EXPOSURE RISKS & HUMAN HEALTH – POSTERS
(Poster Session 1, Monday, November 16th, 4:20 PM – 6:00 PM)

Presenter	Title	Poster #
Backer, Lorraine	HAB-related Illness Surveillance System (HABISS): Progress report	E-1
Conners, Deanna	Oregon's harmful algal bloom surveillance program: Overview of public health advisories issued to protect recreational users during cyanobacteria blooms in lakes and reservoirs	E-2
Fialkowski, Marie	Evaluation of dietary assessment tools used to assess dietary exposures of adults participating in the Communities Advancing the Studies of Tribal nations Across Lifespan (CoASTAL) cohort	E-3
Fleming, Lora	Exposure and effect assessment of aerosolized red tide toxins (brevetoxins) and asthma	E-4
Grant, Kimberly	The utility of the Fagan test of infant intelligence to evaluate infant neurobehavioral outcomes in HAB research: Preliminary results from the CoASTAL cohort	E-5
Hannach, Gabriela	Cyanotoxicity studies in western Washington lakes	E-6
Kostelec, Jaqui	Managing confounding factors in the study of domoic acid neurotoxicity in humans: The role of anxiety and depression in the CoASTAL cohort	E-7
Landsberg, Jan	Development of a technical guide for public health response to harmful algal blooms in Florida	E-8
Litaker, Wayne	Global distribution of ciguatera causing dinoflagellates in the genus *Gambierdiscus*	E-9
Tester, Patricia	Incidence of ciguatera fish poisoning and sea surface temperatures in the Caribbean sea	E-10
Tracy, J. Kathleen	Interpreting the public health significance of neuropsychological test data in HAB related exposures: CoASTAL cohort	E-11
Woodruff, Dana	Towards an understanding of the mechanisms controlling domoic acid retention in fish, crabs and mussels	E-12

PUBLIC HEALTH & COMMUNITY OUTREACH – POSTERS
(Poster Session 1, Monday, November 16th, 4:20 PM – 6:00 PM)

Presenter	Title	Poster #
Ausherman, Christine	HAB camp: A cooperative adventure in community education in a CoASTAL cohort community at risk of domoic acid poisoning	P-1
Carmichael, Wayne	The U.S. freshwater Harmful Algal Bloom Research & Control Act of 2009	P-2
Day, Sheryl	HAB information: The role of information technologies in integrating and communicating harmful algal bloom research	P-3
Hollenbeck, Julie	Let's create a 10-minute outreach video on our HAB research …… easy, right?	P-4
Kirner, Karen	Changes in work habits of lifeguards in relation to Florida red tide	P-5
Nierenberg, Kate	Florida red tide perception: Residents versus tourists	P-6

EMERGING TECHNOLOGY – POSTERS
(Poster Session 2, Tuesday, November 17th, 4:00 – 6:00 PM)

Presenter	Title	Poster #
Bratcher, Amber	Development of a direct detection method for *Alexandrium* in the Gulf of Maine using surface plasmon resonance and peptide nucleic acid probes.	ET-1
Caron, David	Quantitative Real-Time PCR for *Cochlodinium* sp., a potentially harmful dinoflagellate from California coastal waters	ET-2
Erdner, Deana	A quantitative real-time PCR assay for the identification and enumeration of planktonic cells and resting cysts of *Alexandrium fundyense*	ET-3
Hayashi, Kendra	Regional and global phylogenetic relationship of *Cochlodinium fulvescens* found in the coastal waters of California	ET-4
Haywood, Allison	Field validation of molecular sandwich hybridization assays to detect *Karenia brevis* in Southwest Florida coastal waters	ET-5
Kirkpatrick, Gary	Information technology support of a HAB observatory	ET-6
Liang, Junrong	Oligonucleotide probes designed to detect toxic *Pseudo-nitzschia* (Bacillariophyceae) species in the Gulf of Maine, USA	ET-7

