

Membrane Chemical Reactor for industrial wastewater treatment

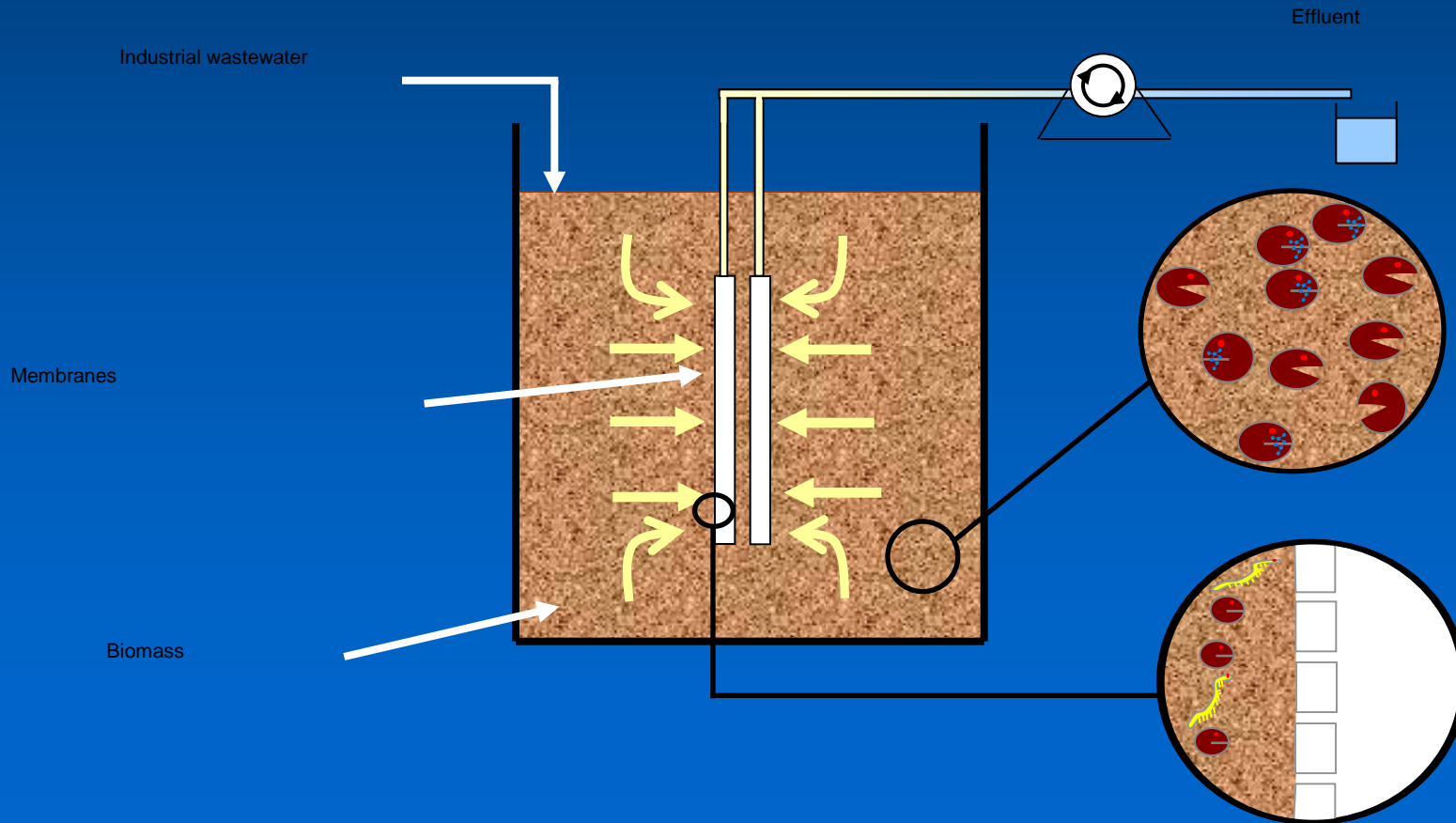
Bruce Jefferson

Acknowledgment

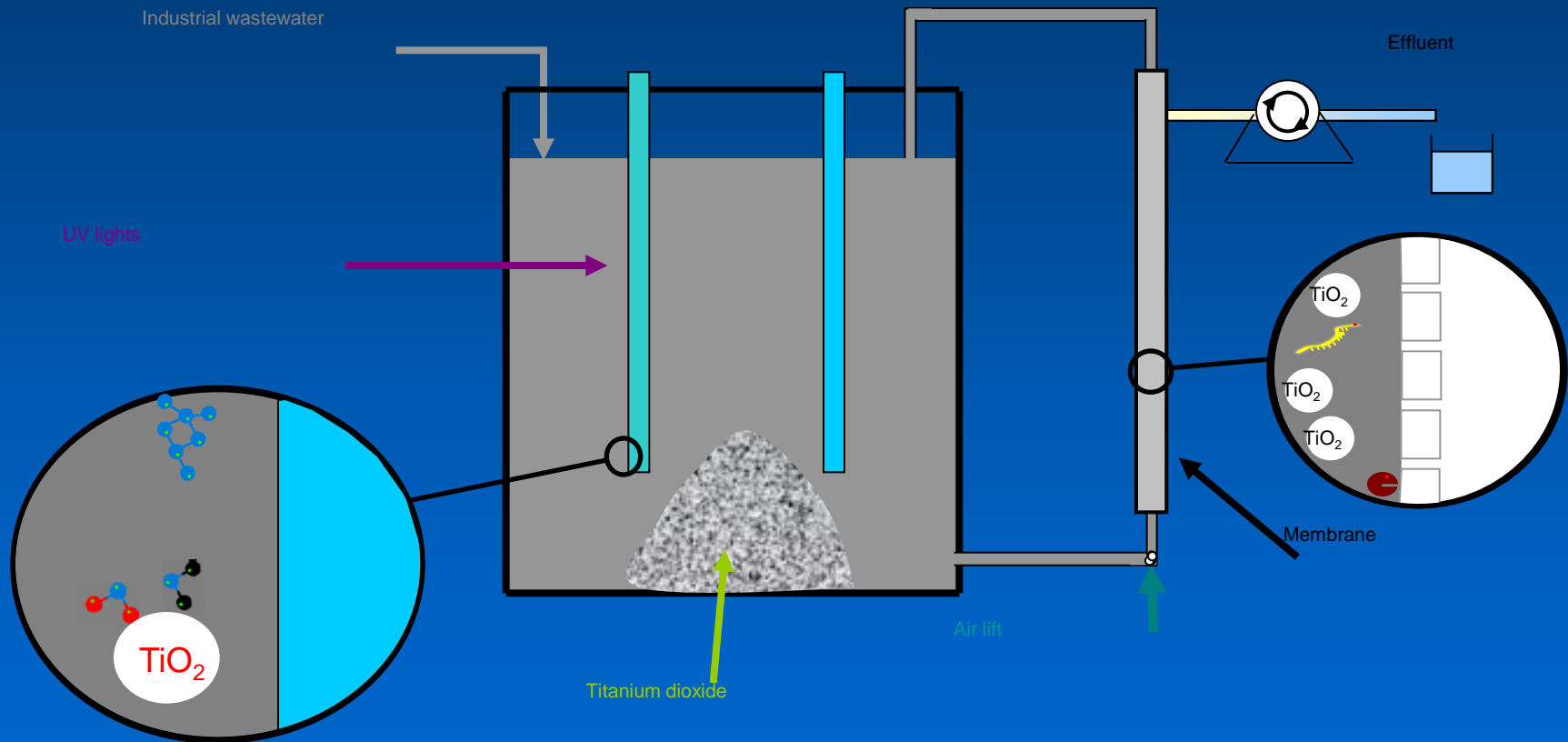
This study is part of the EU Innowatech project (Contract No. 036882), which has been financially supported by the EU Commission within the thematic priority Global Change and Ecosystems of the Sixth Framework Program (FP6-2005-Global 4 - SUSTDEV-2005-3.II.3.2)



