COLLOQUIUM
UNIVERSITY OF PITTSBURGH
FRIDAY, MARCH 28, 2008
704 THACKERAY HALL
4:00 P.M.

PROFESSOR ANTONIN NOVOTNY

INSTITUTE OF MATHEMATICS
UNIVERSITY OF TOULON, FRANCE

SINGULAR LIMITS IN THE THERMODYNAMICS
OF VISCOUS FLUIDS

ABSTRACT: In this overview lecture we shall speak about:

1) Weak formulation and existence of weak solutions to the complete Navier-Stokes-Fourier system of equations describing the viscous compressible and heat conducting fluids.

2) Some of its scaling properties.

3) Some of its singular limits including low Mach and low Froude numbers...

Refreshments served at 3:30 p.m.
in the Math Dept. COMMON ROOM, Thackeray 705