

**XXXV** SCIENTIFIC - TECHNICAL CONFERENCE  
and  
**13th GERMAN – LITHUANIAN – POLISH COLLOQUIUM**  
Białystok - Augustów - Vilnius, 9-12 October 2011

# PROGRAMME



**BIALYSTOK TECHNICAL UNIVERSITY**  
**FACULTY OF CIVIL AND ENVIRONMENTAL ENGINEERING**  
**UNIT OF BUILDING PROCESSES ENGINEERING**

**POLISH ASSOCIATION OF CIVIL ENGINEERS AND TECHNICIANS**  
**BIALYSTOK BRANCH**

**XXXV SCIENTIFIC - TECHNICAL CONFERENCE**  
and  
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**ADDRESS OF THE ORGANIZING COMMITTEE**

**BIALYSTOK TECHNICAL UNIVERSITY  
FACULTY OF CIVIL AND ENVIRONMENTAL ENGINEERING  
UNIT OF BUILDING PROCESSES ENGINEERING  
CONFERENCE "CONSTRUCTION PROJECTS ENGINEERING"  
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# **XXXV SCIENTIFIC - TECHNICAL CONFERENCE**

and

## **13th GERMAN – LITHUANIAN – POLISH COLLOQUIUM**

Białystok - Augustów - Vilnius, 9-12 October 2011

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- Ph.D. Student at BTU

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# XXXV SCIENTIFIC - TECHNICAL CONFERENCE

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## 13th GERMAN – LITHUANIAN – POLISH COLLOQUIUM

Białystok - Augustów - Vilnius, 9-12 October 2011

**Ladies and Gentlemen,**

Warmly welcome you on behalf of the organizers and I am glad that so many of us can meet in Augustów during **“The XXXV Science - Technical Conference on Construction Projects Engineering”**.

I sincerely greet the participants of **The 13th German - Lithuanian - Polish Colloquium**, which brings together scientists from Germany, Lithuania and Polish, and the meetings will be held in three sessions (parallel to the conference sessions) on Monday - 10 October.

The Conference on Construction Projects Engineering organized in 2011 by the Unit of Construction Processes Engineering of the Faculty of Civil and Environmental Engineering BTU continues the tradition of conferences made by units engaged in construction technology, organization and economics, which was initiated by Prof. Aleksander Dyżewski. At the same time it happens to be one of the celebration events of the **60th Anniversary of the Faculty of Civil and Environmental Engineering BTU**.

The goal of the Conference is the presentation of scientific achievements, exchange ideas, experiences and practical results, that refer to the subject of engineering construction projects (from the preparation stage of the investment process, through the stage of implementation, operation (repairs, upgrades) up to the stage of building demolition and recycling of materials and components received as a result thereof.

The conference is attended by university employees from home and abroad (among others: from Germany, Lithuania and Hungary), research institutes, designers, construction companies (among those committed with construction of Olympic venues, including stadium, PGE Arena Gdańsk), specialists in the management of the investment and construction (Project Manager) and manufacturers of building materials and products.

In addition to interesting sessions of the Conference a one-day trip to Vilnius (combined with city sightseeing) is provided as well as many other events such as: cruise on the Augustów lakes and Augustów Canal (landmark of water structures engineering).

Patronage over the conference is held by Construction Projects Engineering Section of the Committee of Civil Engineering of the Polish Academy of Sciences.

This conference is a joint venture of the Unit of Construction Processes Engineering of Civil and Environmental Engineering Faculty of Białystok Technical University and Białystok Branch of the Polish Association of Construction Engineers and Technicians.

Conference honorary patrons are : His Magnificence Rector of Białystok Technical University, Section of Construction Projects Engineering of the Committee on Civil Engineering and Hydroengineering of Polish Academy of Sciences, the Science Committee of the Polish Association of Civil Engineers and Technicians, Chairman of the Office of Technical Inspection, the Polish Association of Construction Engineers and Technicians, Podlaska District of Civil Engineers and the Mayor of Augustów.

At the conference were received **97** papers. The Scientific Committee to qualify for printing **69** papers.

Papers presented at the conference, companies adverts' and sponsored articles are published in no. **3rd** and **4th** of the "Civil and Environmental Engineering" journal. A CD was also prepared where you may find two numbers of aforesaid journal.

The interest in problems of engineering construction projects supported by the fact the Conference reported that more than 140th participants and that it was covered by a nationwide patronage monthly "Building Review" and the regional media.

