Why is Eike Schallehn doing this lecture? ;-)

- **Studied in Magdeburg**
  - 1994: during an internship developed system for management of technical drawings (back then still stored on paper!!)
  - 1996: diploma thesis on the applicability of object-oriented systems for engineering applications

- **1996 – 1999 in a object-oriented database company**
  - Many customers used this database for engineering applications (1 CAD system by Siemens, several Engineering Data Management Systems)

- **Since 1999 back at the OvGU**
  - Involved in several projects
  - Teaching: introduction lecture “Computer Science for Engineers”, several small lecture on advanced concepts of data management
Field of the Lecture

Engineering applications with specific requirements

Database features for non-standard applications
Content Overview

- **Product Data**
  - Geometrical Data and CAD
  - Complex Product Structures
  - Non-geometrical Data, Simulation, FEM, etc.

- **Product Data Management**
  - Versions, Variants, Configurations
  - Product Data and Engineering Documents

- **Product Life Cycle Management**
  - Engineering Processes
  - Collaborative work
  - Integration and Interoperability
Further Readings

- Lecture and slides are supposed to be self-contained
- References to literature for additional reading will be made available within separate chapters where appropriate
Organizational Overview

• Lecture
  – Once a week
    • Lecture
    • Questions

• Exercise
  – Once a week, two alternative time slots
    • Exercise sheets (online)
    • Questions and discussions
  – First exercises in first week of November

• Exams
  – Written exam after the end of the lecture period
  – Registration for exams in January
Questions?