

BIWE-05: Structural Use of Glass (Prof. Weller/ Reich)

Contents

- 1) Glass houses
- 2) Material glass
- 3) Functional glazing
- 4) Glass design
- 5) Material appropriate design process
- 6) Glass failure and visual effects
- 7) Built examples
- 8) Codes and testing
- 9) Design (e.g. horizontal, vertical, overhead and walk-on glazing)
- 10) Exercises: design examples (e.g. horizontal, vertical, insulating, walk-on glazing)

Prerequisite Knowledge

- Basics in structural analysis and material behavior

Topics of Project and Master Thesis

- Numerical and experimental investigation of fracturing glass panes
- Numerical and experimental investigation of bonded glass fixings

Literature

- The Institution of Structural Engineers: Structural use of glass in buildings. ISBN 1 874 266 5147.
- Schittich et al: Glass construction manual. ISBN 3 764 381 221

Links for possible Topics of Master Thesis

- [Structural Use of Glass](#)