

# Agenda LINFLOW 1.4 Introductory Seminar

## Beijing 21 – 22 March 2005

### Monday 21 March

- Introduction to ANSYS Dynamics used with LINFLOW
- Modal analysis in ANSYS
  - Exercise
- Lunch
- Introduction to LINFLOW
  - Background
  - Goals
  - Capabilities
  - Applications
- Basic theory
  - Fundamental equations
  - Numerical implementation
- Building LINFLOW models
  - Basic modelling rules
  - Boundary conditions
  - Wakes
- Steady flow analysis
  - Steady flow fundamentals
  - Analysis template
  - Exercise

### Tuesday 22 March

- Harmonic flow analysis (acoustics)
  - Harmonic flow fundamentals
  - Analysis template
- Coupled steady and harmonic flow analysis
  - Coupled steady and harmonic flow fundamentals
  - Analysis template - differences from separate steady and harmonic analyses
- Aeroelastic Analysis
  - Aeroelastic Stability/Eigenvalue Analysis
    - Aeroelastic Stability Fundamentals
    - Analysis Template
    - Exercise
- Lunch
  - Aeroelastic, Harmonic Response Analysis
    - Harmonic Response Analysis Fundamentals
    - Analysis Template
    - Exercise
- Closure