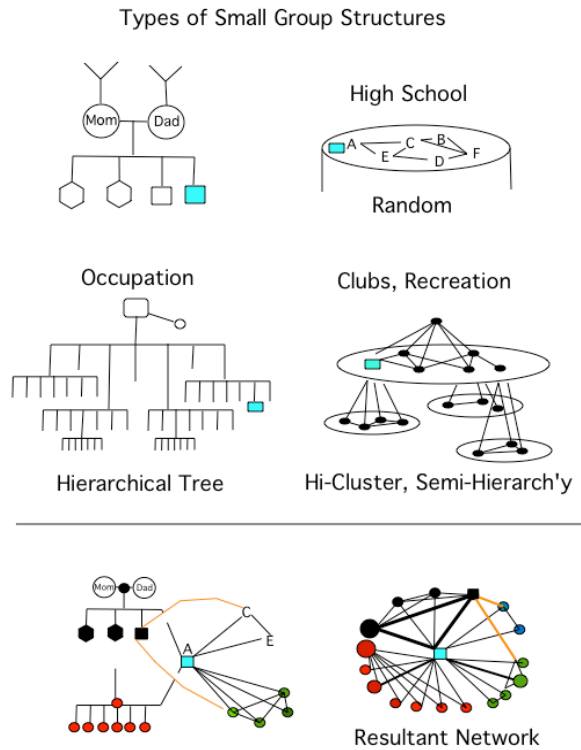
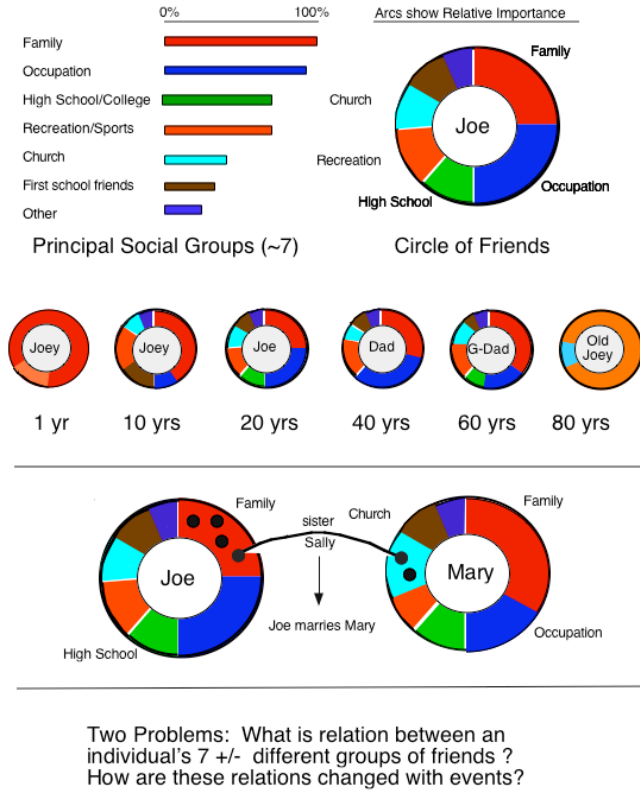


# CONSTRAINTS ON THE FORMATION OF SMALL SCALE NETWORKS

Whitman Richards

## 1. Circle of Friends → Variety of Group Structures



Events (and Mentors) affect dynamics of group emphasis and mergers

## 2. Generating Functions: What is the rule for creating larger scale networks?

- Random: add edges with probability,  $p$ .
- Multi-Scale: use degrees of present vertices as probability distribution for adding edges of any new vertex.
- Small World: .....      \* **None of the above**

## 3. What are dynamics of influences and decision-making if social networks are comprised of characteristic types of smaller graphical forms ?