We have introduced some organizational changes resulting from the need to coordinate with the previously set deadline of the Conference. The deliberations of some sessions will be conducted simultaneously in two halls.

Apart from the Conference main program a lot of cultural and entertainment events will be held. On the opening day of the conference Bialystok Technical University Choir conducted by prof. Violetta Miłkowska will perform in "Warsaw Hotel Spa & Resort".

A reception banquet will start in the evening (sponsored by PERI Poland, Main Sponsor of Conference).

On the second day of the conference we invite you to cruise the Augustow lakes, then we will meet at the "Feast of Engineers".

The third day of the conference also promises to be interesting - a trip to Vilnius, which will provide you with unforgettable memories.

I would like to thank the authors of the preparation papers, and to Professor Zygmunt Orłowski - Chairman, Mr. Doctor Edwin Koźniewski - Secretary, and Professors, Ladies and Gentlemen - members of the Scientific Committee for their evaluation and qualification.

I thank His Magnificence Rector of Bialystok Technical University, Section of Construction Projects Engineering of the Committee on Civil Engineering and Hydroengineering of Polish Academy of Sciences, the Science Committee of the Polish Association of Civil Engineers and Technicians, the Polish Association of Construction Engineers and Technicians for the patronage given to the Conference.

I offer sincere thanks to Mr. Marek Walczak - Chairman of the Office of Technical Inspection, to Professor Czesław Miedziałowski - Chairman of the Podlaska District of Civil Engineers and Mr. Kazimierz Kozuchowski - Mayor of Augustów for accepting the patronage of the Conference and the financial support for our activities.

Warmly thank you, Ms. Agnieszka Stachecka - Rodziewicz - Editor in Chief, "Review of Construction" for the preparation of our conference on the occasion of special issue - No. 10 monthly, and all media patrons for the promotion of our Conference.

I thank all institutions and businesses for financial support, preparing presentations and promotional exhibitions. I feel particularly obliged to PERI Poland - Main Sponsor of the Conference, as well as the companies: "CPJS - Centre for Promotion of Quality Steel", "GAZEX", "HARSCO INFRASTRUCTURE", "MAPEI Poland" and "UNIBEP SA" - Main Sponsors, thanks to which the financial assistance it was possible to organize cultural events and integration receptions enabling the creation of the unique atmosphere of our Conference and Colloquium.

I hope that the **"XXXV Science - Technical Conference Construction Projects Engineering"** and the **"13th German - Lithuanian - Polish Colloquium"** will meet the needs of participants and patronage institutions and will contribute to increasing the quality of the preparation, implementation and operation of the investment process, improve on-site health and safety and also reduce the number of accidents and construction disaster.

To all participants of the Conference and Colloquium I wish fruitful deliberations, satisfaction with the possibility of meeting and discussion among local government representatives, researchers and practitioners, engineers and construction technicians, friends, colleagues arrived at the Conference.

**I wish you a pleasant stay on this beautiful Augustow land!**

Nina Szklennik  
Chairwomen of the Organizing Committee

# XXXV SCIENTIFIC - TECHNICAL CONFERENCE

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Białystok - Augustów - Vilnius, 9-12 October 2011

The organizing committee is expressing its wholehearted thanks to institutions and companies listed below for the financial contribution and substantial aid with organizing the "XXXV Science - Technical Conference of Construction Projects Engineering" and „13 th Germanium – Lithuanian - Polish Colloquium ”.

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# XXXV SCIENTIFIC - TECHNICAL CONFERENCE

and

## 13th GERMAN – LITHUANIAN – POLISH COLLOQUIUM

Białystok - Augustów - Vilnius, 9-12 October 2011

### ORGANIZATIONAL INFORMATION

The conference will be held from 09.10.2011 until 12.10.2011, in "Warsaw Spa & Resort" hotel in Augustow.

The conference begins with dinner on 9 October and ends with lunch on 12 October. The organizers will provide accommodation from 09.10 to 12.10. (three days). The ceremonial opening of the conference on 9 October at. 2.30 p.m.

#### Directions:

- to Augustow - own transport, train or bus  
Organizers provide participants with the shuttle bus stop in Augustow and Augustow railway station to the "Warszawa Spa & Resort" hotel on 09/10/2011 **the after prior notification.**

The proposed access passenger cars - in accordance with the attached map of the (p. 12) Within the town of Augustow are placed a number of indicators showing the location "Warszawa Spa & Resort" hotel.  
Detail map shows the directions posted on page 12.

