

# ELI-TANGO Workshop, 2015 February

**Location:** Art Hotel, Szeged, Somogyi u. 16, 6720, Somogy Terem  
**Start Date:** 09:00, 24<sup>th</sup> of February, 2015  
**Finish Date:** 15:00, 25<sup>th</sup> of February, 2015  
**Description:** The workshop concentrates on the use of the TANGO Controls Framework at laser facilities, focusing on the three ELI sites.

## Programme

### Tuesday, 24<sup>th</sup> of February

08:30 – 09:00	Registration	
09:00 – 09:05	Welcome	Lóránt Lehrner ELI-ALPS
09:05 – 09:45	Keynote - TANGO: a brief overview and lessons learned during the operation and development at ESRF	Andy Götz ESRF
<b>09:45 – 10:40</b>	<b>Session 1: Introduction (Chair: Lajos Fülöp)</b>	
General overview of the ELI project and ELI sites, mission, high level scientific and technological background, location, light sources, building layout, and so on.		
09:45 – 09:55	General introduction of ELI	Károly Osvay ELI-ALPS
09:55 – 10:10	General overview of ELI-ALPS	Károly Osvay ELI-ALPS
10:10 – 10:25	General overview of ELI-Beamlines	Alejandro Vazquez-Otero ELI-Beamlines
10:25 – 10:40	General overview of ELI-NP	Mihail Cernaianu ELI-NP
10:40 – 11:00	Coffee break	
<b>11:00 – 13:00</b>	<b>Session 2: Integrated Control Systems (Chair: Andy Götz)</b>	
Control system requirements, architecture, autonomous systems, integration with TANGO, control network, beam alignment, logging, alarms, GUI, etc.		
11:00 – 11:20	Control System and Testbed in ELI-Beamlines	Danila Khikhlikha Pavel Bastl ELI-Beamlines
11:20 – 11:40	Control System at ELI-NP	Mihail Cernaianu ELI-NP
11:40 – 12:00	Integrated Control System at ELI-ALPS	Lajos Fülöp ELI-ALPS
12:00 – 12:20	Building TANGO Control Systems in C++ and Python	Tiago Coutinho ESRF
12:20 – 12:40	ALBA: general approach, integration with TANGO, user interfaces	Guifré Cuní ALBA
12:40 – 13:00	Controls team approach to deliver the MAX IV control system	Vincent Hardion MAXIV
13:00 – 14:10	Lunch	

<b>14:10 – 15:30 Session 3: Data Acquisition and Handling (Chair: Sándor Brockhauser)</b>		
Data acquisition, data collection, architecture, triggering, compression, filtering, binning, data acquisition network, data handling, data formats		
14:10 – 14:30	Data collection and data handling at ELI-NP	Teodor Ivanoaica ELI-NP
14:30 – 14:50	Data acquisition and data handling at ELI-ALPS	Lajos Fülöp ELI-ALPS
14:50 – 15:10	Data acquisition system in ELI-Beamlines	Danila Khikhukha Pavel Bastl ELI-Beamlines
15:10 – 15:30	Sardana	Guifré Cuní ALBA
15:30 – 15:50	Coffee break	
<b>15:50 – 16:55 Session 4: Data and software (Chair: Mihail Cernaianu)</b>		
Data storage and processing, metadata, archives, data processing, clusters, etc. Software infrastructure, continuous integration, testing		
15:50 – 16:10	Scientific Computing at ELI-ALPS	Péter Szász ELI-ALPS
16:10 – 16:30	Data storage and data processing at ELI-NP	Teodor Ivanoaica ELI-NP
16:30 – 16:55	Software infrastructure and continuous integration	Jiri Wiesner ELI-Beamlines
19:00	Dinner	

## Wednesday, 25th of February

09:00 – 09:40	Keynote – Lessons Learned During the Development of MAXIV	Darren Spruce MAXIV
<b>09:40 – 10:25 Session 5: TANGO (Chair: Péter Szász)</b>		
Ideas, experiences and discussions around TANGO		
09:40 – 09:55	ELI-ALPS status in terms of TANGO	Lajos Fülöp ELI-ALPS
09:55 – 10:10	ELI-NP status in terms of TANGO	Bertrand Boisdeffre ELI-NP
10:10 – 10:25	TANGO-LabVIEW integration: First Experiences	Péter Hegedűs Univ. Szeged
10:25 – 10:45	Coffee break	
<b>10:45 – 12:00 Session 6: Related topics (Chair: Szabolcs Szállási)</b>		
Discussions around related topics, status, integration to the control system, ...		
10:45 – 11:00	Synchronization at ELI-NP	Mihail Cernaianu ELI-NP
11:00 – 11:15	Synchronization at ELI-ALPS	Imre Kiss ELI-ALPS
11:15 – 11:30	Safety and radioprotection at ELI-NP	Mihail Cernaianu ELI-NP
11:30 – 11:45	Safety and radioprotection at ELI-ALPS	Tamara Kecskés ELI-ALPS
11:45 – 12:00	Personal Safety System of VEGA	Javier Santamaria CLPU
12:00 – 13:00	Lunch	
13:00 – 15:00	Site visit	