

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



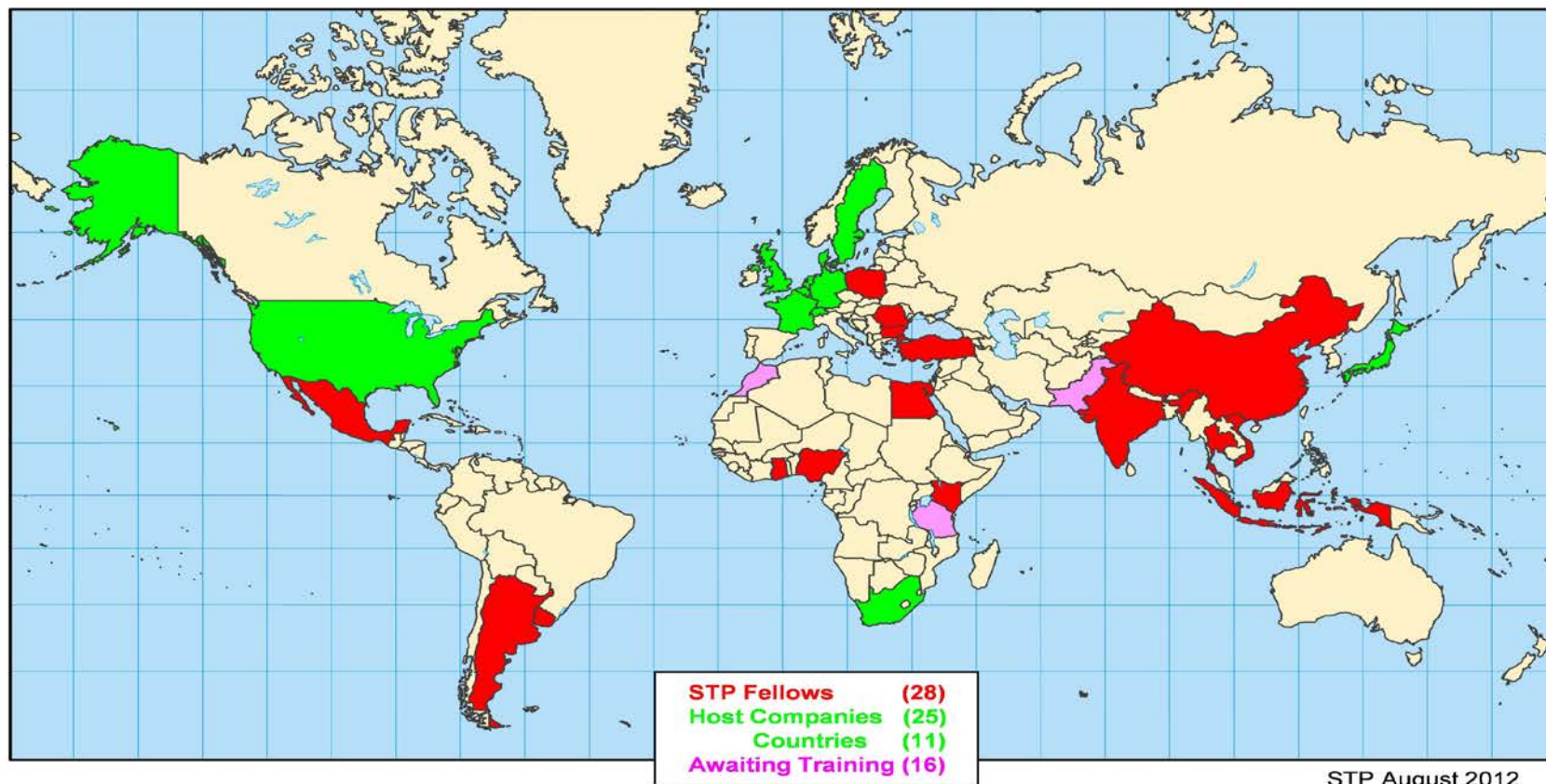
IUPAC Safety Training Program

Significant steps 2013 to 2017

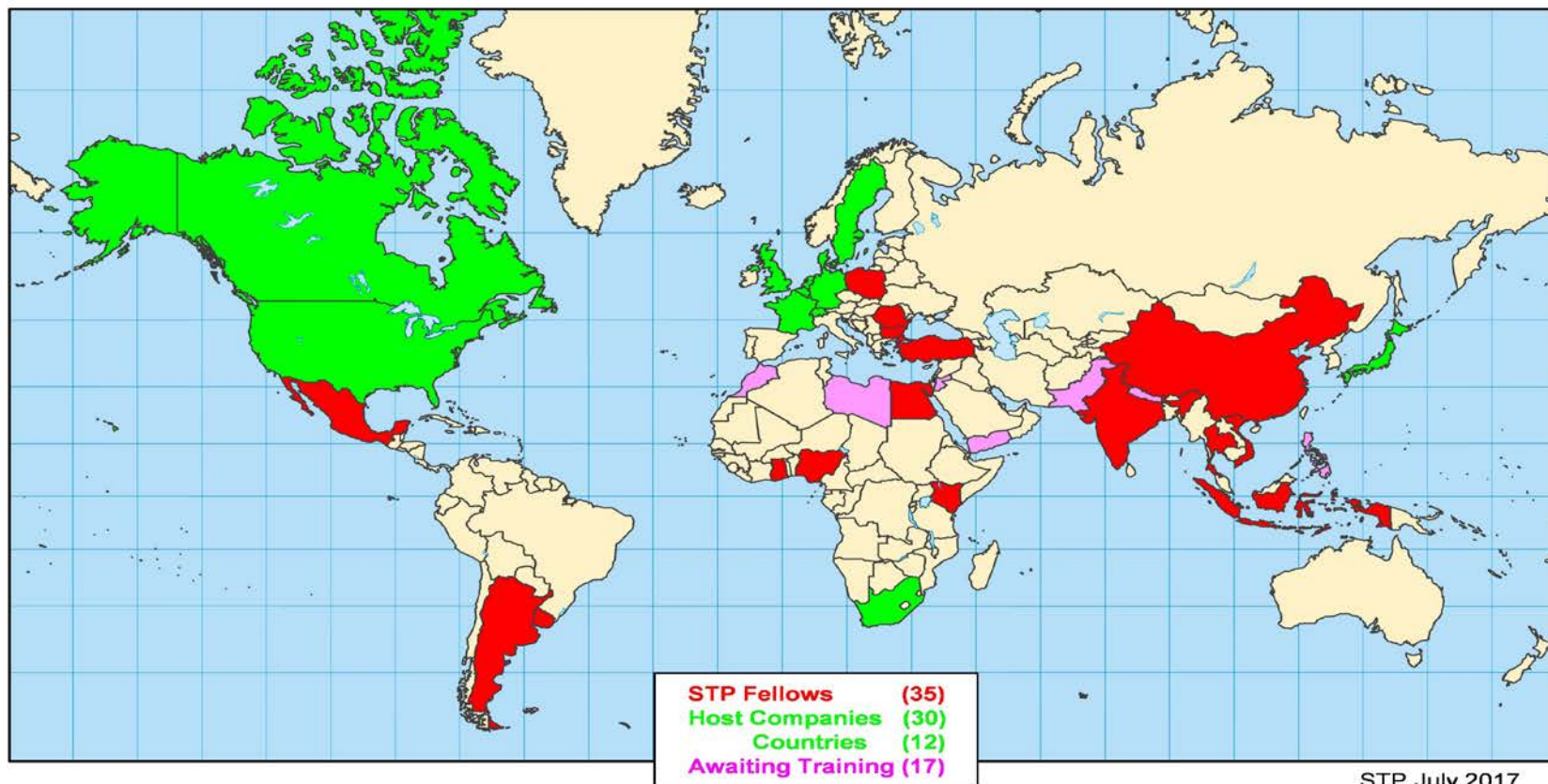
- Trained 7 Fellows and 4 Associate Fellows
- 4 New Hosts; Belgium, Canada & USA.
- First Regional local language Training.
- Summarized Impacts of Fellows at home.
- Support \$ and in-kind from CRDF/CSP.



IUPAC COCI STP Fellowships - A Global Project



