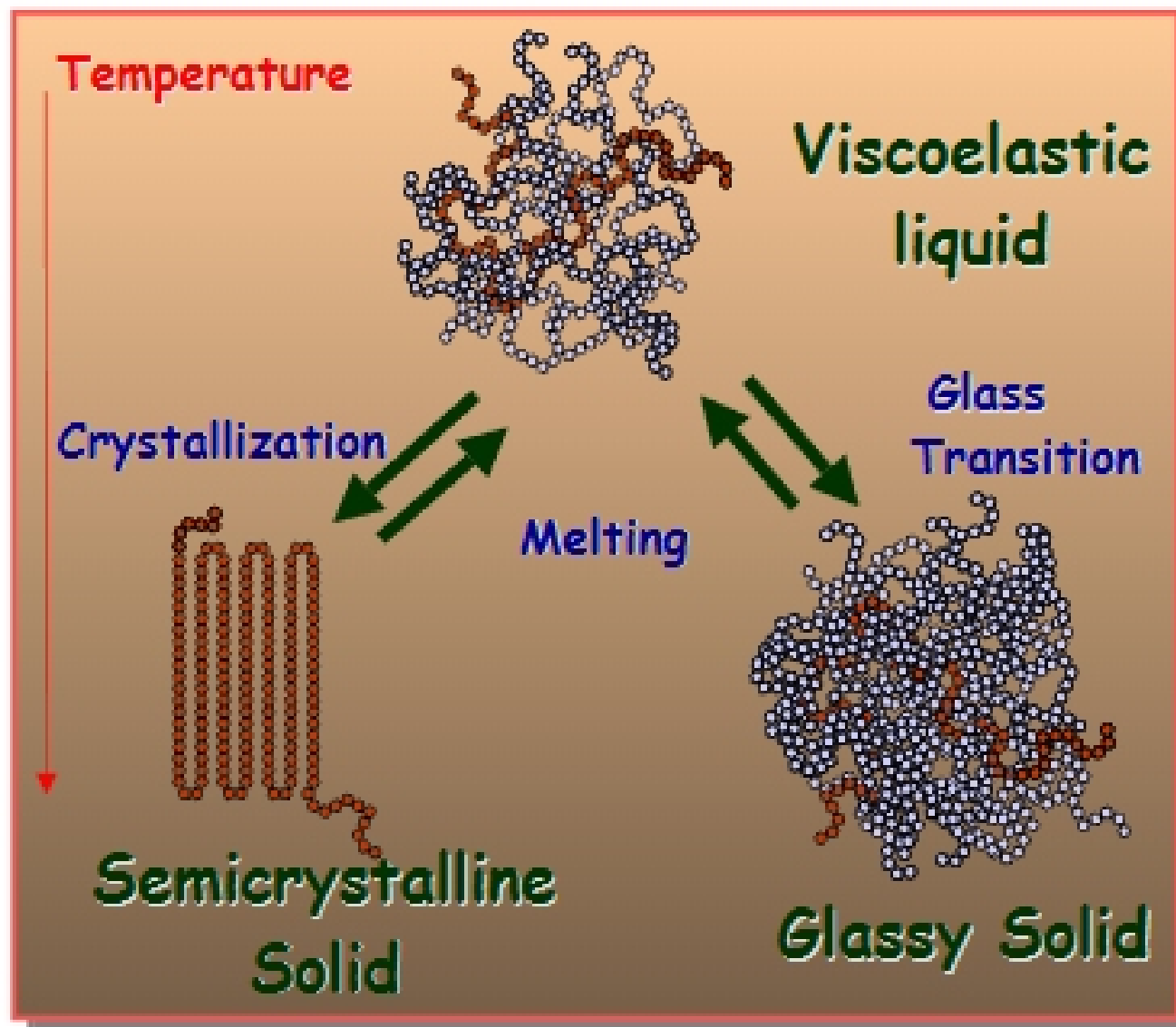


## **Topics to be Covered**

- *The Extraordinary Properties of Rubber*
- *Chain Conformations*
- *Cross-linking*

*Chapters 1 & 7 in CD (Polymer Science and Engineering)*

# Polymer Solid State



# **Rubber and Other Elastomers**

- ~ 1500 Columbus Stumbles Across Haiti**
- ~ 1600 Missionaries Observe Indians Making Crude Rubber Shoes  
(Caoutchouc)**
- 1700 Joseph Priestly Invents a Name**
- 1820 1st Rubber Shoes**
- 1832 Mackintosh**
- 1833 Goodyear Starts Work on Rubber**
- 1844 Vulcanization**
- 1875 Henry Wickham -- Pirate or Con-Man?**
- 1922 Stevenson Plan**
- 1942 Synthetic Rubber Project**
- 1988 Penn State Rubber Project**

