

TRANSPORT AND TELECOMMUNICATION INSTITUTE RESEARCH & DEVELOPMENT DEPARTMENT NEWSLETTER

OCTOBER 2013

INTERNATIONAL CONFERENCE RELIABILITY AND STATISTICS IN TRANSPORTATION AND COMMUNICATION

SAVE THE DATE: 16-19 OCTOBER 2013

Dear colleagues, we invite everyone to attend the international conference **Reliability and Statistics in Transportation and Communication (RelStat)** which will be held at Transport and Telecommunication Institute (TSI) between 16th and 19th of October 2013. For the 13th time RelStat conference will gather at TSI scientists and professionals in the field of reliability and statistics in transportation and telecommunications. The conference is traditionally dedicated to the memory of professor H. Kordonsky – expert and founder of a number of research areas in the field of statistics and reliability.

During the conference more than 60 reports will be given in various areas. The conference will bring together scientists from Latvia, Lithuania, Spain, Poland, Belarus, Czech Republic, Greece, Russia, Slovakia and Australia. The plenary session will be attended by:

- Prof. Miquel Angel Piera (Spain, Universitat Autònoma de Barcelona), with report “Optimisation Through Simulation: How to Improve TMA Operations”;
- Prof. Gunnar Prause, with report “Management and monitoring of green transport corridors”;
- Prof. Eugene Kopytov, Prof. Irina Yatskiv, Domenico Casellato, Luppino Giuseppe, Rob McDonald (Latvia, Italy, UK), with report “Methodology of Benchmarking and Analysis of Good Practices in Public Transport Information Systems”.

During the conference the following projects will be presented:

- Policy Learning in Information Technologies for Public Transport Enhancement -POLITE (within frames of the INTERREG IVC programme);
- Logistics and Overland Transport Network for Training “Blue Collars” - LogOnTrain (within frames of the Estonia - Latvia - Russia Cross Border Cooperation Programme);
- Enhancing the transfer of Intelligent Transportation System innovations to the market-T-Trans (within frames of Seventh Framework Programme).

This year we have additional seminars and workshops within frames of EU projects. This projects are presented below.

SCIENTIFIC WORKSHOP: PROJECT POLITE

Date: 18 October 2013

Time: From 10:00 to 14:00

Place: Hall #1 (Aud.130)



POLITE is a project running over three years from June 2012 to December 2014 (Co-financed by the ERDF and made possible by the INTERREG IVC programme).

The event hold in Latvia within frames of the project will be organised to present project results in parallel with Component 3 achievements. This event will present the best practices analysis that was done by TTI. This event aims at fostering the transfer of POLITE achievements to the wider local/regional public and at feeding the partners' joint work at EU level by collecting stakeholders' concerns.

The national event aim to meet the following objectives:

- Giving the audience an insight into POLITE and the good practices that partners will exchange
- Raising awareness among local and national public administrations and decision-makers about existing different infomobility solutions around Europe, and in particular in the respective site/country
- Understanding better the context for applying infomobility services in the respective countries
- Promoting co-modality and the wider use of public transport
- Raising interest in the POLITE project and its outcomes, and motivating participants to follow the project and also attend the 2nd local event in 2014



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WORKSHOP: LOGONTRAIN: CWP GROUP MEETING

Date: 17 October 2013

Time: From 14:00 to 18:30

Place: Hall #4 (Aud.220)

LogOnTrain project of the Estonia - Latvia - Russia Cross Border Cooperation Programme within European Neighbourhood and Partnership Instrument started in May 2013 and shall be completed in December 2014. Full name of the project is Logistics and Overland Transport Network for Training "Blue Collars". Workshop project LogOnTrain (ELRII-465) of Interest to Market in Latvia will take place in Transport and Telecommunication Institute on 17/10/2013. The goal of this meeting is discussion of the problems of primary and postgraduate training of category "Blue Collars" specialists to meet the requirements of internal and external markets of neighboring countries EU and Russia. The agenda of the meeting consists of number of presentations from academia Estonia, Latvia and Russia.

Following topics will be proposed for discussions:

- Development of module based professional education pathway - joint curriculum and flexible study process (competency based pathway).
- Development of module based IT solution for multimodal practical tasks.
- Modern IT-technology in vocational education.