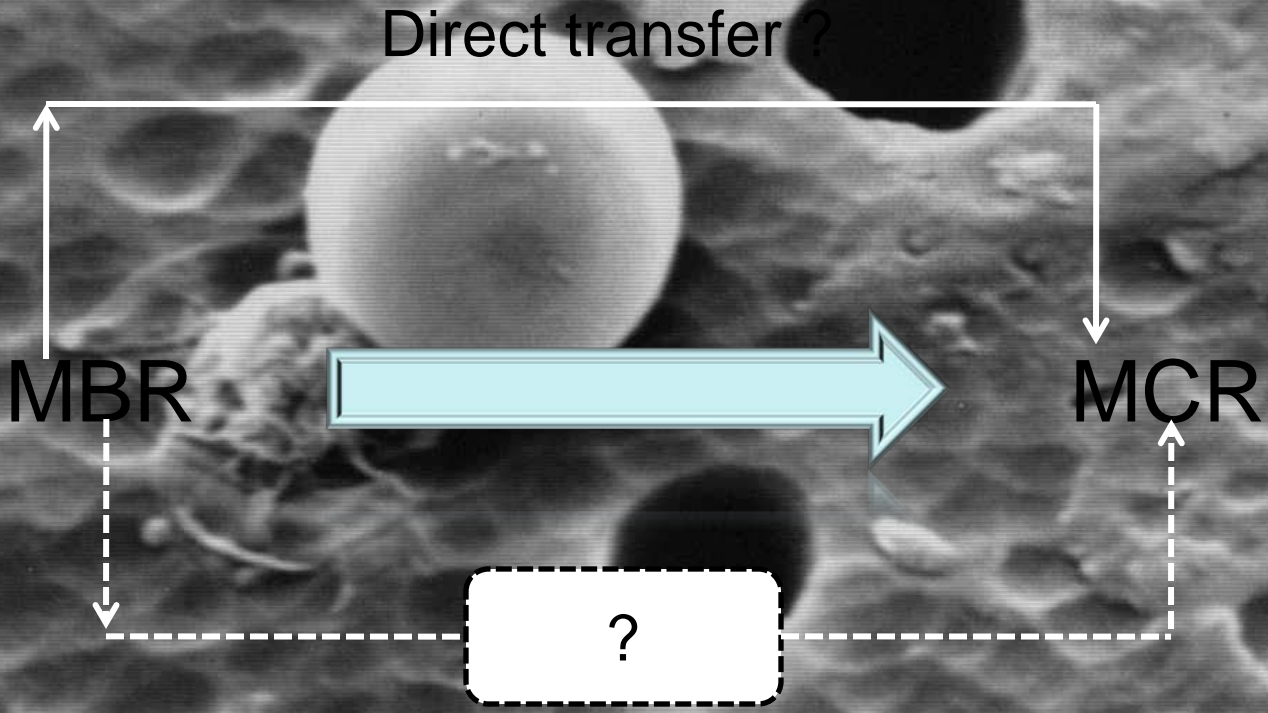
Membrane Bio Reactor



Membrane Chemical Reactor



Retain the TiO_2 with a barrier

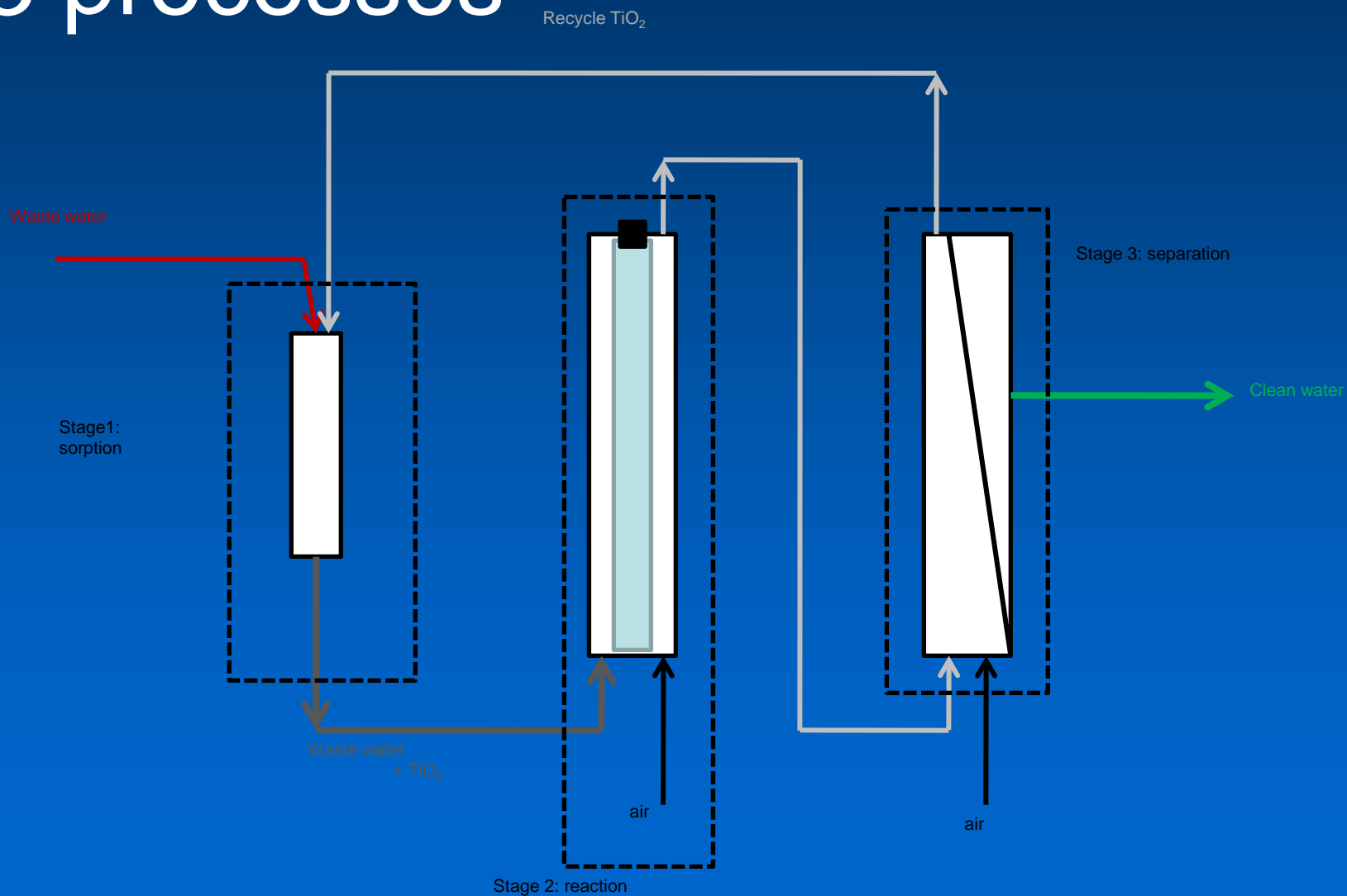


