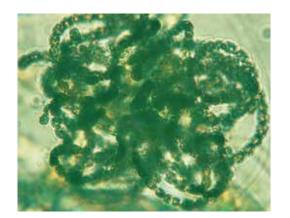
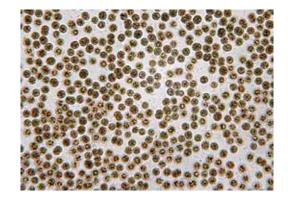
## Resilience of Lakes to Nutrient Loss and Overfishing

## D. K. Button





Anabaena

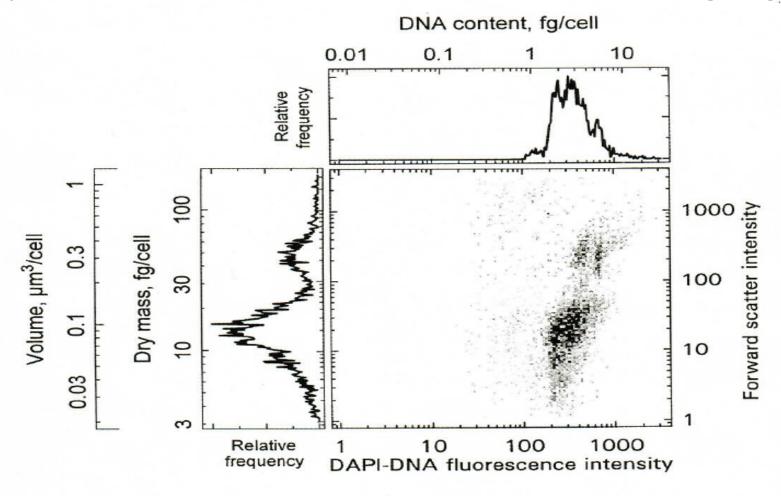


*Microcystis* 

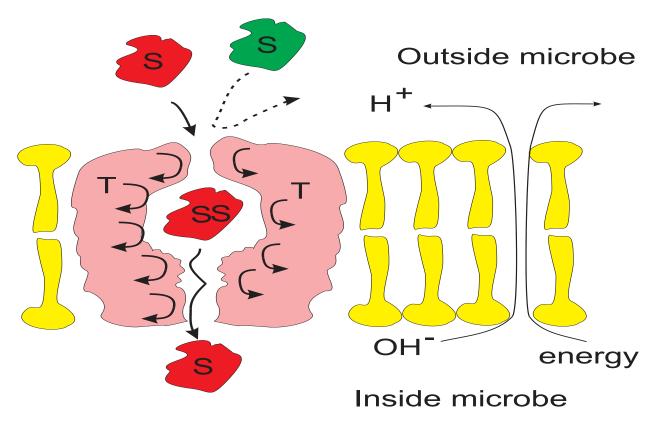


Diatoms collected by a Rotifer in winter even though phytoplankton were rare.

## Population, size and mass of nutrient-controlling organisms.



**Competitive inhibition:** Radioactive nutrient molecules **S** in red, can be collected by transporters (in pink) only when not busy transporting. Following delivery inside the cell another molecule can be collected. Success in transporting red molecules is predictively slowed by competition with non-radioactive molecules shown in green.



Slowing of radioactive nutrient transport depends quantitatively on the amount of non-radioactive nutrient revealing its concentration.

