

OCEAN RENEWABLE ENERGY CONFERENCE

Ocean Renewable Energy Conference VII
Double Tree Hotel - Portland, OR
SEPTEMBER 26 & 27, 2012

OregonWaveEnergy
TRUST



oregonwave.org

AGENDA

WEDNESDAY SEPT. 26TH 2012

7:00-8:30 AM

REGISTRATION AND NETWORKING

7:30-8:15 AM

FAST PITCH COMPETITION

8:30-9:00 AM

CONFERENCE WELCOME

9:00-9:30 AM

OPENING PLENARY

9:30-10:00 AM

NETWORKING BREAK HOSTED BY COLUMBIA POWER TECHNOLOGIES

10:00-11:00 AM

ON AND OFF THE GRID: NNMREC'S COLLABORATION WITH DEVELOPERS

11:00 AM-12:00 PM

OCEAN ENERGY 2.0: TECHNOLOGY INNOVATION

12:00-1:00 PM

KEYNOTE LUNCH HOSTED BY STOEL RIVES

1:00-2:00 PM

UK LESSONS LEARNED

2:00-3:00 PM

STATE POLICIES THAT WORK

3:00-3:30 PM

NETWORKING BREAK HOSTED BY KLIENSCHMIDT USA

3:30-5:00 PM

BALANCING THE COMPETING INTERESTS IN OREGON'S TERRITORIAL SEA

5:00-7:00 PM

WELCOME RECEPTION

WEDNESDAY SEPT. 26TH 2012

LECTURES + EVENTS

7:00-8:30 AM

Registration and Networking

7:30-8:15 AM

Fast Pitch Competition

PARTICIPANTS:

Terry Eader, Partner, Alternative Energy Engineering Associates LLP
Hap Layher, Owner, OWHAP
Tom Nelson, Counsel, Ocean Energy

8:30-9:00 AM

Conference Welcome

SPEAKERS:

Julie Keil, Director of Hydro Licensing, PGE, President, OWET Board

9:00-9:30 AM

Opening Plenary

KEYNOTE:

Keith Tymchuk, Mayor of Reedsport, Board Member, OWET

9:30-10:00 AM

Networking Break Hosted by Columbia Power Technologies

10:00-11:00 AM

On and Off the Grid: NNMREC's Collaboration With Developers

The Northwest National Marine Renewable Energy Center (NNMREC) has as its mission to facilitate development of marine energy technology. In this effort, Oregon State University and the University of Washington researchers focus on wave and tidal energy, respectively. In this session, NNMREC will give an overview of their work to advance wave energy, and developers will discuss their experiences with NNMREC collaboration.

SESSION CHAIR:

Belinda Batten, Director, Northwest National Marine Renewable Energy Center, Board Member, OWET

PANELISTS:

Ken Rhinefrank, Vice President, Research and Development, Columbia Power Technologies
Mike Morrow, Chief Executive Officer, M3 Wave, LLC
Justin Klure, Managing Partner, Pacific Energy Ventures, Managing Partner, Northwest Energy Innovations

11:00 AM-12:00 PM

Ocean Energy 2.0: Technology Innovation

This panel session is presented by three Ocean Energy Developers who will discuss their experiences while developing their unique technologies from the standpoint of what they have learned and considered in order to overcome some of the larger challenges of designing and building a viable wave energy device. These technologies, although different, have a certain commonality and some specific design approaches that enhance their survivability in the demanding Oregon ocean environment. Just as other technologies evolve with the passage of time and due to the challenges of real-world applications, this session discusses some of the recent Ocean Energy device innovations.

SESSION CHAIR:

Joe Stuart, Professor, Oregon Institute of Technology

PANELISTS:

Mike Morrow, Chief Executive Officer, M3 Wave, LLC
Tomasz Mucha, Project Finance Manager, AW-Energy Ltd.
Dr. Stefan G. Siegel, Atargis Energy Corporation
Rahul Shendure, Oscilla Power, Inc.