#### Accommodation:

Time of accommodation:

- from 12.00 p.m. on 09.10.2011 (on Sunday)
- to 12.00 p.m. on 12.10.2011 (on Wednesday).

**Warning:** For hours 12.00 p.m. on 12.10.2011 (on Wednesday)  
Conference participants are invited to check out at hotel reception!

Next to the hotel reception (in the lobby) will be open every day from the meeting of the Conference Bureau. At the "Warszawa Spa & Resort" hotel is paid, fenced and monitored parking lot for cars (5 Euro/day/car) and free parking not guarded.

**The conference fee** includes the cost: conference materials, accommodation, meals, evening events and tours planned in the program.

#### Organization of the meeting:

Venue will be conference rooms "WIGRY", "Necko" and "Rospuda" in the "Warszawa Spa & Resort" hotel.

The session will be led by Chairman of the session, and the conduct of the meeting will be recorded by the Secretaries.

Qualified to deliver papers, the **papers presented** in sessions **2, 4, 6** and **7**.

Sessions: **1, 3** and **5**, it copaper sessions, led by the Chairman of the session.

Time uttering the paper should not exceed **10 minutes**, and speaking time will be determined by discussion sessions Chairman.

**You are kindly requested to provide a presentation of papers to Conference Office - days prior to the occurrence.**

Available to the pronouncements of papers will be: multimedia projector and a computer with PowerPoint.

Applications for discussion should be provided to the Secretaries of the session provided during the meeting printed materials.

After the session, the discussion papers and authors are asked to formulate their statements in writing (on printed materials prepared by the organizers) and to provide them the Secretaries of the session or transfer to the Conference Office.

Possible changes in the program of the Conference will be announced during the meeting.

### **Training and tourist trips:**

It is expected two training trips Travel

- **cruise Augustow lakes** (including "lockage"):

ship "serves" comes from the harbor at the "Warszawa Spa & Resort" hotel on 10 October at 2.15 pm.

**in the program:** a cruise on Lake Necko, Lake White - the lock - Lake Studzieniczne.

Conference participants, who necessarily want to see "Rospuda Valley", that information should notify the organizers.

**Warning!** During the cruise you must reckon with the lowering of ambient temperature (this is already October!), so please supply the appropriate clothing.

- **trip to Vilnius on 11 October** onwards:

Departure at 6.00 a.m. returning at approx. 9.00 p.m.

**in the program:** visit the castle on an island in Trakai and Vilnius: Church of St. Peter and Paul, the Rossa cemetery and the Old Town (Gates of Dawn, St. Teresa, the church of St. Spirit and Orthodox monastery, church gate and Basilian, Philharmonic Hall, the church St. Casimir, Town Hall and Town Hall Square, the churches of St. Anne and St. Bernard, Castle Str. (Pilies), Vilnius University, the Presidential Palace, Cathedral Square).





# XXXV SCIENTIFIC - TECHNICAL CONFERENCE

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## 13th GERMAN – LITHUANIAN – POLISH COLLOQUIUM

Białystok - Augustów - Vilnius, 9-12 October 2011

### CONFERENCE AGENDA

<b>Sunday, 09.10.2011</b>	
<b>Lunch</b> Restaurant in „Warsaw Spa & Resort” hotel	<b>1.00 p.m. - 2.15 p.m.</b>
<b>Conference opening</b> „WIGRY” room	<b>2.30 p.m. - 3.15 p.m.</b>
<b>Break</b>	<b>3.15 p.m. - 3.30 p.m.</b>
<b>Plenary session</b> „WIGRY” room	<b>3.30 p.m. - 5.00 p.m.</b>
<b>Break</b>	<b>5.00 p.m. - 5.30 p.m.</b>
<b>Welcome Party</b> <b>Sponsored by PERI POLSKA</b> <b>- Conference General Sponsor</b> „WIGRY” room	<b>5.30 p.m. - 2.00 a.m.</b>

<b>Monday, 10.10.2011</b>		
<b>Breakfast</b> Restaurant in „Warsaw Spa & Resort” hotel		<b>7.30 a.m. - 8.15 a.m.</b>
<b>Session 1</b> „WIGRY” room	<b>Colloquium part 1</b> „ROSPUDA” room	<b>8.30 a.m. - 10.30 a.m.</b>
<b>Break</b>		<b>10.30 a.m. - 11.00 a.m.</b>
<b>Session 2</b> „WIGRY” room	<b>Colloquium part 2</b> „ROSPUDA” room	<b>11.00 a.m. - 1.00 p.m.</b>
<b>Lunch</b> Restaurant in „Warsaw Spa & Resort” hotel		<b>1.15 p.m. - 2.00 p.m.</b>
<b>Boat cruise</b>		<b>2.15 p.m. - 4.15 p.m.</b>
<b>Session 3</b> „NECKO” room	<b>Session 4</b> „WIGRY” room	<b>Colloquium part 3</b> „ROSPUDA” room
<b>Engineers’ Banquet</b> Restaurant in „Warsaw Spa & Resort” hotel		<b>7.00 p.m. - 12.00 a.m.</b>

