



TFC 2014
GIC

TRIZ Future Conference

Global Innovation Convention

Official program



A world premiere in Switzerland !

The event will be hosted at EPFL (Ecole Polytechnique Fédérale de Lausanne) and at CERN (European Organization for Nuclear Research)



PROGRAM

29th October – 1st November



TFC 2014 « Global Innovation Convention »

October 29th to 31st

November 1st weekend touristic event

« **Best innovative event on innovation management** »

TFC in brief

Leading event on innovation

The annual TRIZ FUTURE CONFERENCE is renowned as a key global innovation convention, bringing together over 100 professional experts and academics from industrial and service companies, scientific research centres and educational organizations. It provides the chance for key players and new entrants in the exciting field of **systematic innovation** to **exchange, learn and propel future developments.**

A worldwide innovation hub gathering institutions such as:

- **CERN:** The European Organization for Nuclear Research
- **KATA:** Korean TRIZ Association
- **EPFL:** which has been selected by the E-U to lead the Human Brain Project

PROGRAM

DAY 1, 29th of October at EPFL (Lausanne)



	Track 1	Track 2
8.00 - 8.25	Registration open	
8.25 - 9.40	Beginners Tutorial	Advanced Tutorial
9.40 - 10.05	Coffee break	
10.05 - 11.45	Beginners Tutorial	Advanced Tutorial
11.45 - 13.00	Lunch	
13.00 - 13.25	Conference Opening Ceremony	
13.25 - 13.50	Welcome Speech: Professor TUCCI (EPFL)	
13.50 - 14.15	Sebastien FRIESS (Chief of National Innovation Policies of SEFRI)	
14.15 - 14.40	Jean-Philippe DESCHAMPS (Professor of Technology & Innovation Management à IMD)	
14.40 - 15.05	Coffee break	
15.05 - 15.30	Method for Transferring the 40 Inventive Principles to Information Technology and Software. Harmut Beckmann	TRIZ-board game for waste reduction in Lean Production and Management. Christian M. Thurnes, Frank Zeihsel
15.30 - 15.55	TRIZ Evolutionary Approach: Didactics. Victor Dmitrievich Berdonosov, PhD	Online collaboration for TRIZ studies and problem solving. The experience of APEIRON, the Italian TRIZ association. Mr. Lorenzo Duroux
15.55 - 16.20	Fast Lead User Identification Framework. Sanjin Pajo, PDEng	Practice of multi-step hybridization: Case studies based on OLED display manufacturing problems described in US 20130071775. Mr. Valeriy Prushinskiy
16.20 - 16.45	Coffee break	
16.45 - 17.10	Trend of Increasing Coordination in Biology. Prof. Kai Hiltmann, Dr.	TRIZ-based Patent Design Around for enterprises: A Pencil Extender Device Innovative Redesign Ms. Wang Rui
17.10 - 17.35	Trend of S-curve evolution for roadmap development in the lighting industry. Mr. Marius Wouters	System Solutions for Increasing Nanofibre Production through TRIZ. Dr. Petr Lepsik, Ph.D.
17.35 - 18.00	Product improvement using TRIZ at Philips, a case study. Dr. Roland Waldner	Innovation of Coordinate Measuring Machine Using TRIZ Methodology. Dr. Petr Lepsik, Ph.D.
17.00 - 19.00	FIRST organized by Rezonance "Engineering innovation: how to master creativity"	

PROGRAM

DAY 2, 30th of October at EPFL (Lausanne)



