



IUPAC

International Union of Pure and Applied Chemistry

UNESCO

United Nations Educational, Scientific, and Cultural Organization

UNIDO

United Nations Industrial Development Organization

SAFETY TRAINING PROGRAM

Introduction

The chemical industry in the developed world is increasing its emphasis on corporate responsibility and accountability. Education of line management in industrial safety has become a priority task. HAZOP studies are a regular part of risk reduction efforts in chemical production.

While industries in developed countries are introducing sophisticated safety measures covering operational, health and environmental aspects in close interaction with governments and the public, the gap between developed and developing countries in safety education, research and implementation of technical measures is large. Increases in chemical production and consumption in the developing world make it essential to promote interactions to disseminate state-of-the-art knowledge on safety and environmental protection in chemical production.

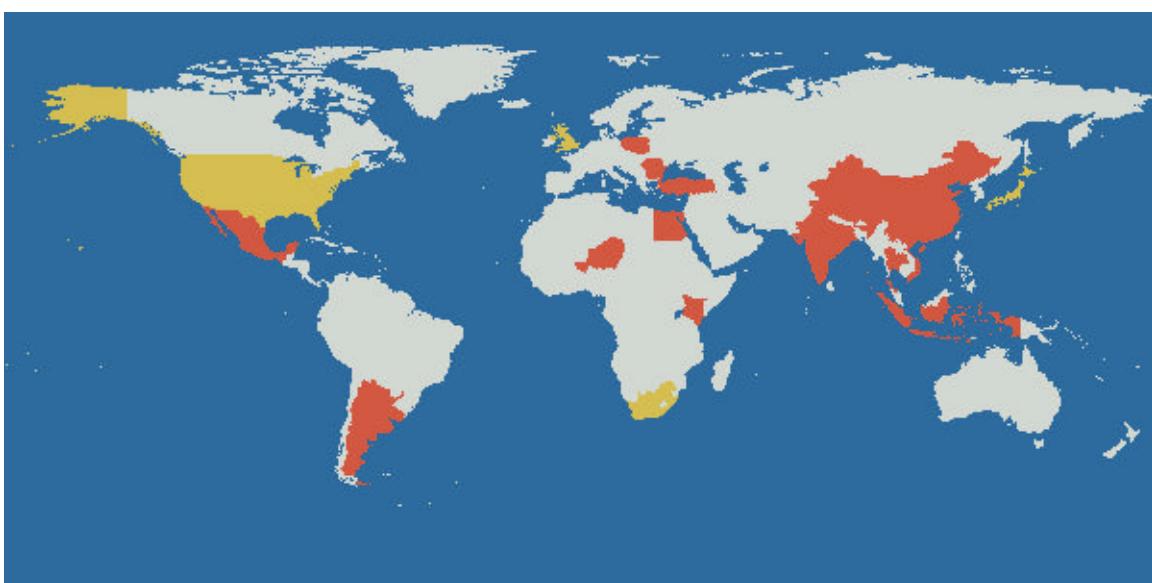
IUPAC/UNESCO/UNIDO Cooperation

Realizing the growing importance of safety education, guidelines, legislation and implementation in chemical research and production, the International Union of Pure and Applied Chemistry (IUPAC), the United Nations Educational, Scientific, and Cultural Organization (UNESCO), and the United Nations International Development Organization (UNIDO) have joined forces to develop a training program for safety and environmental protection in chemical, pharmaceutical and biotechnological research and production. The IUPAC-UNESCO-UNIDO Safety Training Program allows experts from developing countries to learn about safety and environmental protective measures by visiting and working in plants of IUPAC Company Associates in the developed world.



The Safety Training Program

The Safety Training Program was established in 1993 with the support of IUPAC, through its Committee on Chemistry and Industry (COCI), and UNESCO and UNIDO. The Program is part of a broadly based safety initiative by COCI that also includes sponsorship of Workshops on Safety in Chemical Production.



Home Countries of Safety Training Program Fellows

Home Countries of Host Companies

Training covers such areas as:

- Process safety management (PSM).
- Environmental protection.
- HAZOP analysis.
- Legislative measures and interaction between industry, universities, government and the public.
- Emergency planning and model studies.
- Responsible Care and its relevance to developing countries.
- Integrated approaches for health, safety and environment (HSE) at unit and company levels, and training of university teaching staff
- ISO 9000 and 14000 series certification and practices.
- Material Safety Data Sheets (MSDS).



Applications are now invited for Fellowships in the Safety Training Program.

Fellows from Argentina, Bulgaria, China, Egypt, India, Indonesia, Kenya, Mexico, Nigeria, Poland, Romania, Vietnam, Thailand, Turkey, and Uruguay have received training at Company Associate sites in the USA, Western Europe, and the Pacific Rim.

Qualifications and Experience of Candidates

Candidates selected as Fellows in the Safety Training Program are professional scientists and engineers who are currently:

- a. Employed at a supervisory or managerial level in chemical companies, government institutions or scientific institutions;
- b. Engaged in aspects of safety and environmental protection in chemical, pharmaceutical, or biotechnological production or in the teaching of these fields;
- c. Empowered to influence safety practices in their places of employment and elsewhere within their home country.



Responsibilities of Trainees

Safety Training Program Fellows will be assigned to IUPAC Company Associates in industrialized countries. The period of training is typically one to three weeks. Accommodation, subsistence and travel expenses will be provided for all candidates selected to participate in the Program.

Safety Training Program Fellows are required to submit a detailed report to the Coordinator and to the Host Company. Fellows receive a Certificate confirming the successful completion of their training.

Fellows are invited to participate in biennial Safety Training Program Workshops at IUPAC General Assembly/Congresses, where they share experiences, best practices and plans with each other and participate in continuing efforts to enhance the Program.



Applying for the Safety Training Program

Application forms can be obtained from the Coordinator of the Safety Training Program:

Dr. Mark C. Cesa
Chair, IUPAC Committee on Chemistry and Industry
INEOS Acrylonitrile
150 W. Warrenville Rd., MS F-7
Naperville, IL 60563 USA
Phone: [+1] 630-420-5651
Fax: [+1] 630-420-5690
E-mail: mark.cesa@innovene.com

or they can be downloaded from the following World Wide Web page:

<http://www.iupac.org/standing/coci/safety-program.html>

Completed application forms (3 copies) should be submitted to the Safety Training Program Coordinator at the above address.

For further information on the Safety Training Program, please visit the following World Wide Web pages:

http://www.iupac.org/publications/ci/2003/2506/4_cesa.html

http://www.iupac.org/publications/ci/2001/march/news_safety.html

and for general information on IUPAC, see:

<http://www.iupac.org>