<b>Tuesday, 11.10.2011</b>	
<b>Breakfast</b> Restaurant in „Warsaw Spa & Resort“ hotel	<b>time to agree or provisions for excursion</b>
<b>Excursion to Vilius</b>	<b>6.00 a.m. - 9.00 p.m.</b>
<b>Supper</b> Restaurant in „Warsaw Spa & Resort“ hotel	<b>9.00 p.m.</b>

<b>Wednesday, 12.10.2011</b>	
<b>Breakfast</b> Restaurant in „Warsaw Spa & Resort“ hotel	<b>7.30 a.m. - 8.15 a.m.</b>
<b>Session 5</b> „WIGRY“ room	<b>Session 6</b> „NECKO“ room
	<b>8.30 a.m. - 10.00 a.m.</b>
<b>Break</b>	<b>10.00 a.m. - 10.30 a.m.</b>
<b>Session 7</b> „WIGRY“ room	<b>10.30 a.m. - 12.00 p.m.</b>
<b>Closing session</b> „WIGRY“ room	<b>12.00 p.m. - 12.30 p.m.</b>
<b>Lunch</b> Restaurant in „Warsaw Spa & Resort“ hotel	<b>1.00 p.m. - 2.00 p.m.</b>

# XXXV SCIENTIFIC - TECHNICAL CONFERENCE

and

## 13th GERMAN – LITHUANIAN – POLISH COLLOQUIUM

Białystok - Augustów - Vilnius, 9-12 October 2011

<b>09 October 2011, Sunday</b>	
<b>12.00 p.m.</b>	<b>ARRIVAL OF CONFERENCE PARTICIPANTS</b> Conference Office - " <b>WARSAW SPA &amp; Resort</b> " Hotel
<b>1.00 p.m. – 2.15 p.m.</b>	<b>Lunch</b>
<b>2.30 p.m. – 3.15 p.m.</b>	<b>CONFERENCE OPENING</b>
<b>3.15 p.m. – 3.30 p.m.</b>	<b>Break</b>
<b>3.30 p.m. – 5.00 p.m.</b>	<b>PLENARY SESSION</b>

**Chairman:** PROF. OLEG KAPLIŃSKI, DR. H.C.  
**Secretary:** ASSOC. PROF. EDWIN KOŹNIEWSKI

### PAPERS:

**1. JÓZEFA WIATER**

60th Anniversary of The Faculty of Civil and Environmental Engineering in Białystok Technical University

**2. OLEG KAPLIŃSKI**

Problems of construction engineering projects in the light of the survey of Civil Engineering Committee Section of the Polish Academy of Sciences

**3. ROMUALDAS GINEVIČIUS**

13th GERMAN – LITHUANIAN – POLISH COLLOQUIUM: achievements and prospects of international cooperation

**4. HENRYK WNOROWSKI, PROF. DR HAB., UNIVERSITY OF BIAŁYSTOK**

Financing of housing industry and genesis of the world financial crisis in 2008

**5. JAN MIKOŁUSZKO - PRESIDENT OF THE BOARD UNIBEP SA, GENERAL DIRECTOR**

But you can! - export of a Polish building based on Unibep's experience abroad

<b>5.00 p.m. – 5.30 p.m.</b>	<b>Break</b>
<b>5.30 p.m. – 02.00 a.m.</b>	<b>Welcome Party Sponsored by PERI POLSKA</b> <b>– Conference General Sponsor</b> „WIGRY” room

**XXXV SCIENTIFIC - TECHNICAL CONFERENCE**  
and  
**13th GERMAN – LITHUANIAN – POLISH COLLOQUIUM**  
Białystok - Augustów - Vilnius, 9-12 October 2011

