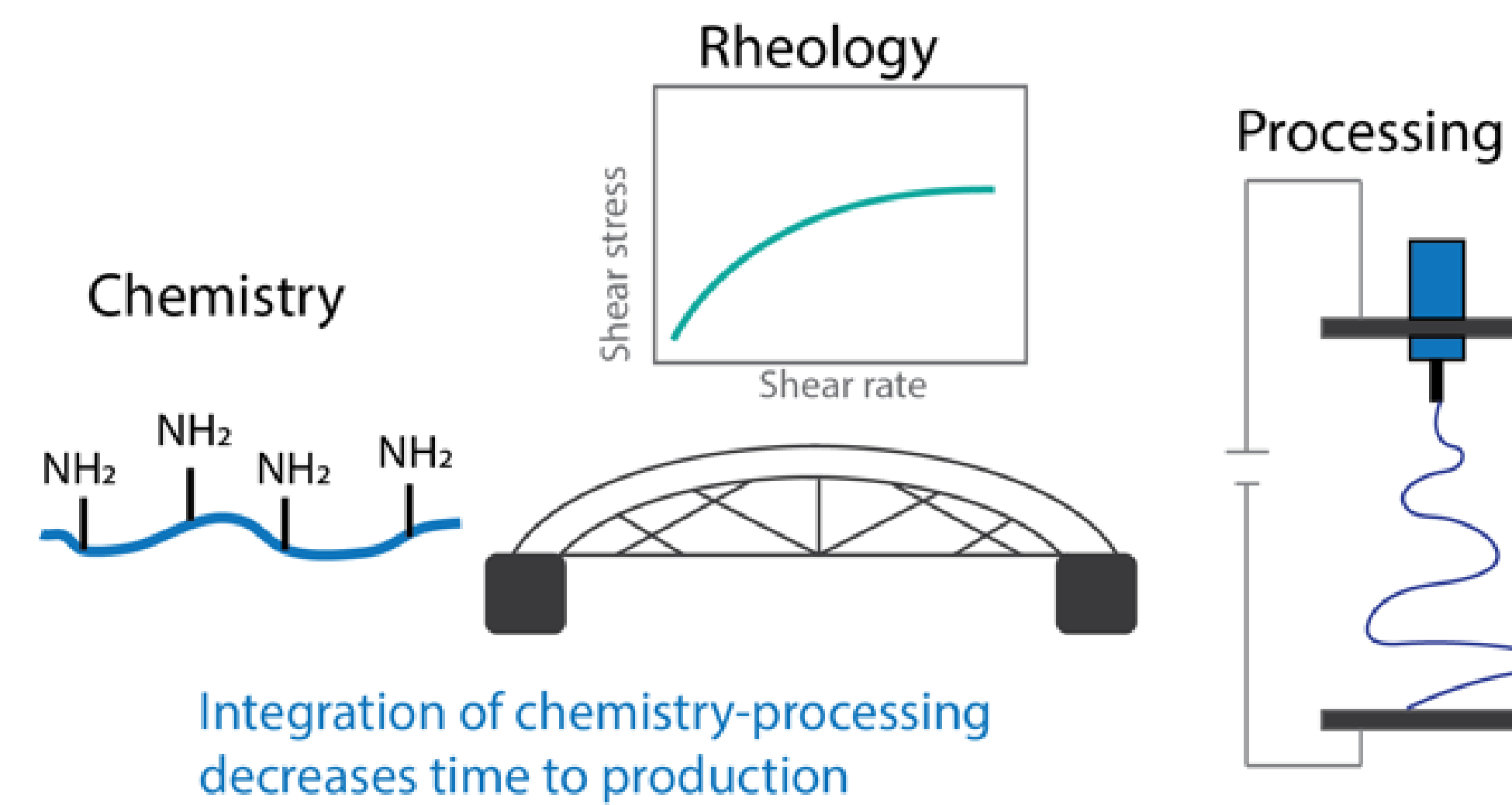
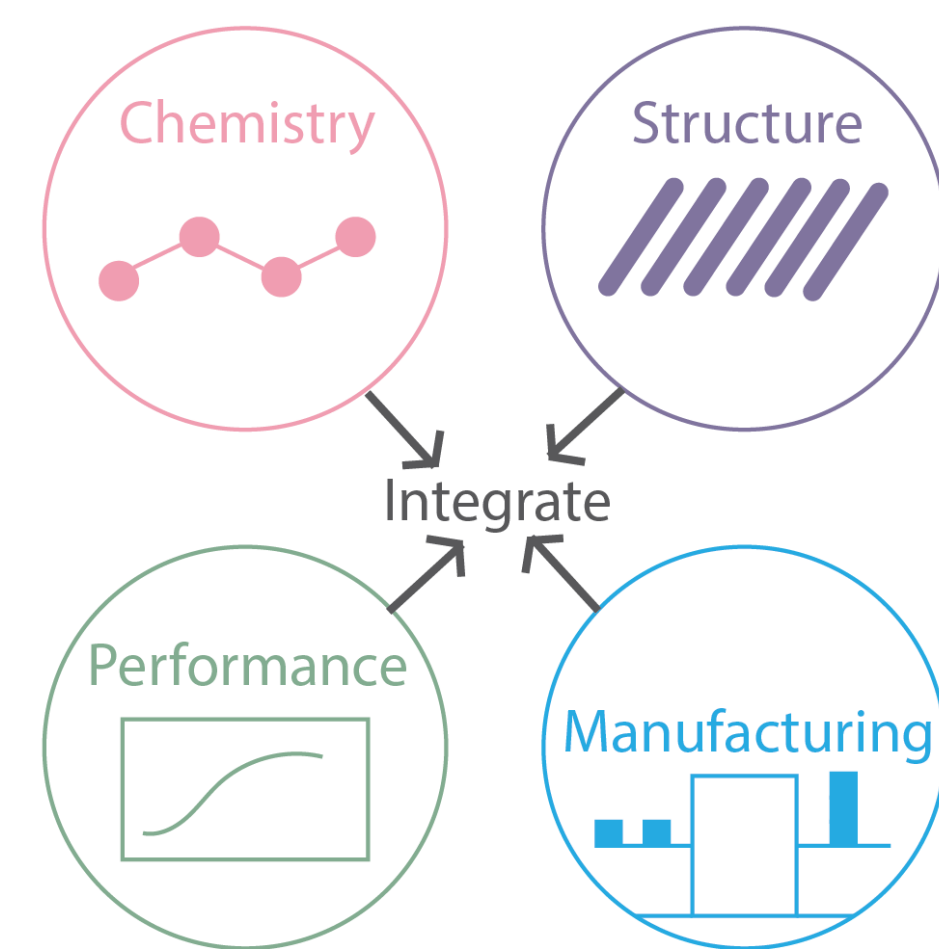


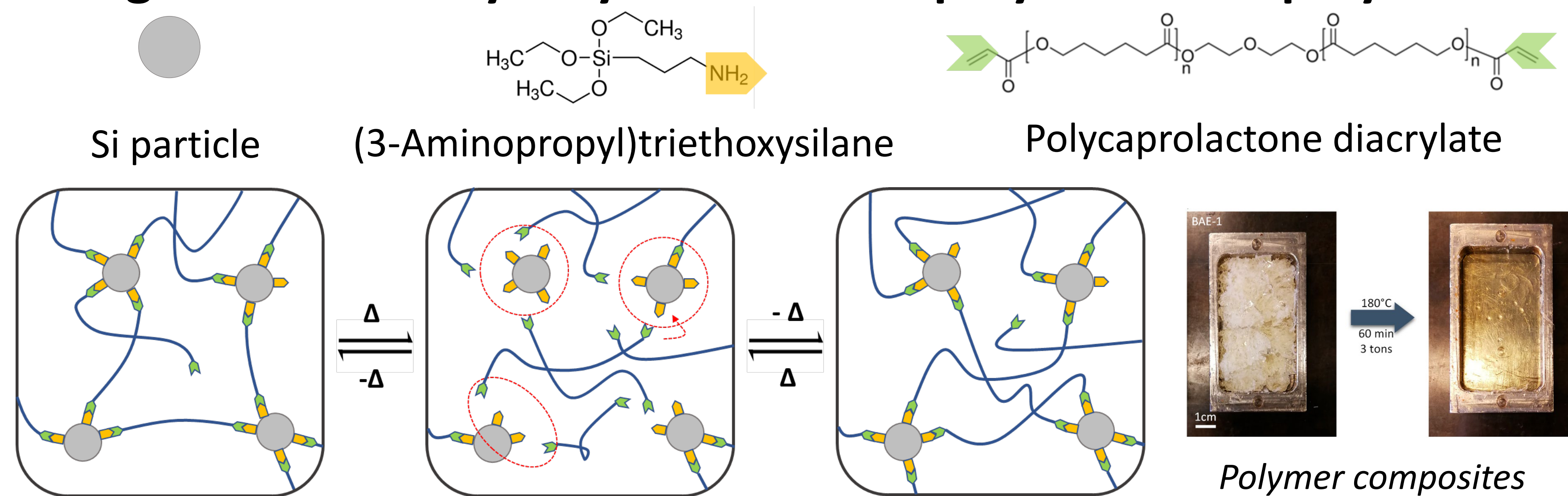
APPROACH TO PRODUCT AND PROCESS DEVELOPMENT FOR COMPLEX SYSTEMS



