

## Day 1 - November 2 2011 (9.00-18.00)

8.00 – 14.00	Registration	
8.45 – 9.00	Introduction to the tutorials session	
9.00 – 10.30	Tutorial 1:	<b>An Introduction to Systematic Problem Solving for Industry</b> - Root Cause Analysis, Menachem Horev - Theory of Constraints, Thinking Process, Rony Mann
	Tutorial 2:	<b>Planning the Implementation of TRIZ in Companies or Government organisations</b> - Ellen Domb
10.30 – 11.00	Coffee break	
11.00 – 12.30	Tutorial 1 (Part 2)	<b>An Introduction to Systematic Problem Solving for Industry</b> - Introduction to TRIZ for Industry, Pavel Livotov
	Tutorial 2: (Part 2)	<b>Planning the Implementation of TRIZ in Companies or Government organisations</b> - Ellen Domb
12.30 – 13.30	Lunch break	
13.30 – 14.15	Official Opening of the conference	
	Pat Coman, Introduction and welcome from ITT Dublin (15 mins) Tom Vaneker, Introduction and welcome from ETRIA (15 mins) Mr. Pat McLaughlin, ITT Dublin President, Official Conference Opening (15 mins)	
14.15 – 15.00	Keynote: Mr. Barry Kennedy, CEO ICMR (Irish Centre for Manufacturing Research) and I2E2 (Innovation for Irelands Energy Efficiency)	
	<b>The Advanced Manufacturing Challenge: Has anyone somewhere somehow already solved a problem like this before?</b>	
15.00 – 15.30	Coffee break	
15.30 – 16.15	Keynote: Ms. Mijeong Song, Ph.D. (Director, CTO Office, SAIT, Samsung Electronics, Korea)	
	<b>TRIZ in Samsung, Yesterday, Today and Tomorrow</b>	

16.30 – 18.00 Paper session 1

**Track 1 (Scientific track – long presentations)**

**Sequential experimentation to perform the Analysis of Initial Situation**  
Luc Burgard, Sébastien Dubois, Roland De Guio, Ivana Rasovska

**Preliminary studies on human approaches to inventive design tasks with a TRIZ perspective**  
Yuri Borgianni, Gaetano Cascini, Federico Rotini

**A variety metric accounting for unbalanced idea space distributions**  
Paul-Armand Verhaegen, Dennis Vandevenne, Jef Peeters, Joost R. Duflo

**Track 2 (Practitioners track – long presentations)**

**Main parameters of value analysis as a cornerstone of innovation**  
Andrey Efimov

**TRIZ marriage with TOC delivers improved product**  
Rony Mann, Gregory Frenklach

**2A2CI: A systematic approach to implement TRIZ innovation in SME**  
Xavier Lepot, Axel Neveux

18:10 Transport to Hotel

19.30 Buffet Dinner + entertainment at Louis Fitzgerald Hotel

**Day 2 - November 2 2011 (09.00-17.30)**

- 8.30 – 9.00 Registration  
8.45 – 9.00 Introduction and announcements Pat Coman
- 09.00 – 09.45 Keynote: Leonid S. Chechurin, Prof., Dr. of Science, Innovation Theory; Dept. Head (St.Petersburg State Polytechnical University, RUSSIA) and Research Fellow for Dipartimento di Meccanica (Poltecnico di Milano, ITALY)  
**Creativity “in” the Exact Science**
- 10.00 – 11.00 Paper Session 2

**Track 3 (Practitioners track - 4 short presentations)**

**The development of concepts for the control of tip clearance in Gas turbine HP compressors using TRIZ**

G.I.Ekong, C. A. Long, N. R. Atkins, P. R. N. Childs

**Matching and merging TRIZ and post-TRIZ evolutionary theories of technological change**

Giuseppe Carignani

**Component Misplacement Prevention on the ICOS Tape & Reel process using TRIZ & Lean**

Darin Moreira

**Problem solving in everyday life: On methods and tools for weeding (or removing weeds)**

Toru Nakagawa and Takahisa Miyake

**Track 4 (Scientific track - 2 short presentations)**

**Restoring TRIZ approach to ease a technology transfer**

Pierre-Emmanuel Fayemi, Pascal Crubleau, Simon Richir

**“Self-expandable” TRIZ contradiction matrix**

Nikolay Bogatyreva, Olga Bogatyreva

- 11.00 – 11.30 Coffee break

- 11.30 – 13:00 Paper session 3

**Track 5 (Scientific track - 3 long presentations)**

**What can we learn from biological systems when applying the law of system completeness?**

Yael Helfman Cohen, Yoram Reich, Sara Greenberg

**Evolution Predictability, Lamarck, Altshuller, Darwin and Chaos**

Ido Lapidot, David W. Conley

**About Integration Opportunities Between TRIZ and Biomimetics for Inventive Design**

Alessandro Baldussu, Gaetano Cascini

**Track 6 (Practitioners track - 3 long presentations)**

**“A study of Effective Manufacturing Activities” based on a Number of Redesigned Contradiction Matrices”**

Manabu Sawaguchi , Yuji Mihara , Heikan Izumi

**OTSM express analysis of an initial situation**

Nikolai Khomenko, Hongyul Yoon

**A Journey Of FMEA Approach Through TRIZ Methodology**

Nagappan Annamalai

13:00 – 14:00 Lunch Break

14:00 – 15.30 Paper session 4

**Track 7 (Scientific track - 3 long presentations)**

**A Method for Facilitating Inventive Design Based on Semantic Similarity and Case-Based Reasoning**

Wei Yan, Cecilia Zanni-Merk, François Rousselot, Denis Cavallucci

**Learning TRIZ: Impact on confidence when facing problems**

Jennifer Harlim, Iouri Belski

**Web-Based Asynchronous Distance Education in New Product Development and Inventive Problem Solving for Industrial Companies**