**10 October 2011, Monday**

**07.30 a.m. – 08.15 a.m. Breakfast**

**08.30 a.m. – 10.30 a.m.**

**SESSION 1**

**PREPARATIONS FOR CONSTRUCTION PROJECTS (PART 1)**

**COPAPER: ASSOC. PROF. MIECZYŚLAW POŁOŃSKI**

**Chairman: ASSOC. PROF. ROMAN MARCINKOWSKI**  
**Secretary: MAŁGORZATA LELUSZ, PH. D.**

**PAPERS:**

**1. BIRUK SŁAWOMIR, JAŚKOWSKI PIOTR**

Assessing efficiency of latin supercube sampling method in construction projects' network simulation

**2. CZEMPLIK ANDRZEJ, IRZYK MICHAŁ**

Feasibility evaluation of construction methods specified in design documentation

**3. CHMIELEWSKI KRZYSZTOF (GAZEX Sp. z o.o., Warszawa)**

Principles of fixed gas detection systems

**4. DYTCHAK MIROSŁAW, GINDA GRZEGORZ, GOTOWAŁA BEATA, SZKLENNIK NINA**

Application potential of Dematel and its extensions for analysis of decision problems in civil engineering

**5. KOZAK ANDRZEJ**

Risk analysis in industrial facilities

**6. KRZEMIŃSKI MICHAŁ, NOWAK PAWEŁ**

Johnson Algorithm cost modification for scheduling of construction projects

**7. KULEJEWSKI JANUSZ, IBADOV NABI, ZIELIŃSKI BOGDAN**

Application of fuzzy set theory to schedule construction works by the critical chain method

**8. ORŁOWSKI ZYGMUNT, SZKLENNIK NINA**

Scope of modernization of building – as a result of diagnostic analysis of facility

**9. OSTAŃSKA ANNA**

Assessing the possibilities of improving living conditions in prefabricated housing: the residents' point of view

- 10. POGAN KRZYSZTOF** (Mapei Polska Sp. z o. o., Warszawa)  
Renovation historical buildings by applying cement-free special mortars
- 11. POŁOŃSKI MIECZYŚLAW**  
Algorithm for optimal equalization employment diagram with graph network
- 12. PRUSZYŃSKI KAMIL**  
Buffers consumption monitoring concept of time in the schedule construction
- 13. TOMANA ANDRZEJ**  
Integration of designing and cost estimating on BIM platform
- 14. WIRKUS MAREK, TRYKOSKO RYSZARD**  
Construction projects properly preparing the main factor of achievements of it success

**10.30 a.m. – 11.00 a.m. Break**

**11.00 a.m. – 13.00 p.m.**

**SESSION 2**

**PREPARATIONS FOR CONSTRUCTION PROJECTS (PART 2)**

**Chairman:** ASSOC. PROF. ANNA SOBOTKA  
**Secretary:** DOROTA MAŁASZKIEWICZ, PH. D.

**PAPERS:**

- 1. BOKOR ORSOLYA, KOCSIS TAMÁS, SZENIK GABRIELLA**  
New tools in project scheduling. Challenges of the construction project planning
- 2. DYTCHAK MIROSŁAW, PRZYBYŁO WACŁAW**  
Dematel-based multi-criteria evaluation of public transportation system alternatives for Cracow
- 3. GAJZLER MARCIN**  
The issue of choosing a location with the use of data mining techniques
- 4. HSINO MAHMOUD, PASŁAWSKI JERZY**  
Introduction of flexibility in the quality management system based on concreting ex ample
- 5. JAROS HENRYK**  
Location of the main emitters of pollutants in the urban planning arrangement of the city of Białystok, Ostrołęka and Elk and their influence on surrounding areas
- 6. KARBOWNIK PIOTR (CEMEX Polska Sp. z o.o., Rudniki)**  
CEMEX Special Products - New technologies, new opportunities
- 7. SZENIK GABRIELLA, HAJDU MIKLÓS, BOKOR ORSOLYA**  
New possibilities in visualization of project plans
- 8. SZCZEPAŃSKI TOMASZ (MC-Bauchemie Sp. z o. o., Warszawa)**  
Modern technologies of repair and protection for the construction of the water management

<b>1.00 p.m. – 2.15 p.m.</b>	<b>Lunch</b>
<b>2.15 p.m. – 4.15 p.m.</b>	<b>Boat cruise</b>
<b>4.30 p.m. – 6.30 p.m.</b>	<p align="center"><b>SESSION 3</b></p> <p align="center"><b>ENGINEERING OF BUILDING MATERIALS</b></p> <p align="center"><b>COPAPER: PROF. JANUSZ SZWABOWSKI</b></p>