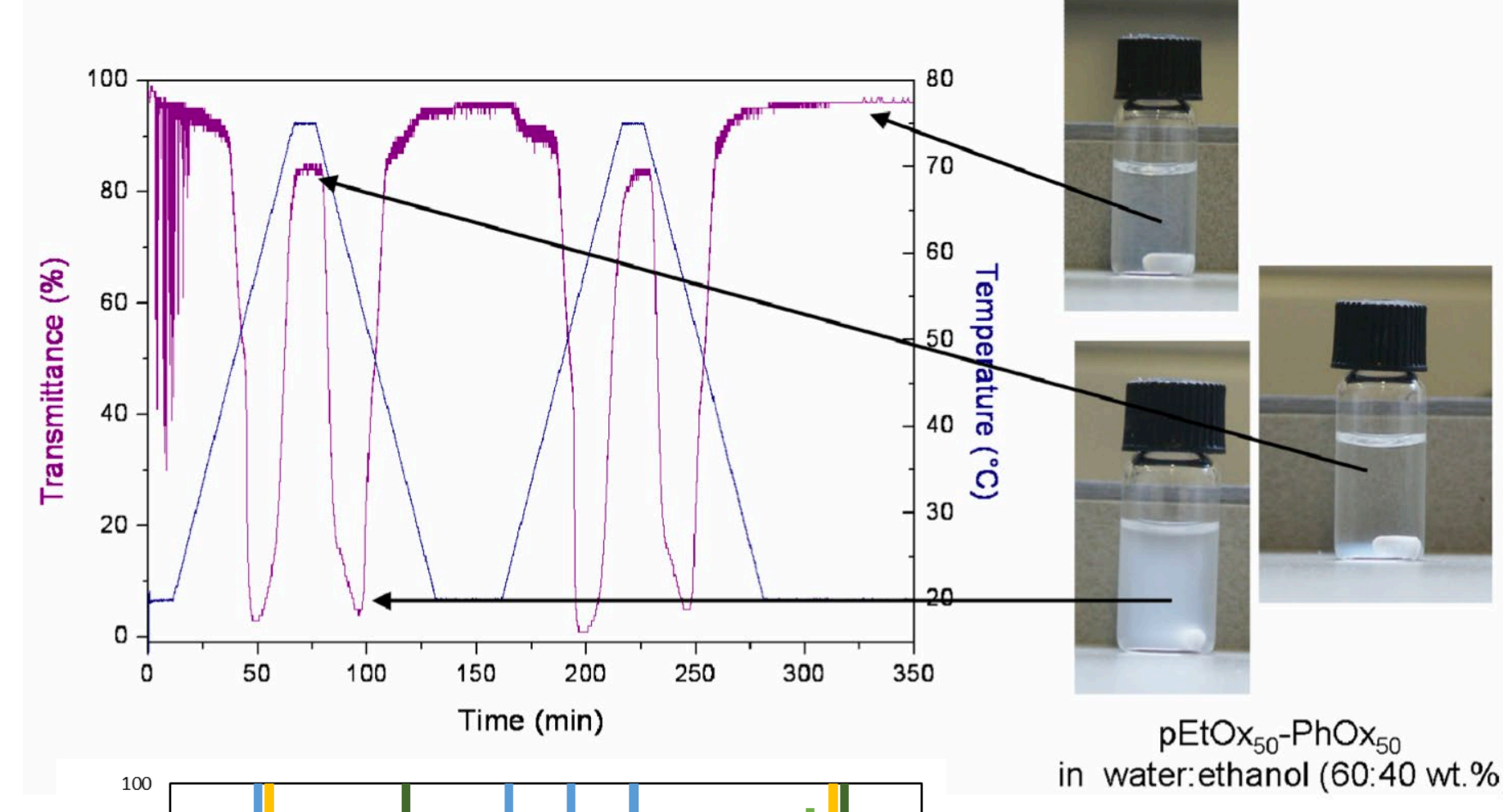
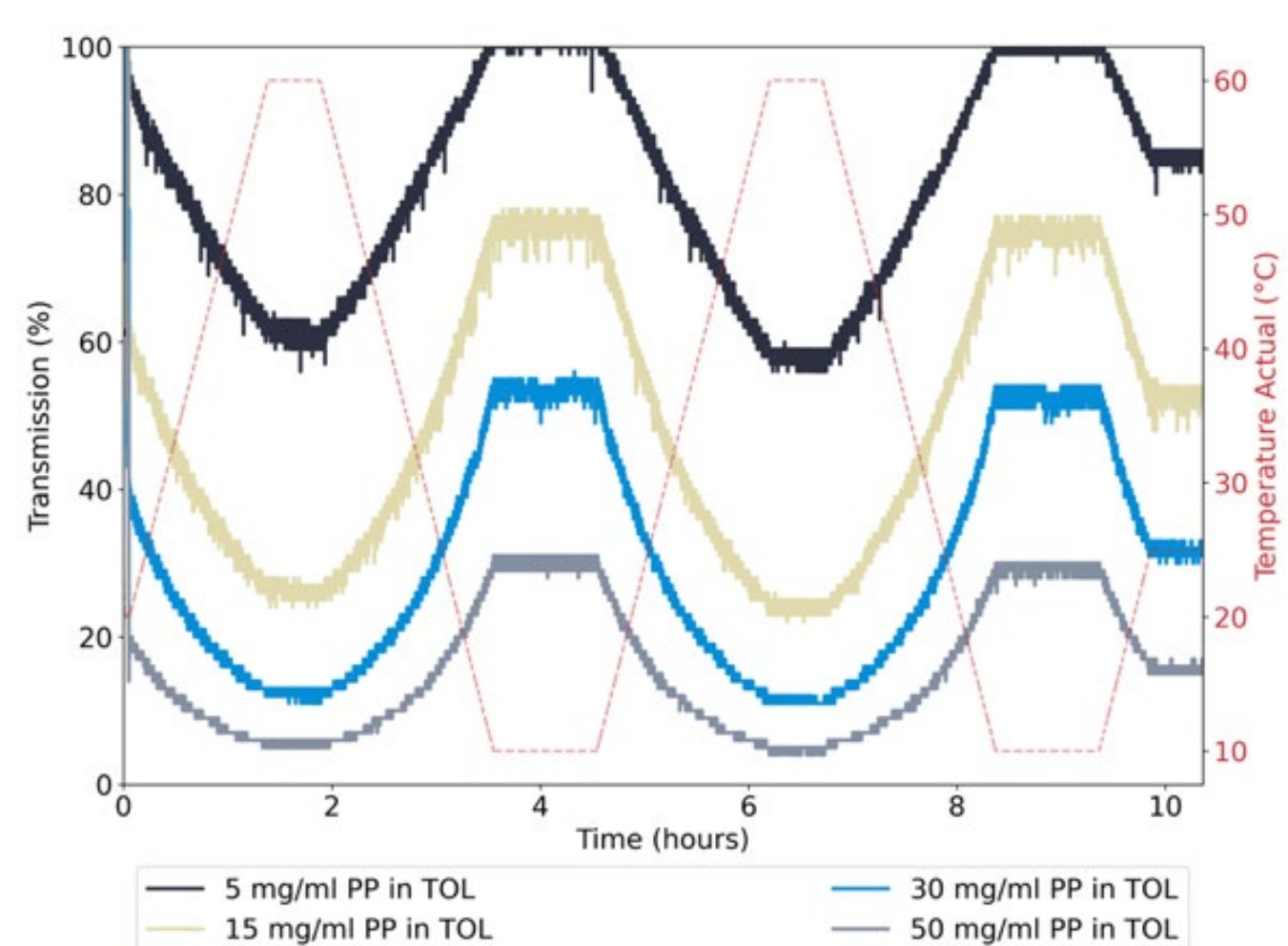
Research Focus: Link molecular to micron scale phenomena to processing and multicomponent complex