-Echeverria[2]; [1]University of Puget Sound, [2]University of Washington

Will the European green crab persist in Pacific Northwest estuaries?
Sylvia Behrens Yamada[1], Andrea Randall[2] and Graham E. Gillespie[3]; [1]Oregon State University, [2]Chinook, WA, [3]Fisheries & Oceans Canada

Dissolved sulfides stress on eelgrass Zostera marina in Yaquina Bay estuary, Oregon
David R Young[1] and Richard S. Caldwell[2]; [1]U.S. Environmental Protection Agency, [2]Northwestern Aquatic Science

1215 – 1400 Lunch and Student Awards

1400 –1630 Informal Discussion and Networking

MEETING ADJOURNED