EPOC 2007: Agenda

54th Eastern Pacific Oceanographic Congress
Sleeping Lady Mountain Retreat, Leavenworth, WA

Jan Newton, President · Neil Banas, Conference Chair · Stephen Pierce, Treasurer

Saturday Sept 15

4-9 pm registration, Salmon Gallery
If you arrive later than this, ask at the front desk for your room assignment.

6-7 pm dinner served, Kingfisher Dining Hall

Good places to rendezvous with fellow EPOCers after dinner are the Grotto Bar and the Woodland Rock Pool.

Poster presenters can set up their posters in the Salmon Gallery this evening, or anytime before dinner on Sunday.

Sunday Sept 16

8-9 am breakfast, Kingfisher Dining Hall

9 welcome and announcements, Chapel Theater

Hypoxia and dead zones (Barbara Hickey, Francis Chan, Diane Masson, chairs)

9:15 **Francis Chan**, John A. Barth, Anthony R. Kirincich, Jane Lubchenco, and Bruce A. Menge, Climate and ecosystem pathways to hypoxia on the Oregon shelf

9:30 **Thomas Connolly**, Barbara Hickey, and Susan Geier, Seasonal and event-scale processes contributing to hypoxia on the continental shelf of Washington

9:45 **Jay O. Peterson**, William T. Peterson, and Cheryl A. Morgan, Seasonal development and inter-annual variability of hypoxic regions along the Oregon and Washington shelf from 1999–2007

10 **Jan Newton**, C. Bassin, A. Devol, M. Kawase, J. Richey, M. Brett, and D. Hannafious, The Status and Understanding of Hypoxia in Hood Canal

10:15 *— coffee break (20 min) —*

10:45 **Bohyun Bahng**, Mitsuhiro Kawase, Jan Newton, Allan Devol and Wendi Ruef, Numerical simulation of hypoxia in Hood Canal, Puget Sound

11 **John Mickett**, Matthew Alford and Jan Newton, Moored observations of tidal and subtidal internal motions in Hood Canal, WA

11:15 Matt Lonsdale, **Joel Elliott**, Dan Hannafious, Jan Newton, Factors affecting the distribution of *Beggiatoa spp*. bacterial mats in Hood Canal, WA

11:30 **Nikolay P. Nezlin**, Eric D. Stein, Krista Kamer, Amanda Carr, Jim Hyde, Doug Shibberu, Macroalgal bloom and hypoxia in an eutrophic estuary, Upper Newport Bay, California

12-1 pm lunch, Kingfisher Dining Hall

1 - 4 free time

3:30 coffee "break" outside Chapel Theater

4 reconvene in Chapel Theater; announcements

General session 1

4:15 **Richard A. Feely**, Christopher L. Sabine, J. Martin Hernandez-Ayon, Debby Ianson, and Burke Hales, Evidence for Upwelling of Corrosive 'Ocean Acidified' Water onto the Continental Shelf

4:30 **Roger M. Samelson**, J. S. Allen, G. D. Egbert, A. Kurapov, R. Miller S. Kim, S. Springer, J. Kindle, and C. Snyder, Numerical Simulation of Wind-Driven Oregon Coastal Ocean Circulation

4:45 **Nikolai Maximenko,** Oleg Melnichenko, and Peter Niiler, Jet-like structures in the eastern North Pacific

5 **Diane Masson** and Angelica Peña, Chlorophyll distribution in a temperate estuary: the Strait of Georgia and Juan de Fuca Strait

5:15 **Rich Pawlowicz**, Olivier Riche and David Cassis, Physical factors affecting Productivity in the Strait of Georgia

5:30 business meeting

6-7 dinner, Kingfisher Dining Hall

7:30-9:30 **Poster session 1**, Salmon Gallery

All posters should remain up from this evening through the second poster session Monday. Please see individual posters for the time slot in which presenters can be found at their stations. A list of poster presentations can be found at the end of this agenda.