Panel Discussion:

- Veiko Ardel (Estonia), **Development of module based professional education pathway - joint curriculum and flexible study process (competency based pathway).**
- Evgeniy Korovyakovskiy, Mikhail Pimonenko (Russia), **Development of module based IT solution for multimodal practical tasks.**
- Alexander Medvedev, Vitaly Vasilevsky (Latvia), **Modern IT-technology in vocational education.**
- **Steering Committee and General partnership meeting**

TUTOR LECTURE: EUROPEAN TEN INFRASTRUCTURAL NETWORK AND INTERNATIONAL LOGISTIC CHALLENGES

Prof. Massimo Merlino (Italy, University of Bergamo)

Date: 18 October 2013

Time: From 09:00 to 10:00

Place: Hall #1 (Aud.130)

The infrastructural network designed for Europe (TEN projects) recently reviewed remains very old as basic concepts and scenarios. International logistic principles and investments change very rapidly, creating new transportation and infrastructural scenarios. In the globalisation framework ships and planes are the keys, but also railways have new spring like in the first globalisation at the end of the 19th century. Designing transportation networks has been always a preliminary strategic choice to the development of large economic and political empires, so has been for Roman, Persian and Chinese. TEN projects are prepared after European marketing area has been designed. They are looking mainly inside EU territories, not to the connections with other economical areas, now drivers of globalisation like BRICS, very active in infrastructural projects for supporting their development processes. Presentation will focus on these problems and on these new scenarios highly impacting EU future.

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WORKSHOP: T-TRANS PROJECT

1st Workshop of G-local Community of Interest to Market in Latvia

Date: 16 October 2013

Time: From 13:30 to 20:00

Place: Hall #1 (Aud.130)



The main objective of the project is to provide information on innovation mechanisms for the Intelligent Transport Systems, in order to facilitate the upbringing of related innovative products and services to the market.

The main output of T-TRANS is expected to be a set of recommendations and information to improve the understanding of the ITS innovation processes.

The 1st Workshop of G-local Community of Interest to Market in Latvia will take place in Transport and Telecommunication Institute on 16/10/2013. The goal of this meeting is to initiate creating of Community of Interest to Market (CIM). The agenda of the meeting consists of number of presentations from government institutions, SMEs, academia, research organizations etc.

Following topics will be proposed for discussions:

- Implementation of EU Directive 2010/40/EU of the European Parliament and of the Council in Latvia
- Road traffic counting and classifying system implementation
- eCar in the context of the economy / green economy
- Logistics in era of ITS. Smart solutions for Latvian Enterprises
- Implementation of e-ticketing system in Riga
- ITS implementation in Jelgava city
- AED-portal: services for transport and commercial documentation completion
- Development of weight-in-motion system based on fiber optic sensor: project SVARI

OPEN LECTURE: STATUS AND TRENDS OF LOGISTICS DEVELOPMENT IN THE RUSSIAN FEDERATION

Date: 18 October 2013

Time: From 12:15 to 13:45

Place: Lecture Room II

Valery Lukinskiy (Honored Scientist of the Russian Federation, Academician of the Transport Academy of Russian Federation and the International Transport Academy, Dr.habil.sc.ing, Professor, Director of CKC «ASMAP» in St. Petersburg, Head of the Logistics and Transport Organization Department of the St. Petersburg state Engineering and economic University.)

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PROGRAMME of the 13th International Conference “RELIABILITY AND STATISTICS IN TRANSPORTATION AND COMMUNICATION”

Date	Time	Hall #1 (Aud. 130)	Hall #2 (Aud. 230)	Hall #3 (Aud. 100)
16.10.2013	13:30 – 14:30	Registration of “1st Workshop of G-local Community of Interest to Market in Latvia” participants (Hall #1)		
	14:30 – 16:00	1st Workshop of G-local Community of Interest to Market in Latvia		
	16:00 – 16:30	Coffee Break		
	16:30 – 18:00	1st Workshop of G-local Community of Interest to Market in Latvia		
	18:30	Welcome Party (Hall #1)		
17.10.2013	09:00 – 14:00	Registration of RelStat’13 Conference participants		
	10:00 – 10:30	Opening Session (Hall #1)		
	10:30 – 11:10	Plenary Session (Hall #1)		
	11:15 – 11:30	Coffee Break		
	11:30 – 13:00	Plenary Session (Hall #1)		
	13:00 – 14:00	Lunch		
	14:00 – 15:40	Parallel Sessions		
		Transport Systems	Statistic Methods and their Applications	Intelligent Transport Systems
	15:40 – 16:10	Coffee Break		
	16:10 – 18:30	Parallel Sessions		
Transport Systems		Reliability and Maintenance	Invited Session	
19:00	Dinner (Restaurant “LIDO”)			
18.10.2013	9:00 – 10:00	Tutor Lecture (Hall #1)		
	10:00 – 11:40	Parallel Sessions		
		Information Technologies for Transport and Logistics	Transport Systems	Intelligent Transport Systems
	11:40 – 12:10	Coffee Break		
	12:10 – 14:00	Parallel Sessions		
		Workshop Project Polite	Transport and Logistics System Modelling	Intelligent Transport System (Electronics)
	14:00 – 15:00	Lunch		
15:00 – 17:00	Parallel Sessions			
	Transport and Business Logistics	Applications of Mathematical Methods to Logistics and Business	Intelligent Transport System (Electronics)	
19.10.2013	09:00 – 15:00	Social Programme: Excursion to Sigulda		

