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# OMICS INTERNATIONAL

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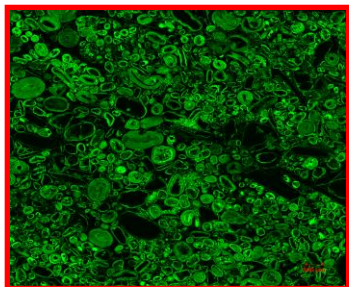
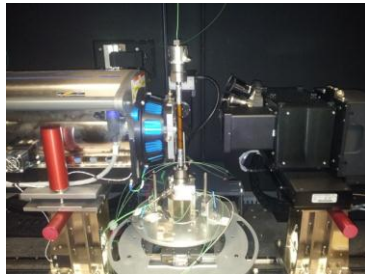
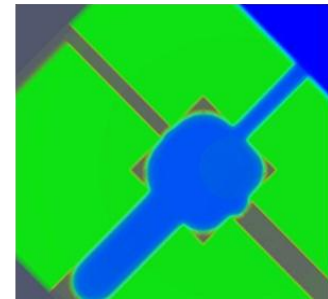
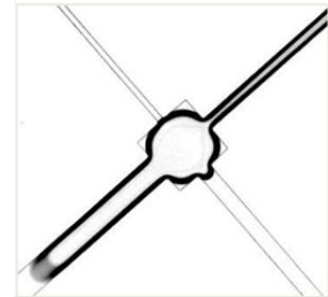
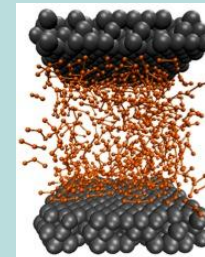
# Complex Fluids group – dr Edo Boek

Chemical Engineering Dept, Imperial College London, UK



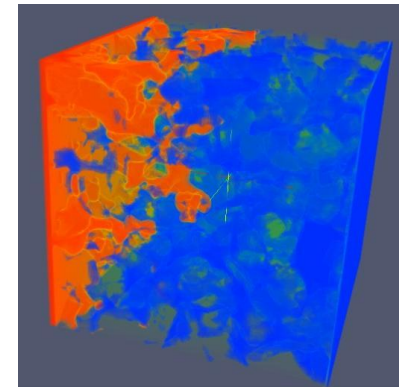
## Research interests

- **Multi-scale imaging** and simulation of flow and structure
- **Complex fluids**: oil / water / CO<sub>2</sub> / colloids / polymers / surfactants ..
- Flow in porous media – applications in CO<sub>2</sub> storage / EOR
- **Formulation** and Non-Newtonian rheology
- **molecular** level explanation of **macroscopic** behaviour
- pore-scale **multiphase** flow and **reactive** transport
- **dynamic** properties (e.g. rheology) and **microstructure**



## Experiment & Simulation:

- **Flow Imaging**: micro-CT and medical CT
- **Microfluidics** & etched micro-models
- **Rheology**: ambient & high P (1000 bar)
- **Microscopy**: light & confocal laser scanning
- **Simulation**: Flow (LB, DPD, MPCD) and Structure (MD, MC) – hybrid methods



# Journal of Chemical Engineering & Process Technology

## Related Journals

- Journal of Petroleum & Environmental Biotechnology
- Journal of Civil & Environmental Engineering
- Journal of Advanced Chemical Engineering



# Journal of Chemical Engineering & Process Technology Related Conferences

- 3rd World Congress on Petrochemistry and Chemical Engineering
- International Conference on Significant Advances in Biomedical Engineering





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