SAFTEY TRAINING PROGRAM [STP]

Bernard West
President Westworks Consulting Limited
IUPAC advances the worldwide role of chemistry for the benefit of Mankind.

- IUPAC addresses international issues in the chemical sciences utilizing expert volunteers from its member countries.

- IUPAC effectively contributes to the worldwide understanding and application of the chemical sciences, to the betterment of the human condition.

- Safety and Security are critical priorities of Chemistry Based Organizations.

- Industry has made major progress to improve personnel and operational safety over the last 20+ years.
Committee on Chemistry and Industry COCI

- Knowledge transfer to developing countries (HSE)
- Capacity building programs
- Public appreciation of chemical science and technology
- Reputation and trust
Bringing chemists and chemical engineers from growing economies to learn about HS&E protective measures by working in an IUPAC Company Associate.

Each Have Responsibilities:
IUPAC  COCI

Host Companies

Fellows
IUPAC Safety Training Program

**Significant steps 2013 to 2017**

- Trained 7 Fellows and 4 Associate Fellows
- 4 New Hosts; Belgium, Canada & USA.
- First Regional local language Training.
- Summarized Impacts of Fellows at home.
- Support $ and in-kind from CRDF/CSP.
IUPAC COCI  STP Fellowships - A Global Project

STP Fellows (28)
Host Companies (25)
Countries (11)
Awaiting Training (16)

STP August 2012
IUPAC COCI STP Fellowships - A Global Project

STP Fellows: 35
Host Companies: 30
Countries: 12
Awaiting Training: 17

STP July 2017
Safety Training Workshops

CONSISTENTLY
Sharing New Ideas and monitoring of progress
Fellows activities and plans based on STP

Held at IUPAC General Assemblies

- Ottawa – 2003
- Beijing – 2005
- Turin – 2007
- Glasgow – 2009
- San Juan – 2011
- Istanbul – 2013
- Busan – 2015
- Sao Paulo – 2017
April 2017
Mr. Steve Onserio Nyamori (The Kenya National Cleaner Production Centre (KNCPC) Nairobi, Kenya)
Mr. Mohamed Azab (NALCO an ECOLAB Company, New Cairo, Egypt)
Trained at Solvay Warrington UK and Brussels Belgium.

October 2016
Mr. Omar Guaymas (National University of La Plata, Argentina)
Ms. Daniela Hernández (University of Zulia, Venezuela)
Ms. Marilyn Escorcia (Responsabilidad Integral, Colombia)
Mr. Víctor Mata (Ministry of Health- Normalization Unit- Directorate of Human Environmental Protection, Costa Rica)

Associated Fellows Trained at First Regional STP-Latin America Training Program in Spanish led by Prof. Fabian Benzo, Facultad de Química, Universidad de la República, Uruguay
August 2015
Ms. Christine Ashaolu (Nigerian Government Regulatory Agency, Abuja, Nigeria) [Funded by CRDF]
Trained at National Silicates, a PQ Company, Toronto, Canada

April 2015
Prof. Ahmed Youssef (University of Cairo, Egypt) [ Funded by CRDF]
Trained at Bayer Crop Science, Research Triangle Park, NC, USA

May 2014
Noha Zenhom ( FEI-ECO Egypt ) trained at Woodbridge Foam, Toronto, Canada. [ Funded by CRDF ].

February 2013
Jonathan O Babalola ( University of Ibadan, Nigeria ) and John O Mumbo (National Environment Management Authority, Kenya) received training at Dow Benelux BV, Terneuzen, The Netherlands.
Benefits

STP Fellow:
- Life changing experience
- Opportunity to create a positive HSE culture where they work, in their community, in their country
- Lasting relationships with HSE staff/mentors.
- Lasting links with the Host companies & COCI family.

The Trainers:
- Richly rewarding opportunity to disseminate their knowledge and expertise

Host Company:
- Low cost way to “do the right thing” in their industry, part of any companies Responsible Care initiative
IUPAC Responsible Care Book

A monograph describing:
- The development of Responsible Care
- The continuing relevance of Responsible Care
- The benefits and challenges of implementation

Two Case Studies:
- Successful implementation in Sulco Chemicals Ltd Canada
- Haitian cough mixture tragedy: the chemical supply chain

A Training/Capacity Building Workshop
- RC Workshops at McMaster and Western Universities
Continuing to develop STP

**Challenge** is the continuing search for host companies

One issue is that recent hosts have said they would do it again but want a number of Fellows to be trained at the same time.

This challenges the IUPAC on travel expenses.

**Transport funding**

**CRDF**, Global; Chemical Security Program:

They now have limited funds but there are still possibilities.

- Trainee travel, living expenses, Visa application fees, Host company training costs paid CRDF

**Industry**, not been a participant in travel.
Summary

Constructive, proactive engagement by industry significantly improves:

– safe chemicals use.
– trust and reputation.
– innovation (green chemistry, new approaches to safety assessment etc).

However, it can be a big cultural change and not always easy, but it does have long run benefit for all.
Summary

IUPAC (through COCI) seeks to

– Inspire IUPAC members and the public by

– Promoting & facilitating chemistry collaboration across the world

– Disseminate best safety practice and safety culture
  • To those who can make a difference in the developing world
  • To the young people in education who will be future industry managers no matter where in the world.
Thank you the opportunity to speak here today about the Safety Training Program!

I wish you all great success and innovation for the future!