8.00 - 8.25	Registration open	
8.25 - 8.50	Felix HOFMANN (CEO à BMI Lab)	
8.50 - 9.15	Christoph MEISTER (Holcim Technology Ltd - Innovation)	
9.15 - 9.40	List of Inventive Principles for Information Technology and Software. Hartmut Beckmann	Continuous innovation - combining Toyota Kata ja TRIZ for sustained innovation. Teemu Toivonen
9.40 - 10.05	S-Curves Analysis Focusing on WOM for Technological System Evolution. Hiroshi Hasegawa, Dr. Eng	TRIZ Methodology Adapted to a Dynamic System Projected Acoustic Study. Carine Ka Yann Au
10.05 - 10.30	Coffee break	
10.30 - 10.55	Leading innovation to improve complex process performances by systematic problem analysis with TRIZ. Stelian Brad	Parameters and Contradictions in Indoor Accessibility Problems. Mr. Sajjad Nazidizaji
10.55 - 11.20	On Solution Concept Evaluation/Selection in Inventive Design. Thongchai Chinkatham	2A2CI, an effective innovation methodology that makes TRIZ people & business compatible. Xavier Lepot
11.20 - 11.45	Identifying and reformulating knowledge items to fit with the Inventive Design Method (IDM) model for a semantically-based patent mining. Achille Souili, Ph.D candidate	Improving the value of products and processes by combining value analysis techniques and lean methods with TRIZ. Mr. John Cooke
11.45 - 12.10	Research on Functional Analysis Useful in Utilizing TRIZ. Koichi Makino	TRIZ in Robotic Engineering: Wall Climbing Robot Challenge resolved with PEGASUS algorithm. Dr. Nikolay Bogatyrev, PhD
12.10 - 13.25	Lunch	
13.25 - 13.50	The Contradiction as Conceptual Strategy for early stages of Architectural Design Process; A case study on the application of IDM-TRIZ in architecture. Amirabbas NAJARI, Ph.D. candidate	TRIZ-supported Development of an Allocation System for Sheet Metal Processing. Barbara Gronauer
13.50 - 14.15	How to exploit Standard Solutions in problem definition. David Russo, Phd Mechanical Engineer	TRIZ "knowledge spiral" (and first steps of ARIZ) solving Civil Engineering "thermal link" issue. P. Sire, D. Gillmann
14.15 - 14.40	Anticipating the identification of contradictions in Eco-design problems. Davide Russo, Phd mechanical engineer	Redesign of a Bearing Extractor Tool for an Aircraft Engine, using Reverse Engineering and TRIZ. Erik Rojas Vargas, PhD
14.40 - 15.05	Modeling the Conceptual Design Process with Hybridization of Modern TRIZ Methodology and Systematic Design Approach. Khairul Manami Kamarudin, MSc	Application of creativity tools in effective management of a power generation plant Godwin Ita Ekong, PhD from 8 JULY 2014
15.05 - 15.30	Optimization as an innovative design approach to improve the performances and the functionalities of mechatronic devices. Didier Casner, Ph.D student.	On the Effectiveness of Systematized Substance-Field Analysis for Idea Generation. Christoph Dobrusskin, MDes, MBA
15.30 - 15.55	Coffee break	
15.55 - 16.20	Analysis on Technological Opportunities of Evolution Bifurcations. Jianguang Sun	Biomimetic Interpreter: incorporating TRIZ problem-solving algorithm into biological effects database. Olga Bogatyreva, DSc
16.20 - 16.45	Assisting decisions in Inventive Design of complex engineering systems. Denis Cavallucci	Linking TRIZ to Conceptual Design Engineering Approaches. Francesco Saverio Frillici, Jr.
16.45 - 17.10	From traditional processes to innovative services: customized practices for systematic innovation at Posteitaliane. Carlo Angelini, Ph.D.	Integrating TRIZ and prospective approach for robust forecasting. Giacomo Bersano, M.D.
17.10 - 17.35	Biomimetic Interpreter: incorporating TRIZ problem-solving algorithm into biological effects database. Nikolay Bogatyrev, Ph.D.	Methodological support for prospective studies in New Concept Development. Giacomo Bersano, M.D.
17.35 - 18.00	Classification of TRIZ Techniques using a Cognition-Based Design Framework. Philip Samuel, Ph. D.	Effectiveness of conceptual design process respecting "The Axiomatic Design Theory". Manabu Sawaguchi.
19.30 - 23.30	Social event - Conf dinner	

PROGRAM

DAY 3, 31st of October at CERN (Geneva)



Track 1	
8.25 - 8.50	FORMAT - Building an original methodology for Technology Forecasting through researchers exchanges between industry and academia. Christopher nick nikulin, M.Sc.
8.50 - 9.15	A model for exploring technological changes in new systems. Ali Taheri
9.15 - 9.40	Establishing General Methodology of Creative Problem Solving & Task Achieving (CrePS): Organizing Different Methods and Their Application Cases with the Six-Box Scheme. Toru Nakagawa
9.40 - 10.05	Coffee break
10.05 - 10.30	Nicole Rosenkranz (ETH Zurich)
10.30 - 10.55	Markus Nordberg (Resources Coordinator of the ATLAS project au CERN)
10.55 - 11.10	A Simple Computer Tool for Applying Usage of Contradiction Matrixes. Prof. Oliver Mayer
11.10 - 11.25	Iranian Students` Applying TRIZ Principles in Real Life. Shohreh Mahdi, M.A.
11.25 - 11.40	Application of OTSM TRIZ for developing an deployment strategy of Processes 20140602 Rev1.pdf. Thomas Nagel
11.40 - 11.55	Fugitive dust form raw material yard windbreak design for optimal prediction. Jae Weon Yang
11.55 - 12.10	The transition from the Function Analysis to the TRIZ solving tools . Pavel Jirman, Sergey Logvinovb, Ivan Mašina
12.10 - 13.00	Roundtable on innovation and intellectual property with Professor Cavallucci
13.00 - 13.50	Lunch
13.50 - 15.30	Members meeting
	CERN visit (on subscription only) 2:00 p.m. to 4:00 p.m
15.30 - 15.55	Closing Event

PROGRAM (On subscription only)

Weekend program, 1st of November



Weekend Program

If you want to take advantage from your trip by discovering our wonderful Switzerland, Exelop offers you the possibility to stay during the weekend after the conference. Indeed, Exelop offers you the possibility to subscribe to the following packages:

Activity 1

The wine tours

- 2-4 wine & culture guides (English speaking)
- Pickup by bus for guests from Lausanne
- **Chateau of Chillon** with wine tasting
- Transfer to Lavaux with **wine tastings and cultural explanations**
- 4s **Tasting** program with gift **certificate**
- **Traditional lunch** in a wine domain on the Lavaux overlooking the lake and Alps with the winemaker

Duration: 5 h



Activity 2

Cheese Train

- **Cheesemaking demonstration**

Le Chalet restaurant makes its "Le Chalet Bio" cheese over a wood fire, just like in an Alpine chalet. Before your eyes, the cheesemaker, wearing a traditional costume, will transform 160 to 200 litres of organic milk into hard cheese. And you get to taste some at the end!

- **Le Chalet restaurant**

Warm, cosy and authentic, Le Chalet welcomes you to its rustic setting. An excellent organic cheese fondue and dessert will be served.

- **Museum of the Old Pays-d'Enhaut**

This private museum was established in 1922. Over the years, it has become one of the foremost museums of popular art in Switzerland. You can experience the ambiance of old fashioned homes and admire the typical art of the region: handmade cut-outs.

Duration: 4h

