



ESDU SPF-M4-5

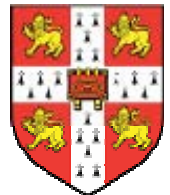
Fluid Dynamic Gauging (FDG) in duct flows

Unamended
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FDG in duct flows

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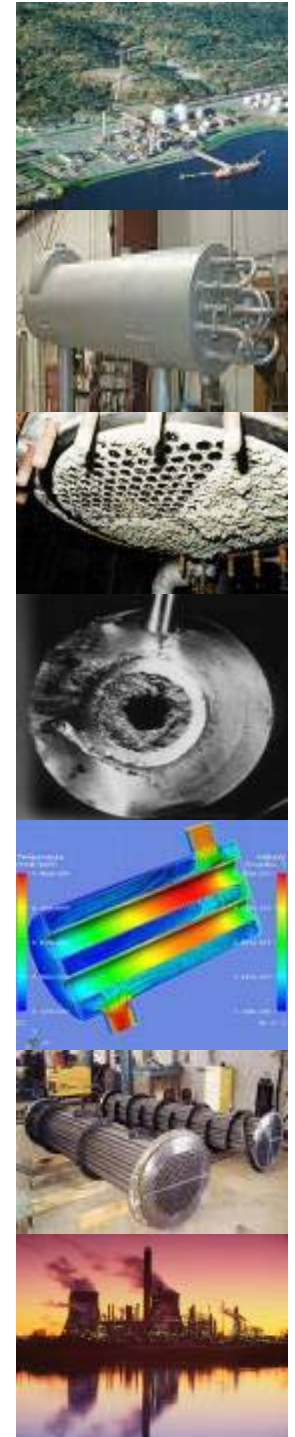


Aims

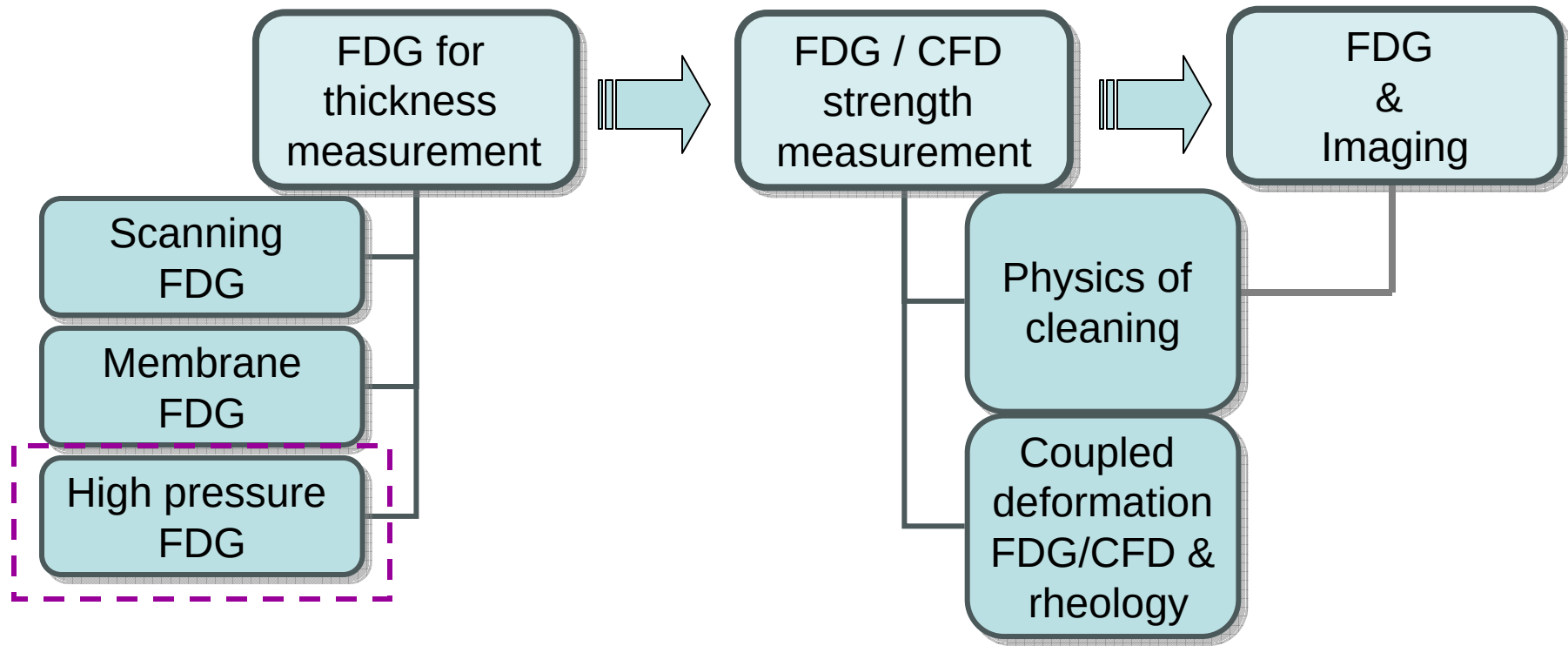
- Measure foulant thickness in annular test sections
- Monitor fouling growth
- Study stress
 - Deposition
 - Cleaning