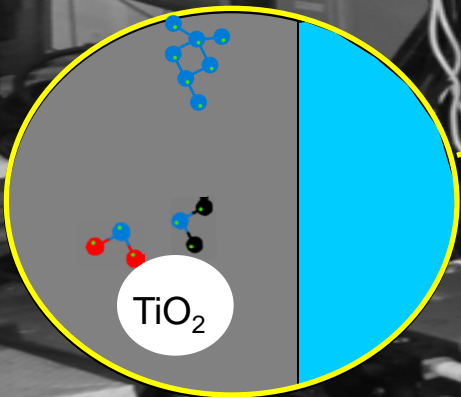
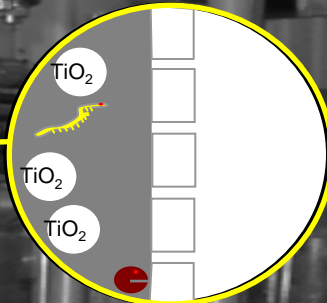
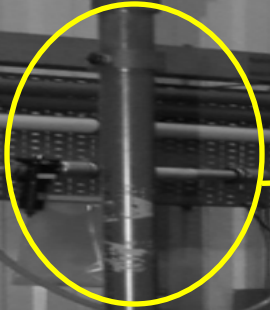
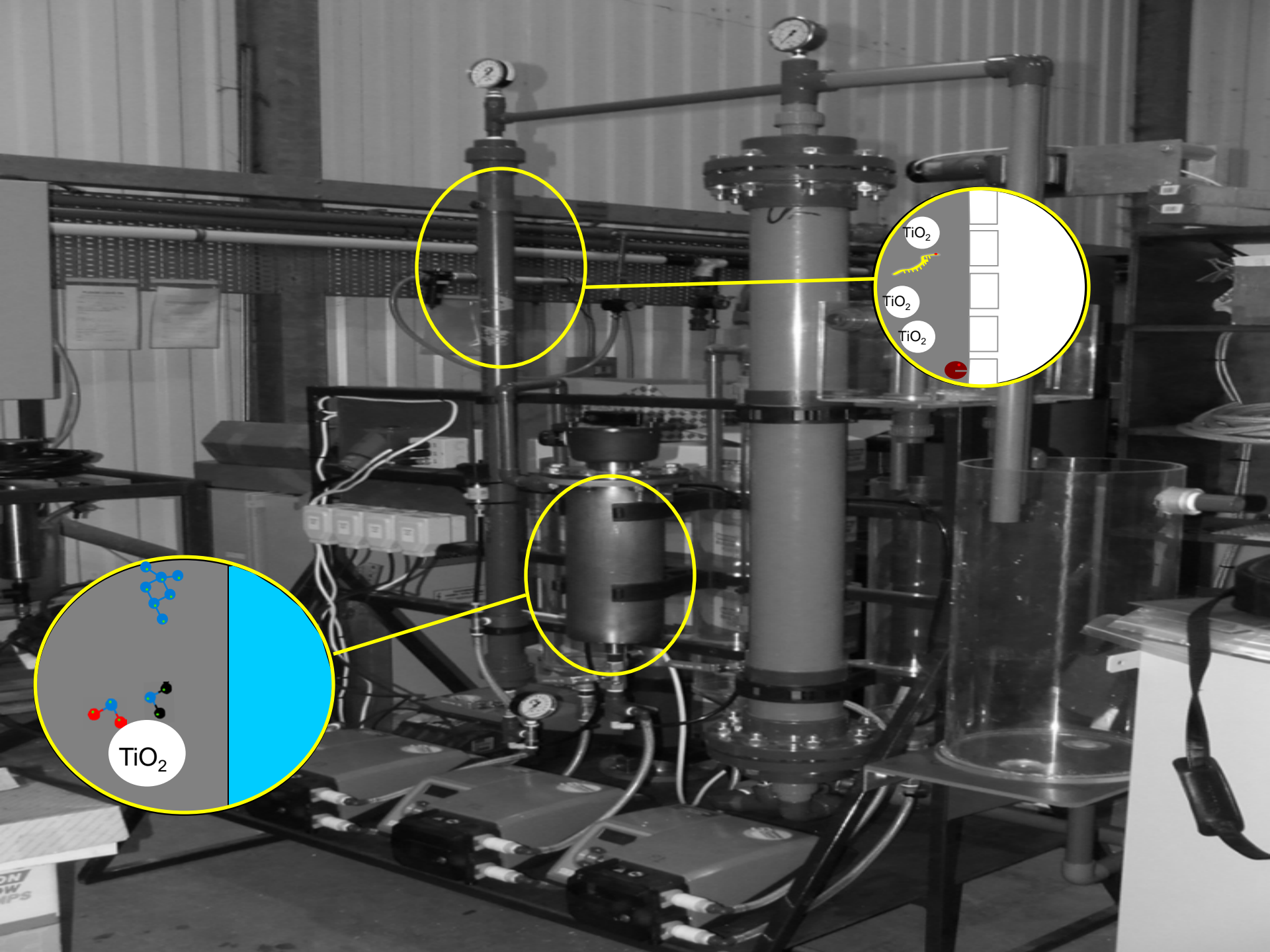


