

## Lifelines

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**T. Muthuramalingam**, Associate Professor, Department of Mechatronics Engineering, School of Mechanical Engineering, Kattankulathur Campus, SRM Institute of Science and Technology, Chennai, Tamilnadu, India. He received his Ph.D in Mechanical

Engineering from Mechanical Madras Institute of Technology, Anna University in 2013. In 2008 he earned a Master's degree in Mechatronics from Madras Institute of Technology, Anna University. His research interests include unconventional micro machining, manufacturing automation, process optimization and design of experiments and energy conservation.

**Sanjeev Gupta**, see *JALCA* 108, 156, 1998

**Russell Vreeland** received his microbiological training at Rutgers University (BS and MS), the University of Nebraska-Lincoln (PhD) and Post-Doctoral training at University of Western Ontario. He was a Professor at the University of New Orleans and at West Chester University of Pennsylvania. He is a chauvinist about two things: microorganisms and pollinators of all types. As a microbiologist he knows that it is really microbes that run the Earth while the rest of us often just mess it up. His initial training focused on marine microbiology during which he became fascinated by the microbes that live and function in extremely high salts and their potential application for industry. He focused entirely on the marvelous microbes that survive and thrive in saline waters anywhere from 2× to 10× the concentration of seawater and even in salt crystals. He also led teams studying the remains of the ancient oceans (large underground salt deposits) as a geological microbiologist where he reanimated the world's oldest living microbes (120 and 250 million years old) and the world's oldest known DNA sequences (412 MYA). He is the founder, President and Chief Scientist for Eastern Shore Microbes (ESM).

**John Long** became a partner in Eastern Shore Microbes in 2018. Mr. Long graduated from Northampton High School and Johnson and Wales University with an Associate's Degree in Culinary Arts and an emphasis in marketing and management. As the ESM chief of logistics and operations Mr. Long applies all of the experience gained from a career in farming, corporate production, shipping and quality control. His primary corporate emphasis focuses on maintaining the highest levels of quality standards, ingredients and nutrient production procedures to always exceed ESM's and client's expectations. His responsibilities include warehousing nutrient supplies, mixing nutrient formulations for all lagoons, shipping and equipment maintenance for ESM.

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**Cigdem Kilicarislan Ozkan** graduated from Ege University Department of Leather Engineering in 2008. The same year she started to M.Sc. She studied on extraction of vegetable tanning materials. She joined the staff of Leather Engineering Department as research assistant in 2010 and completed her PhD in 2018. Her research activities and fields of interests are: tanning materials, extraction techniques, modification of biopolymers and leather technologies.

**Hasan Ozgunay** studied Leather Technology at the University of Ege (Turkey). After working in Leather Industry for one year, he joined the staff of Leather Engineering Department as research assistant in 1996. He obtained his M.Sc. in the same department. He studied on vegetable tanning materials and obtained his PhD in Leather Engineering. He is currently working as researcher / lecturer in the Leather Engineering Department. His research activities and fields of interests are: tanning materials, leather processing technologies and cleaner leather processing methodologies.

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