12:00-1:00 PM

Keynote Lunch Hosted by Stoel Rives

KEYNOTE:

Wally Van Valkenburg, Chair, Oregon Business Development Commission and Managing Partner, Stoel Rives

SPEAKER:

Congressman Kurt Schrader

PRESENTER:

Damian Kunko, Vice President, SMI/Helios Strategies – Co Founder, Ocean Renewable Energy Coalition

This session will inform conference attendees about current U.S. government project funding, the history and current state of DOE and U.S. Navy MHK R&D efforts, OREC's work with Congress on appropriations and the Marine Renewable Energy Promotion Act, and U.K./overseas competition.

1:00-2:00 PM

UK Lessons Learned

This session will explore synergies between UK and US wave energy development including federal support, public engagement, site development, moving from single device to array development and economic impact around wave energy testing facilities. Panelists will also discuss the collaborative efforts between UK and US entities in best practice sharing and highlighting research opportunities.

SESSION CHAIR:

Eric Bakken, Vice Consul, Energy, CleanTech and Financial Services, UK Trade & Investment, San Francisco

PANELISTS:

Tim Mundon, Senior Engineer, Marine Renewable Energy, Kleinschmidt USA
Stuart Baird, Operations Director, European Marine Energy Center
Belinda Batten, Director, Northwest National Marine Renewable Energy Center, Board Member, OWET

2:00-3:00 PM

State Policies that Work

This session will explore the state policies in Oregon that have led to the present industry's environment, as well as lessons from other renewable energy sectors. The session will reflect on past policy efforts, as well as ongoing opportunities.

SESSION CHAIR:

Dan Bates, Partner, Thorn Run Partners

MODERATOR:

Kimball Ferris, Partner, Miller Nash

PANELISTS:

Fred Granum, Office of the Oregon Attorney General, Special Counsel for Business
John Audley, Deputy Director, Renewable Northwest Project
Tobias Read, Member, Oregon House of Representatives District 27

3:00-3:30 PM

Networking Break Hosted by Klienschmidt USA

3:30-5:00 PM

Balancing the Competing Interests in Oregon's Territorial Sea

This session will review the status and direction of the Oregon Territorial Sea Plan development with an emphasis on the State's proactive efforts to identify sites for ocean renewable energy that minimize adverse impacts of development.

SESSION CHAIR:

Rick Williams, Director, Columbia Region, SAIC Ocean Technology

PANELISTS:

Peter Huhtula, Oregon Coastal Zone Management Association
Tim Josi, Commissioner, Tillamook County, Chair, Territorial Sea Plan Advisory Committee
Richard Whitman, Natural Resources Policy Advisor, Natural Resources Office, Office of the Governor

5:00-7:00 PM

Welcome Reception

Honoring Ocean Energy Supporters

AGENDA

THURSDAY SEPT. 27TH 2012

7:00-8:00 AM

REGISTRATION AND NETWORKING HOSTED BY STRATEGIES 360

8:00-8:30 AM

WELCOME REMARKS

8:30-10:00 AM

WAVE POWER PRODUCTION

10:00-10:15 AM

NETWORKING BREAK HOSTED BY AW-ENERGY

10:15-11:15 AM

OFFSHORE DEVELOPMENT IN THE US: EAST COAST VS. WEST COAST APPROACHES

11:15 AM-12:15 PM

WHAT LESSONS CAN WAVE ENERGY LEARN FROM SOLAR AND WIND TO TAKE THE NEXT BIG STEP

12:15-1:30 PM

KEYNOTE LUNCH HOSTED BY OCEAN POWER TECHNOLOGIES

1:30-2:30 PM

ART AND PRACTICE OF NEGOTIATING WITH OCEAN STAKEHOLDERS

2:30-3:00 PM

NETWORKING BREAK HOSTED BY THORN RUN PARTNERS

3:00-4:00 PM

OCEAN ENERGY AND THE ENVIRONMENT: WHAT WE KNOW

4:00-4:45 PM

CUMULATIVE EFFECTS: VALIDATING SUITABILITY SCORES REAL TIME

4:45-5:00 PM

CLOSING REMARKS

THURSDAY SEPT. 27TH 2012

LECTURES + EVENTS

7:00-8:00 AM

Registration and Networking Hosted by Strategies 360

8:00-8:30 AM

Welcome Remarks

WELCOME:

Jason Busch, Executive Director, OWET

KEYNOTE:

Senator Jeff Merkely

8:30-10:00 AM

Wave Power Production

The industry is still learning how wave energy conversion devices perform from a power perspective. What can we expect from different types of wave energy devices? How can utilities evaluate the benefits of bringing wave energy onto their system? How well can wave energy help us meet our power needs? This session will discuss the state of knowledge about device power production, including: Expected capacity factors and governing standards about device efficiency ratings; Power performance from various types of devices, including onshore/off-jetty anchored devices; Power quality, scale, and duration; Resource regimes and predictability; and Integration with existing transmission and distribution.