Attractive attributes

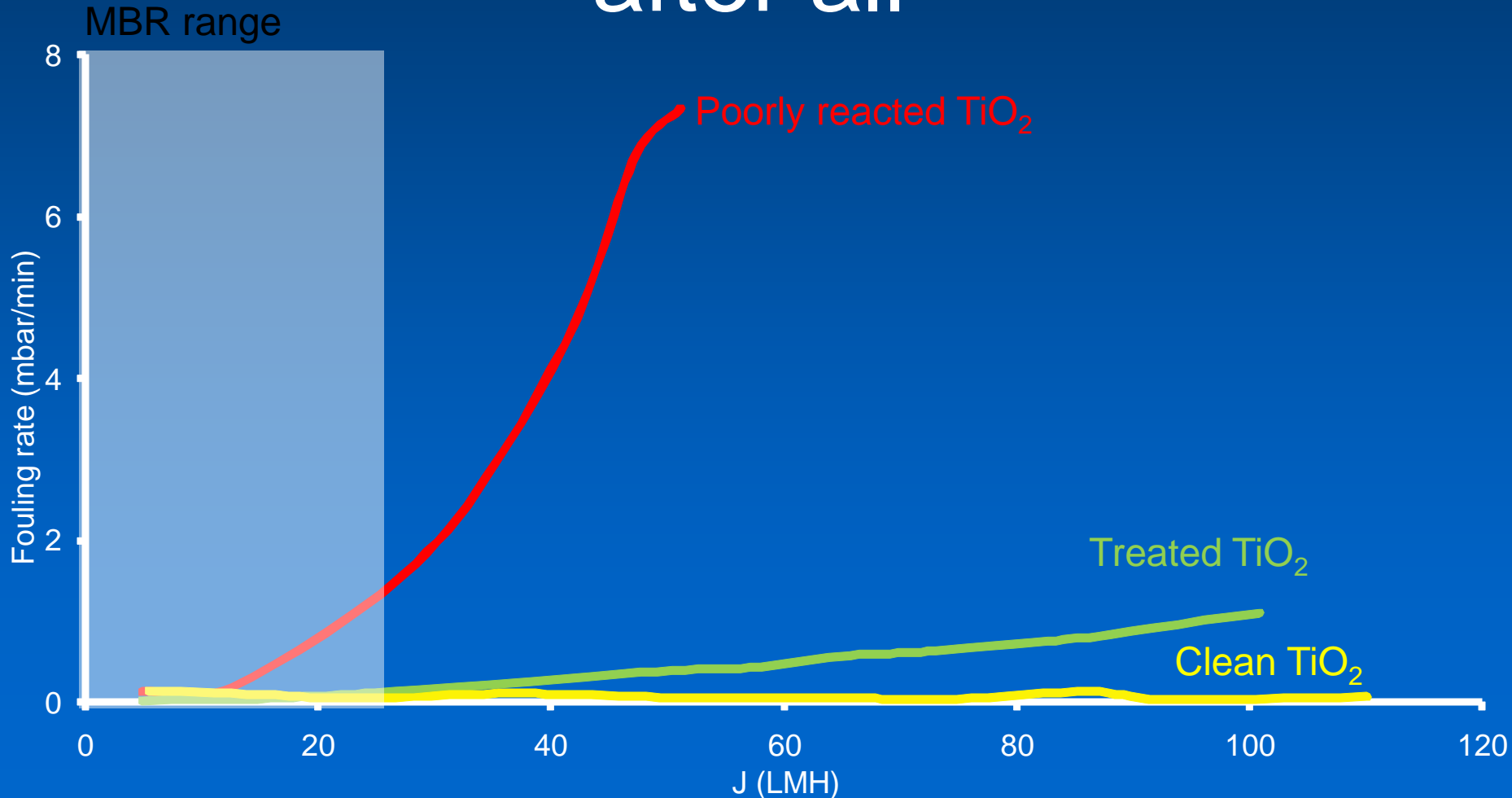


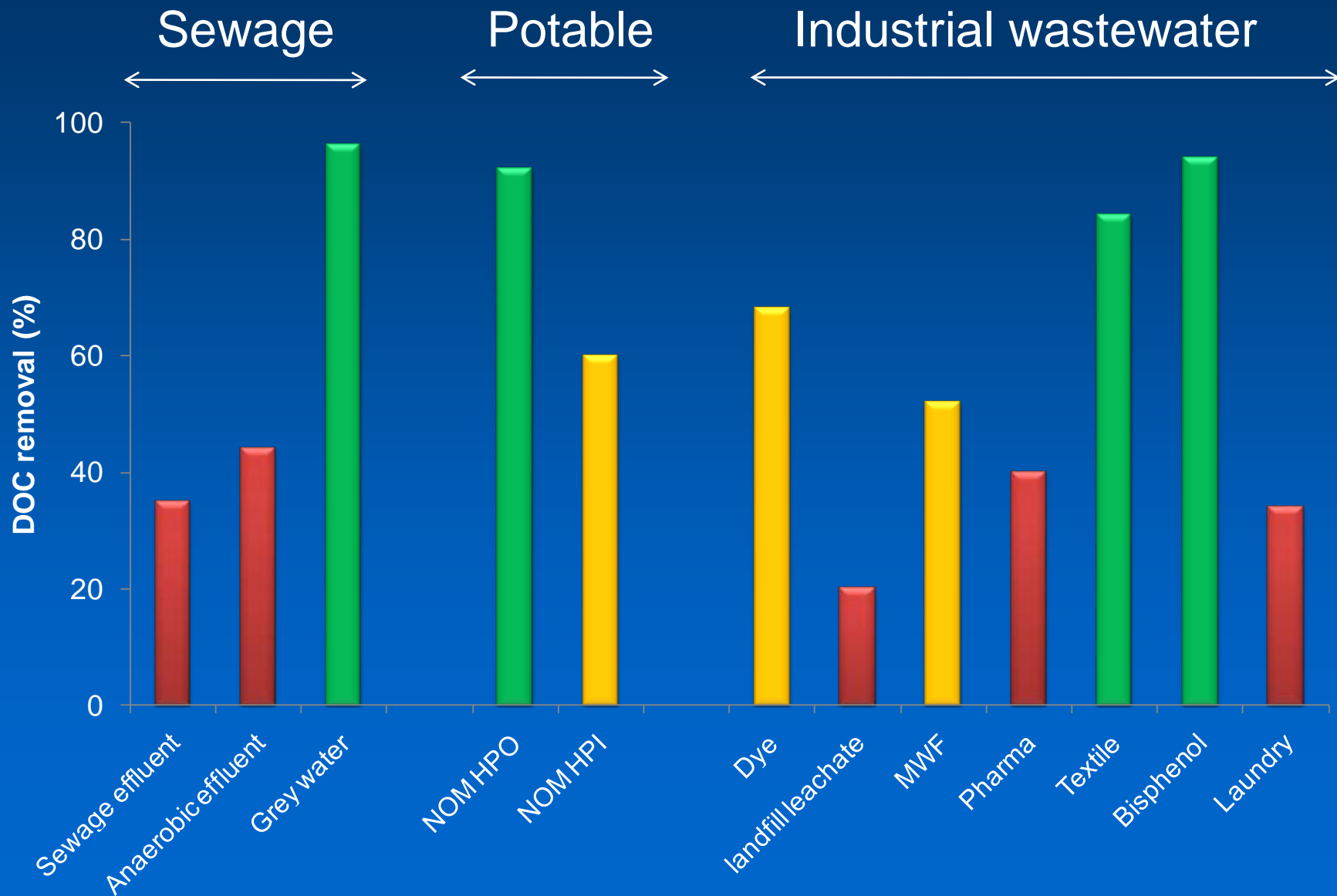
3 processes



