CLOSING THE SAFETY GAP
AT UNIVERSITY LABORATORIAIES AND CHEMICAL INDUSTRIES IN TURKEY

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Safety Training
(IUPAC-UNIDO-UNESCO SAFETY TRAINING PROGRAM)
Date: April 23 - May 5, 2000
Sponsor Company: BP AMOCO Chemicals
Places of Visit: BP AMOCO Chemicals: Naperville Complex, Naperville, Illinois USA
BP AMOCO Chemicals: Green Lake Complex, Port Lavaca, Texas USA

Topics Covered:
- Safety Training
- Product Stewardship
- Hazardous Waste, Waste Handling
- Waste Disposal
- Waste Clarifications
- Hazardous Materials

Safety Inspections and Meetings
- Weekly Safety Checklists
- Safety Council (members of each department, including fire and medical)
- HSE Committee (should have a member from each faculty)

Academic Accomplishments
- Proper Personal Protective Equipment (PPE) for students and staff
- Departmental Safety Manuals
- Seminars on Safety practices for new students (each year)
- Short Courses on Safety to new teaching assistances (each semester)
- An HSE Team established
- Lab / Process Unit Health and Safety Information Binders for each experiment on research work

Instructing:
- Instructions of using the binder
- Standard operating procedures
- MSDS (Material Safety Data Sheets) for each chemical used
- Process and Instrumental Drawings
- Utility Drawings
- Inspections
- Hazard Labels
- Personal Protective Equipment
- Audits
- Calibration Charts

Safety Training:
- Fire fighting training to departmental technicians at Istanbul Fire Department (two weeks)
- First Aid Training to two technicians and lab assistants (one week)
- Earthquake preparedness seminar for all campus staff (three weeks)

Safety Inspections:
- Monthly inspections for fire extinguishers
- Weekly inspections for eye washers, safety showers, fume cupboards and gas cylinders
- Monthly inspections for fire extinguishers

Safety Meetings:
- Done with teaching assistants and research assistants monthly
- Lab Safety Program Sheets

Emergency Response Team:
- Esma TOPRAK, Belgin BALKAN, Bilgi DEDEOGLU, Nurettin BEKTAS, Pinar PIR, Defne KAYRAK

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People attends:
- COCI Meeting, September 14-16, 2000, Montréal - CANADA
- COCI Meeting, July 3, 2000, Brisbane, AUSTRALIA
- COCI Meeting, June 8, 2002, Sundsvall, SWEDEN

Topics Covered:
- Responsible Care, HSME, Safety on transportation of hazardous chemicals, Emergency response teams and stations, Hazardous waste regulations (Turkey has 2.5 Million tons of hazardous waste per year), Recycle, Location of chemical industries, Accreditation of laboratories (EU standards)
- Social Contributions of Chemistry: Safety & Toxicology
- Accreditation of laboratories (EU standards)

Plan for the Future
Workshop on Safety in Chemical production
Title: Social Contributions of Chemistry: Safety & Toxicology
Sponsor: UNESCO
Date: 2004

Conclusions:
- Safety regulations are developed in Turkey since 2000
- Interest among industry in implementing safe practices is increasing
- Disseminating safety practices to industry by giving safety seminars are becoming more popular