Current STP Status & the Future

Safety Training Program Workshop

"Celebrating 20 Years of IUPAC COCI Safety Training"

Paris, France

8th July 2019

Dr. Robert J. Audette, FCIC

STP Coordinator (2018-2019)

STP@IUPAC.ORG

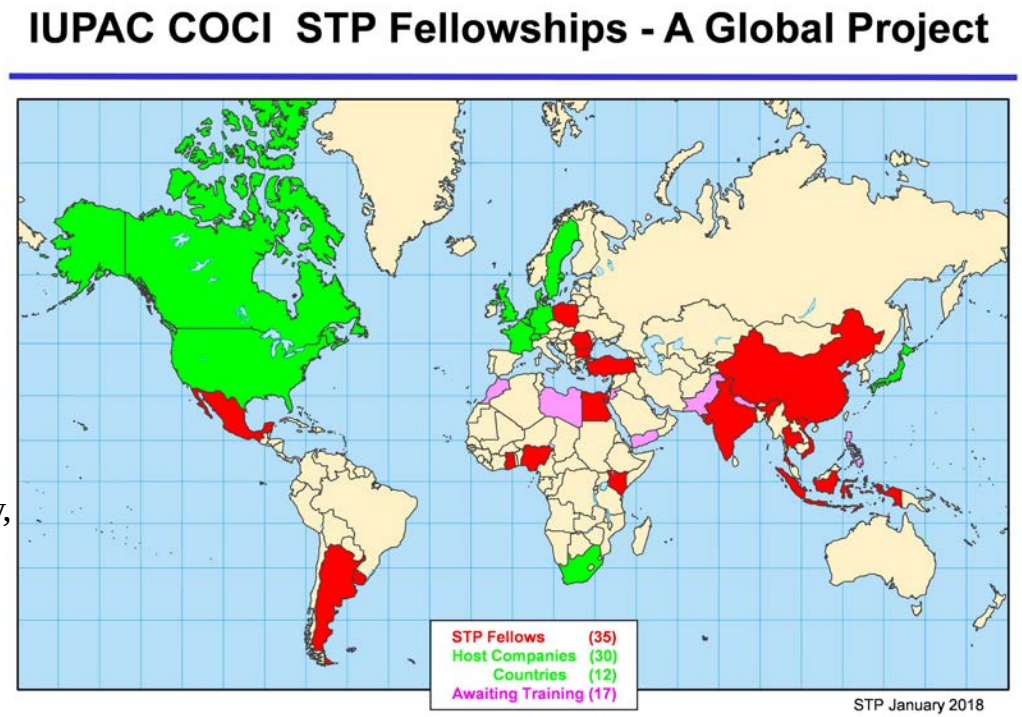
STP Programs

Dr. Mark Cesa

- STP Fellowship program
  - ✓ (1993-2018)
- STP Regional Projects
  - ✓ STP Latin America (STP-LA) 2016
  - ✓ STP India (proposed)

Dr. Bernard West

STP Fellowship Program (Early 2018)



- STP Fellowship program
  - ✓ 35 STP Fellows trained
    - from Argentina, Bulgaria, China (2), Egypt (7), Ghana, India (3), Indonesia, Kenya (4), Mexico (2), Nigeria (5), Poland, Romania, Thailand (2), Turkey, Uruguay (2), Vietnam
  - ✓ Host Companies
    - from Belgium (2), Canada (2), Denmark (2), France, Germany, Japan (2), South Africa, Sweden (2), Switzerland (3), The Netherlands (2), U.K. (3), U.S.A. (9)
  - ❑ 6 Approved STP Fellowship candidates (May 2014)
  - ❑ 11 applicants awaiting review (2014-2017)

STP Fellowship Program Review

- General:
  - ✓ New STP Coordinator E-mail account STP@IUPAC.ORG
  - ✓ Revised *"STP Fellowship Application form"* (fully fillable pdf file)
  - ✓ Revised *"STP Requirements for STP Fellowship Trainee Reports"* document
  - ✓ STP Article for IUPAC100 celebration (with Bernard West, Oct 2018)
    - *"IUPAC Contributes to Global Chemical Safety by Training Leaders in Developing Countries"*
  - ✓ Six selected STP Fellows profiles highlighted for article (with Bernard West, Oct 2018)
  - ✓ 2018 STP Brochure for IUPAC100 celebration published (WestWorks Consulting sponsored)
  - ✓ 2018 world map showing geographical distribution of STP Fellows, STP Associate Fellows & Host Companies (with Bernard West, Oct 2018)
  - ✓ All posted to STP website