SESSION CHAIR:

Rebecca O'Neil, Oregon Department of Energy

PANELISTS:

Cherilyn Randall, Bonneville Power Administration

Stuart Baird, Operations Director, European Marine Energy Center

Sean Moran, PE, MS, MBA, Manager of Wave Energy Ocean Test Facilities, NW National Marine Renewable Energy Center, Oregon State University

Phil Hart, Chief Technology Officer, Ocean Power Technologies

John Prescott, President and CEO, PNGC Power

10:00-10:15 AM

Networking Break Hosted by AW-Energy

10:15-11:15 AM

Offshore Development in the US: East Coast vs. West Coast Approaches

This session will take a critical look at offshore energy development projects and the corresponding policy initiatives currently taking place within the United States—on both the East and West Coasts. Since regulatory agencies at varying jurisdictional levels have the ability to accelerate (or hinder, as the case may be) development, the panelists will discuss issues and apply lessons learned specifically to ocean energy development in Oregon. A comparison of what is and what is not working on both coasts will be made apparent to inform the responsible development of ocean energy with particular emphasis on Oregon and the Pacific Region.

SESSION CHAIR:

Megan E. Higgins, Senior Environmental Scientist, Ecology and Environment

PANELISTS:

Ellen Aronson, Pacific Region Director, Bureau of Ocean Energy Management

James Hastreiter, Federal Energy Regulatory Commission

Sean O'Neill, Co-Founder & President, Ocean Renewable Energy Coalition

11:15 AM-12:15 PM

What Lessons Can Wave Energy Learn from Solar and Wind to Take the Next Big Step

What actions are necessary to help wave energy make the next big jump to significant commercial deployment? Wave energy is often compared to where wind and solar energy were ten years ago. Are there lessons to learn from these other technologies? Both solar and wind energy have grown rapidly over the last decade. Wind energy is now virtually cost-competitive with new fossil fuel power plants, especially coal plants. Solar energy in many situations is also cost-competitive and its overall costs are rapidly declining. Which solar and wind actions would be relevant to the wave energy industry? What regulatory policies and financial incentives, which applied to solar and wind energy, should apply to wave energy? What other lessons can be learned from solar and wind energy?

SESSION CHAIR:

Michael W. Grainey, Renewable Energy Advisor, Business Oregon

PANELISTS:

Rachel Shimshak, Executive Director, Renewable Northwest Project

Diana Enright, Energy Policy Division Administrator, Oregon Department of Energy

Glenn Montgomery, Executive Director, Oregon Solar Energy Industries Association

Gregory Lennon, Senior Director, Ocean Power Technologies

12:15-1:30 PM

Keynote Lunch Hosted by Ocean Power Technologies

Opening Remarks:

Governor Ted Kulongoski

Featured Speaker:

George Taylor, Executive Vice Chairman, Ocean Power Technologies

Keynote:

Congresswoman Suzanne Bonamici

Closing Remarks:

Governor John Kitzhaber

1:30-2:30 PM

Art and Practice of Negotiating with Ocean Stakeholders

A diverse panel will deliver practical lessons and successful strategies for engaging and negotiating with environmental organizations, community groups, and other ocean stakeholders. The session will: reinforce developers' awareness that engaging stakeholders is indispensable; provide skills, knowledge, and understanding so developers can artfully engage with ocean stakeholders; and build a foundation for professional stakeholder engagement for the ocean energy industry.