Place, Allen	Evidence of an apoptotic programmed cell death process in the toxic dinoflagellate *Karlodinium veneficum*: Effects of light deprivation and changes in salinity	ET-8
Orellana, Monica	*Thalassiosira pseudonana* proteome: Using CORRA to analyze the differential expression of proteins under different nutrient sources	ET-9
Roche, Shannon	Sterol biosynthesis in the marine dinoflagellate, *Karenia brevis*	ET-10
Sirois, Alison	Utilizing an imaging flow cytometer (FlowCAM®) as a coastal monitoring tool for harmful algal bloom species	ET-11
Younan, Lawrence	In vivo monitoring of cyanobacteria using Turner Designs' C3 submersible and phytoflash active fluorometers	ET-12

MODELING, BLOOM PREDICTION & MITIGATION – POSTERS

(Poster Session 2, Tuesday, November 17th, 4:00 – 6:00 PM)

Presenter	Title	Poster #
Brown, Christopher	Habitat suitability models for three HAB species in the Chesapeake Bay	M-1
Grabowski, Katy	Near bottom dinoflagellate populations on the Northwest Florida shelf	M-2
McKibben, Selena	Development of a predictive model for domoic acid production off the Oregon coast	M-3
Moran, Patrick	The U.S. geological survey national water-quality assessment program: Advances in understanding sources, transport, and the biological effects of nutrients from headwater streams to coastal rivers	M-4
Olascoaga, Josefina	Modeling *Karenia brevis* blooms on the West Florida shelf	M-5
Peters, Jessica	Mapping of *Alexandrium catenella* cysts to enhance understanding of harmful algal blooms and paralytic shellfish toxins in Puget Sound, Washington State	M-6
Rankin, Sam	A study of the mechanisms of toxic algal succession along the California coast	M-7
Stumpf, Richard	Environmental factors influencing observations of *Microcystis aeruginosa*	M-8
Tobin, Elizabeth	Cell motility, life stage transitions and cyst distribution of the harmful alga, *Heterosigma akashiwo*	M-9
Wang, Bin	Variations in the light absorption coefficients of phytoplankton, nonalgal particles, and color dissolved organic matter in New York/New Jersey harbor estuary	M-10

MECHANISMS OF TOXICITY – POSTERS
(Poster Session 2, Tuesday, November 17th, 4:00 – 6:00 PM)

Presenter	Title	Poster #
Port, Jesse	Comparative genomics of the diatom *Pseudo-nitzschia* reveals G-protein-coupled receptor conservation with potential links to cellular regulation of domoic acid	MT-1
Robertson, Alison	Characterization and purification of a soluble paralytic shellfish toxin binding protein from the butter clam, *Saxidomus giganteus*	MT-2
Scheuer, Todd	Sodium channel amino acid substitutions underlying resistance of clams to PSTs	MT-3
Seubert, Erica	Do members of the raphidophycean class use brevetoxins as allelopathic compounds?	MT-4
Stewart, Jennifer	Novel globin-containing nitrate reductase chimeric sequences found in the raphidophytes, *Heterosigma akashiwo* and *Chattonella subsalsa*	MT-5

BLOOM DYNAMICS A– POSTERS
(Poster Session 3, Wednesday, November 18th, 4:00 PM – 6:00 PM])

Presenter	Title	Poster #
Adams, Nicolaus	Population structure of *Pseudo-nitzschia australis* and its association to domoic acid production in the waters of Washington state	B-1
Agostini, Marco	Gene expression of ammonium transporter and urease C subunit in the Texas brown tide *Aureoumbra lagunensis*	B-2
Bailey, April	Spatial distribution of *Pseudo-nitzschia* ITS1 types detected with ARISA in Glacier Bay, Alaska	B-3
Bargu, Sibel	Toxic *Pseudo-nitzschia*: An emerging threat to northern Gulf of Mexico	B-4
Baugh, Keri	SoundToxins: First year findings of a Harmful Algal Bloom and Monitoring Program for Puget Sound	B-5
Bill, Brian	Domoic acid production, growth rate and nitrogen uptake kinetics of *Pseudo-nitzschia* species: A comparison of oceanic and coastal species	B-6
Black, Megan	Cryptic population diversity in *Heterosigma akashiwo*	B-7
Boyer, Gregory	MERHAB-LGL: The role of embayments, nearshore nutrient shunts and offshore waters in the initiation and maintenance of toxic algal blooms in the lower Great Lakes	B-8

