Outline for May 6, 2003

1. Chinese Wall Policy
   a. Arises as legal defense to insider trading on London stock exchange
   b. Low-level entities are objects; all objects concerning the same corporation form a CD (company dataset); CDs whose corporations are in competition are grouped into COIs (Conflict of Interest classes)
   c. Intuitive goal: keep one subject from reading different CDs in the same COI, or reading one CD and writing to another in same COI
   d. Simple Security Property: Read access granted if the object (a) is in the same CD as an object already accessed by the subject, or (b) is in a CD in an entirely different COI. Assumes correct initialization
   e. Theorems: (1) Once a subject has accessed an object, only other objects in that CD are available within that COI; (2) subject has access to at most 1 dataset in each COI class
   f. Exceptions: sanitized information
   g. * Property: Write access is permitted only if (a) read access is permitted by the simple security property; and (b) no object in a different CD in that COI can be read, unless it contains sanitized information
   h. Key result: information can only flow within a CD or from sanitized information
   i. Comparison to BLP: (1) ability to track history; (2) in CW, subjects choose which objects they can access but not in BLP; (3) CW requires both mandatory and discretionary parts, BLP is mandatory only.

2. CISS
   a. Intended for medical records; goals are confidentiality, authentication of annotatorsa and integrity
   b. Patients, personal health information, clinician
   c. Assumptions and origin of principles
   d. Access principles
   e. Creation principle
   f. Deletion principle
   g. Confinement principle
   h. Aggregation principle
   i. Enforcement principle
   j. Comparison to Bell-LaPadula: lattice structure but different focus
   k. Comparison to Clark-Wilson: specialization

3. ORCON
   a. Originator controls distribution
   b. DAC, MAC inadequate
   c. Solution is combination

4. Role-based Access Control (RBAC)
   a. Definition of role
   b. Partitioning as job function
   c. Containment