Presented at Puget Sound Shorelines and the Impacts of Armoring Workshop,
May 12-14 2009.
This presentation not peer reviewed.

Puget Sound

Shoreline Armoring Workshop
State of the Science

May 11-14, 2009
Union, WA

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Workshop Motivation, Goals and Agenda

Guy Gelfenbaum
USGS Menlo Park, CA

A Conundrum

A Seattle Times analysis shows new bulkheads today are being built just as fast as they were a decade ago. In the past four years, the state Department of Fish and Wildlife has granted 456 permits for new bulkheads on Puget Sound.

The number it has rejected: zero

TUESDAY, MAY 13, 2008

The Seattle Times

CLOUDS, RAIN
High, 58. Low, 48.
> LOCAL B8

50¢ King, Pierce, Snohomish, Island, Kitsap and Thurston counties | 75¢ elsewhere

INDEPENDENT AND LOCALLY OW

Failing our Sound | SEATTLE TIMES SPECIAL REPORT, PART 3

Beaches suffer as walls go up

Shoreline-property owners continue building walls to protect their land, despite the harm the structures inflict on some of the richest pockets of life in the Sound.

BY WARREN CORNWALL AND JUSTIN MAYO
Seattle Times staff reporters

Rescue workers p lapsed school in

"All

May 13, 2008

Current Limitations

Numerous technical reports have been written on the issue of shoreline armoring in Puget Sound, yet decision makers and policy makers regularly request more or different information.

Some possible reasons include:

- **Existing white papers are not sufficient to produce effective protection**
- **Recent reports recycle older information/speculation**
- **Reports rely on qualitative and anecdotal information**
- **Lack of science to defend statement that bulkheads are “bad”**

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Goals and objectives for the workshop

- Summarize state of science regarding physical and biological impacts of armoring on estuarine shorelines like those of Puget Sound
- Inform conceptual models that integrate physical and biological scientific knowledge and assess levels of certainty of knowledge
- Identify and prioritize information and data needs that will advance our understanding of the impacts of armoring on Puget Sound beaches

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Goals and objectives for the workshop

- Create a workshop proceedings
- Develop guiding principles that lead to better decisions related to locating and regulating armoring

Workshop Agenda

Tuesday May 12	Wednesday May 13	Thursday May 14	Friday May 15
Welcome **1. Introduction and Puget Sound Context**	**5. Beach Processes and Ecological Responses I**	**7. National Context and Human Dimensions** **Field Trip De-briefing**	*PUBLIC FORUM*
BREAK	BREAK	BREAK	
2. Ecological and Regulatory Setting	**6. Beach Processes and Ecological Responses II** **Intro to Field Trip**	**8. Management Needs for Improved Science**	
LUNCH Buffet	**FIELD TRIP / BOX LUNCH**	LUNCH Buffet	
3. National Perspectives	**FIELD TRIP:** **Kitsap County and Bainbridge Island**	**9. Known Linkages – Working with Models**	
BREAK		BREAK	
4. Coastal Geological Processes **Introductions to posters**	**BOAT TRIP:** **Bainbridge Island, Kitsap**	**10. Data Gaps and Science Needs** **Closing Synthesis**	

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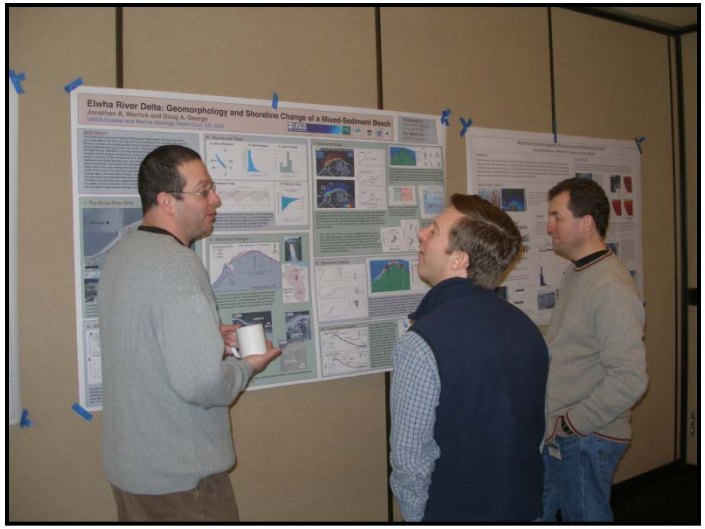
Poster Session
Tuesday Evening