SESSION CHAIR:

Ian Boisvert, Owner, BlueSky Mediation & Law

PANELISTS:

Pete Stauffer, Surfrider Foundation

Scott McCreary, Co-Founder and Managing Principal, CONCUR Inc

Kaety Hildenbrand, Marine Fisheries Extension Faculty, OSU – Oregon Sea Grant Extension

Nick Edwards, Commercial Fisherman, Board Member, OWET

2:30–3:00 PM

Networking Break Hosted by Thorn Run Partners

3:00–4:00 PM

Ocean Energy and the Environment: What We Know

Efforts are underway to lay a foundation for understanding and monitoring environmental effects of hydrokinetic projects. Panelists will describe how research priorities have been set and what scientists are learning from their pioneering research efforts.

SESSION CHAIR:

Robin Hartmann, Ocean Program Director, Oregon Shores Conservation Coalition, Board Member, OWET

PANELISTS:

Brian Polagye, Adjunct Investigator, National Northwest Marine Renewable Energy Center – University of Washington

Rick Yarde, Regional Supervisor, Office of Environment, Pacific OCS Region, Bureau of Ocean Energy Management

Andrea E. Copping, Senior Program Manager for Coastal and Marine Waters, Pacific Northwest National Laboratory

4:00–4:45 PM

Cumulative Effects: Validating Suitability Scores Real Time

SESSION CHAIR:

Gareth Davies, Managing Director, Aquatera Ltd

4:45–5:00 PM

Closing Remarks

SPEAKERS:

Chris Taylor, Vice President, OWET Board

Jason Busch, Executive Director, OWET

PROCLAMATION

OREGON WAVE WEEK

STATE OF OREGON
PROCLAMATION
OFFICE OF THE GOVERNOR

- WHEREAS:** Oregon's coastline is among a handful of locations in the world that possess the key attributes for the successful development of wave energy; and
- WHEREAS:** Oregon's Ten Year Energy Action Plan identifies responsibly sited wave energy as having significant potential to provide additional resources to power Oregon, accelerate the creation of a business cluster, and generate sustainable models that can be exported to other states and countries around the world; and
- WHEREAS:** The Oregon Wave Energy Trust ("OWET") was funded by the Oregon Innovation Council in 2007 to implement a strategic vision to recruit and support a wave power industry; and
- WHEREAS:** Oregon State University and University of Washington were awarded a multi-million dollar federal grant to establish the Northwest National Marine Renewable Energy Center and together with OWET is building the premier utility-scale wave energy testing facility in North America.


NOW,
THEREFORE: I, John A. Kitzhaber, M.D., Governor of the State of Oregon, hereby proclaim **September 24-28, 2012** to be

OREGON WAVE WEEK

in Oregon and encourage all Oregonians to join in this observance.

