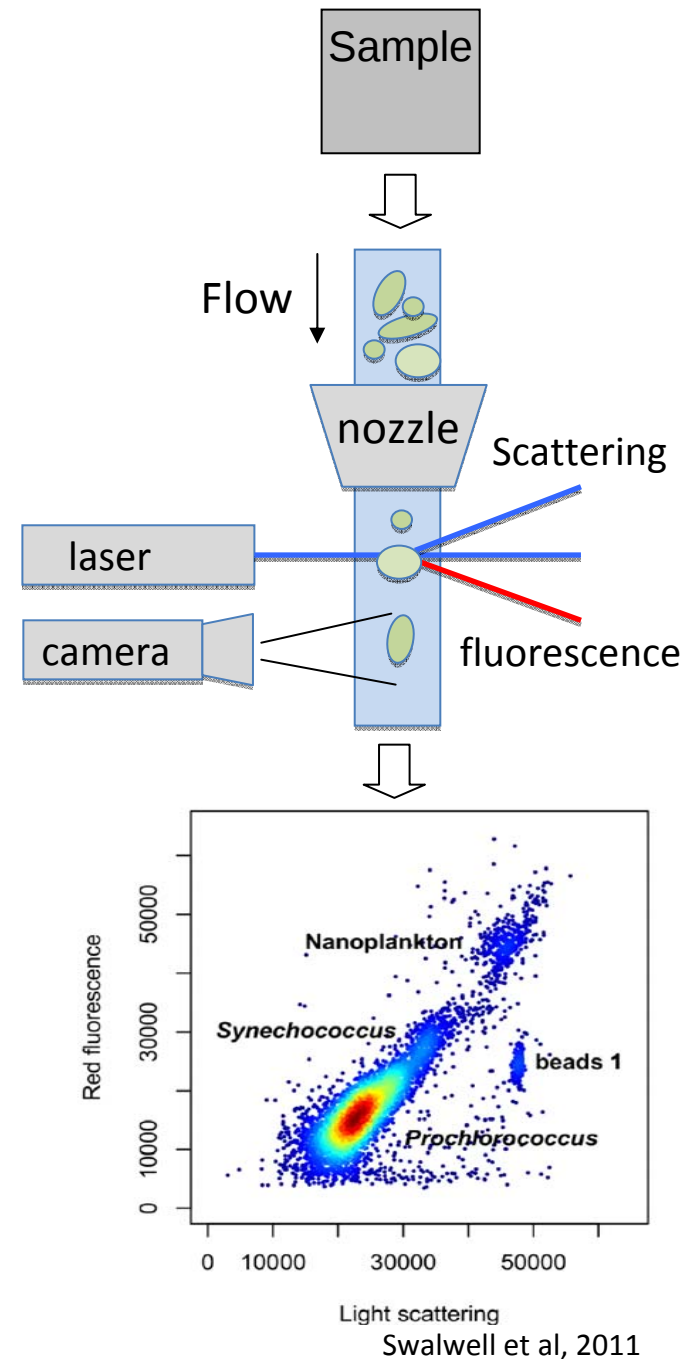
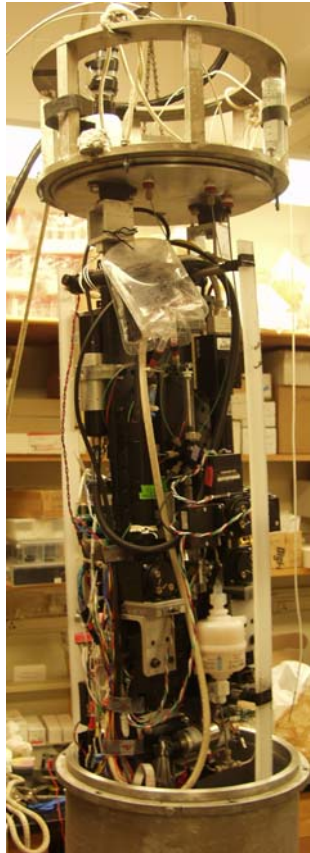


Cytometry for Autonomous Platforms (feasibility study)

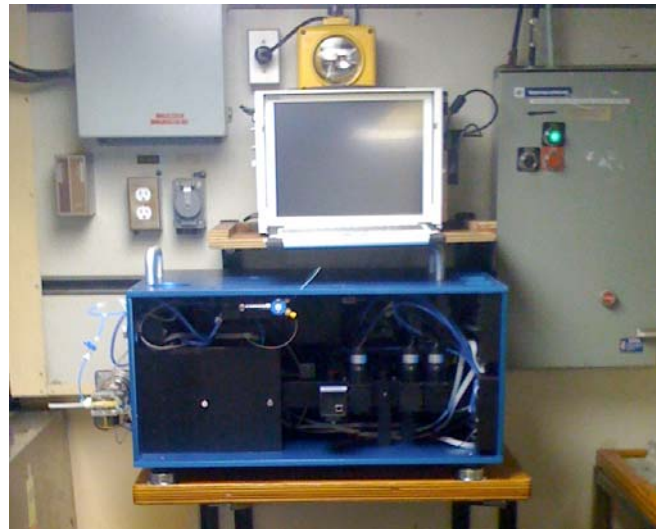
- Assessment of population composition based on parameterization and statistics of individual particles
- Lab cytometers: large, complex, labor intensive
- Need: compact cytometer capable of unattended operation in situ
- AUV integration would allow adaptive sampling strategies and triggering other assets



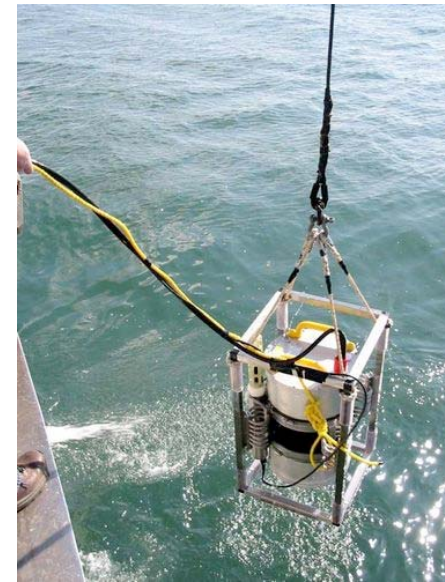
Some candidate cytometers for AUV integration



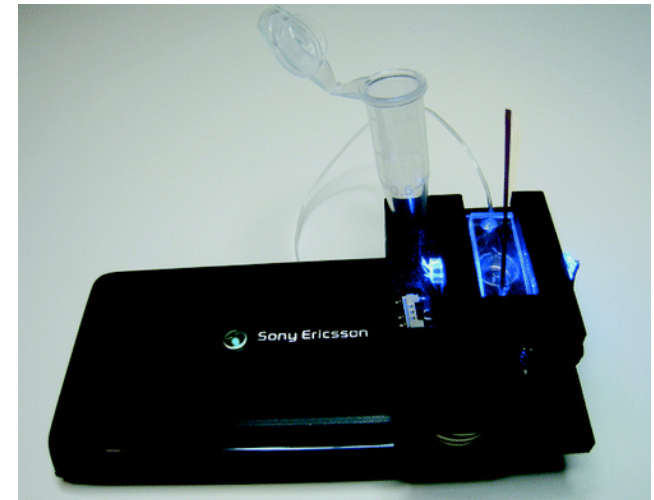
Imaging Flow
Cytobot (WHOI)



Seaflow
(University of Washington)



CytoSub (CytoBuoy BV)



Cell-phone cytometer
(Holomic LLC)