The main goal of the seminar is to bring together what belongs together. On one side the state of the art object-oriented programming language Java is applied to engineering problems. On the other side finite element theory becomes alive within a finite element program developed by the students. In order to gain insight in both topics – object-oriented programming and finite element theory – they are applied to an object-oriented finite element program for spatial truss structures. This symbiosis of the theory of numerical methods and object-oriented programming provides an inspiring basis for the successful study of computational engineering.

This poster shows the results of the programming work of the students during the course in summer 2005.