



2025 ELGI AGM Best Paper Award

35th ELGI AGM

April 2025

Copenhagen Denmark

ELGI Awards Committee unanimously selected the Paper & Presentation:

SiToLub – Simulation Tools for the Design of Safe and Sustainable Lubricants

For the 2025 Best Paper Award

presented by

Ben Fry

RS Clare & Co Ltd / SiToLub Consortium

United Kingdom

All the presentations were evaluated on several criteria that covered

- * Content of the Paper
- * Quality of the Presentation
- * Embodied the Spirit of Originality & Technological Innovations

On behalf of this committee and the ELGI board we would like congratulate Ben Fry
on this important and worthy achievement.



Author: Ben Fry

R.S.Clare & Co.Ltd

Co Author: SiToLub Consortium

Dr Ben Fry is a grease development chemist at RS Clare & Co Ltd. He received a PhD in tribology from Imperial College, London in 2020 studying the friction reducing mechanism of lubricant additives. Since joining RS Clare he has been involved in developing greases for a variety of different applications and is the lead participant for RS Clare on the SiToLub project.

SiToLub – Simulation Tools for the Design of Safe and Sustainable Lubricants

The purpose of this paper is the need to promote a low carbon economy while ensuring effective actions to overcome the obstacles that the lubricant companies are facing (e.g. ever-changing regulatory restrictions on the chemicals, more demanding technical requirements of the industry, etc.) has led to the need for using computational models to accelerate the time to market of novel lubricant formulations. This paper will address the aims of SiToLub, suggesting how this tool will be used to speed up and improve the formulation of new greases and lubricants and show some initial results from the different model.