Monday Sept 17

7:30-8:30 am breakfast, Kingfisher Dining Hall *(note: earlier than yesterday!)*

8:35 am reconvene in Chapel Theater; announcements

Mesoscale synthesis from Alaska to California (Julie Keister, Bill Crawford, chairs)

8:45 **Emanuele Di Lorenzo** and Niklas Schneider, North Pacific gyre-scale oscillation: mechanisms of ocean's physical-biological response to climate forcing

9 **Hal P. Batchelder**, B. Lindsey, and B. Reser, Continental Shelf retention regions: indices and implications for biological processes in the Northeast Pacific Ocean

9:15 **Cynthia Tynan**, D. Ainley, K. Dugger, R. Brodeur, D. Presser, J. Barth, S. Pierce, and G. Ford, Mesoscale synthesis of cetacean occurrence relative to circulation and prey in the Northern California Current

9:30 **Hiromichi Ueno**, Howard J. Freeland, William R. Crawford, Hiroji Onishi, Eitarou Oka and Toshio Suga, Anticyclonic eddies in the Alaskan Stream

9:45 **Stephanie Henson**, A census of mesoscale eddies in the Gulf of Alaska

10 **James Pringle**, Origins and Dynamics of Poleward Upwelling Relaxation Flows Around Pt. Reyes

10:15 *— coffee break (20 min) —*

10:45 **John Ryan**, Andrew Fischer, Roman Marin III, Francisco Chavez, Raphael Kudela, Mary Silver, Paul Bissett, James Gower and Stephanie King, Mesoscale dynamics influencing incubation, spread and retention of red tides in Monterey Bay, California

11 **Erika McPhee-Shaw**, John Ryan, Lauren Sassoubre, and Steve Ramp, Boundary layer intrusions from the outer shelf: Intermediate Nepheloid Layers around Monterey Bay

11:15 **Julie E. Keister**, P. Ted Strub, William T. Peterson, and Timothy J. Cowles, Interannual variability in mesoscale circulation and cross-shelf advection of zooplankton

11:30 **Barbara Hickey**, Ryan McCabe, Sue Geier, Ed Dever, Raphael Kudela and Parker MacCready, A Tale of Three Interacting River Plumes in the Northern California Current

11:45 **Amoreena MacFadyen**, B.M. Hickey and W.P. Cochlan, Influences of the Juan de Fuca Eddy on circulation, nutrients and HABs in the northern California Current System

12-1 pm lunch, Kingfisher Dining Hall

1-4 free time

4-6 **Poster session 2**, Salmon Gallery

6-7 dinner, Kingfisher Dining Hall

7– reception, meadow behind Kingfisher

7:30-8:30 **Fireside Chat: Russel Barsh**, Director, Kwiáht (Center for the Historical Ecology of the Salish Sea), "Co-evolution of human cultures and marine ecosystems in the Salish Sea"

–10 reception continues

Tuesday Sept 18

7:30-8:30 am breakfast, Kingfisher Dining Hall

8:35 reconvene in Chapel Theater; announcements

Physical and biophysical mixing and dispersion (Christine Petersen, Jonathan Nash, chairs)

8:45 **Levi Kilcher**, Jonathan Nash and Jim Moum, Formation and evolution of the Columbia River plume front

9 **Andrew Fischer**, Erich Rienecker, Laurence Breaker, and Nicholas Welschmeyer, Tidally-forced exchange between Elkhorn Slough and Monterey Bay

9:15 **Mark Halverson** and Rich Pawlowicz, Effect of the river discharge and spring/neap cycling on the salinity of the Fraser River plume

9:30 **Brandon S. Sackmann**, M. J. Perry, C. C. Eriksen, and C. M. Lee, Annual evolution and demise of the subsurface chlorophyll maximum layer off Washington, USA: Results from the Seaglider field campaign, 2003-present

9:45 **Erich V. Rienecker** and J. P. Ryan, AUV mapping of particle size spectra in intermediate nepheloid layers

10 **Curtiss O. Davis** and W. Paul Bissett, Short-term dynamics of a harmful algal bloom in Monterey Bay

10:15 *— coffee break (20 min) —*

10:45 **Terrie Klinger** and Kim Engie, Models of passive dispersal inform reserve design in the Strait of Juan de Fuca

11 **Patrick T. Drake** and C. A. Edwards, Insights into Larval Dispersal and Recruitment along the Central California Coast from a High-Resolution ROMS Model

11:15 **Jim Lerczak**, Internal set-up and sub-tidal circulation driven by a shoaling and breaking internal tide

General session 2

11:30 **Patrick Cummins** and Chris Garrett, Extracting Power from the Tides

11:45 Belinda Lipa, Don Barrick and **Bruce Nyden**, HF Radar Detection of Tsunami Waves Approaching the Continental U.S.

