

# **Charles Yarish, Ph.D.**

**Professor Emeritus, Department of Ecology & Evolutionary Biology at University of Connecticut**

Stamford, CT, US

Dr. Yarish is an expert in marine macroalgae, coastal management, and commercial uses for seaweed for food, cosmetics, and biofuels.

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## **Biography**

Professor Emeritus Charles Yarish served as faculty at UConn for 47 years. He is a visiting scientist in the Lindell Laboratory at The Woods Hole Oceanographic Institution and has been an adjunct professor or visiting marine scientist at Stony Brook University, The Biologische Anstalt Helgoland, The University of Groningen, and Shanghai Ocean University. He has worked in advancing the global seaweed farming industry and spearheaded the developing kelp industry in the United States. Yarish has an extensive publication record that spans many decades and has been on the cutting edge of research and development initiatives in seaweed science. He is credited for developing the global and North American regenerative seaweed aquaculture industries, including Integrated Multi-Trophic Aquaculture & nutrient bioextraction. He has served with many organizations and advisory boards, including the U.S. International Executive Service Corps (Kenya), The National Research Council's Advisory Board for the Institute of BioSciences (Halifax), the RCN for the U.S. National Science Foundation genome project on Porphyra, the advisory board for Maine's Sustainable Ecological Aquaculture Network, and Australian Seaweed Institute. He is also a member of the Algae Foundation's Algae Technology Educations Consortium and The Bridgeport Regional Aquaculture Science & Technology Educational Center. Most recently, he and his colleagues from Woods Hole Oceanographic Institution, The Marine Laboratory, and The University of Alaska received several research grants from the U.S. DOE ARPAe MARINER Program to assist in developing scalable seaweed farms in Alaska, Florida, and Puerto Rico, and develop a major domestication program for the sugar kelp. Currently, Yarish is the chief scientist for the GreenWave Organization. He serves as a science advisor to the World Wildlife Fund in support of the expansion of the seaweed industry within the U.S. and globally, and as a science advisor to the Blue Evolution, The Australian Seaweed Institute and W.L. Gore & Associates. He is also a founding member of the Board of Directors of the Kelp Ark Culture Collection of Marine Algae (formerly AltaSeeds Conservancy), a seaweed germplasm collection for the Eastern Pacific Ocean. Yarish is a co-founder to a recent start-up and MARINER (ARPAe, Department of Energy) spin-off, MacroBreed, that is commercializing the development of elite kelp cultivars and non-reproductive strains.

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## **Areas of Expertise**

Sugar Kelp, Marine Biology, Aquaculture, 'Captain Seaweed', Marine Algae, Commercial uses of seaweed, Marine Phycology

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## **Affiliations**

British Phycological Society, International Phycological Society, Association for the Sciences of Limnology and Oceanography, Phycological Society of America, American Institute of Biological Sciences, Sigma Xi, The Scientific Research Society of North America, Northeast Algal Society, World Aquaculture Society, Aquaculture Association of Canada

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## **Education**

**Rutgers - The State University (New Brunswick)**  
Ph.D.

**University of Texas (Austin)**  
M.A.

**Brooklyn College (City University of New York)**  
B.S.

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## **Accomplishments**

### **Phycological Society of America's Award of Excellence**

2019 Recipient, presented in recognition of sustained scholarly contributions in, and impact on, the field of phycology

### **Speaker of the Year Award, Connecticut Society of Cosmetic Chemists**

2014 Recipient

### **Fernald Award**

2014 Recipient, for best paper of the year published in Rhodora

### **Gold CQIA Innovation Prize**

2013 Recipient, with Dr. Jang K. Kim

### **University of Connecticut's Provost Award for Public Engagement and Outreach**

2012 Recipient

### **Connecticut Academy of Science & Engineering**

Elected in 2008

### **Marinalg Award's First Prize**

1992 Recipient, presented at the XIVth International Seaweed Symposium in France, for his work in East Africa, judged to be the most useful to the economic development of the world seaweed industry

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