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THE BALTIC-GERMAN UNIVERSITY LIAISON OFFICE ANNOUNCES THE PROJECT COMPETITION 2014



At **September 25th, 2013 at 15:30** members of the research department held a workshop devoted to the possibility of submitting projects under the Baltic-German cooperation. Speakers Savrasov M. and Strode R. spoke about the specifics of the project application design for participation in the project.

The Baltic-German University Liaison Office supports projects, which promote the scientific cooperation between Estonia, Latvia and Lithuania on the one hand and Germany on the other hand and as well the cooperation between the Baltic States.

The project must improve the quality of higher education and the development of science in Estonia, Latvia or Lithuania and must strengthen scientific cooperation with Germany. Projects, in which all three Baltic States are involved, enjoy priority concerning the approval.

The projects can represent any scientific field and can be carried out in different forms, such as seminars and guest lectures, which are related to a specific field, research projects, conferences, publications.

The financial amount for the project implementation can be up to 5 000 EUR for one project

Deadlines for submitting project proposals:

until 15.10.2013: project implementation period between 1.01.2014 – 15.12.2014

until 17.03.2014: project implementation period between 1.07.2014 – 15.12.2014

For more information go to the: <http://www.hochschulkontor.lv/> or TTI research department (room 116, phone 67100586, e-mail: Strode.R@tsi.lv).

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EUROPEAN RESEARCH COUNCIL SUPPORTING TOP RESEARCHERS FROM ANYWHERE IN THE WORLD

The main goal of the European Research Council (ERC) is to encourage high quality research in Europe through competitive funding.

Funding schemes are open to top researchers of any nationality or age who wish to carry out their frontier research in the 28 EU Member States or associated countries. There are three ERC core funding schemes and one additional scheme:

- ERC Starting Grants
- ERC Consolidator Grants
- ERC Advanced Grants
- ERC Proof of Concept



European Research Council
Established by the European Commission

The next ERC Work Programme and calls for 2014 will be the first ones under the new EU Research Framework Programme "Horizon 2020"

For more information go to the: <http://erc.europa.eu/>

PHD STUDENTS AND YOUNG SCIENTISTS ARE INVITED TO APPLY FOR FUNDING FROM THE SWISS SCHOLARSHIP FUND

Till November 1, 2013 Latvian PhD students and young researchers can apply for funding from the Swiss Foundation Scholarship to develop the research of his doctoral or post-doctoral study in Switzerland.

Doctoral students may participate in the competition not earlier than one year after the Master's degree, but young scientists - not later than five years after gaining their phd.

Scholarship amount is determined by its type and the time spent in Switzerland.

Phd students may apply for scholarship from 6 to 24 months and young scientists - from 6 to 18 months. At the same time it is possible to include the experience exchange visit till five days for scientific supervisors.

Switzerland Scholarship Fund covers expenses for the phd student and young scientists related to their stay in Switzerland. While for the scientific supervisors are covered the costs of short-term visits, during which it will be possible for entire research team work together

For more information go to the: www.viaa.gov.lv in Swiss Contribution

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POSSIBILITY TO APPLY FOR THE BAFF PROFESSIONAL INTERNSHIP PROGRAM

Internship program provides an opportunity for knowledgeable and ambitious university students and graduates to go to the United States in order to practice in one of the U.S. company. The place of practice will be individually selected for each program participant. Scholarship recipients receive up to \$30,000 for six-month or year-long internships in the U.S. **The scholarship includes:**

- Internship placement at an exciting U.S. company
- Round-trip airfare
- Travel health insurance
- U.S. Visa
- BAFF Orientation and Reception
- BAFF Enrichment Trip
- Monthly Stipend that covers:
 - * Accommodation
 - * Meals
 - * Transportation to and from work
 - * Extra pocket money

Additional Benefits:

- 24/7 Emergency Line
- Personalized support

The most important criteria for selection of scholarship winners is their motivation and a clear vision of the future eligibility of the mission, academic and professional achievements, as well as English.