FDG

CFD



Fluid dynamic gauging (FDG)



milk foulants

mineral scales

baked food soils

polymer layers

food proteins

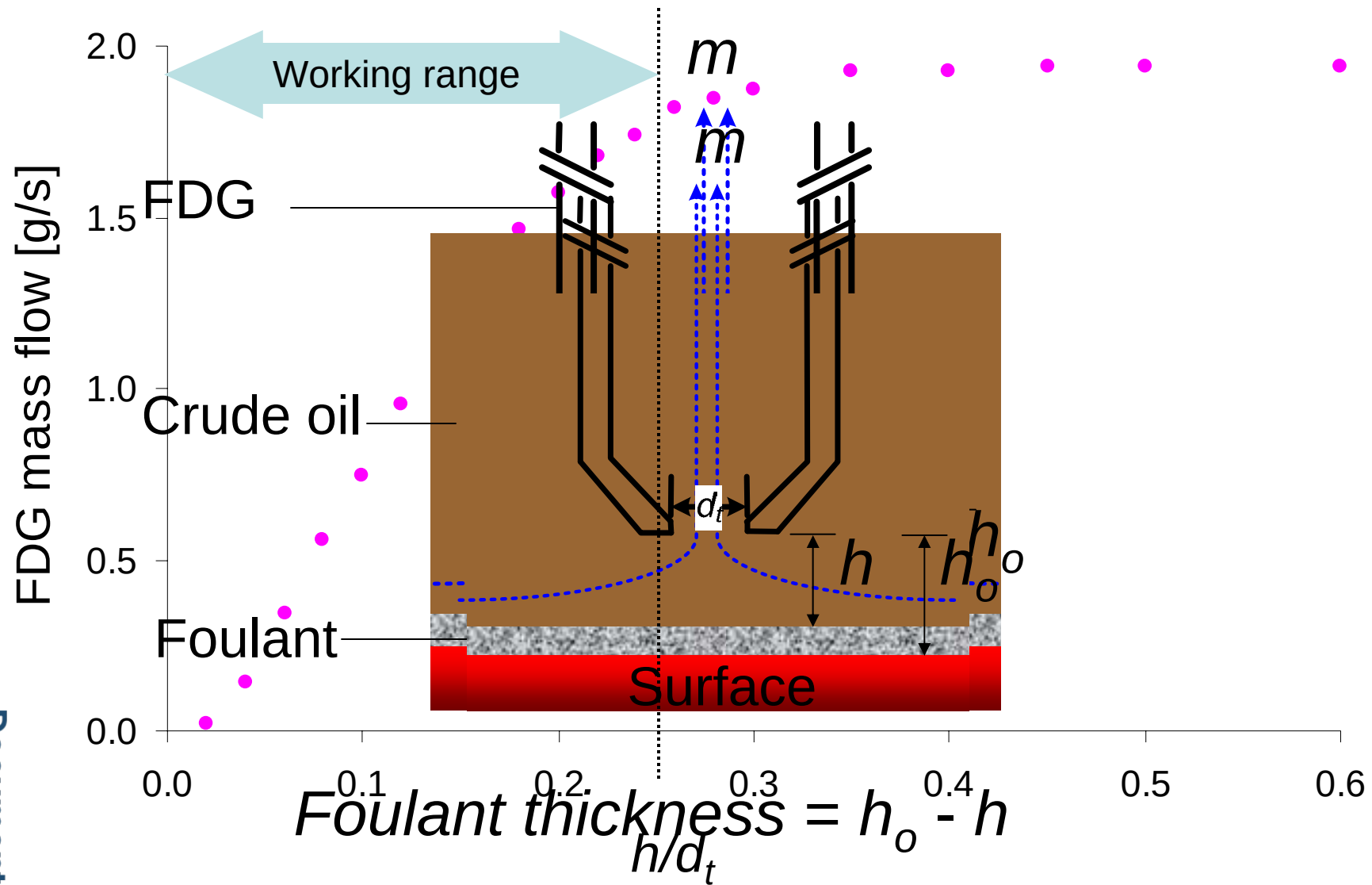
crude oil deposits

fats/waxes

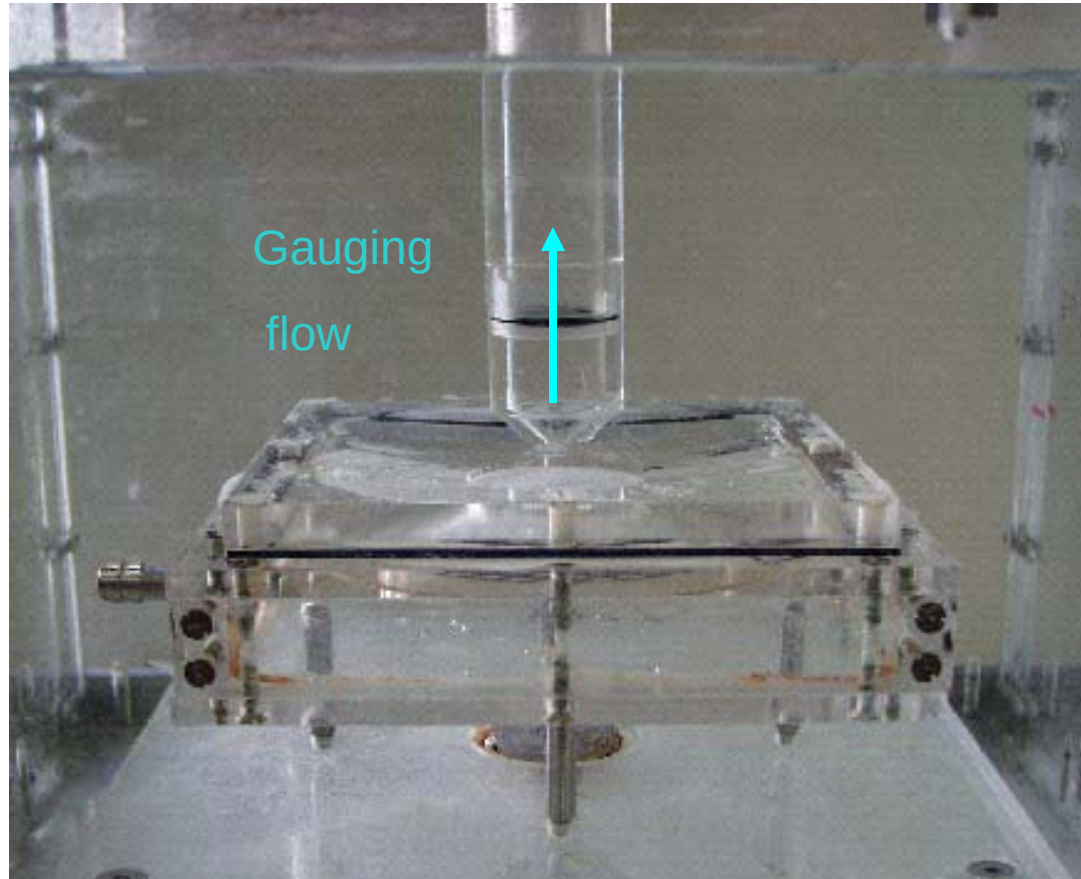
biofilms

time

