



ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

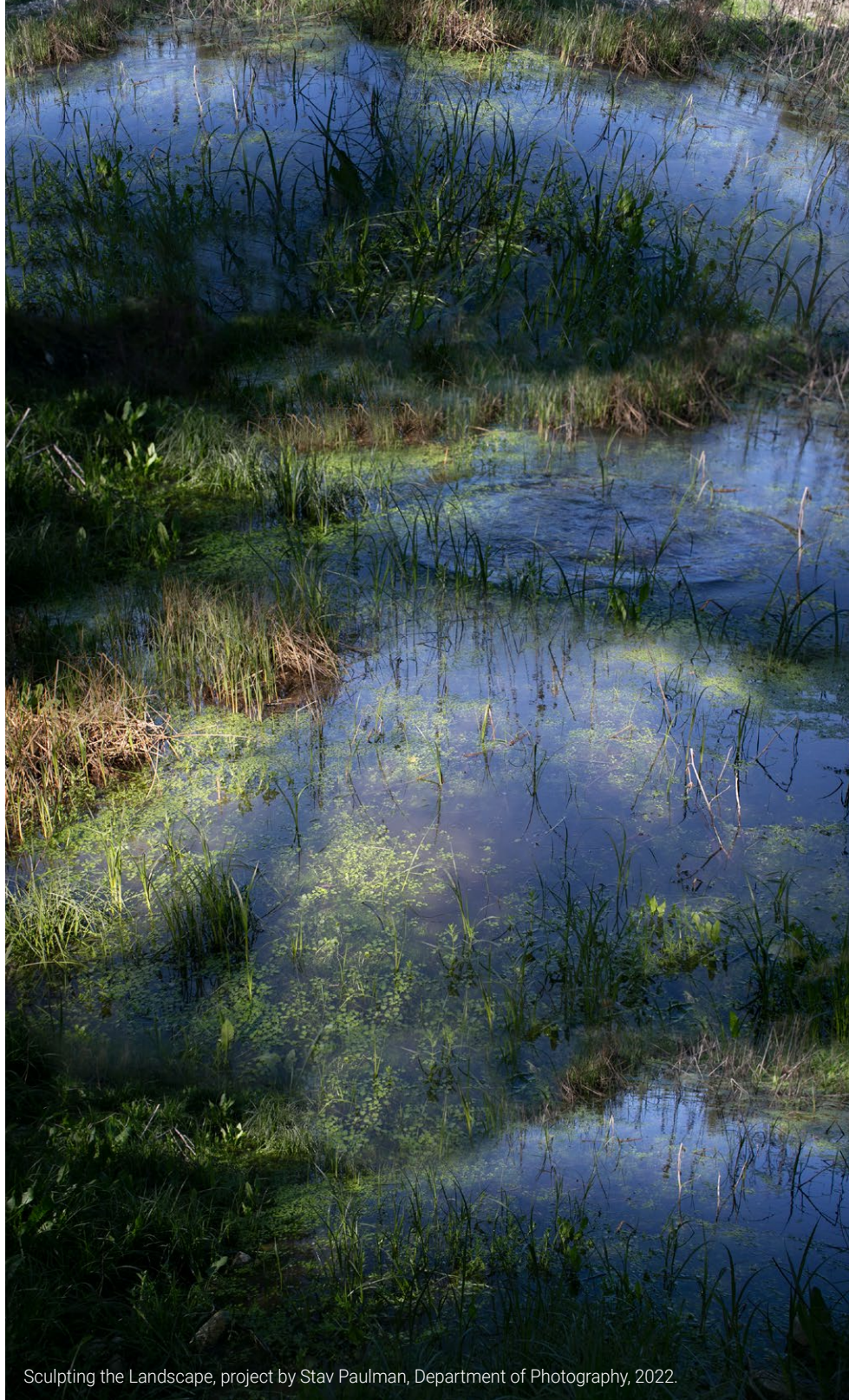
RESEARCH

Microbial Community in Freshwater

A new study by Dr. Orna Schweitzer-Natan, a former student of Prof. Daniel Sher, reveals that the global rise of harmful cyanobacterial blooms (cyano-HABs) threatens water safety and sustainability, affecting both drinking water and agriculture. [The study found](#) that during the extensive 2016 winter bloom in Lake Kinneret, the Microcystis population remained uniform across the bloom area. Additionally, contrary to expectations, the microbial community structure was unaffected by the Microcystis biomass.

New Methodology in Water Management

Modern water management turns runoff into a resource through integrated approaches. Prof. Mashor Housh, of the Faculty of Social Sciences, and others propose in [an article](#) a methodology to help planners and stakeholders maximize flood mitigation benefits by combining hydrological and land-use planning models.



Sculpting the Landscape, project by Stav Paulman, Department of Photography, 2022.

Cyanobacteria-Phage Web of Interactions

[Dr. Avrani and her team](#) study the interactions between phages and their cyanobacterial hosts. They focus on how these interactions influence the evolution of both phages and hosts and examine the broader environmental impacts.

LEARNING AND STUDENTS

Selected Chapters in Environmental Pollution and Treatment

Prof. Eyal Kurzbaum's online course provides students with fundamental tools and knowledge to understand environmental

pollution processes and methods for pollution remediation, as well as basics in toxicology. The course will cover pollution sources, and the fate and impact of pollutants on the environment, including potential effects of heavy metals, pesticides, and fertilizers on animals and humans. It will review environmental remediation methods, from 'green' techniques using plants and bacteria to advanced technologies for pollution management.

OPERATIONS

Reducing Disposable Usage

In August 2023, the university launched a pilot program to reduce disposable cup use by installing dishwashers in the kitchenettes of select units. Based on the positive results from employees many units opted to [keep the dishwashers](#).

Members of the Marine Chemical Ecology Lab (Credit: lab website).