IUPAC COCI STP Fellowships - A Global Project



Safety Training Workshops

CONSISTENTLY

**Sharing New Ideas and
monitoring of progress
Fellows activities and plans based
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 Escorcía (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.



C

A

P

U

I

P

A

C

Advancing Worldwide Chemistry



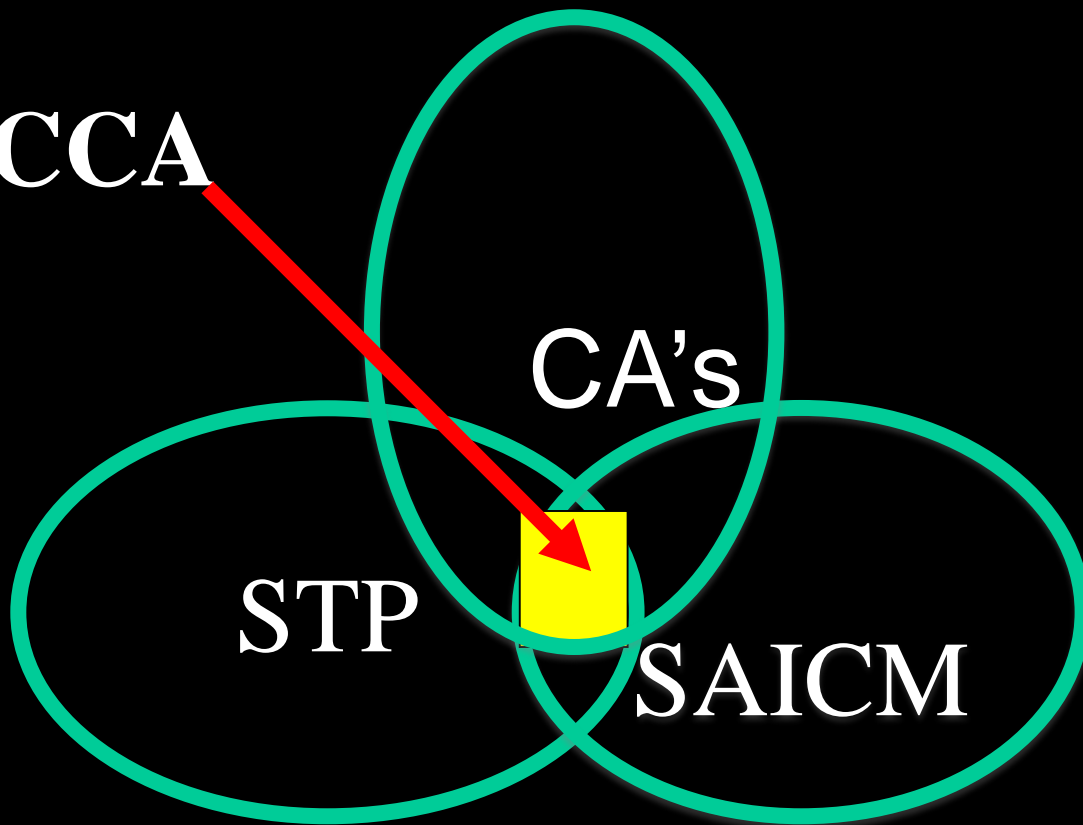
ICCA

CA's

STP

SAICM

Responsible Care



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!**