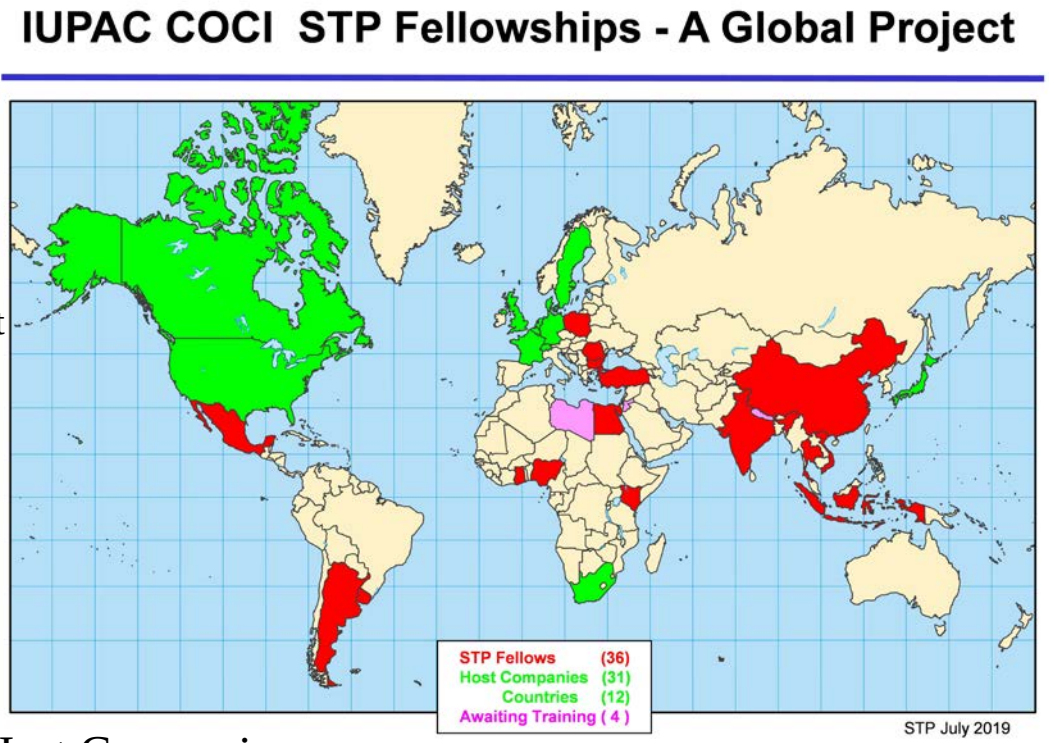
    https://iupac.org/who-we-are/committees/coci-safety-training-program/

STP Fellowship Program Review

- COCI-STP Files (fully electronic)
  - ✓ Historical files from Mark Cesa (1993-2011) & Bernard West (2012-2017)
  - ✓ SS and multiple documents for tracking all available information:
    - STP Administration, History, Programs, Workshops
    - STP Fellows, STP Associate Fellows and applicants details
  - ✓ Multiple world maps re-designed to track STP Fellowship Program from 1993-2019 with geographical distribution of STP Fellows, STP Associate Fellows & Host Companies
- Reviewed remaining 17 approved & pending files (Feb-March 2019)
  - ✓ Contacted applicants requesting updated information (revised application form)
  - ✓ Reviewed updated information
  - ✓ COCI subcommittee vetted remaining candidates
  - ✓ Updated approved candidates waiting list

STP Fellowship Program (July 2019)

- STP Fellowship program
  - ✓ Dr. Aluoch (Kenya) currently training at
  - ✓ Bayer AG,
    Product Supply & Pharmaceuticals,
    Dept. of Health, Safety and Environment (HSE), Bergkamen, Germany
  - ✓ CRDFGLOBAL
    INSPIRED BY PEOPLE | DRIVEN BY SCIENCE
    providing travel funds to/from Kenya to Germany & Germany to Paris



- ✓ 36 STP Fellows trained by 31 Host Companies
- ✓ 4 Approved STP Fellowship candidates waiting training (from Ghana, Libya, Nigeria, Nepal)
- ✓ No new STP Fellowship applications since July 2017

https://iupac.org/who-we-are/committees/committee-details/safety-training-program-fellows/