**Chairman:** ASSOC. PROF. ZYGMUNT ORŁOWSKI  
**Secretary:** EDYTA PAWLUCZUK, PH. D.

**PAPERS:**

- 1. DWORZAŃCZYK - KRZYWIEC DOROTA**  
The influence of recycled aggregate content upon selected concrete properties
- 2. EZERSKIY VALERIY, LELUSZ MAŁGORZATA**  
Kinetics of hydration process of cement composites with fly ash addition
- 3. GOŁASZEWSKI JACEK, CYGAN GRZEGORZ**  
Influence of the vma admixtures on early shrinkage of the cement mortars
- 4. GOŁASZEWSKI JACEK, DREWNIOK MICHAŁ**  
The effect of the calcareous fly ashes on the efficiency of air entraining additives
- 5. GOŁASZEWSKI JACEK, KOSTRZANOWSKA ALEKSANDRA**  
Rheological properties and a content of air entrained in fresh concrete for self compacting high performance concrete
- 6. GOŁASZEWSKI JACEK, PONIKIEWSKI TOMASZ**  
The influence of high calcium fly ash and fibres on chosen characteristic of self-compacting concrete
- 7. KORONA LUCYNA**  
Innovative technology of lost framework
- 8. KSIT BARBARA, JASICZAK JÓZEF, KOTLARZ RAFAŁ**  
Calculating beam-ceilings according to Polish Standards and Eurocodes difference analysis on specific examples
- 9. MAŁASZKIEWICZ DOROTA, JURGUĆ ANETA**  
The influence of cement type and curing conditions on mortars adhesion to concrete base
- 10. NICAŁ ALEKSANDER KAZIMIERZ, GRABOWSKI MARCIN**  
Checking the accuracy of parameters of the pre-tensioned HC slabs production process with reference to chance variations
- 11. PAWLUCZUK EDYTA**  
Shaping of interfacial transition zone between aggregate and cement paste in recycled concrete

**12. SADOWSKA - BURACZEWSKA BARBARA**

New concretes of strengthening of compressive zone in flexural beams

**13. WOYCIECHOWSKI PIOTR, HARAT KONRAD**

Roller-compacted concrete as a pavement of roads of traffic load category KR1-KR2

**14. WRÓBLEWSKI BOGDAN, BOROWY ANDRZEJ**

New fire resistance classifications of suspended ceilings made of gypsum plasterboards

**4.30 p.m. – 6.30 p.m.**

**SESSION 4**

**DIAGNOSIS AND MODERNIZATION OF BUILDINGS**

**Chairman:**

**PROF. LEONAS USTINOVICIUS**

**Secretary:**

**ENG. NINA SZKLENNIK, M.SC.**

**PAPERS:**

**1. KRENTOWSKI JANUSZ, SZELĄG ROMUALD, TRIBIŁŁO ROŚCISŁAW**

The concept, methodology and the realization of specialist remedial work of the municipal swimming pool in the emergency state

**2. KRENTOWSKI JANUSZ, SZELĄG ROMUALD, TRIBIŁŁO ROŚCISŁAW**

Reinforcements design and revaluation of the antique shell-rib brick vaults

**3. LISOWSKA MAGDALENA** (CPJS – Centrum Promocji Jakości Stali Sp. z o.o., Warszawa)

Reinforcing steel with high ductility with EPSTAL quality mark - properties and applications

**4. MALESZA MIKOŁAJ, MIEDZIAŁOWSKI CZESŁAW, MALESZA JAROSŁAW**

Buildings in the light wood-framed technology formation and construction

**5. PASTERNAK HARTMUT**

Sustainable Restoration of the Roof of a Large Indoor Pool

**6. SYCZEWSKI MIKOŁAJ**

Conversion of reinforced structure of the graphic factory building to modernized technological process

**7. SYCZEWSKI MIKOŁAJ**

Exploitation technical problems in old multi-family buildings after modernization of its roofs

**7.00 p.m. – 12.00 a.m.**

**Engineers' Banquet**

(Restaurant of "Warszawa Spa & Resort" Hotel)

**XXXV** SCIENTIFIC - TECHNICAL CONFERENCE  
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**13th GERMAN – LITHUANIAN – POLISH COLLOQUIUM**  
Białystok - Augustów - Vilnius, 9-12 October 2011

<b>11 October 2011, Tuesday</b>	
<b>Breakfast (time to agree or provisions for excursion)</b> Restaurant in „Warsaw Spa & Resort” hotel	
<b>6.00 a.m. – ca 9.00 p.m. Excursion to Vilnius</b>	
<b>ca 9.00 p.m.</b>	<b>Supper</b> Restaurant in „Warsaw Spa & Resort” hotel

