Biological
1) Phase Behavior and Selectivity of DNA-Linked Nanoparticle Assemblies
2) Globular proteins
3) Formation of swarms (e.g., of flies, bees, bacteria, molds)
4) Gel to liquid transitions in membranes
5) Ice formation in plants and animals

Physical
6) Long-range magnetic order
7) Superconductivity.
8) Order-disorder phase transition
9) Nematic-to-isotropic liquid crystal transition

Chemical
10) Sublimation of carbon dioxide, including critical opalescence
11) Lambda transition of helium-4

New!!
*** Intelligent gels: See Scientific American, May, 1993, p. 82, Yoshihito Osada and Simon Ross-Murphy, "Intelligent Gels."