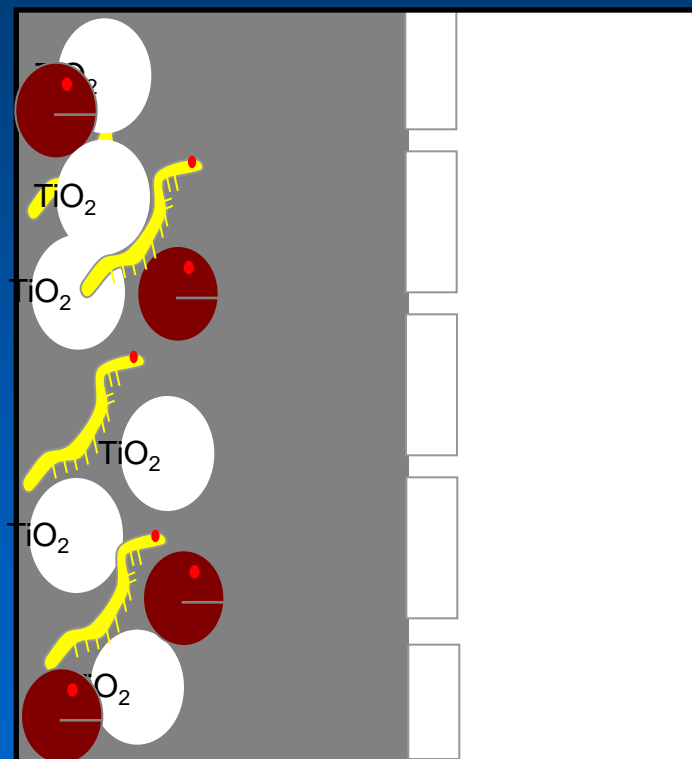
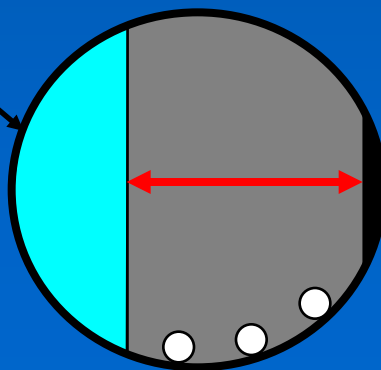
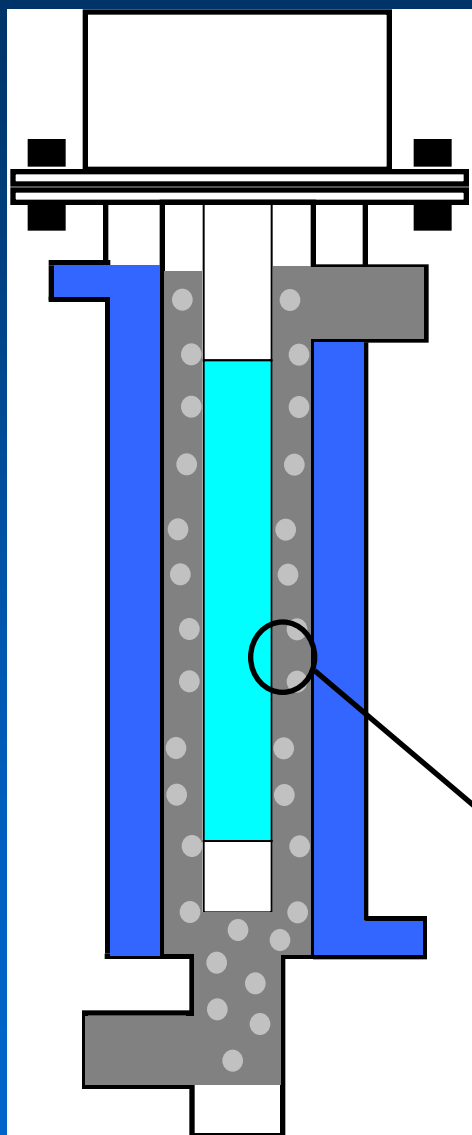


