## **CE 603 Photogrammetry II**

Spring 2006

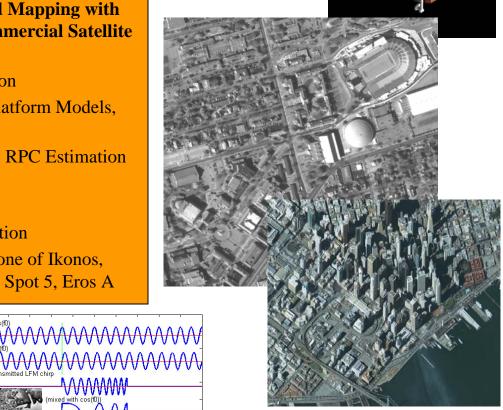
Instructor: Jim Bethel

494-6719, bethel@ecn.purdue.edu

Prerequisite: permission of instructor

## Photogrammetry and Mapping with High Resolution Commercial Satellite Imagery

- •Radiometry, Resolution
- •Rigorous Sensor & Platform Models, Error Propagation
- •Replacement Models, RPC Estimation and Use
- •Stereo Acquisition
- •3D Scene Reconstruction
- •Detailed Analysis of one of Ikonos, Quickbird, Orbview 3, Spot 5, Eros A



Satellite Based Synthetic Aperture Radar
(SAR) Imagery and SAR Interferometry
(InSAR / IFSAR)

- •Radar Fundamentals
- •Signal Characteristics
- •Image Formation Algorithms
- •Geopositioning and Error Propagation
- •Interferometric Processing
- •DEM Generation
- •Detailed Analysis of ERS 1&2