mixtures to enable rapid product development

POLYMER SUSTAINABILITY

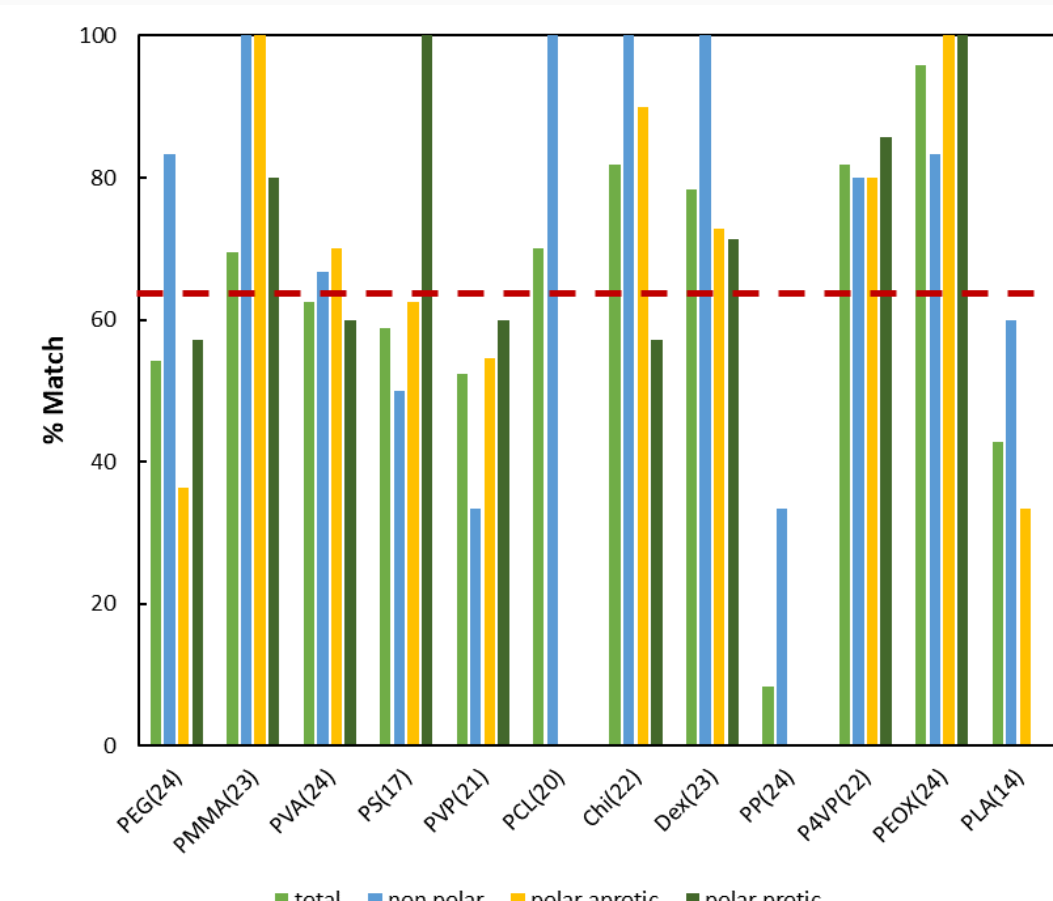
Design of chemically recyclable and depolymerizable polymers



