Granular Matter
International Summer School and Workshop on Granular Materials
The Australian National University, Canberra, 4-8 December 2006
http://wwwrsphysse.anu.edu.au/granularmatter/

We are proud to announce that international experts from 17 countries will give lectures on the

**Statistical Mechanics, Continuum Mechanics, Particle-based Simulations and Experimental analysis of Wet and Dry Granular Systems, Foams and Emulsions**

**Geology and Geomechanics**
- Flow-like landslides and flows in granular soils
- Onset and propagation of shear zones (or shear bands)
- Sand transport and dunes
- Sedimentation
- Suspension
- Filtration
- Saltation

**Chemical and Pharmaceutical Processes**
- Mixing and segregation properties of powders
- Fluid-driven separation and pattern formation
- Rheology of foams and emulsions
- Fluidized beds, gas-fluidization
- Particle breakage
- Stratification
- Comminution

**Fundamentals**
- Multiscale constitutive modelling
- Contact and force networks
- Particle shape effects
- Packing and disorder
- Energy dissipation
- Jamming transitions
- Failure mechanisms
- Bifurcation analysis
- Nonlinear dynamics

**STUDENT POSTER COMPETITION**
Undergraduate or graduate students are invited to give poster presentations on his/her research in the field of mechanics and physics of granular materials, foams and emulsions. A prize for the best student posters will be awarded during the conference:
- 1st prize: $600;
- 2nd prize: $300;
- 3rd prize: $100.
To participate, the interested student must submit an abstract using the web form no later than SEP 15, 2006:

Registration is FREE to STUDENTS – BUT YOU MUST REGISTER NO LATER THAN SEP 15’ 06.
This school offers a great opportunity for students to be exposed to the frontiers of fundamental and applied research in the broad science of COMPLEX MATTER – both in Australia and abroad!!!

Local Organizers: Tomaso Aste (ANU) & Antoinette Tordesillas (Univ. Melbourne)