

COLLOQUIUM

DEPARTMENT OF MATHEMATICS AND STATISTICS
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46th European Study Groups with Industry

Abstract

The ESGI took place in Bristol, UK. About 60 students and academics participated, more than half graduate students and post docs. 8 problems were presented by industry on Monday, and the results obtained by groups that studied them were presented on Friday. The problems were:

1. Optimal network design for the ULTra transport system;
2. Oscillations of teetered helicopter tail rotors;
3. Modelling the incubation of penguin eggs;
4. Mobile phones session time distribution;
5. Comfort of footwear using an artificial sweating foot;
6. Escape of air from icecream during pressure release;
7. Modelling of plasma chip etching;
8. Biomimetic spinning of spider silk.

I will describe shortly each of the problems, and will be even shorter on the mathematical (partial) solutions presented on Friday.

384 Science and Engineering Building
Friday, 18th April, 2003
3:00 to 4:00 P.M.
(Refreshment at 2:30 to 3:00 P.M. in Room 368,
Science and Engineering Building)