**XXXV SCIENTIFIC - TECHNICAL CONFERENCE**  
and  
**13th GERMAN – LITHUANIAN – POLISH COLLOQUIUM**  
Białystok - Augustów - Vilnius, 9-12 October 2011

**12 October 2011, Wednesday**

**07.30 a.m. – 08.15 a.m. Breakfast**

**08.30 a.m. – 10.00 a.m. SESSION 5**

**PROBLEMS IN REALIZATION OF CONSTRUCTION PROJECTS**

**COPAPER: ASSOC. PROF. ANNA SOBOTKA**

**Chairman: ASSOC. PROF. JERZY PASŁAWSKI**  
**Secretary: AGNIESZKA JABŁOŃSKA - KRYSIEWICZ, PH. D.**

**PAPERS:**

- 1. BERDYCHOWSKA EWA, GAWRON KRZYSZTOF, HOŁA BOŻENA**  
Management of hotels real estate in the town of Wrocław in context of preparations of hotels base for the European Football Championships EURO 2012
- 2. DYTCHAK MIROSLAW, GINDA GRZEGORZ, WOJTKIEWICZ TOMASZ**  
Identification of factors which influence delays during realisation of complex construction projects
- 3. GOŁASZEWSKI JACEK, STOLARCZYK DAWID**  
Responsibilities of participants of the building-investment process on the example of Spain and Polish
- 4. HARASYMIUK JOLANTA, KOWALCZYK ZDZISŁAW**  
Environmental requirements in the preparation of construction works
- 5. JAŚKOWSKI PIOTR, BIRUK SŁAWOMIR**  
Evaluating surrogate measures of construction project schedule robustness
- 6. KOCSIS TAMÁS, HAJDU MIKLÓS, BOKOR ORSOLYA**  
Challenges of the Construction Industry of Transition Countries
- 7. KOŹNIEWSKI EDWIN, ORŁOWSKI MARCIN**  
Areas of optimum range of ready-mixed concrete plants
- 8. KSIĄŻEK MARIOLA**  
Use of the multicriteria methods for assessment of investment in decision-making process
- 9. KULEJEWSKI JANUSZ, ZAWISTOWSKI JACEK**  
Time buffer size simulation stabilizing construction schedules

**10. MINASOWICZ ANDRZEJ, KOSTRZEWA BARTOSZ**

The time-cost analysis of the construction project, based on fuzzy sets

**11. OBOLEWICZ JERZY**

The opinion of state of safety and the protection of health in building enterprises

**12. RUTKOWSKI MICHAŁ, SKARZYŃSKI ANDRZEJ**

Issues of the realisation of shopping and entertainment centres on the example of the Galeria Malta in Poznan

**13. SOBOTKA ANNA, JASIAK PAWEŁ**

Consider the risks in the assessment of the time in offer for historic building revitalization

**14. SOBOTKA ANNA, WAŁACH DANIEL**

Supply chain management in construction projects delivery

**08.30 a.m. – 10.00 a.m.**

**SESSION 6**

**REALIZATION OF CONSTRUCTION PROJESTS AND SAFETY  
AND HEALTH PROTECTION IN CONSTRUCTION**

**Chairman:**

**ASSOC. PROF. BOŻENA HOŁA**

**Secretary:**

**JERZY OBOLEWICZ, PH. D.**

**PAPERS:**

**SAFETY AND HEALTH PROTECTION IN CONSTRUCTION**

**1. MORKA MACIEJ**

Factors affecting the condition of the job safety on the construction site

**2. OBOLEWICZ JERZY**

Use of EFQM model in management the safety and the protection of health in building

**REALIZATION OF CONSTRUCTION PROJESTS**

**3. DRZEWIECKA JOANNA, PASŁAWSKI JERZY**

Interference analysis of construction processes

**4. JABŁOŃSKA - KRYSIEWICZ AGNIESZKA, KRYSIEWICZ MAREK**

Problems in designing and rebuilding of bridges and culverts

**5. MARCINKOWSKI ROMAN, KOPER ARTUR**

Planning group of machines to provide continuity concreting of monolith structures

**6. WIRKUS MAREK, WĘSIERSKI TADEUSZ, CHMIELARZ ANNA**

Waste of machiniery at the construction site

**10.00 a.m. – 10.30 a.m. Break**

**10.30 a.m. – 12.00 p.m.**

**SESSION 7**

**MANAGING THE INVESTMENT PROCESS**

**Chairman: PROF. WITOLD A. WERNER**  
**Secretary: HENRYK JAROS, PH. D.**

**PAPERS:**

**1. KACZMAREK BOGUSŁAW**

Formulating a policy and strategy for ecological development of the enterprise - a sketch of the problem

