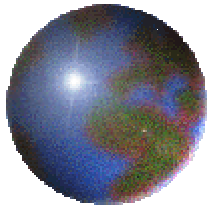


A light blue background featuring a faint world map with a grid overlay.

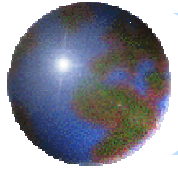
# **INDUSTRIAL HYGIENE**

## **Site Programs**



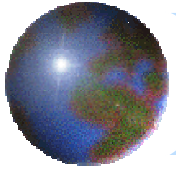
**By Christine Poupard – Motorola**  
**Chris Bundrum – Intel**

**SESHA Academic Lecture Tour**  
**on September 27 and 28, 2001**



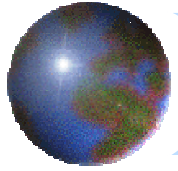
## Discussion Overview

- Industrial Hygiene Role
  - What is the function of an IH?
- Industrial Hygiene Programs
  - What are IH Programs?
- Program Components
- Questions
  - Ask at any time



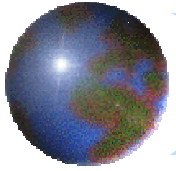
# Industrial Hygienist Role

- Program Management
  - Implementation
  - Compliance
  - Guideline development
  - Continuous Improvement
  - Documentation
  - Indicators
  - Working Groups
  - Program Health /Audits
  - Roadmap Development
- Customer Service
  - Support factory ramps
  - Equipment sign off
  - Incident investigation
  - Risk communication
  - Teaching / coaching
  - Technical resource
  - QL/QN assessments



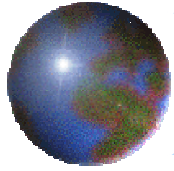
# Industrial Hygienist Role

- E-Business
  - WBT Development
  - Web Page Development
  - Automated systems
  - Customer Service Interface
  - Explore new ways to do business
- EHS Training
  - Content Development
  - Content Revision
  - Delivery
  - Recruiting Instructors
  - TTT Sessions



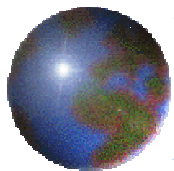
# Industrial Hygiene Programs

- HazCom
- Chemical Approval
- Ionizing Radiation
- Lasers
- Lead
- PPE
- Ventilation
- Hearing Conservation
- Respiratory Protection
- Non-Ionizing Radiation



## Industrial Hygiene Programs Cont.

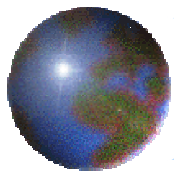
- Lab Safety
- Inert Gas
- Arsenic
- Heat Stress
- IAQ
- Exposure Assessment
- Legionella
- Ergonomics
- Asbestos
- Program Audits
- Indicators
- Technology Transfer



# Hazard Communication Program

## Key Components

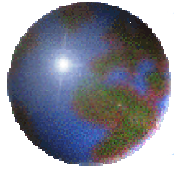
- Written HazCom Program
- Availability of MSDS's
- Master Chemical Inventory
- Chemical Labeling Program
- Employee Information and Training
- Chemical Approval



# Exposure Assessment Program

## Key Components

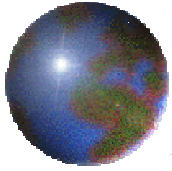
- Identify similar exposure groups
- Identify all job tasks w/potential for exposure
- Evaluate risk of exposure
  - Task Frequency, Toxicity, Dispersion, Controls, PPE, etc.
- Establish solid baseline monitoring data
- Organize the data electronically
- Communicate results to employees
- Identify tasks for routine follow-up
- TAKE EXCELLENT FIELD NOTES!



# Respiratory Protection Program

## Key Components

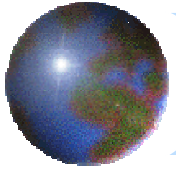
- Programs for APR, Airline, SCBA
- Annual Training
- Annual Fit Testing
- Medical Monitoring
- Cleaning and Maintenance Program
- Cartridge Changeout schedules
- Re-certification system



# Hearing Conservation Program

## Key Components

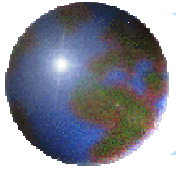
- Annual Training Program
- Annual Audiometric Testing
- Required use of Hearing Protection
- Signage and Labeling
- Routine Monitoring Program
  - Dosimetry
  - Area Sound Level Meter Surveys



# Laser Safety Program

## Key Components

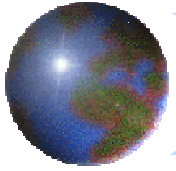
- Medical monitoring (baseline eye exams)
- Submit laser inventory for all Class 3b and 4 lasers to the Arizona Radiation Regulatory Agency (ARRA)
- Bi-annual qualitative assessments of lasers (ARRA requirement)
  - Procedures
  - Training
  - Engineering Controls
  - PPE



# RF/MW Radiation Program

## Key Components

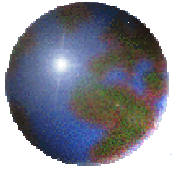
- Register industrial RF & Microwave tools with the ARRA and update with annual inventories
- Conduct baseline leakage surveys with a calibrated survey meter
- Follow-up assessments following as needed (i.e. maintenance, etc.)
- Validate effective equipment controls (interlocks, etc)
- Training



# Ionizing Radiation Program

## Key components

- Annual leakage surveys
- Interlock inspections / Utilization log
- Employee Information and Training
- Consider employee monitoring badges
- Define program for addressing pregnant employees
- Control sources entering and leaving the site



# Ergonomics Program

## Key Components

- Written Ergonomic Program
- Workplace analysis documentation
  - Assessments and job reviews
- Prevention and control of injuries
- Medical management
- Education and awareness
  - Training for Manufacturing and Office
  - Focus on behaviors
- Indicators and Trend analysis