

## A tribute to Isabelle Grillo



Contribution ID: 74

Type: **Invited speaker**

# The limits of mixing of clay- and bilayer -based lamellar phases

*Friday, 20 May 2022 12:30 (30 minutes)*

Isabelle's Grillo PhD goal in 1998 was to explore the conditions and therefore the limits of mixing synthetic anionic clays and all known types of surfactant-based lamellar phases: anionic, nonionic and cationic.

Only a fraction of the conditions of mixing, including osmotic pressure compatibility, adsorption and depletion effects were understood at that time. Isabelle Grillo published core knowledge in 2001, 2004, 2008 and 2011.

In this talk, we will summarize the seminal inputs of Isabelle Grillo in the characterization and therefore understanding of mixing "flat" colloids in known phase diagrams. We will illustrate further steps based on Isabelle's findings by the papers published since then.

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**Session Classification:** Talks