Using machine learning techniques to predict solubility



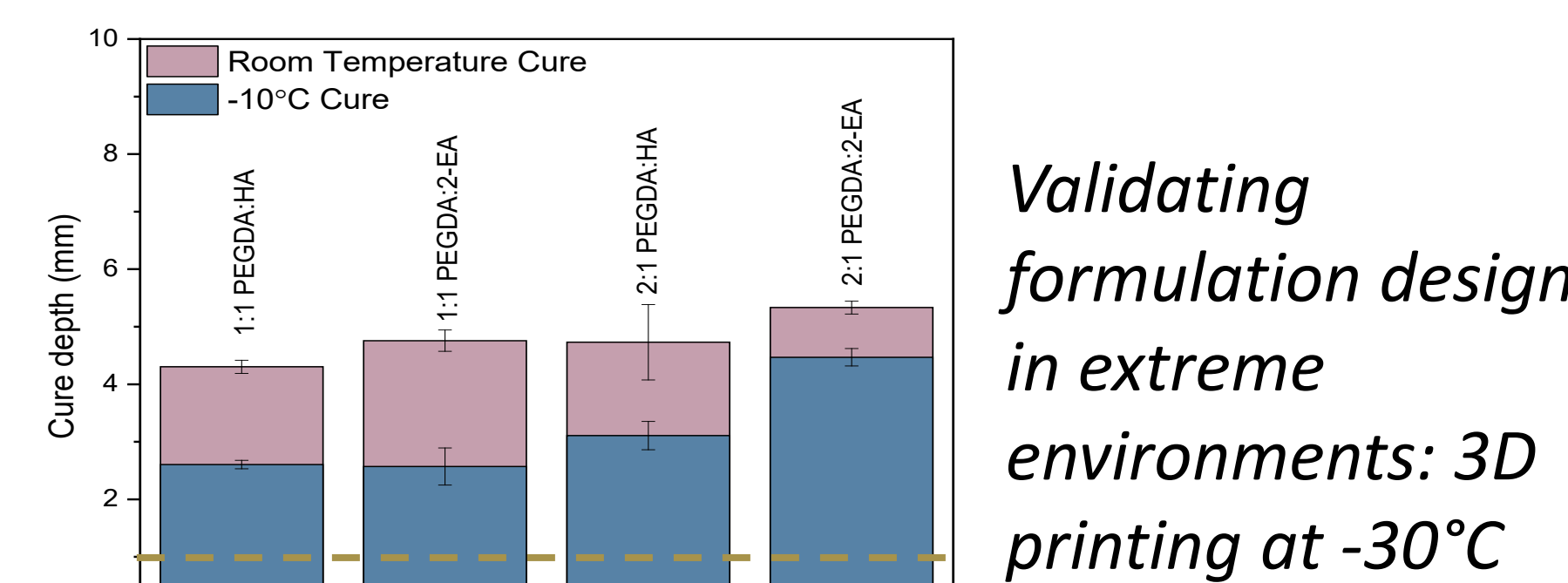
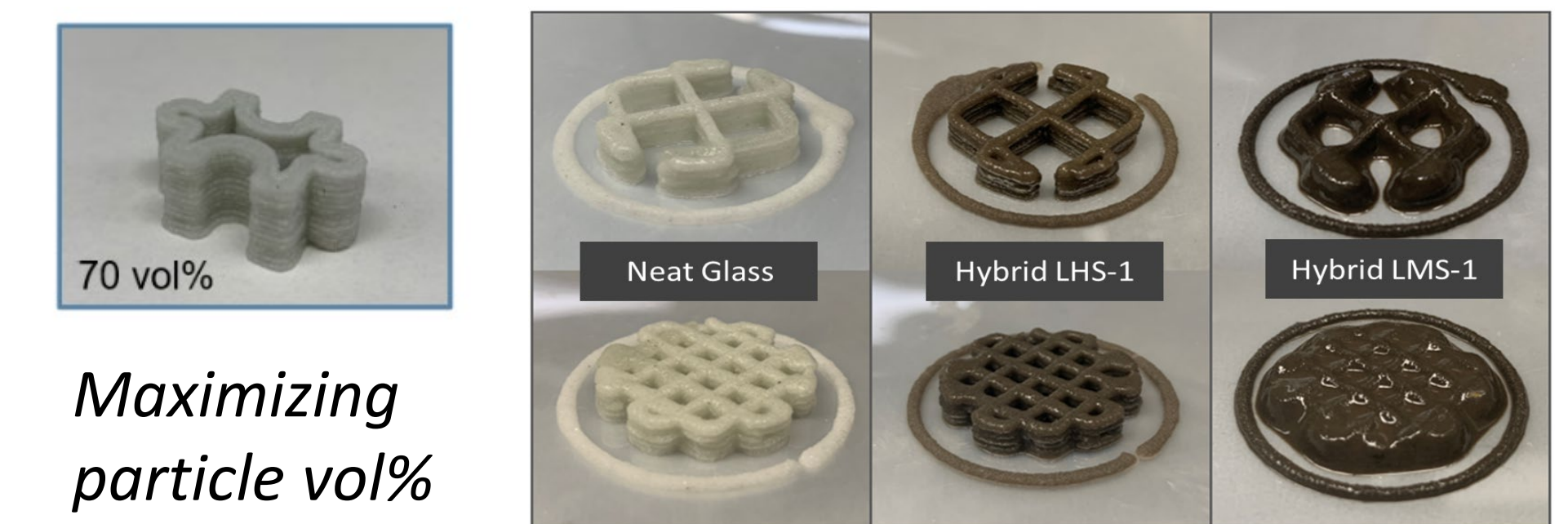
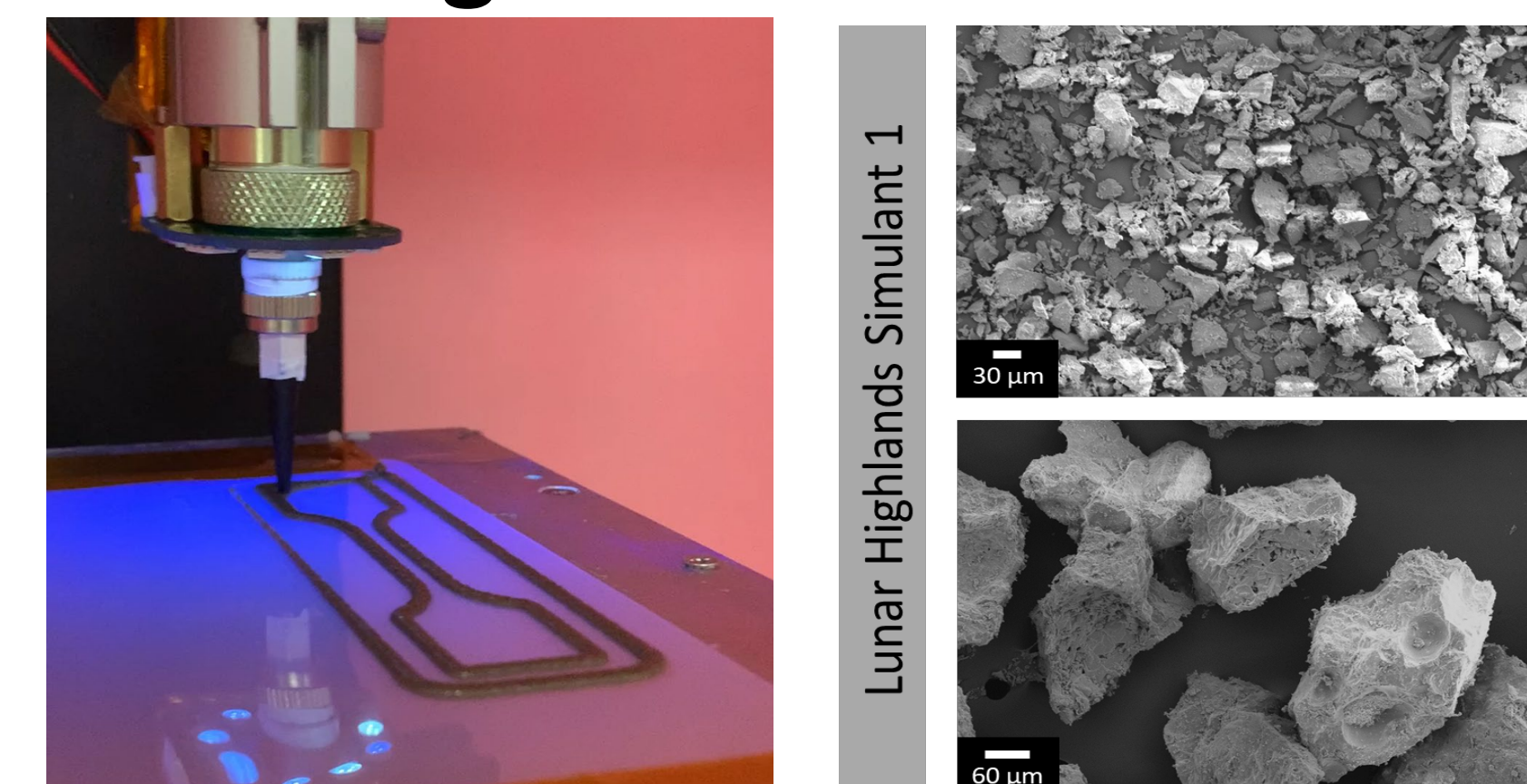