STP Fellowship Program Overview

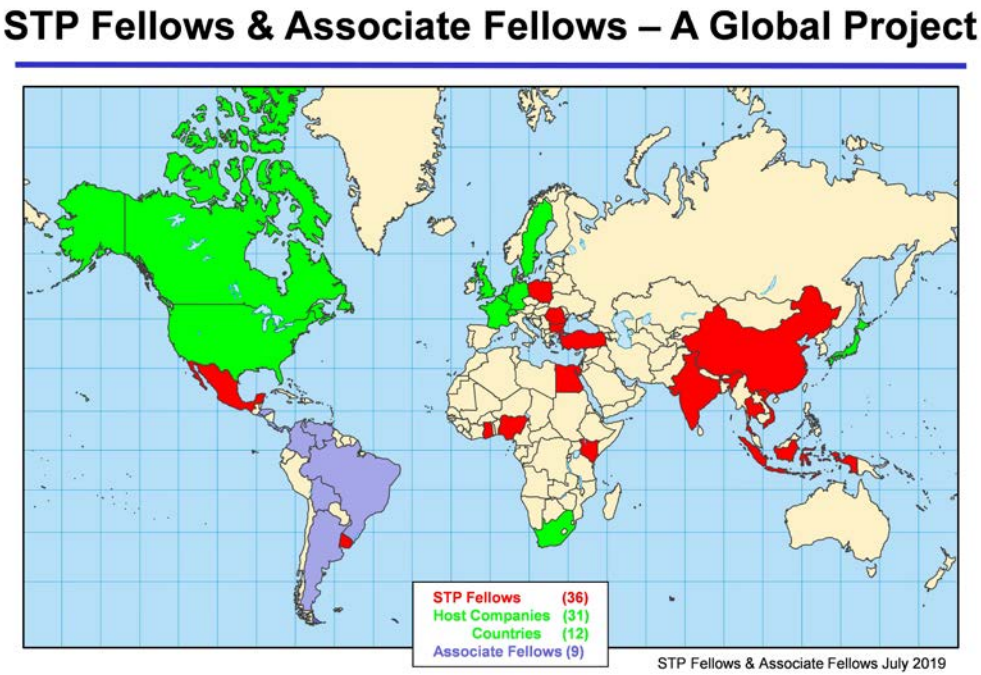
- COCI responsibilities:
  - ✓ Recruiting & reviewing STP Fellowship applications (electronic form available on STP website)
  - ✓ Evaluate application, vetting by COCI subcommittee. Approve candidates for training
  - ✓ Finding Host Company(s), match's with trainees, vettes/approves training schedule, coordinates communications
  - ✓ COCI (or partner CRDFGLOBAL INSPIRED BY PEOPLE | DRIVEN BY SCIENCE) provides travel funds to/from home country to Host Company site
- Host Company responsibilities:
  - ✓ Develop course of study and provide detailed schedule/agenda to STP Coordinator & trainee
  - ✓ Company experts provide on-site training in their safety & security practices (2-3 weeks)
  - ✓ Provides all trainee's local expenses (meals, accommodations and transportation) during training
  - ✓ Final report on experiences & lessons learned (optional)
- STP Fellowship trainee responsibilities:
  - ✓ Coordinate with Host Company and STP Coordinator concerning training schedule
  - ✓ Obtain all necessary travel documents/visas. Work with COCI (& partner) for travel arrangements
  - ✓ Post training:
    - submit detailed training report to the STP Coordinator
    - utilize knowledge to provide leadership to improve safety & security within their workplace
    - disseminate knowledge gained to chemical & pharmaceutical industry in their home country
    - establish new programs to improve safety practices within home country

IUPAC CENTENARY PARIS 2019

STP Regional Projects

- STP-Latin America
  - ✓ STP-LA trainees become "*STP Associate Fellows*" (Fall 2018)

  - ✓ STP-LA2 (2018) (Prof. Benzo's presentation)
  - ✓ Nine STP Associate Fellows trained
    - from Argentina, Bolivia, Brazil, Columbia, Costa Rica, El Salvador, Honduras, Panama, Venezuela



STP Regional Projects

- STP-India (2018-19) project update
  - ✓ Dr. G. S. Grover (STP Fellow 2008)
  - ✓ Project started: Sept. 2018

