EXAM IN INF8310-MODELLER OG BEREGNINGER A (WINTER SCHOOL IN COMPUTATIONAL MATHEMATICS)

ABOUT THE EXAM

- The exam is to be handed in by Friday May 14 2003 by 12:00 AM by sending a PDF-file (or a *compressed* PostScript file) to
    Knut-Andreas.Lie@sintef.no
- Each candidate must hand in their own paper, where *all* text and illustrations are made by the candidate. Copying text or other material from other candidates or other sources *is not allowed*.
- Discussions with other candidates during the assignment is allowed (and encouraged).
- If you have not registered for the exam, you must do so immediately by contacting Ms. Kristin Bråthen (email: kristinb@ifi.uio.no, phone: +47 22 85 29 56) at Department of Informatics, University of Oslo.

THE ASSIGNMENT

You have just finished your PhD and have been hired in the company FEM-4-You that sells finite-element libraries to engineering and scientific end-users. The Senior Developer has decided that the company should look into goal-oriented adaptivity to stay competitive. You have been assigned this important task, even though you are the most junior member of the development team. After some haggling from your side, the company has decided to send you to Geilo.

Several of you colleagues have quite openly suggested that you are not up to the challenge and that the trip to Geilo is just a cheap excuse for taking a paid skiing vacation. You have therefore decided to write a fantastic 8–10 pages report that will blow them all away, and in fact set a new company standard with respect to readability and contents.