Not really about the membrane after all

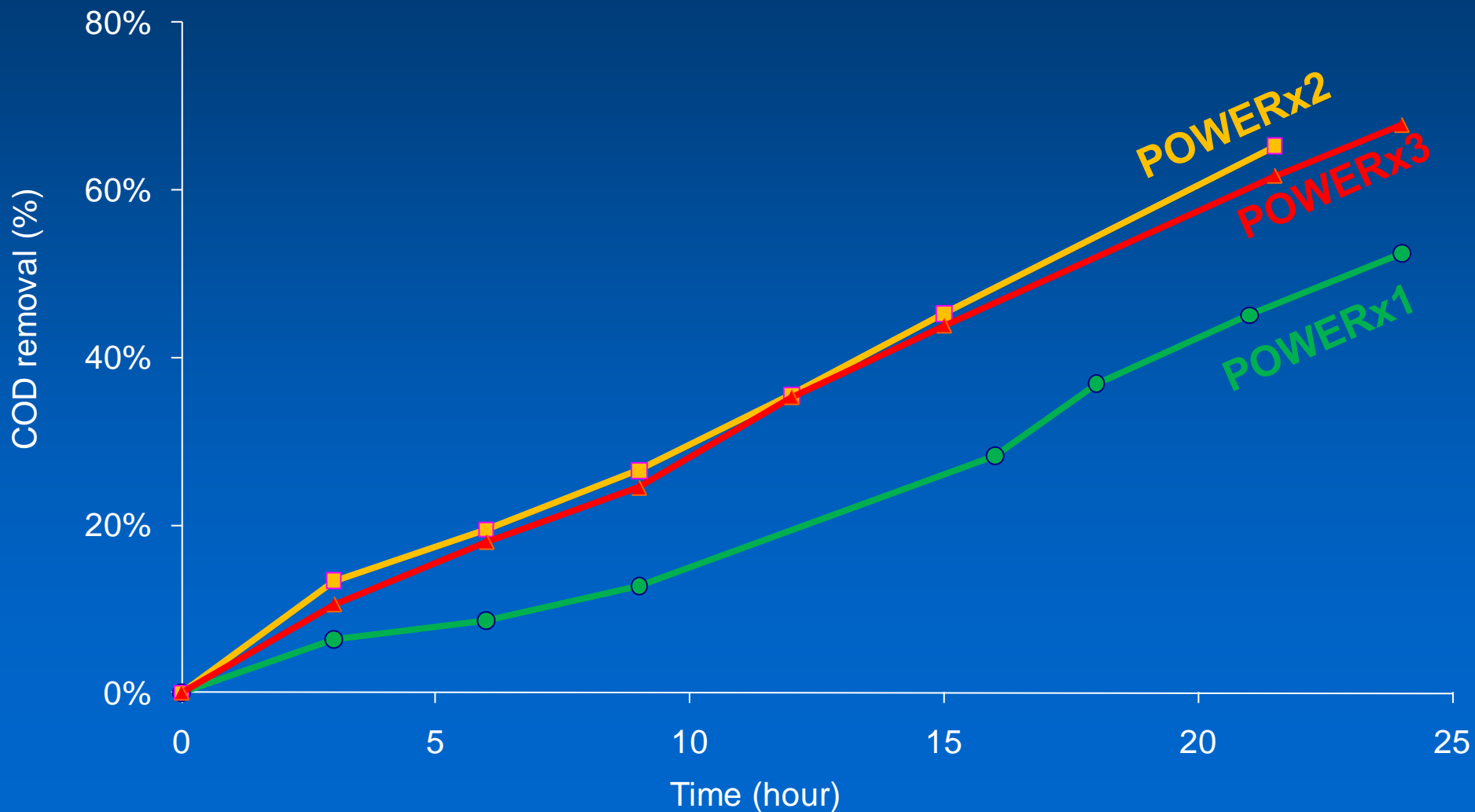




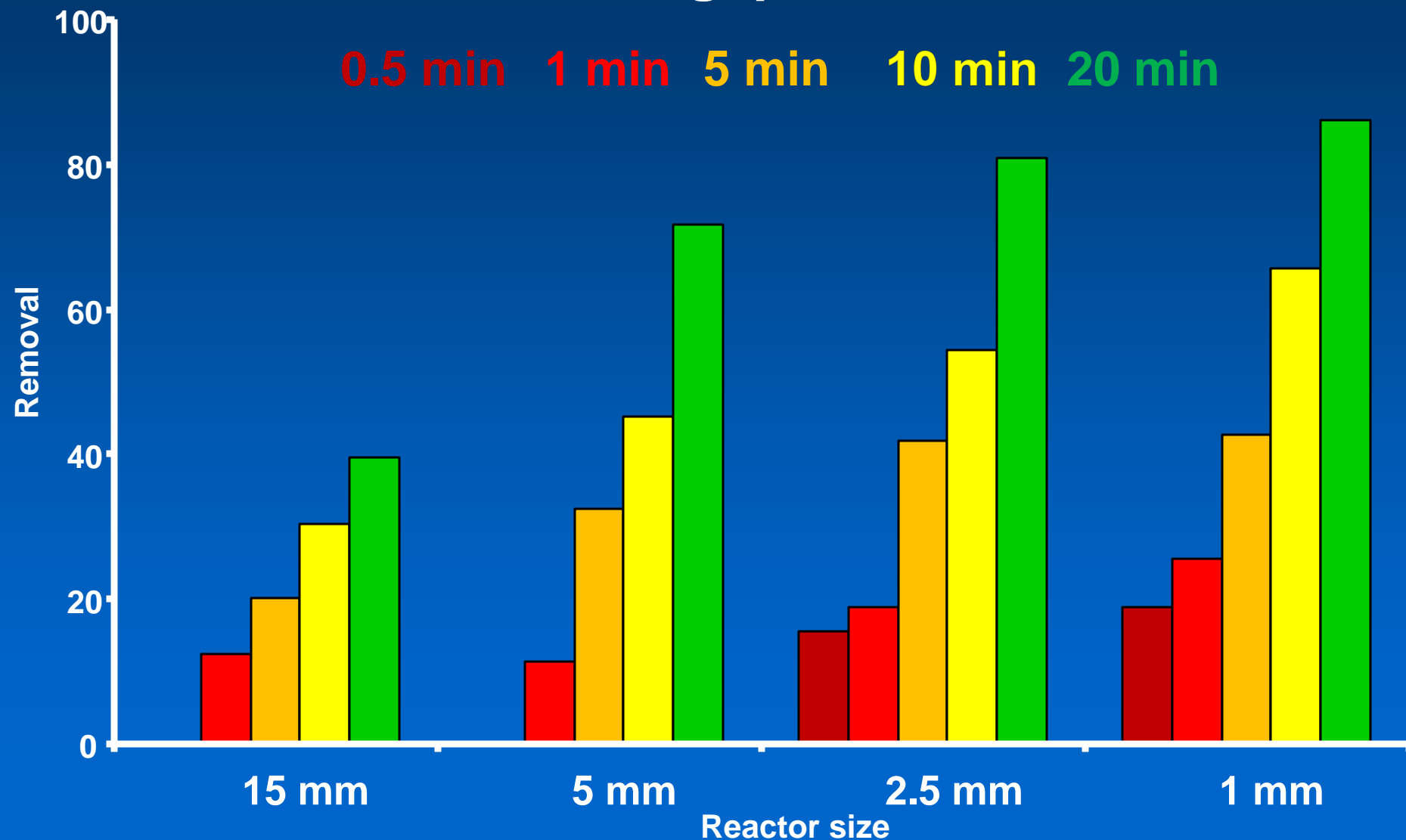
Key components