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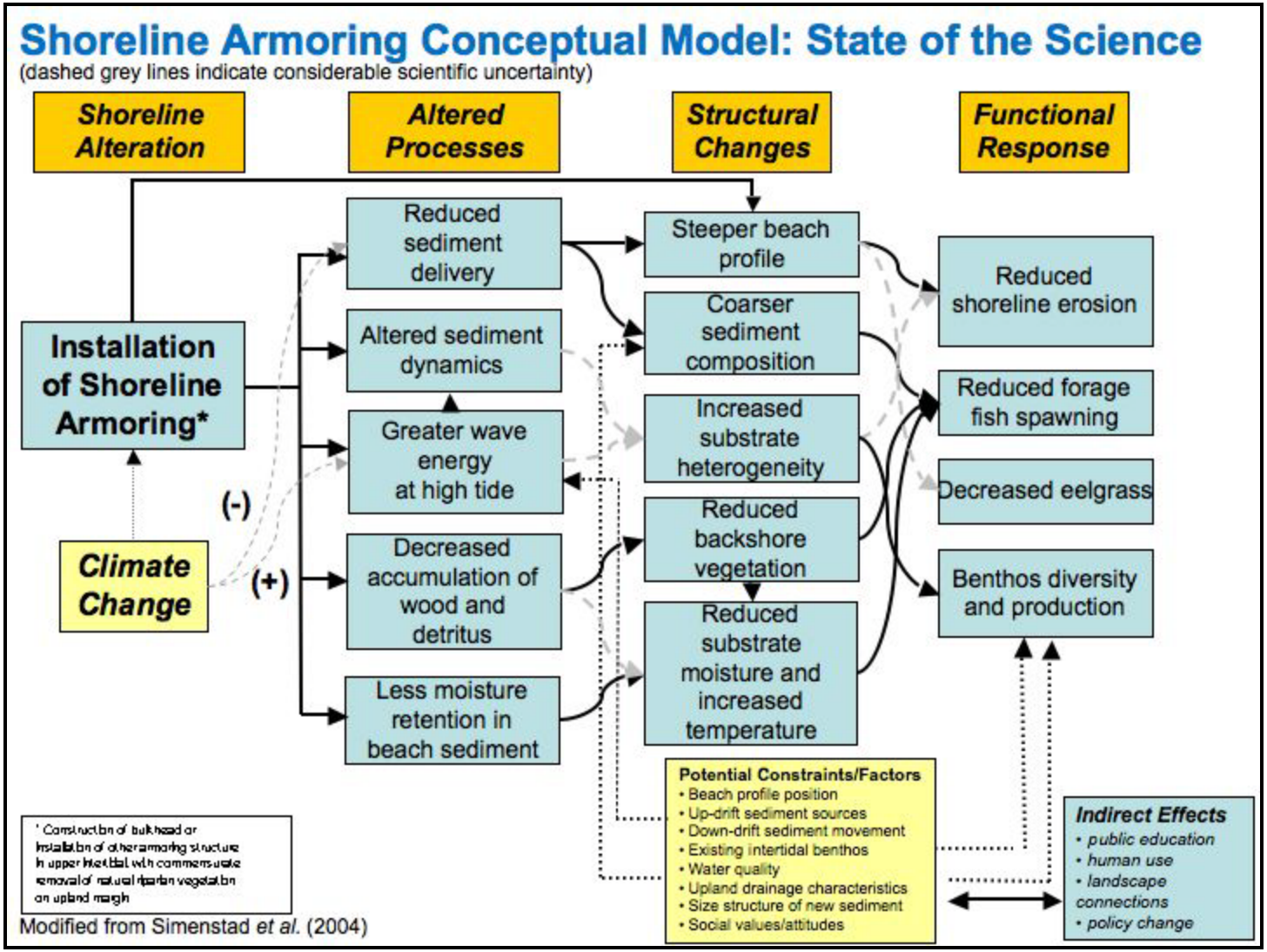
Field Trip
Wednesday Afternoon

Thursday Afternoon May 14
Break-Out Groups



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Conference Proceedings

- 5-10 page, double-spaced conference proceedings paper
- including figures and references
- will be peer-reviewed and published by USGS/PSNERP
- due August 1st by all invited speakers and any others

A discussion with national and local experts on current science and management implications for shoreline armoring in Puget Sound

When: **Friday** May 15, 2009, 8:30 a.m. – 12:30 p.m.

Where: Fountain Room, Kitsap Conference Center, 251 1st Street, Bremerton

Shoreline Managers, Planners, and Practitioners

Agenda

8:30 a.m. Registration, Continental Breakfast

9:00 a.m. Welcome, Purpose, Introductions

9:10 a.m. Overview and key findings of PSNERP shoreline armoring workshop

- Coastal geological processes and ecological linkages
- Emerging scientific research, data needs, and research strategies
- Guiding principles for shoreline management

9:45 a.m. Relevant experience from other regions

11:00 a.m. Management implications for Puget Sound

12:30 p.m. Closing Remarks