



CLC 2017

CONGRESS PROGRAMME

Carpathian Logistics Congress

June 28th - 30th 2017 ALEXANDRA WELLNESS HOTEL, Liptovsky Jan, Slovakia, EU





GLOBAL LOGISTICS
FOR MANUFACTURERS

sk.gefco.net



www.chemosvitfolie.sk

HONORARY CHAIRMEN

Prof. Lech BUKOWSKI, D.Sc., Ph.D.

The University of Dabrowa Górnicza, Dabrowa Górnicza, Poland, EU

Dr.h.c. Prof. Ing. Dusan MALINDZAK, CSc.

Technical University of Kosice, Kosice, Slovakia, EU

SCIENTIFIC COMMITTEE

Assoc. Prof. Jerzy FELIKS, D.Sc., Ph.D.

AGH University of Science and Technology, Cracow, Poland, EU

Prof. Ing. Radim LENORT, Ph.D.

VSB - Technical University of Ostrava, Czech Republic, EU

Assoc. Prof. Ing. Martin STRAKA, Ph.D.

Technical University of Kosice, Kosice, Slovakia, EU

PROGRAM COMMITTEE

Dr.h.c. Prof. Ing. Dusan MALINDZAK, CSc.

Technical University of Kosice, Kosice, Slovakia, EU

Assoc. Prof. Ing. Martin STRAKA, Ph.D.

Technical University of Kosice, Kosice, Slovakia, EU

Assoc. Prof. Ing. Andrea ROSOVA, Ph.D.

Technical University of Kosice, Kosice, Slovakia, EU

Assoc. Prof. Ing. Marcela MALINDZAKOVA, Ph.D.

Technical University of Kosice, Kosice, Slovakia, EU

Ing. Peter KAČMÁRY, Ph.D.

Technical University of Košice, F BERG, Košice, Slovakia, EU

Assoc. Prof. Ing. Peter BINDZÁR, Ph.D.

Technical University of Košice, F BERG, Košice, Slovakia, EU

Ing. Michal BUŠA

Technical University of Košice, F BERG, Košice, Slovakia, EU

Ing. Maroš FILL

Technical University of Košice, F BERG, Košice, Slovakia, EU

Assoc. Prof. Jerzy FELIKS, D.Sc., Ph.D.

AGH University of Science and Technology, Cracow, Poland, EU

Prof. Ing. Radim LENORT, Ph.D.

VSB - Technical University of Ostrava, Czech Republic, EU

Assoc. Prof. Ing. Iveta VOZNAKOVA, Ph.D.

VSB - Technical University of Ostrava, Czech Republic, EU

Antónia KLEINOVÁ

Technical University of Košice, F BERG, Košice, Slovakia, EU

Peter KIŠIDAY

Technical University of Košice, F BERG, Košice, Slovakia, EU

ORGANIZERS



PARTNERS



www.tanger.cz



www.ssaki.eu



ZVÄZ SLOVENSKÝCH
VEDECKOTECHNICKÝCH
SPOLOČNOSTÍ

www.zsvts.sk

Prof. Tomasz AMBROZIAK, D.Sc., Ph.D. Warsaw University of Technology, Warsaw, Poland, EU

Sebastian BAKALARCZYK, Ph.D. Lodz University of Technology, Lodz, Poland, EU

Assoc. Prof. Ing. Michal BALOG, CSc. Technical University of Kosice, Kosice, Slovakia, EU

Prof. Ryszard BARCIK, D.Sc., Ph.D. University of Bielsko-Biala, Bielsko Biala, Poland, EU

Assoc. Prof. Ing. Petr BESTA, Ph.D. VSB - Technical University of Ostrava, Czech Republic, EU

Prof. Uwe BRACHT Clausthal University of Technology, Clausthal-Zellerfeld, Germany, EU

Assoc. Prof. Ing. Lenka BRANSKÁ, Ph.D. University of Pardubice, Pardubice, Czech Republic, EU

Prof. Andrzej BUJAK, D.Sc., Ph.D. WSB School of Banking, Wrocław, Poland, EU

Assoc. Prof. Dorota BURCHART-KOROL, Ph.D. Central Mining Institute, Katowice, Poland, EU