All participants of the Baltic - American Freedom Foundation program after completion of the program have to return to their home country for at least two years and use their knowledge, skills and experience for Latvian social, political and business environment development.

Application deadline: 2013 th on the 30th October

For more information go to the: www.balticamericanfreedomfoundation.org

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СЕМИНАРЫ ДОКТОРАНТОВ

Уважаемые коллеги,

В октябре 2013 года в институте пройдут семинары наших соискателей докторской степени.

24 октября в 16:00 в 710 ауд. пройдет расширенное заседание кафедры 21, где с докладом о своей работе выступит Алла Меликян (рук. – профессор Мишнев Б.Ф).

Тема промоционной работы: „Исследование безопасности на железнодорожном транспорте с учетом климатических факторов”.

31 октября в 16:00 в 710 ауд. Пройдет расширенное заседание кафедры 23, где с докладом о своей работе выступит Елена Ревзина (рук. - профессор А.Андронов).

Тема промоционной работы: „Стохастическое описание телекоммуникационных потоков в ITS-системах”.

ЛАТВИЙСКАЯ АКАДЕМИЯ НАУК. ОТКРЫТАЯ ЛЕКЦИЯ.

Уважаемые коллеги,

Академия наук приглашает научных сотрудников, докторантов и студентов на открытую лекцию "Биология и медицина как информационные науки".

Лекция состоится 21 октября в 15:00 в Академии наук. (Rīgā, Akadēmijas laukumā 1, 3.stāvā).

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EU-WIDE ESTABLISHMENT OF ENDURING NATIONAL AND EUROPEAN SUPPORT NETWORKS FOR SUSTAINABLE URBAN MOBILITY

Acronym of the project:

ENDURANCE

Short description:

Project ENDURANCE started at 1st May, 2013. This project aims to assist cities and regions with developing Sustainable Urban Mobility Plans (SUMPs) by facilitating networking, mutual learning and sharing of experience and best practice across countries. ENDURANCE builds 25 national networks and an overarching European network making use of the existing EPOMM (European Platform on Mobility Management) structure. The main target groups are urban mobility professionals, cities and national authorities. The main benefit are efficient and lasting support structures for SUMP, which will be maintained by EPOMM beyond the end of ENDURANCE. During ENDURANCE networks will offer a training and policy exchange programme based on yearly national meetings in each country as well as international meetings.

Goal of the project is to support the policies of the EU and the priorities of this IEE-call by closing a large gap, described in many reports: the major success factors for successful SUMP implementation are peer-to-peer contacts and a national support policy – and both are structurally lacking in almost all EU countries

Objectives during the project:

1. Establish enduring national SUMP networks in all EU countries and Norway.
2. Establish an enduring and integrated European SUMP audit, training and policy transfer network.
3. Activate 250 cities in Europe to engage in SUMP and SUMP implementation.
4. Raise awareness about SUMP and its benefits at national and European level institutions.

Strategic objectives for the long term (2020):

1. Establish SUMP as major urban policy supported on a local, national and European level.
2. Reduce modal share of the car by on average 5% in 400 of the 483 cities above 100,000 inhabitants in Europe.

Expected results:

- Establish enduring national SUMP networks in all EU countries and Norway.
- Activate 250 cities in Europe to engage in developing and implementing a Sustainable Urban Mobility Plan.
- Raise awareness about SUMP and its benefits at national and European level institutions.

The estimated results of the project will be:

- 190 million Euros total investments in sustainable mobility during the project and 800 million by 2020.
- 1.5 million tonnes reduction of annual CO2 emissions by 2016 and 11 million by 2020.
- 340,000 toe/year reduction in energy consumption by 2016 and 3.5 million toe/year by 2020.

Funding:

Total funding: 2,612,424 EUR

Financed by EU: 1,958,588 EUR

Duration:

36 months



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