Bozarth, Connie	Transition in *Microcystis* population genetics in shoreline accumulations during 2007 bloom season in Copco reservoir, Klamath river, northern CA	B-9
Byrd, Meridith	A survey of ten Texas intertidal rivers for *Prymnesium parvum*	B-10
Carlson, Michael	Viral-phytoplankton interactions: Isolation, characterization, and ecology of viruses infecting the diatom *Pseudo-nitzschia*	B-11
Carter, Melissa	Patterns of chlorophyll variability and phytoplankton community composition off southern California and the influence of macroscale and regional oceanographic processes	B-12
Christman, Mary	Red Tide: Semantics and statistics	B-13
Demir, Elif	On the distribution and ecophysiology of a recently described raphidophyte	B-14
Dreher, Theo	Two cyanophages capable of lysing *Microcystis* from Klamath river	B-15
Ellis, Claire	Diversity and distribution patterns of *Pseudo-nitzschia* species off the United States NE coast during summer 2008	B-16
Evans, Andrew	Transcriptome analysis of bacteria-phytoplankton interactions in *Alexandrium tamarense*	B-17
Farzan, Shahla	Application of imaging flow cytometry to monitor life cycle transitions in *Alexandrium tamarense* species	B-18
Garneau, Marie-Eve	Abundance and dynamics of *Alexandrium catenella* offshore Redondo Beach (CA) as detected by quantitative PCR	B-19
Greenfield, Dianne	Cyanobacteria bloom dynamics in South Carolina brackish detention ponds: A pilot study	B-20
Greengrove, Cheryl	Mapping the concentration of *Alexandrium catenella* cysts in Quartermaster Harbor, Puget Sound, Washington	B-21
Hall, Emily	Phytoplankton communities of the West coast of Florida – Response to nutrient enrichment	B-22
Hannach, Gabriela	Marine phytoplankton monitoring in central Puget Sound	B-23
Haring, Diana	Patterns of *Pseudo-nitzschia* and domoic acid related to phytoplankton community structure in the Benguela current	B-24
Harke, Matthew	The ability of the gastropod *Crepidula fornicata* to suspension feed in the presence of cultured and wild populations of the harmful brown tide alga, *Aureococcus anophagefferens*	B-25
Hitchcock, Gary	Net community production and dark community respiration in a *Karenia brevis* (Davis) bloom in West Florida coastal waters, USA	B-26

Masura, Julie	*Alexandrium catenella* cysts, sediment analyses, and Pb-210 dating of a long core from Quartermaster Harbor, Puget Sound, Washington	B-27
McCulloch, Anita	The impact of nutrient availability and hydrodynamics on phytoplankton community structure of the West Florida shelf	B-28
Moore, Stephanie	*Pseudo-nitzschia* blooms on the Washington coast: An analysis of long-term monitoring data from the ORHAB program	B-29

TOXIN IDENTIFICATION & DETECTION – POSTERS

(Poster Session 3, Wednesday, November 18th, 4:00PM-6:00 PM)

Presenter	Title	Poster #
Doucette , Gregory	A bead-based immunoassay for domoic acid: Application of LUMINEX xMAP® technology and transition to a micro-flow cytometer	T-1
Frame, Elizabeth	Matrix-specific protocols for the detection of domoic acid in multiple marine mammal species	T-2
Lane, Jenny	Testing a new technology, Solid-Phase Adsorption Toxin Tracking (SPATT), for application towards field detection and monitoring of the hydrophilic phycotoxin domoic acid	T-3
Smith, Jason	Condensation of geranyl diphosphate and glutamate in the biosynthesis of domoic acid	T-4
Thompson, Natalie	Determining the gene expression of brevetoxins	T-5

