

# 国台学术报告 NAOC COLLOQUIUM

2011 年 第 46 次 / Number 46, 2011

**TIME: Wednesday 3:00 PM , Aug. 31, 2011**

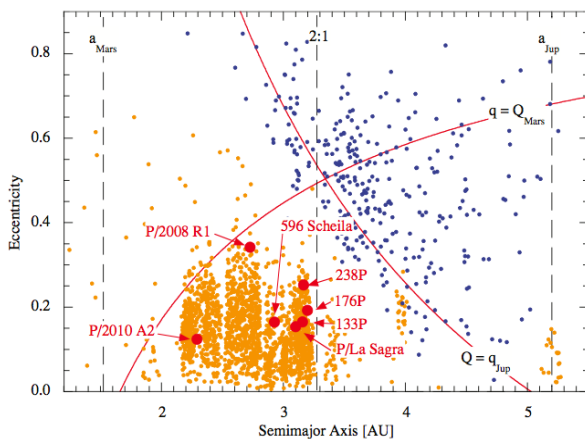
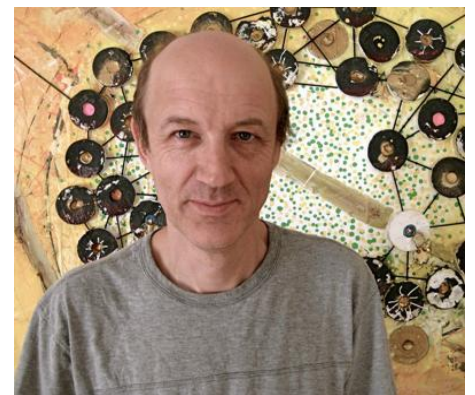
**LOCATION: A601 NAOC**

## Collisions and Primordial Ice in the Asteroid Belt

**Prof. David Jewitt**

**University of California at Los Angeles**

David Jewitt is a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He is a 1979 graduate of the University of London, and received an M.Sc. and a Ph.D. in astronomy at the California Institute of Technology in 1980 and 1983, respectively. His research interests include the trans-Neptunian Solar System, Solar System formation and the physical properties of comets. Along with Jane Luu, he discovered the first Kuiper belt object in 1992.

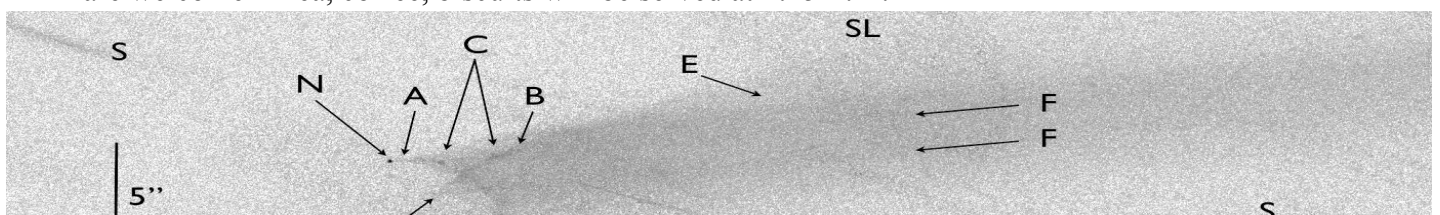


Asteroids and comets are products of accretion in the proto-planetary disk of the Sun. Asteroids are rocks formed at high temperature inside the snow-line. Comets are dirty snowballs formed beyond it.

Recently, we discovered an unexpected, new class of objects which are both asteroid-like and comet-like. Some appear to be products of recent collisions between asteroids. Others appear to be ice-rich bodies, preserving primordial ice.

I will discuss the nature and origin of these bodies, how they relate to the origin of the oceans, and maybe to the origin of life, and I will discuss possible future projects.

All are welcome! Tea, coffee, biscuits will be served at 2:45 P.M.



You are welcome to nominate speakers to Shude Mao ([shude.mao@gmail.com](mailto:shude.mao@gmail.com)), Licai Deng ([licai@bao.ac.cn](mailto:licai@bao.ac.cn)), Xuelei Chen ([xuelei@cosmology.bao.ac.cn](mailto:xuelei@cosmology.bao.ac.cn)).