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Complex fluids and simple experiments - What could we do?

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Structural studies often aim to overcome the shortcomings of a sample without compromising on signal or accuracy. One critical aspect of studying rheologically complex liquids is flow, and a sample's deformation history and characteristic time scales can complicate interpretation. In this talk I will discuss some simple (and cheap) methods of avoiding unwanted flow, but also adjusting fluid time scales when flow is desirable. We will also examine new (cheap and easy) methods of imposing flow on unsuspecting samples to benefit structural insights and enhance understanding of commercially relevant processes and materials.

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