**2. KOZIK RENATA, STARZYK ELŻBIETA**

Influence of global economic crisis on public construction orders in Poland

**3. LEŚNIAK AGNIESZKA, PLEBANKIEWICZ EDYTA**

Selection of management company in construction public sector investments

**4. MESZEK WIESŁAW, DZIADOSZ AGNIESZKA**

The influence of inefficiency of property market on the accuracy of description of property value using statistical models of multiple regression

**5. STRZELECKA ELŻBIETA**

Urban revitalization in the context of sustainable development

**6. WIRKUS MAREK, TRZCIŃSKI ROMAN**

Efficient management of claims in civil engineering

**12.00 p.m. – 12.30 p.m.**

**CLOSING SESSION**

**1.00 p.m. – 2.00 p.m.**

**Lunch**

**DEPARTURE OF CONFERENCE PARTICIPANTS**

# 13<sup>th</sup> GERMAN – LITHUANIAN – POLISH COLLOQUIUM

Białystok - Augustów - Vilnius, 9-12 October 2011

**10 October 2011, Monday**

**08.30 a.m. – 10.30 a.m. COLLOQUIUM – PART 1**

**Chairman: PROF. FRIEDEL PELDSCHUS, DR. H.C.**

**PAPERS:**

- 1. IGNATAVIČIUS ČESLOVAS, VILUTIENĖ TATJANA, USTINOVIČIUS LEONAS, SIMANAVIČIENĖ RUTA, VITKAUSKAITĖ LINA**  
Selection model of the rational modernization measures: case of art school modernization in Birštonas city
- 2. KAPLIŃSKI OLEG, PELDSCHUS FRIEDEL**  
Socio-economic systems: a school of Professor Romualdas Ginevičius
- 3. RASLANAS SAULIUS, ALCHIMOVIEŅĖ JURGITA**  
The evaluation of sustainable renovation of apartment houses in urban neighbourhoods
- 4. RASLANAS SAULIUS, STASIUKYNAS ANDRIUS**  
Principles, causes and trends in sustainable real estate development
- 5. SIMANAVIČIENĖ RUTA, LIAUDANSKIENE RITA, USTINOVIČIUS LEONAS**  
Structural, technological and safety solution coherence model applying multi-attribute decision making methods

**10 October 2011, Monday**

**11.00 a.m. – 1.00 p.m. COLLOQUIUM - PART 2**

**Chairman: PROF. OLEG KAPLIŃSKI, DR. H.C.**

**PAPERS:**

- 1. KAKLAUSKAS ARTŪRAS, ZAVADSKAS EDMUNDAS K., SENIUT MARK**  
An information retrieval method and an information retrieval system
- 2. KRACKA MODESTAS, BRAUERS WILLEM K. M., ZAVADSKAS EDMUNDAS K.**  
Renovated building elements effective selection by applying multiple- criteria methods

**3. TAMOŠAITIENĖ JOLANTA, ZAVADSKAS EDMUNDAS K., TURSKIS ZENONAS**

Multi-criteria assessment method for construction price assessment

**4. USTINOVIČIUS LEONAS, RASIULIS ROMAS, IGNATAVIČIUS ČESLOVAS, VILUTIENĖ TATJANA**

Analysis of roof parking lot damp-course failures and technology improvement

**5. VILUTIENĖ TATJANA, ZAVADSKAS EDMUNDAS K.**

The first year achievements of ORSDCE - The OR in Sustainable Development and Civil Engineering Working Group of EURO and insights of future activities

**10 October 2011, Monday**

**4.30 p.m. – 6.30 p.m. COLLOQUIUM - PART 3**

**Chairman: PROF. MIROŚLAW DYT CZAK**

**PAPERS:**

**1. DYT CZAK MIROŚLAW, GINDA GRZEGORZ**

Searching for Pareto solution in the case of numerous decision alternatives

**2. GINDA GRZEGORZ**

Multi-attribute identification of construction project scheduling structures (represented by network graphs)

**3. TAMOŠAITIENĖ JOLANTA, PELDSCHUS FRIEDEL**

Numerical studies of multi-criteria decisions

**4. THIEL TOMASZ**

Final result analysis using Electre III method in case of a large number of variants

## NOTES

## NOTES