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Operando spectroscopy for resin curing

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STELLINGEN

Behorende bij het proefschrift

OPERANDO SPECTROSCOPY FOR RESIN CURING

van

Linda Elisabeth Eijsink

1. "Verandering is de enige constante" (Heraclitus via prof. Jan Engberts). The only constants in a true spectroscopy lab are change and an Andy.
2. A dynamic work environment teaches you flexibility and understanding. Especially when your favourite spectrometer has been disassembled.
3. Watching paint dry is not boring, it is just challenging to understand what you see.
4. The English language is arguably the richest language on the planet. What confuses people is that a simple word can have so many meanings. For example, the word tacky means many things, all of which can apply to coatings.
5. It is a truism that surfaces were invented by the devil. In paint, the difference between bulk and a surface is thermal conductivity and mass transport and ... the technique you use.
6. Being scooped is never nice, except when it is by your colleague.
7. "The art of knowing is knowing what to ignore" (Rumi) is an especially important skill in spectroscopy of complex systems.
8. A PhD project should start with a question, followed by four years defining it.
9. "When we try to pick out anything by itself, we find it hitched to everything else in the Universe" (John Muir). Changing bismethacrylate/styrene coatings requires an holistic approach.
10. Rubbish in gives rubbish out. A thorough understanding of the curing process is required to make well-founded suggestions for alternatives.
11. Technology readiness level (trl) is a loop. Working at the top of the scale is also working at the bottom.
12. A sole focus on biobased materials is not enough. Sustainable products are those made from renewable resources that do not harm animals (humans) and the environment, in the production, during and after use, and add value to all our lives.
13. Tomatoes are both a fruit and a vegetable. Similarly, *vinyl esters* are both (meth)acrylates and vinyl acetates and the use depends on the context and monolect.