BLOOM DYNAMICS B– POSTERS

(Poster Session 4, Thursday, November 19th, 10:00 AM – 12:00 PM)

Presenter	Title	Poster #
Morton, Steve	Coastal eutrophication land use changes and *Ceratium furca* blooms in Pago Pago Harbor, American Samoa 2007-2009	B-30
O'Dea, Sheila	*Pseudo-nitzschia* species in West Florida coastal waters; do differences in temperature and salinity contribute to low domoic acid production?	B-31
Parker, Micaela	Genome sequencing of the toxin-producing diatom *Pseudo-nitzschia multiseries*	B-32

Pederson, Bradley	Implications of phytoplankton community composition on West Florida continental shelf *Karenia brevis* blooms. Time series transect data and chemotaxonomic analyses, 1999 through 2008	B-33
Redshaw, Clare	Loss of waterborne brevetoxin on exposure to phytoplankton competitors: Insights into mechanisms of removal	B-34
Sekula-Wood, Emily	A historical record of vertical domoic acid fluxes from Santa Barbara basin (CA)	B-35
Sellner, Kevin	*Karlodinium veneficum* CCMP1609: Toxin content as a function of nutrient species, absence of mixotrophy, and import for tidal Chesapeake Bay	B-36
Steadman, Kendra	Detection of the PSP-causing dinoflagellate *Alexandrium catenella* and its resting cysts in Henderson Inlet, WA: Further evidence for the spread of *Alexandrium catenella* into South Puget Sound	B-37
Strutton, Pete	Saxitoxin concentrations in coastal Oregon shellfish: The influence of El Niño and the Pacific Decadal Oscillation.	B-38
Tong, Mengmeng	The effects of temperature, light and growth stage on the toxicity of *Dinophysis acuminata* from Woods Hole, Massachusetts	B-39
Totora, Jennifer	Molecular detection and monitoring of *Karenia* spp. in coastal Delaware waters	B-40
Warner, Mark	The impact of long-term shifts in CO2 and temperature on the growth and physiology of different isolates of *Heterosigma akashiwo*	B-41
Wells, Mark	A massive bloom of toxigenic *Pseudo-nitzschia cuspidata* off the Washington State coast	B-42
Young, Brooke	Trends in algal biomass and species composition during the spring bloom in Budd Inlet, Washington State and their possible relationship to changes in density stratification and nutrient (N and Si) composition and concentration.	B-43

FISHERIES & FOODWEBS – POSTERS

(Poster Session 4, Thursday, November 19th, 10:00 AM – 12:00 PM)

Presenter	Title	Poster #
Berry, John	Apparent bioaccumulation of cyanobacterial toxins by sportfish from several lakes in western Washington State	F-1
Del Rio, Ross	Gulf Menhaden *Brevoortia patronus*: A potential vector of domoic acid (DA) in coastal Louisiana food webs	F-2
Dusek, Eva	Uptake and depuration of domoic acid, a phytotoxin, by Washington clams	F-3

Forster, Zach	Monitoring Oregon's Coastal Harmful Algae (MOCHA): A logistical approach to HAB event response	F-4
Gobler, Christopher	The nutrition ecology of the harmful dinoflagellate blooms caused by *Cochlodinium polykrikoides* in New York estuaries	F-5
Menden-Deuer, Susanne	Predator impact on the population dynamics and vertical distribution of *Heterosigma akashiwo*	F-6
Twiner, Michael	Concurrent exposure of bottlenose dolphins (*Tursiops truncatus*) to multiple algal toxins in Saratoga Bay, Florida, USA	F-7