



*The Mathematical Association of America*

**Math Department Colloquium/  
Math Club/MAA Student Chapter presents**

**The Navier-Stokes problem for  
mathematicians - a short survey**

**Francois Vigneron, École Polytechnique**

**Wednesday, February 28, 2007**

**3 – 4 pm, Simpson Tower 213**

**Refreshments 2:30 - 3**

The simplest model of an incompressible viscous fluid is the Navier-Stokes system. The real mathematical study started with Leray's 1933 paper about the existence of weak type solutions. Since then, it has been a major field for mathematical research because the smoothness of those solutions is still an open problem. I plan to recall the main results together with some new related problems.

**For more information, contact Mike “Quimby” Krebs at [mkrebs@calstatela.edu](mailto:mkrebs@calstatela.edu) or Tony Shaheen at [ashahee@calstatela.edu](mailto:ashahee@calstatela.edu).**

Math Club website: [http://www.calstatela.edu/academic/math/Math\\_Club/mathClub.htm](http://www.calstatela.edu/academic/math/Math_Club/mathClub.htm)

