Project Goal: Provide an actionable manual of best-practices for generation of controlled vocabularies
NIck Garabedian, Christian Greiner, Ilia Bagov, Karlheinz Weber

Materials Tribology (*tribology*: the science of friction and wear)

- Mechanisms of material evolution as a result of tribological loading
- Design of custom tribological tests
- Electron microscopy
Application example: Stringer-skin joints in aircraft fuselage

Manufacturing: Highly mobile flexible machines
Magnesium is a potential candidate for biodegradable implants.

Characterization and correlation.

Uncover the mechanistic interactions for a digital twin.
Hereon: Membrane Research

- Martin Held
- Polymer Membranes for Separation of Liquids and Gases

- Processing, Analytics, Modelling

Polymer  Membrane  Module  Plant
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- MetaCook Chapter 1:

  Deduce and disseminate the best practices for building controlled vocabularies

- MetaCook Chapter 2:

  Deduce and disseminate the best practices for transforming controlled vocabularies into formal ontologies

- MetaCook Chapter 3:

  Showcase of applying interpretable machine learning algorithms, which can reliably utilize data and metadata from ELN repositories
How can HMC support us?
Thank You!