Assoc. Prof. Mgr. Dagmar CAGANOVA, Ph.D. Slovak University of Technology in Bratislava, Trnava, Slovakia, EU

Prof. Ing. Miloš CAMBAL, Ph.D. Slovak University of Technology in Bratislava, Trnava, Slovakia, EU

Prof. Ing. Michal CEHLÁR, Ph.D. Technical University of Košice, Košice, Slovakia, EU

Assoc. Prof. Ing. Pavel CENIGA, CSc. Zilina University, Zilina, Slovakia, EU

Assoc. Prof. Ing. Zdeněk CUJAN, CSc. College of Logistics, Prerov, Czech Republic, EU

Prof. Ing. Alena DANKOVA, CSc. Catholic University in Ružomberok, Ružomberok, Slovakia, EU

Prof. Ing. Gabriel FEDORKO, Ph.D. Technical University of Kosice, Kosice, Slovakia, EU

Janusz FIJALKOWSKI, Ph.D. Warsaw University of Technology, Warsaw, Poland, EU

Assoc. Prof. Andrzej GAZDA, Ph.D. Rzeszow University of Technology, Rzeszow, Poland, EU

Prof. Ing. Ivan GROS, CSc. College of Logistics, Prerov, Czech Republic, EU

Prof. Marianna JACYNA, D.Sc., Ph.D. Warsaw University of Technology, Warsaw, Poland, EU

Prof. Jerzy JAZWINSKI, D.Sc., Ph.D. Air Force Institute of Technology, Warsaw, Poland, EU

Prof. Zofia JOZWIAK, D.Sc., Ph.D. Maritime University, Szczecin, Poland, EU

Assoc. Prof. Ing. Rudolf KAMPF, Ph.D. The Institute of Technology and Business in České Budějovice, Czech Republic, EU

Marek KARKULA DSc, PhD AGH University of Science and Technology, Cracow, Poland, EU

Assoc. Prof. Ing. Samer KHOURI, Ph.D. Technical University of Košice, Košice, Slovakia, EU

Prof. Danuta KISPERSKA-MORON, D.Sc., Ph.D. University of Economics in Katowice, Katowice, Poland, EU

Prof. Barbara KOS, D.Sc., Ph.D. University of Economics in Katowice, Katowice, Poland, EU

Prof. Ing. Emilie KRAUSOVA, CSc. VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU

Prof. Stanisław KRAWCZYK, D.Sc., Ph.D. Wrocław University of Technology, Wrocław, Poland, EU

Prof. Piotr ŁEBKOWSKI, D.Sc., Ph.D. AGH University of Science and Technology, Cracow, Poland, EU

Prof. Jerzy LEWITOWICZ, D.Sc., Ph.D. Air Force Institute of Technology, Warsaw, Poland, EU

Prof. Ing. Hana LOSTAKOVA, CSc. University of Pardubice, Pardubice, Czech Republic, EU

Assoc. Prof. Ing. Pavla MACUROVA, CSc. VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU

Assoc. Prof. Ing. Helena MAKYSOVA, Ph.D. Slovak University of Technology in Bratislava, Trnava, Slovakia, EU

Assoc. Prof. Ing. Marcela MALINDZAKOVA, Ph.D. Technical University of Košice, Košice, Slovakia, EU

Prof. Ing. Daniela MARASOVA, CSc. Technical University of Kosice, Kosice, Slovakia, EU

Prof. Edward MICHLOWICZ, D.Sc., Ph.D. AGH University of Science and Technology, Cracow, Poland, EU

Assoc. Prof. Ing. Vierošlav MOLNAR, Ph.D. Technical University of Kosice, Kosice, Slovakia, EU

Prof. Bernd NOCHE University of Duisburg-Essen, Essen, Germany, EU

Prof. Tomasz NOWAKOWSKI, D.Sc., Ph.D. Wrocław University of Technology, Wrocław, Poland, EU

Prof. Maria NOWICKA-SKOWRON, DSc., Ph.D. Częstochowa University of Technology, Częstochowa, Poland, EU

