STP-LA
History, Learning and Perspectives

Prof. MSc. Fabián Benzo Moreira
History

2007

STP Trainee
Mitsui Chemicals Inc.

2015

STP-LA Proposal → Project
IUPAC 48th General Assembly

2016 / 2018

STP-LA 1
STP-LA 2
Objectives

- To train professionals with chemistry knowledge, in SHE&S, promoting a culture that prioritizes prevention to protection.

- To improve the management of chemicals products in Latin American, diminishing the probabilities of injuries, illness and contamination caused by working with chemical products.

- To strengthen the STP and the presence of IUPAC in Latin American.
Criteria for Selection of Trainees

- Professional chemists.
- Engaged in aspects of SHE.
- Involved in chemical organizations, universities or governmental institutions.
- Commitment and capacity to disseminate knowledge gained and influence in their places of employment and elsewhere within their country.
Topic covered

- Basic concepts
- Occupational safety
- Chemical products
- GHS
- Emergencies
- SHE&S Management
- Security
- SH&E culture
Methodology

- 80 - 90 hours training over 2 weeks
- Master classes
- Exercises in the classroom
- Practical experiences
- Videos
- Visit to chemical companies
- Activities on the field
- Evaluation of knowledge before and after training
- Application project
STP-LA 1 (2016)

- 44 candidates
- 10 countries

- Comprehensive management system in the upper and basic organic chemistry laboratories of the National University of La Plata (Argentina).

- Importance of chemical safety application during teaching and research activities at the Zulia University (Venezuela).

- Training process on chemical safety aspects (Ministry of Health, Costa Rica).

- Strengthening chemical safety program for Integral Responsibility Colombia member companies (Integral Responsibility, Colombia).
39 candidates

12 countries

- Strengthening the chemical handling regulations in Bolivia (Occupational Safety and Health Bolivian Society).
- Preparation of guidelines for conducting health surveillance of populations exposed to chemicals in Brazil (Ministry of Health, Brazil).
- Institutional strengthening for the safe management of chemicals in El Salvador (Ministry of Health, El Salvador).
- Strengthening of chemical safety in the Faculty of Chemistry and Pharmacy (National Autonomous University of Honduras).
- Implementation of the ISO 45001: 2018 standard in the Site of the Specialized Institute of Analysis in Corozal (University of Panama).
## Gap of knowledge level of trainees

<table>
<thead>
<tr>
<th>Trainee</th>
<th>Before*</th>
<th>After*</th>
</tr>
</thead>
<tbody>
<tr>
<td>De Oliveira, Natiela</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>García, Pablo</td>
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<td>5</td>
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<tr>
<td>Quintero, Fanny</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>Rada, Ruben</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>Romero, Gracia</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

* Maximum: 10
83 candidates
15 countries

- 2 projects cancelled.
- 4 projects in incipient state of implementation.
- 3 projects in advanced state of implementation.

http://stp-la.fq.edu.uy
Lessons Learned

The contents, duration, methodology, teaching materials, trainers, logistic and funds are considered suitable to achieve the proposed objectives.

It is important evaluate the trainee’s gap of knowledge before and after STP-LA.

In general, the progress of the projects proposed is less than expected.
Conclusions

- The strengthening of STP-LA program requires increasing the effectiveness of implementation of projects through the improvement of the trainee’s selection process.

- The STP-LA regional program is a valuable extension to the original IUPAC-STP and strengthens that program in developing countries.

- The STP-LA program is a necessary presence and important contribution of IUPAC to disseminate the chemical safety and security in industrial, academic and governmental sectors in Latin America.

- There are still Latin American countries with interest in participating in the STP-LA program that could not be accommodated.
Perspectives

STP-LA 3
2020?