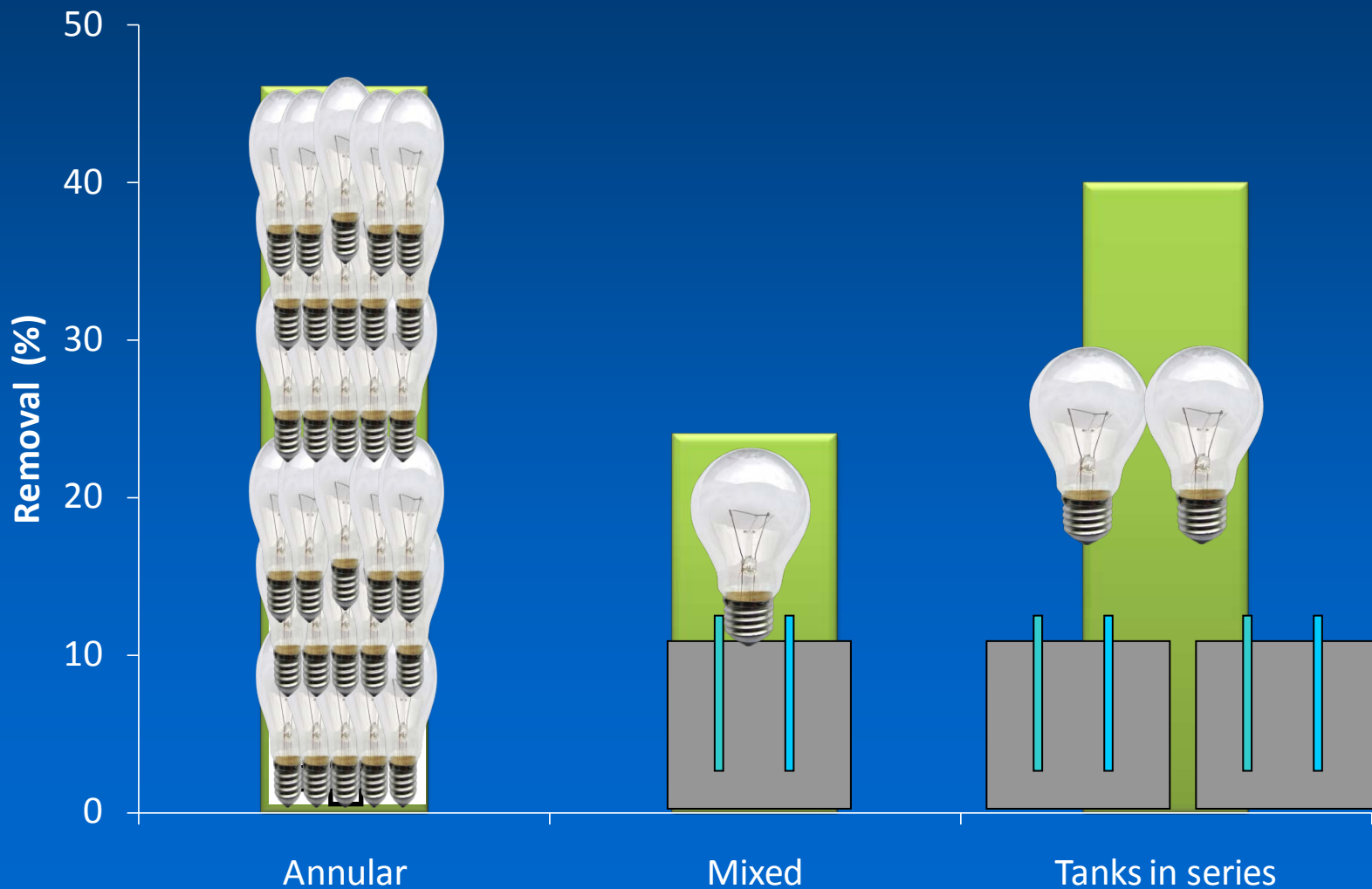
So just turn the power up.....



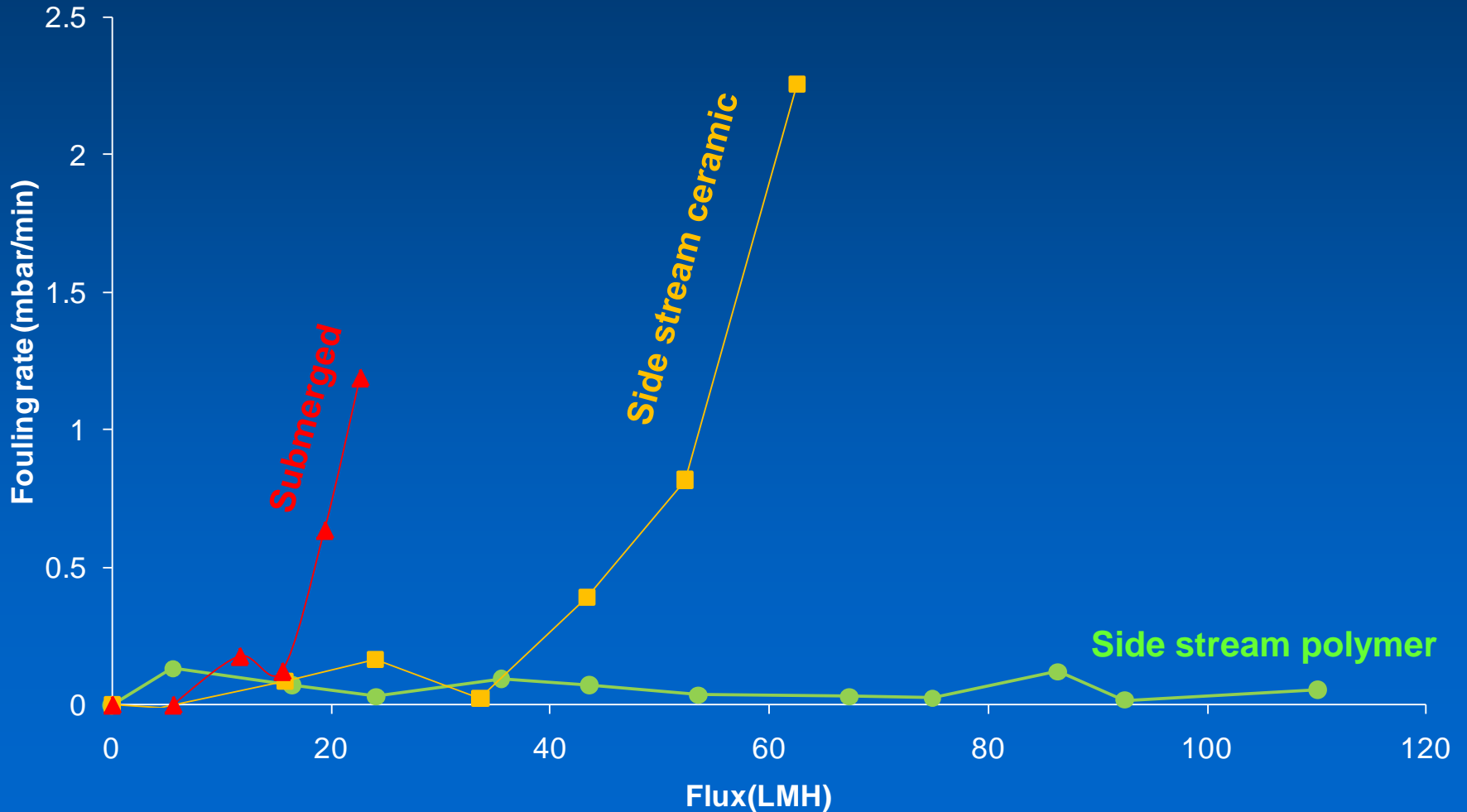
OK, make the gap smaller.....



