2017 Estuary Research Workshop
Limiting Factors Beyond Nitrogen

September 13, 2017
University of Rhode Island
Narragansett Bay Campus
215 South Ferry Rd.
Narragansett, RI 02882

Agenda

8:00  Registration Begins in Corless Auditorium in the Watkins Laboratory Building (building #2 on map)

8:45  Welcome and Opening Remarks
Judith Swift, Director, Coastal Institute at University of Rhode Island
Anna Meyer, Environmental Analyst, NEIWPCC

9:00  Limiting Factors Beyond Nitrogen: Sources and Processes (Part 1)

Examples, impacts, and trends in estuarine phosphorus limitation
James W. Ammerman, NEIWPCC, Science Coordinator - Long Island Sound Study

Mitigating eutrophication and harmful algal blooms along the freshwater to marine continuum representing estuaries: The need to control both nitrogen and phosphorus inputs
Hans W. Paerl, Kenan Professor of Marine & Environmental Sciences, University of North Carolina

10:10  Break

10:30  Limiting Factors Beyond Nitrogen: Sources and Processes (Part 2)

The influence of coastal oceans and seas on nutrient limitation in estuaries
Robert Howarth, David R. Atkinson Professor of Ecology, Cornell University

Observations and modeling of Narragansett Bay nutrient dynamics: Do we run the west coast offense?
Chris Kincaid, Professor, University of Rhode Island - Graduate School of Oceanography; Kevin Rosa, graduate student, URI GSO

11:30  Phosphorus Removal Technology

Phosphorus removal from agricultural tile drains using novel media
Tara Kulkarni, Associate Professor, Norwich University

(continued on reverse)
Phosphorus Removal Technology (cont.)

Passive wastewater phosphorus removal system - 10 years of performance achieving effluent TP 0.02 mg/L
Pio Lombardo, President, Lombardo Associates, Inc.

12:15 Lunch and Lunch-time Poster Session in Coastal Institute Building (#26 on map)

1:15 Limiting Factors Beyond Nitrogen: Sources and Processes (Part 3) in Corless Auditorium in the Watkins Laboratory Building (building #2 on map)

Phosphate (P) is key affecting remineralization of labile organic matter in estuarine and coastal waters
Zhanfei Liu, Associate Professor, University of Texas at Austin

Control of phytoplankton growth: Nitrogen, phosphorus, or grazers?
David Wong, Environmental Analyst, Massachusetts Department of Environmental Protection

An examination of nitrogen and phosphorus values and ratios during twenty-five years of monitoring water quality in the Pettaquamscutt Estuary (Rhode Island)
Veronica Berounsky, Marine Research Associate, University of Rhode Island

2:45 Break

3:10 The Road Ahead

Open discussion on nutrient inputs, balance, and limitation
All participants. James Ammerman, moderator

Pragmatic watershed assessment and decision support for comprehensive pollution planning and management
Paul E. Stacey, retired watershed and estuarine ecologist and manager

4:00 Adjourn