Temperature (°C)	5 mg/ mL	50 mg/ mL
10	soluble	partial soluble
15	soluble	partial soluble
20	soluble	partial soluble
30	soluble	partial soluble
35	partial soluble	partial soluble
40	partial soluble	insoluble
45	partial soluble	insoluble
50	partial soluble	insoluble
55	partial soluble	insoluble
60	partial soluble	insoluble



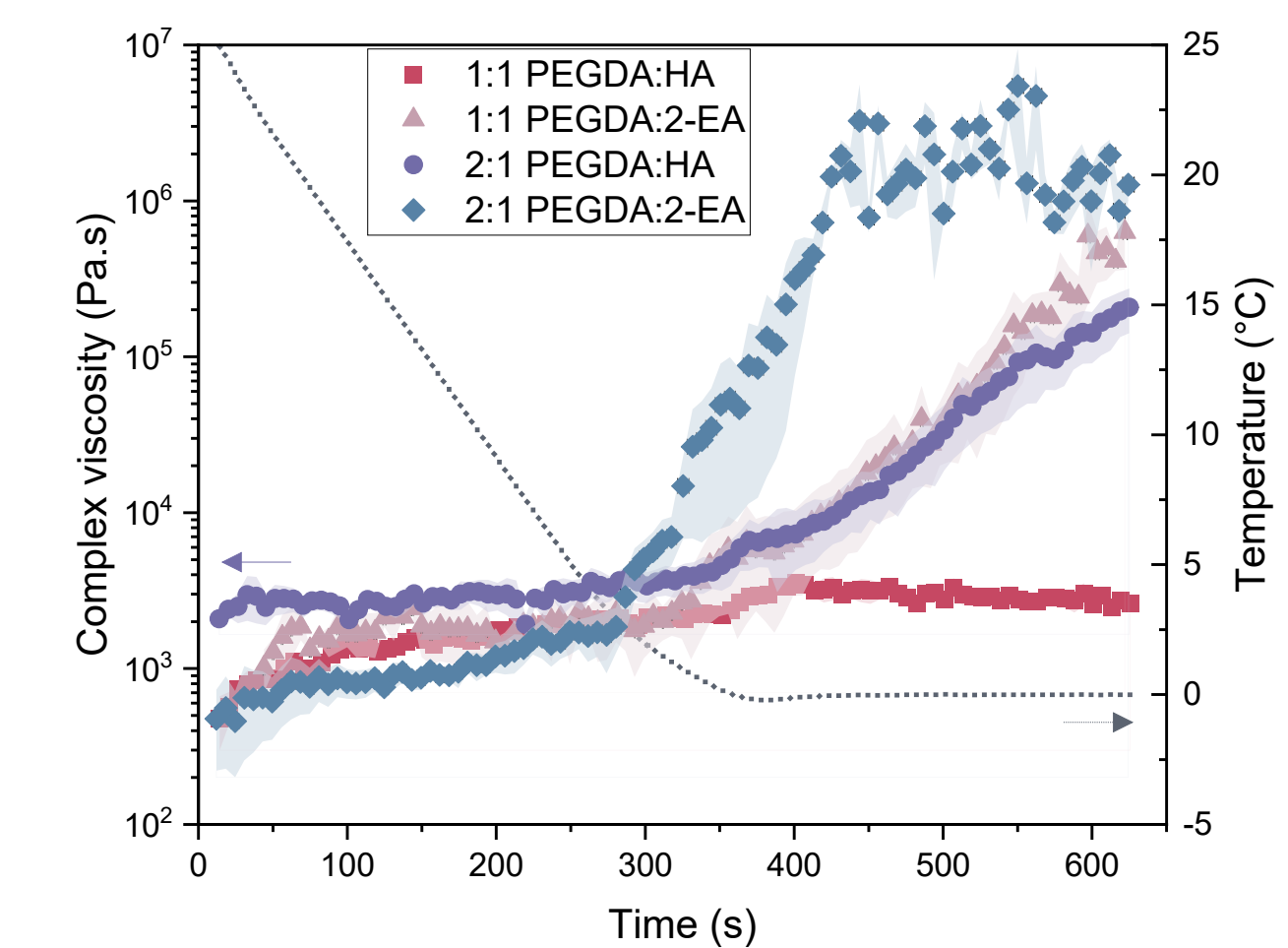
Validating the Polymer Genome Prediction Model

SOFT MATERIALS PROCESSING

Additive manufacturing of lunar and Martian regolith simulants and energetic materials



Validating formulation design in extreme environments: 3D printing at -30°C



Assessment of formulation parameters for successful 3D printing and UV Curing

Electrospinning with new materials by tailoring solution variables

