

The Health of Aquatic Environments
Henry Pate
Life Long Learning Program
Wednesday, February 26, 2020, 4:00—5:30
Unitarian-Universalist Congregation
56 N. Halifax Dr, Ormond Beach, FL



Mr. Pate will discuss hydrolibria, which is the creation of institutions and products for the internal management of large waters by the use of basic machines, like the wheel and wedge, developing infrastructure at regional scales for control of flooding and ecosystems. While on land we have cultivated and built in ways that mostly enable life, the fluid two-thirds of the planet has just been something to live by or travel thru, without regard for the life and energy we consume while doing it; despite air and water being immediately required for life, they have been left in the control of weather and gravity, without real-time defenses or accommodations to 21st Century life.

Restoration requires working within waterways to directly affect flow and exchange while building structures that encourage fisheries and provide water treatment. And like all new industries, these tools for flood control and water treatment must be applied at a scale that develops their use and limits; in the face of emergencies that take life and destroy capital, studies and modeling are not enough. Railroads and aerospace took decades to develop, agriculture many generations: time Florida cannot afford. The Consortium and Co-op are taking the moon-shot approach and starting in 2020 will build a system at scale from Matanzas to Sebastian Inlet, upgrading technology and methods as they develop.

Henry Pate has a B.S. in Fisheries and Wildlife (Aquaculture Option) from Texas A&M University. He is Lead Scientist at Hydrolibria Consortium, Inc and President of Halifax and Indian Waters Co-op, Inc. Mr. Pate's work for government and commercial clients included the performance of materials and equipment in marine environments, and the development of methods and products for the direct management of large waters.