Józef OKULEWICZ, Ph.D. Warsaw University of Technology, Warsaw, Poland, EU

Tadeusz OLEJARZ, Ph.D. Rzeszów University of Technology, Rzeszów, Poland, EU

Prof. Andrzej PACANA, Ph.D. Rzeszów University of Technology, Rzeszów, Poland, EU

Ing. Michal PATÁK, Ph.D. University of Pardubice, Pardubice, Czech Republic, EU

Przemysław POMYKALSKI, Ph.D. Łódź University of Technology, Łódź, Poland, EU

Assoc. Prof. Ing. Andrea ROSOVA, Ph.D. Technical University of Kosice, Kosice, Slovakia, EU

Prof. Anna SANIUK, Ph.D. University of Zielona Góra, Zielona Góra, Poland, EU

Prof. Sebastian SANIUK, D.Sc., Ph.D. University of Zielona Góra, Zielona Góra, Poland, EU

Prof. Tadeusz SAWIK, D.Sc., Ph.D. AGH University of Science and Technology, Cracow, Poland, EU

Dr.h.c. Prof. Ing. Juraj SINAY, CSc. Technical University of Košice, Košice, Slovakia, EU

Prof. Zbigniew SMALKO, D.Sc., Ph.D. Air Force Institute of Technology, Warsaw, Poland, EU

Prof. Dieter SPECHT Brandenburg University of Technology, Cottbus - Senftenberg, Germany, EU

David STAŠ, Ph.D. ŠKODA AUTO University, Mladá Boleslav, Czech Republic, EU

Prof. Ing. DrSc. Vladimír STRAKOS College of Logistics, Prerov, Czech Republic, EU

Johannes TEODOROWICZ CTL Duisburg, Germany, EU

Assoc. Prof. Ing. Iveta VOZNAKOVA, Ph.D. VSB - Technical University of Ostrava, Czech Republic, EU

Prof. Wiesław WASZKIELEWICZ, D.Sc., Ph.D. AGH University of Science and Technology, Cracow, Poland, EU

Ing. Pavel WICHER, Ph.D. VSB - Technical University of Ostrava, Czech Republic, EU

Prof. Krzysztof WITKOWSKI, D.Sc., Ph.D. University of Zielona Góra, Zielona Góra, Poland, EU

Prof. Jacek ZAK, D.Sc., Ph.D. Poznań University of Technology, Poznań, Poland, EU

Dominik ZIMON, Ph.D. Rzeszów University of Technology, Rzeszów, Poland, EU

Prof. Józef ZUREK, D.Sc., Ph.D. Air Force Institute of Technology, Warsaw, Poland, EU

CONFERENCE SCHEDULE

Time	Jun 27 th	Jun 28 th	Jun 29 th	Jun 30 th
8:00			BREAKFAST	BREAKFAST
9:00		REGISTRATION OF PARTICIPANTS	STICKING POSTERS 8:30 - 9:00	FREE OUTDOOR ACTIVITIES
10:00		CONGRESS OPENING PLENARY SESSION (Congress Hall)	POSTER SESSION (Congress Hall)	
11:00			WORKSHOP (Alexandra hotel*** library)	
12:00			COFFEE BREAK	
13:00		LUNCH 12:00 - 14:00	POSTER SESSION AWARD	
14:00		SESSION A, B (Congress Hall 1)	LUNCH 12:00 - 14:00	
15:00		SESSION C, D (Congress Hall 2)		
16:00		COFFEE BREAK	OUTDOOR ACTIVITIES	
17:00		SESSION A, B (Congress Hall 1)		
18:00	REGISTRATION OF PARTICIPANTS	SESSION C, D (Congress Hall 2)		
19:00		BREAK	BREAK	
20:00	CARPET EVENING INVITATION PARTY (dress code: casual) congr. Ap / bowl. Room	SOCIAL EVENING - Slovak Raut (Liptov) (dress code: Formal) Alexandra hotel*** restaurant	DINNER	
21:00			FOOTBALL PARTY WITH BEER Central European Championship of Logicians in Small Football Alexandra hotel*** sport ground / gymnasium Football award - Beer party (dress code: casual)	ADDITIONAL INFORMATION: Wellness, pool: max. 3 hours per day, opening 9:00 - 21:00, Wednesday 13:00 - 21:00 Accommodation cancel until 10:00