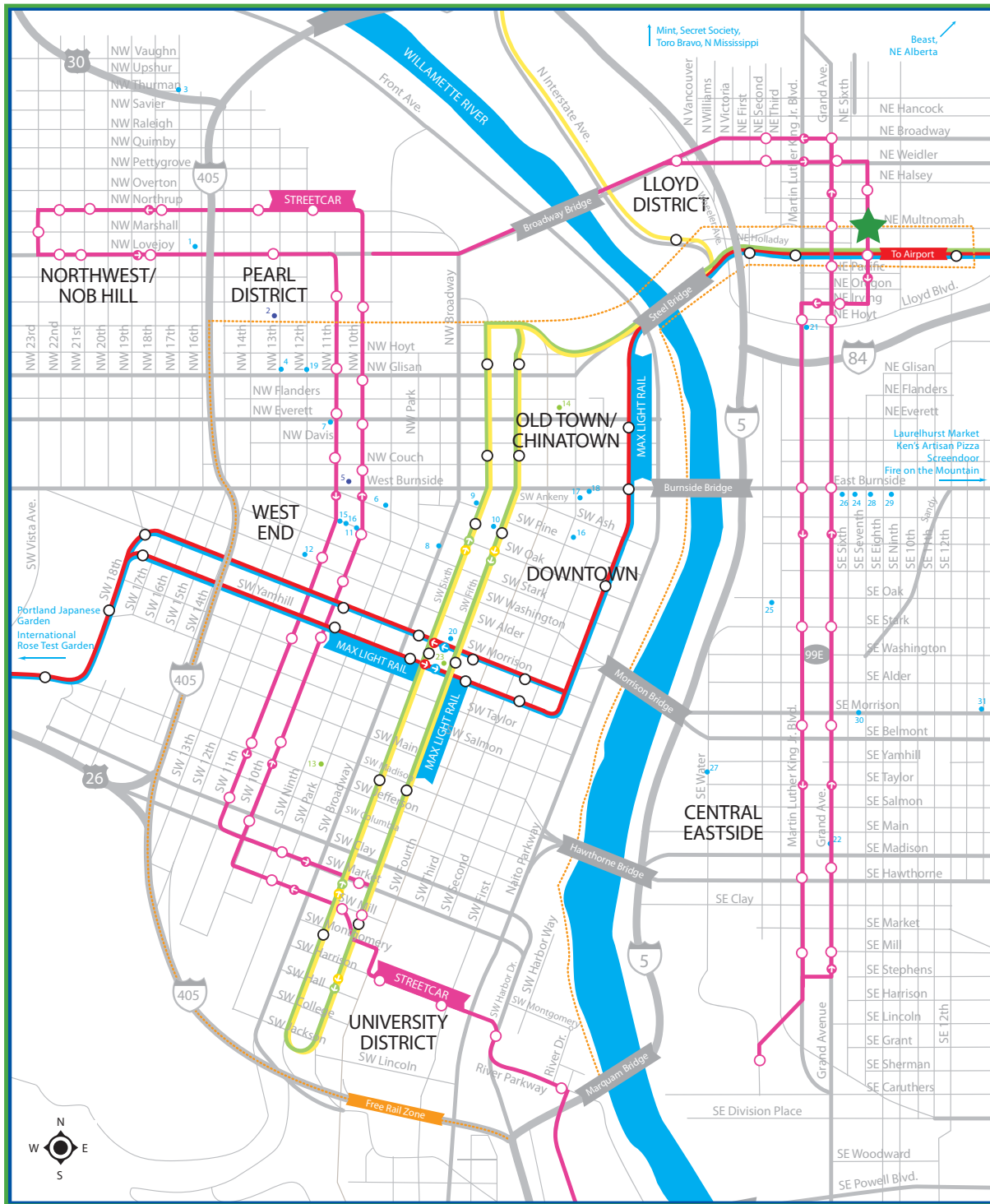
IN WITNESS WHEREOF, I hereunto set my hand and cause the Great Seal of the State of Oregon to be affixed. Done at the Capitol in the City of Salem in the State of Oregon on this day, September 4, 2012.




John A. Kitzhaber, M.D., Governor


Kate Brown, Secretary of State

WELCOME TO PORTLAND



LEGEND		RECOMMENDATIONS <i>eat/drink shop see</i>	
—	Red Line MAX (Airport)	1 Le Happy	12 Nong's Khao
—	Blue Line MAX	2 Lizard Lounge	13 Portland Art Museum
—	Yellow Line MAX	3 Olympic Provisions	14 Lan Su Chinese Garden
—	Green Line MAX	4 Andina	15 Kenny & Zukes
—	Portland Streetcar	5 Powell's Books	16 Stumptown Coffee
—	Free Rail Zone	6 Jackpot Records	17 Voodoo Doughnuts
★	DoubleTree Portland	7 Little Big Burger	18 Central
		8 Little bird	19 Trader Vic's
		9 Cafe Velo	20 Departure
		10 Portland City Grill	21 Spirit of 77
		11 Clyde Common	22 Coava Coffee
			23 Pioneer Courthouse Square
			24 The Farm Cafe
			25 Produce Row
			26 Sizzle Pie Pizza
			27 Clarklewis
			28 Le Pigeon
			29 Doug Fir
			30 Bunk Sandwiches
			31 Nostrana

2012 SPONSORS

The seventh annual Ocean Renewable Energy Conference, hosted by Oregon Wave Energy Trust, would not be possible without the generous support of our sponsors.

PRESENTING



GOLD LEVEL



SILVER LEVEL



BRONZE LEVEL



KEYNOTE LUNCH



EXHIBITOR



OWEC



NETWORKING BREAK



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