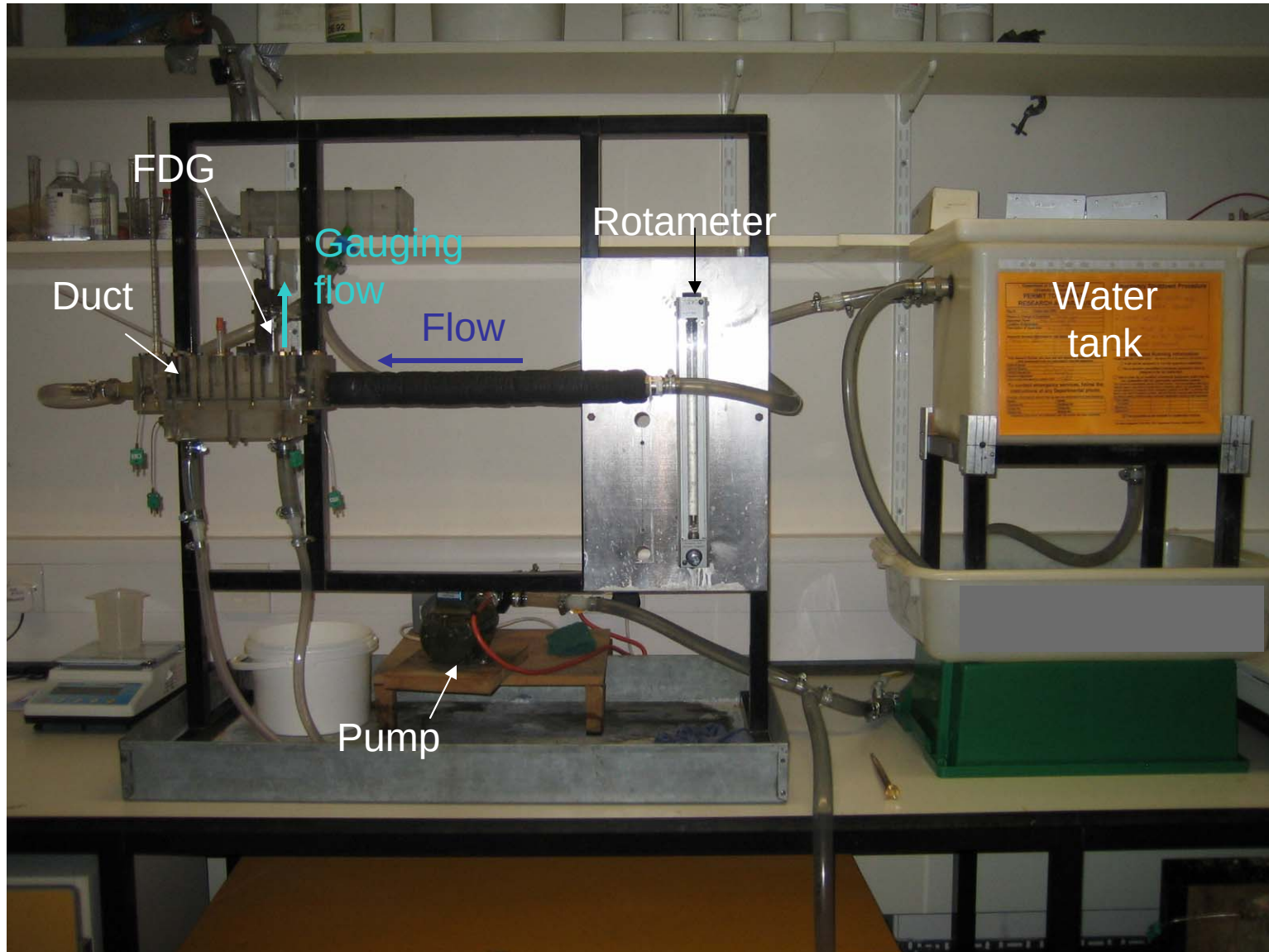
Principles of FDG



FDG in stagnant liquid



FDG in duct flow



FDG in duct flow