- ✓ Objectives:
  - reach out to Indian institutions and give 90 minute safety awareness (orientation) in-service seminar and discussions
  - project is aimed at sensitizing teachers, managers & students to follow & comply with standard safety norms while working with chemicals
  - focus audience is researchers, teachers & science students at High Schools, Universities, Colleges and doctoral students in R & D organizations all over India

STP Regional Projects

- Safety awareness (orientation) in-service seminars given at:

✓ Modern Colleges, Pune
- 75 non teaching lab support staff (Sept 2018)
- 90 MSc students Chemistry, Biotechnology & Microbiology (Oct 2018)

✓ MES Garware College, Pune
- 105 MSc Chemistry, Biotechnology, Biodiversity & Microbiology students (Oct 2018)
- 125 MSc Chemistry, Biotechnology, Electronics & Physics students (Feb 2019)

✓ Sanjay Ghodavat University, Kolhapur
- 250 Chemistry students & faculty (Jan 2019)

✓ Indian Institute of Science Education & Research (IISER), Kolkata
- 125 undergraduate & PhD Chemistry, Earth Sciences, Physical & Life Sciences students & staff (Jan/Feb 2019)

STP Regional Projects

- In-service seminars planned:
  - ✓ IIT Mandi (Himachal Pradesh) June 2019
  - ✓ Women's College in Cochin, Kerala July 2019

- Impacts:
  - "from the feedback, Colleges in Pune have initiated some steps to improve safety in labs"
  - "numbers are not a measure of impact or success, but have been able to touch > 800 students, researchers and staff during the past 9 months"
  - "despite writing letters to several heads of institutes all over India, ……poor response & consent to conducting safety orientation programs"
  - "in a society that is generally unaware, unwilling and unable to follow safe practices either for want of resources or an inherent carefree attitude"
  - "believes that even if 20% of the attendees start adopting the suggested safety measures, his job is done. (Everyone may not agree)"

STP Current Status

- STP website https://iupac.org/who-we-are/committees/coci-safety-training-program/
  - ✓ STP Brochure & Article
  - ✓ STP Fellowship application form
  - ✓ STP Fellows Trainee report requirement
  - ✓ Coming soon, page highlighting STP Associate Fellows

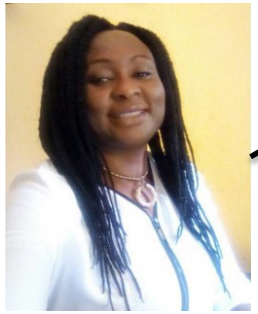
STP Future Directions

- STP Fellowship training
  - ✓ 4 approved candidates are awaiting Host Company training
    - Ghana (2013), Libya (2017), Nigeria (2017), Nepal (2015)
- Host Companies
  - ✓ Dr. Kazuhiko Ishikiriyama (IUPAC COCI TM, Japan)
    - one or two STP Fellowship candidates (Fall 2019)
    - potentially one week at Mitsui Chemical Co., Ltd., Japan
    - one/two weeks at 1 or 2 chemical companies, one pharmaceutical company
- STP Regional projects
  - ✓ STP-LA3 Spring 2020

Announcing:

STP Africa (Spring-Fall 2020)

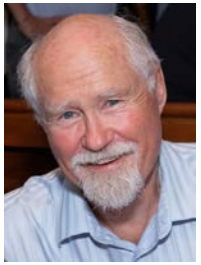
Jonathan Babalola


Christine Ashaolu

Steve Nyamori

Austin Aluoch

Fabian Benzo (STP-LA)


Robert Audette (STP-Coordinator)

Future Challenges

- Broadening our:
  - ✓ STP Fellowship Program
  - ✓ STP Regional Projects
- Increasing involvement by Chemical & Pharmaceutical Industry
  - ✓ Continue recruiting Host Companies willing to train our STP Fellowship candidates
  - ✓ # of STP Fellowship candidates trained at same time (1 to 2 versus 5 to 7)
  - ✓ This challenges the IUPAC COCI on funding travel expenses
- Major challenge: solidifying *sustainable, ongoing funding* from IUPAC, IUPAC Project Committee & Industry:
  - ✓ STP travel funding for STP Fellowship candidate training
  - ✓ STP Regional Projects
  - ✓ STP Workshops

Current STP Status & the Future

Thank You for helping us in

"Celebrating 20 Years of IUPAC COCI Safety Training"

Keynote Speakers

Invited Speakers

Presentations

Comments & Group Discussion

Safety Training Program Workshop

"Celebrating 20 Years of IUPAC COCI Safety Training"

Paris, France

8th July 2019