Pavel Livotov

**Track 8 (Practitioners track - 3 long presentations)**

**Systematic creativity techniques for continuous process improvement**

Ivan Masin, Pavel Jirman

**“Proposal for an effective cost reduction method based on TRIZ**

Heikan Izumi, Hideaki Koike, Manabu Sawaguchi

**First evolutionary step towards innovation using the law of system completeness**

Dalia Zouaoua-Ragab, Pascal Crubleau, Denis Choulier, Simon Richir

15.30 – 16:00 Coffee break

16:00 – 17.30 Paper session 5

**Track 9 (Practitioners track - 4 short presentations)**

**Applications of TRIZ tools in product & technology development for cooling compressors at ACC Austria**

Walter Brabeka, Jürgen Jantschgib

**Forecasting new business opportunities using the TRIZ evolution approach**

Kyeongwon Lee

**Study of a Functional Diagram to Facilitate the Effective Utilization of “Effects”**

Koichi Makino, Manabu Sawaguchi

**Application of TRIZ in the implementation of Predictive Maintenance in Manufacturing Environment**

Paul Devaraj

**Track 10 (Scientific track - 3 short presentations)**

**“Development of thinking skills” course: teaching TRIZ in academic setting**

Sara Greenberg

**Integrating TRIZ in project management processes: an ARIZ contribution**

Helena V. G. Navas, Alexandra M. B. R. Tenera, Virgílio A. Cruz Machado

**“The Lifeline” of Technical Systems in a TRIZ-LEAN Environment**

Helena V. G. Navas, Virgílio A. Cruz Machado

17:40 Transport to Hotel

19.00 Departure from the hotel – Gala dinner

**Day 3 - November 3 2011 (9.00-15.30)**

- 8.00 – 09.00 Registration/Baggage Lockup etc
- 08:45 - 09:00 Introduction and announcements Pat Coman
- 09:00 – 09.45 Keynote: Dr. Eddie Commins (Manager, Applied Innovation Department, Enterprise Ireland)

**The Importance of Discipline in Innovation**

- 10.00 – 11.00 Paper session 6

**Track 11 (Practitioners track - 4 short presentations)**

**Effective Test Handler Temperature Calibration Through TRIZ Approach**

David Chew Chin Siang

**The use of TRIZ tools in science journalism**

Kalevi Rantanena

**TRIZ Approach to Solve the metal fuse ion migration problem in semiconductor industry**

Younghan Jeong, Jongsung Lee, Sunsoon Park

**Innovation of the Axe! How TRIZ and other innovation tools can assist to innovate a several thousand years old product and a 300 years old company**

Leonhard Müller, Jürgen Jantschgi

**Track 12 (Practitioners track - 3 short presentations)**

**Considering User's Kando for Conceptual Design on CDSS**

Ayano Sato, Hiroshi Hasegawa

**Systematic Innovation and Identification of Ideas in Siemens**

Jens Hammer, Dr. Robert Adunka

**Development and Application of the Simple Contradiction Modeling and the Invention Song**

Jeongho Shin

- 11.00 – 11.30 Coffee break

- 11.30 – 13:00 Paper Session 7

**Track 13 (Scientific track - 3 long presentations)**

**Production processes modeling for identifying technology substitution opportunities**

Niccolò Becattini, Gaetano Cascini, Pierluigi Petrali, Anna Pucciarini

**Introducing Trimming and Function Ranking to SolidWorks based on Function Analysis**

Leonid S. Chechurin, Wessel W. Wits, Hans M. Bakker, Tom H.J. Vaneker

**A comparison of Classical TRIZ and OTSM-TRIZ in dealing with complex problems**

Lorenzo Fiorineschi, Francesco Saverio Frillici, Paolo Rissone

Track 14 (Practitioners track - 3 long presentations)

**Learner-focused teaching applied to the use of resources in TRIZ problem solving**

Ellen Domb, Joe A. Miller, Ralph Czerepinski

**How to avoid resistances in TRIZ projects?**

Barbara Gronauer

**How to improve the evaluation of exhibits by partial application of TRIZ**

Bohuslav Bušov, Pavel Jirman

13:00 – 14:00 Lunch break

14:00 – 15:00 Paper Session 8

Track 15 (Scientific track - 2 long presentations)

**Starting from patents to find inputs to the Problem Graph model of IDM-TRIZ**

Achille Souili, Denis Cavallucci, François Rousselot, Cecilia Zanni

**FBOS: Function/Behaviour–Oriented Search**

Tiziano Montecchi, Davide Russo

Track 16 (Scientific track - 2 long presentations)

**Exploiting TRIZ tools in Interaction Design**

Stefano Filippi, Daniela Barattin

**TRIZ-evolution of Programming Systems**

Victor Berdonosov, Tatiana Sycheva

15:00 – 15:30 Conference Close Pat Coman/Tom Vaneker

Transport to Dublin City Centre/Hotel

15.30 – 17:00 ETRIA Members meeting

Transport to Dublin City Centre/Hotel

---

**Day 4 - November 4 2011 (10.00-13.00) – Optional Tutorial**

Venue Synergy Centre, Institute of Technology Tallaght, Dublin 24  
Room – Glasshouse

Tutorial **Combining TRIZ with Other Innovation and Creativity  
Techniques and Psychological Assessments**

- Jack Hipple