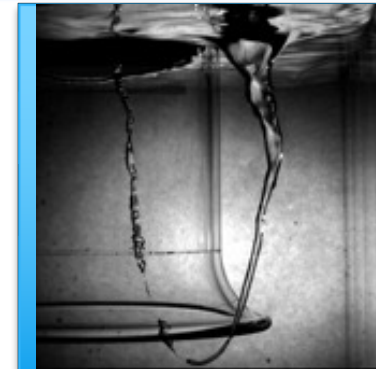
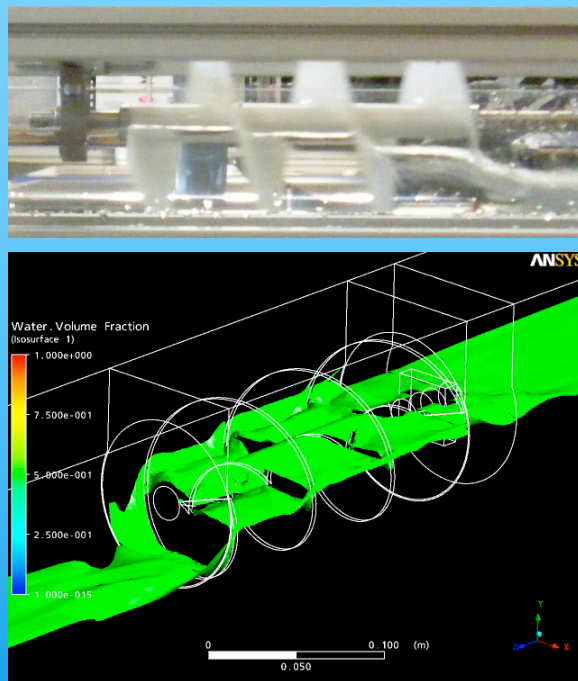


Fluid machines such as pumps and water turbines support our lives in a variety of fields as energy conversion machines. With the aim of improving the performance, efficiency and stability of these machines, we investigate and understand the flow inside fluid machinery using both experimental and numerical analysis methods. And we try to find better designs on those.

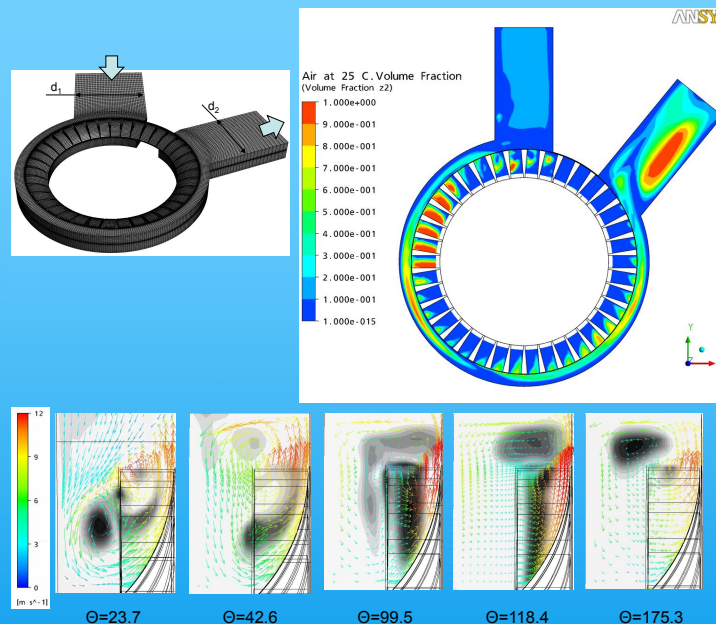


air-entraining
vortex at the
pump sump

spiral turbine model and its numerical
simulation



flow simulation of regenerating pump in which
bot water and air flows



performance of waterwheel