12 **Leslie Rosenfeld**, Deidre Sullivan, and Tom Murphree, The current and future ocean science and technology workforce

12:15 - 1 lunch, Kingfisher Dining Hall

1 pm see you next year!

Poster presentations

General + Hypoxia and Dead Zones

David Ainley, K. Dugger, R. Brodeur, D. Presser, J. Barth, S. Pierce, G. Ford, C. Tynan, L. Spear, Biophysics of seabird occurrence in the northern California Current

Eric P. Bjorkstedt and S. V. Ralston, Match-mismatch between parturition and winter upwelling: identifying oceanographic conditions that favor larval survival of winter-parturition rockfishes

Mary Sue Brancato, Lindsey Milonas and David Kirner, Ed Bowlby, Depleted Oxygen Levels in the Nearshore Waters of Northern Washington's Olympic Coast National Marine Sanctuary

William Crawford and R. Ian Perry, State of the Ocean Reporting

Changming Dong, M. Blaas, A. Hall, M. Hughes, J. McWilliams, Y. Chao and K. Stolzenbach, Circulation in Southern California Bight

Elizabeth Frame, Evelyn Lessard, Megan Bernhardt, Mike Foy, The Columbia River plume influences vertical structure in biological communities

Marisol Garcia-Reyes and John Largier, Coastal Upwelling and Climate Variability in California

Newell Garfield, Jeffrey D. Paduan, and Carter Ohlmann, Delivery and Quality Assurance of Short-Term Trajectory Forecasts from HF Radar Observations

Hey-Jin Kim, Arthur J. Miller, and John McGowan, Long-term surface chlorophyll variation and nutrient supply in the Southern California Bight

Alexander Kurapov, Daniel Fulton, Scott Springer, and John S. Allen, The influence of Columbia River on the upwelling dynamics off Oregon

Tristan Peery, Kipp Shearman, Jack Barth, Anatoli Erofeev, Mapping Semi-Regular Autonomous Underwater Vehicle Glider Observations onto a Cross-Shelf Section

Martin Taillefer, Centre of Ocean Modeling Development and Applications (COMDA)

Mesoscale synthesis from Alaska to California

David M. Kaplan, Jeffrey D. Paduan, and John Largier, Analysis of coastal circulation in the California Current System from a large array of HF Radars along the coast of northern California

Cheryl A. Morgan, William T. Peterson, Moira Galbraith, Julie E. Keister, Molly V. Sturdevant, Jesse F. Lamb, David L. Mackas, Joseph A. Orsi, Marc Trudel, Bruce L. Wing, and Jeannette E. Zamon, Latitudinal gradients in copepod community composition in the Northern California Current and S. Gulf of Alaska during years of varying ocean conditions

Marlene Noble, Kurt Rosenberger, Peter Hamilton, and Jingping Xu, Coastal ocean transport patterns in the central Southern California Bight

Sherry L. Palacios, T. D. Peterson, and R. M. Kudela, Characterizing the spatial and temporal evolution of the Columbia River plume using optical properties

Andrew Thomas and Peter Brickley, Space scales of chlorophyll patchiness in the California Current

Xiaochun Wang, Yi Chao, Hongchun Zhang, Francois Colas, James C. McWilliams, C. K. Shum, and Yuchan Yi, Modeling Tides in the Alaska Coastal Oceans

Physical and biophysical mixing and dispersion

Neil S. Banas, Sean MacDonald, and David Armstrong, Green crab larval retention in Willapa Bay: An intensive Lagrangian modeling approach

Kettyah Chhak and E. Di Lorenzo, Decadal Variations in the California Current Upwelling Cells

Sangil Kim, Roger M. Samelson, and Chris Synder, Numerical simulation of the separation of a coastal upwelling jet from a submarine bank

Anthony Kirincich and John A. Barth, Time-varying across-shelf Ekman transport and vertical eddy viscosity on the inner-shelf

Jonathan Nash, Variability of Nonlinear Internal Waves on the Continental Shelf

Jeffrey D. Paduan, Trajectory analyses from HF radar observations along central California

Christine H. Petersen, Chris Edwards, Steve Ralston, and Milena Veneziani, Temporal variation in dynamics of central California larval dispersion in a multiyear 3-d lagrangian circulation model