

Chapter 1

13th January 2004

Themes

- Old Problems in a New Context
- Adapting to New Technology
- The Global Reach of the Net
- Trade-offs and Controversy

- Differences between Personal Choices, Business Policies, and Law
- Negative and Positive Rights, or Liberties and Claim-Rights

1 Issues

- Unemployment
- Alienation and customer service
- Crime
- Loss of Privacy
- Errors
- Privacy of communications
- Freedom of speech
- Intellectual property

- General social Issues
- Professional Ethics

2 Computer Benefits

- Common Uses:
 - Games, entertainment & the arts
 - household & business management
 - customer service information retrieval
- Communication (bandwidth & multimedia +/-)
 - telephone
 - email
 - chat & instant messaging
 - newsgroups & mailgroups

- Information archiving and management
 - library
 - Web
 - issues: expert systems, medium obsolescence, ephemeral content
- Transportation
 - autos (e.g. ABS)
 - Safety
- Education
 - toys
 - distance education
 - patient, confidential, nonjudgemental
 - language training

- simulators
 - reference
- Law Enforcement
 - Fingerprints & M.O.'s
 - expert systems
 - data bases
- Health Care
 - imaging
 - monitoring
 - surgery
 - prosthetics
 - records
 - diagnosis (e.g. Mycin expert sys)

- Tele-medicine & tele-research
 - R&D
- Enablement & inclusive re-connection to society
 - senses
 - reading
 - motor skills
 - speech
 - artificial sysesthesia
- Science, Research, Engineering & Academics
 - Vizualization & Publishing
- Automated systems
 - robotics

- inventory
- paper reduction