

The ASLA-NCC 2013 Lecture Series

Thursday, Oct 17th



Rising Waters

In the Bay Area, the ocean and bay hold incredible power and ecological wealth, captivating residents and visitors. Yet as we revel in this spectacular marine setting there is an evident threat of rising waters. Join us as we explore with three experts in the field, how design professionals can and have responded and adapted to this challenge. The 2013 ASLA-NCC Lecture Series culminates with an investigation of Sea Level Rise and brings together: Professor Kristina Hill, UC Berkeley Landscape Architecture & Environmental Planning; Dilip Trivedi, Coastal Engineer for Moffatt & Nichol; and Roger Leventhal, Senior Engineer for Marin County.

Speakers:

Dilip Trivedi is Vice President and Coastal Engineer for Moffatt & Nichol in the San Francisco Bay Area. His practice focuses on sea level rise planning, wetlands restoration, waterfront development, and public access. Dilip has served in an advisory capacity related to hydrodynamics and coastal engineering on several large marsh restoration projects in the San Francisco Bay Area, and has managed the design and analyses tasks for several urban redevelopment, wetlands restoration, and capital improvement projects including: Treasure Island, Candlestick/Hunter's Point, and Oak to Ninth. He obtained Masters and Doctoral degrees from Texas A&M University in Ocean Engineering.

Dilip will present projects along Bay Area waterfronts where Moffatt & Nichol have addressed the challenges of uncertain future sea level. His projects are multidisciplinary involving engineers, landscape architects, and architects.

Kristina Hill is a researcher, designer, and professor in landscape-based urban design at UC Berkeley. She designs adaptations for urban water systems as drivers of biodiversity, health and social justice, specializing in adaptation to floods. She consults in the US and Europe, wrote and edited "Ecology and Design: Frameworks for Learning," and lectures internationally. Her current book project is on adaptation of urban water systems to climate change. She holds a BS in geology, a Masters and PhD in landscape architecture from Harvard. Kristina taught and practiced in Seattle for ten years, working on salmon-related urban water projects and leading a new public agency.

She will speak on flood risks and the three main responses: super dikes, soft sand barriers and floodable greenways urban districts. If housing trends continue to put pressure on the Bay Area to develop, new coastal housing should be resilient to flooding, protect contaminated sites from erosion, and preserve marine ecosystems. This can be done by using a strategy of incrementally building "micro-polders" along the coast that are part housing, part park, and part marine reserve.

Roger Leventhal is Senior Engineer in the Marin County Public Works Flood Control Division within the Watershed Group. Roger has a BS in Geology and an MS in Hydraulics and Coastal Engineering from UC Berkeley and worked for over 20 years as a restoration design consultant prior to coming to Marin County in 2011. He has designed and constructed numerous tidal wetlands and fluvial restoration projects around the Bay Area as a consulting engineer prior to joining Marin County. Roger is responsible for the assessment and engineering adaptation planning for sea level rise in the County. Eastern Marin County is especially vulnerable to sea level rise and is regularly flooded on the semi-annual astronomical high tides or "King Tides" even without storm inputs.

Roger will describe Marin County's assessment and adaptation planning strategies for sea level rise. He will demonstrate, with the Aramburu Island Beach Restoration Project, that in the right setting natural bay beaches are an effective means to combat wind-wave erosion and sea level rise, while providing habitat friendly shoreline stabilization.

When: Thursday, October 17th

Where: AIA San Francisco, 130 Sutter Street, Suite 600

Reception: 6:30 - 7:00

Lecture / Discussion / Q & A: 7:00 - 9:00

Cost: ASLA Members \$10, Non-members \$15, Students with Current I.D. Free

Thank you to StopWaste.org for their generous support of the lecture series.

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