-  CONGRESS HALL
-   CONGRESS HALL 1
-   CONGRESS HALL 2
-  LIBRARY

TUESDAY 27TH JUNE

17:00 - 20:00	REGISTRATION OF PARTICIPANTS	RECEPTION OF ALEXANDRA HOTEL ***
20:00 - 22:00	CARPET EVENING INVITATION PARTY (dress code: CASUAL)	CONGRESS MANAGEMENT APARTMENT OF CLC 2017 / BOWLING ROOM

WEDNESDAY 28TH JUNE

10:00	CONGRESS OPENING CEREMONY
10:15	- opening of the congress - dean of the BERG faculty - guests

12:00 - 14:00 LUNCH

SESSION A HALL: CONGRESS HALL 1

Chairladies: **Andrea Rosová, Anna Saniuk**
Strategic Logistics, Supply Chain and Networks

SESSION B HALL: CONGRESS HALL 1

Chairladies: **Andrea Rosová, Anna Saniuk**
Production Logistics, Commercial Logistics, Quality Management System, Risk Management

14:00	A1	Possibilities of the CPFR Implementation between Food Companies and Their Suppliers BRANSKÁ Lenka, PATAK Michal, PECINOVA Zuzana University of Pardubice, Pardubice, Czech Republic, EU
14:15	B1	Demand Forecasting of Over-Promoted FMCG Products in a Manufacturing Company PATÁK Michal, PECINOVÁ Zuzana, BRANSKÁ Lenka University of Pardubice, Pardubice, Czech Republic, EU

10:15 - 11:30	PLENARY SESSION CONGRESS HALL Chairmen: Dušan Malindžák, Jerzy Feliks
---------------------	--

10:15 PS1 25"	Selected Innovative Solutions in Supply Chain Management WITKOWSKI Krzysztof University of Zielona Gora, Zielona Góra, Poland, EU
10:40 PS2 25"	Design of a Dynamic Model of Enterprise Business Plan PITONAK Martin Chemosvit Folie a.s., Svit, Slovakia, EU
11:05 PS3 25"	Progressive Approaches to Performance Evaluation of Processes and Firms SABOL Ján, TKÁČ Michal BPM Consulting, s.r.o., Košice, Slovakia, EU

SESSION C HALL: CONGRESS HALL 2

Chairmen: **Martin Straka, Krzysztof Witkowski**
Logistics of Distribution, Transport

SESSION D HALL: CONGRESS HALL 2

Chairmen: **Martin Straka, Krzysztof Witkowski**
Financial Management, Service Logistics and Smart Logistics

C1	Impacts of Weather and its Forecast on Transport JAROSOVA Miriam, IGAZ Dusan University of Zilina, Zilina, Slovakia, EU
C2	Potential of Satellite-based Earth Observation Use in Logistics LENORT Radim, WICHER Pavel, STAŠ David, HOLMAN David ŠKODA AUTO University, Mladá Boleslav, Czech Republic, EU

- 14:30 **B2** Heuristics in Logistics
MALINDŽÁK Dušan
Technical University in Kosice, Kosice, Slovakia, EU
- 14:45 **B3** Risk Management of Airport Management
KOŠČÁK Peter, LICHVÁROVÁ Anna, JENČOVÁ Edina, FERENC Ján
Technical university of Kosice, Košice, Slovakia, EU
- 15:00 **B4** Traditional Methods of Forecasting and Their Application in the Logistics of an Enterprise
KAČMÁRY Peter
Technical University of Kosice, Košice, Slovakia, EU
- 15:15 **B5** The Importance of Logistics in Strategic Planning on the basis of Several European Capital Cities
KIBA-JANIAK Maja - Wrocław University of Economics, Jelenia Góra, Poland, EU

