LSO Online Agenda

I. Introduction

II. ANSI Z136.1 and the LSO
   a. Definition of ANSI
   b. ANSI History
   c. ASC Z136 Committee

III. LSO Specific Responsibilities
   a. Classification/hazard evaluation
   b. Control measures
   c. Procedural approval/protective equipment
   d. Safety audits and training
   e. Establish temporary control areas
   f. Medical surveillance

IV. Basics of Laser Physics
   a. Properties of light
   b. L.A.S.E.R.
   c. Components of a laser
   d. Production of laser light
   e. Applications
   f. Laser Classification

V. Hazards
   a. Beam
      i. Bioeffects
         1. eye
         2. skin
         3. overview of hazard analysis, MPE, NHZ, OD
   b. Non-beam
      i. Physical Agents
      ii. Chemical Agents
      iii. Biological Agents
      iv. Human factors

VI. Laser Accidents
   a. Statistics/databases
   b. When they happen
   c. Review of several accidents case histories
   d. Accident response, what to do
   e. Perception issues

VII. Laser Regulations and Consensus Standards
   a. Government regulations
      i. FDA/CDRH-Federal Laser Product Performance Standard
      ii. OSHA
      iii. FAA
      iv. Various States
   b. Consensus Standards
      i. Other ANSI standards
      ii. International standard (IEC)

VIII. Control Measures
    a. Engineering
    b. Administrative
       i. Examples
       ii. Special attention to laser eyewear
       iii. Examples

IX. Laser Safety Program Administration
    a. Policy
    b. Procedures
       i. Standard Operating Procedures
    c. Operations
       i. Inventory
       ii. Audits
       iii. Training
       iv. Laser Safety Committee
    d. Medical Surveillance