

2014 ELGI AGM Best Paper Award

The ELGI Best Paper Award committee is pleased to announce that this year's award for the best paper in joint first place will be presented to Siegfried Lucazeau (Nyco-France)

All the presentations were evaluated on several criteria that covered both the content of the paper and the quality of the presentation.

On behalf of this committee and the ELGI board I would like congratulate Siegfried in recognition of his work for this well-deserved achievement.

Mehdi Najafi- Fathi
BPA Committee Chair



Siegfried Lucazeau
Nyco - Paris France

In 1996 Siegfried obtained his lingual Chemical Engineering degree (EHICS/ECPM, Strasbourg)

1997-2002: Technical Service & Product Development Papeteries De Mauduit – Schweitzer-Mauduit France [Paper industry]. 2002-2004: Technical Sales Manager – National Starch&Chemical (Henkel), France [Adhesives for the industry, Packaging and Converting]. 2007-2011: Technical Sales Manager, Petroleum products, Western Europe. Vanderbilt International Sarl, Geneva (R.T.Vanderbilt Holding Company Inc., Norwalk CT, USA). [Production and sales

of speciality additives for lubricants]

2004-2007: Manager, Lubricants market – Lavallee, France. [Distribution of specialty chemicals for oils and greases in France]. Since 2011 he is employed at NYCO, Paris [Production and sales of performance esters and lubricants for the aviation, industry and automotive]. He first joined as Technical Support Manager then took the position of Product Manager, Automotive & Industry (Management of all technical aspects of design, marketing, production and performance of ester base fluids and formulated lubricants for automotive and industry) siegfried.lucazeau@nyco.fr

Combination of Novel Antioxidant System and Thermally Stable Esters for High Temperature Greases

By combining highly thermally stable esters and high performance anti-oxidant systems derived from aviation turbine lubrication technology, it is possible to obtain fluids of superior high temperature performance. This technology is used, for instance, in high temperature chain oils.

Such fluids have been treated with inorganic thickeners to evaluate their potential as base fluids for high temperature greases. Behaviour of different thickeners is discussed, and careful selection provides greases with excellent mechanical stability, as well as good evaporation rates and oil separation levels.

The obtained greases have then been evaluated at high temperature by TGA at 250°C. Remarkable thermal stability is observed and discussed.

As expected, these products show significantly better high temperature performance than PAO based greases; they appear to be a technology of interest in applications where operating temperatures go beyond 180°C, where PAO based greases may be insufficiently resistant and silicone/PFPE greases are not yet necessary.