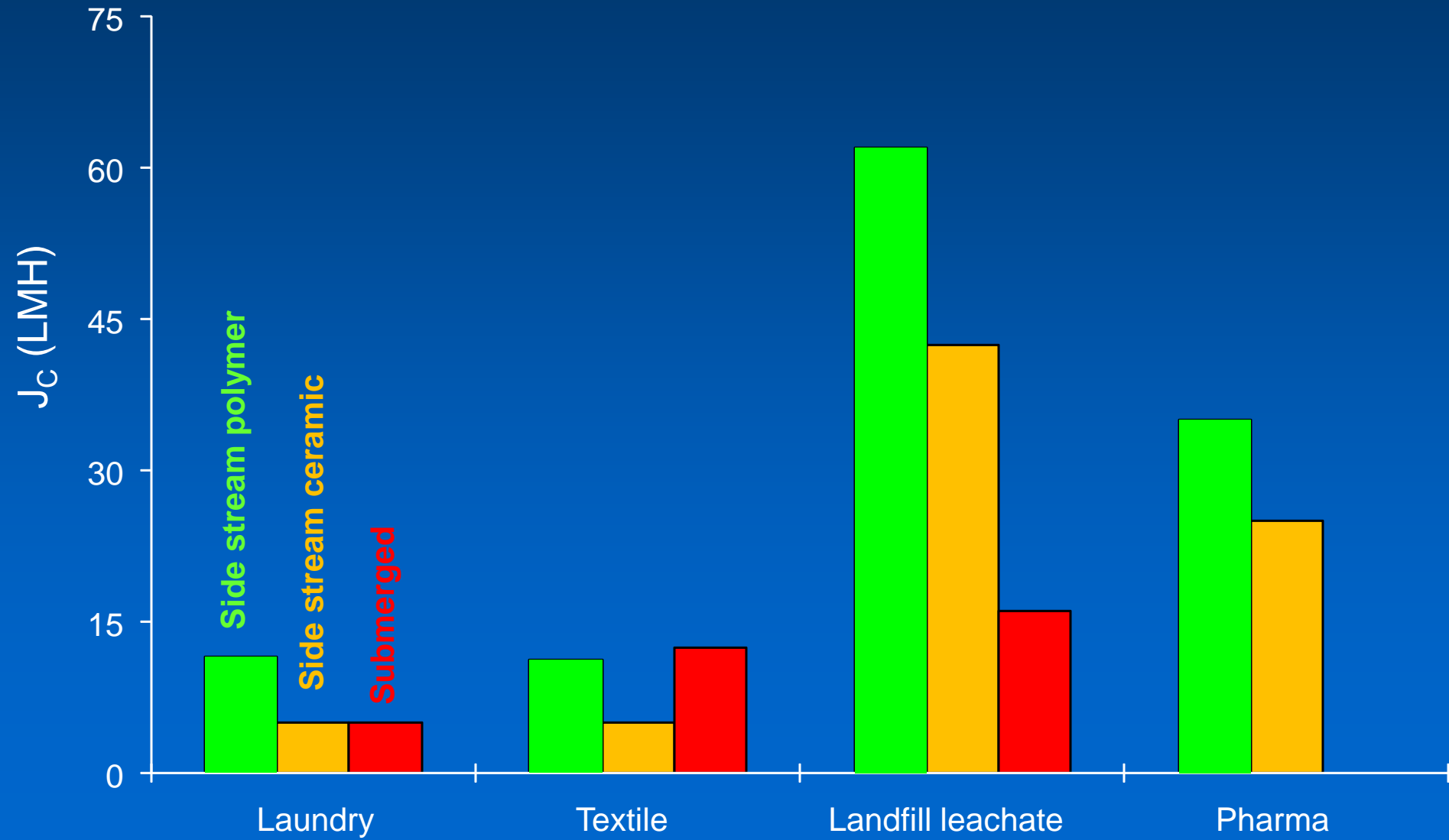
Reactor design...



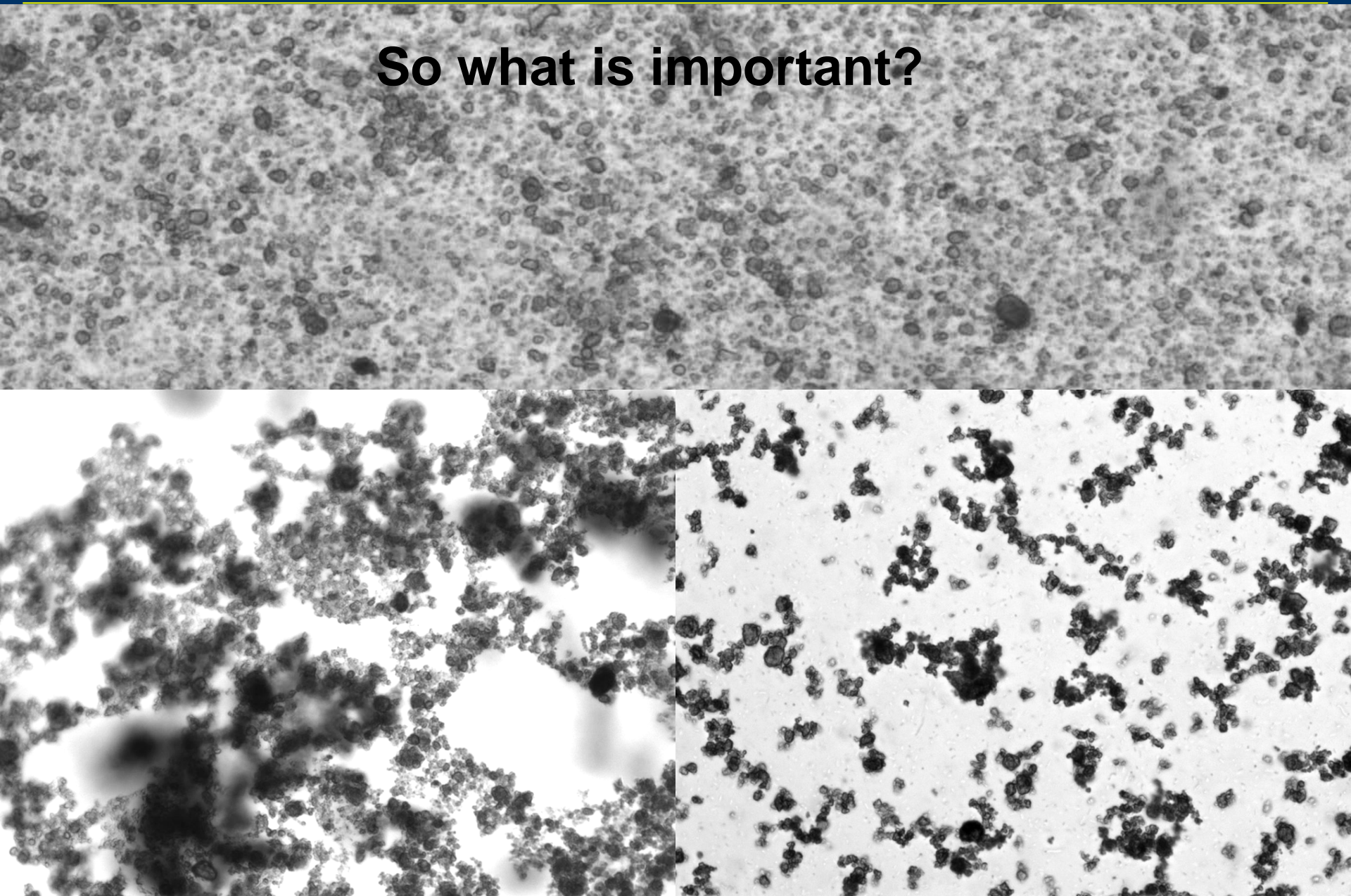
Does the type of membrane matter?



Does it hold for all waste types ?



So what is important?



Where is the future?