15:30 - 16:00 **COFFEE BREAK**

Chairmen: Jerzy Feliks, Peter Kačmáry

- 16:00 **B6** Software Support for Material Flow Management
STRACHOTOVÁ Dana, ZEMANOVÁ Petra, BOTEK Marek
University of Chemistry and Technology Prague, Prague, Czech Republic, EU
- 16:15 **B7** Selected Aspects of Production and Logistics Processes Informatization
KOŽÁROVÁ Mária, ZÁVADSKÝ Ján, VESELOVSKÁ Lenka, SIROTIÁKOVÁ Mária
Matej Bel University, Banská Bystrica, Slovakia, EU
- 16:30 **B8** Development of Computer Simulation and its Use for the Needs of Logistics
STRAKA Martin, KHOURI Samer, BESTA Petr, DREVKO Slavomír
Technical University of Košice, Košice, Slovakia, EU
- 16:45 **B9** Improving Productivity of HST Windows Manufacturing Process in the MTO System
MICHLOWICZ Edward, SMOLINSKA Katarzyna
AGH University of Science and Technology, Cracow, Poland, EU

19:00 **SOCIAL EVENING - SLOVAK RAUT (Liptov)**
Alexandra hotel* restaurant**

- C3** Multiple Criteria Evaluation of Trams based on the Customers' Specifications in Selected European Countries
SZCZUTKOWSKI Marek, KUREK Damian, ŻAK Jacek
University of Science and Technology, Bydgoszcz, Poland, EU
- D1** Evaluation of Disruption Risk in Large Scale Complex Systems with Expert's Knowledge
FELIKS Jerzy, BUKOWSKI Lech
AGH University of Science and Technology, Cracow, Poland, EU
- C4** The Influence of Diagnostic Variables Normalization on Ranking Aggregation in Multiple-level, Multiple-criteria Evaluation of Urban Transportation Projects
KRUSZYŃSKI Mirosław, ŻAK Jacek
Poznań University of Technology, Poznań, Poland, EU
- C5** Intelligent Truck Parking Based on an Autonomous Electronic Toll Collection System
HRUDKAY Karol, ČUBOŇ Peter - University of Žilina, Žilina, Slovakia, EU

Chairmen: Radim Lenort, Peter Bindzár

- C6** The Importance of Ferry and Ro-ro Shipping in Supply Chains in Baltic Sea Region
URBANYI-POPIOŁEK Ilona, STUDZIEŃSKI Tomasz
Gdynia Maritime University, Gdynia, Poland, EU
- C7** Construction of Contact Points Network for Ecommerce
MADLEŇÁK Radovan, HOŠTÁKOVÁ Dominika, MADLEŇÁKOVÁ Lucia, RUDAWSKA Anna - University of Žilina, Žilina, Slovakia, EU
- C8** Multimodal Transport Management – in Search of Sustainable Excellence
NOWICKA Katarzyna
SGH Warsaw School of Economics, Warsaw, Poland, EU
- D2** Model for Traceability, Visibility and Component Identification in the Automotive Industry Through RFID Technology
KOLAROVSKÁ Zuzana, KOLAROVSKI Peter, TENGLER Jiří, PERAKOVIC Dragan
University of Žilina, Žilina, Slovakia, EU
- 17:00 **D3** Shaping Smart Mobility in Gdynia
KUZIA Michał - Gdynia Maritime University, Gdynia, Poland, EU

09:00 **WORKSHOP ALEXANDRA HOTEL*** LIBRARY**

11:00 Chairlady: **Daniela MARASOVA**

Modern Methods of Verification of Experimental Results Based on Computational - Simulation Approach

Project KEGA 009TUK-4/2016 Design of the specialized training concept oriented to the development of experimental skills within the frame of education in the study branch logistics.

11:00 - 11:30 **COFFEE BREAK**

09:00 **POSTER SESSION CONGRESS HALL**

11:00 Poster presentation:

Chairmen: Martin Straka, Jerzy Feliks, Radim Lenort

PS1 Logistics Approaches in Assessing the Intensity of Traffic with the Application to Urban Roads

BINDZÁR Peter

Technical University of Kosice, Institute of Logistics, Košice, Slovakia, EU

PS2 Analytical Modelling of Resilience in Metallurgical Supply Chain using Modified Manufacturing Line Models

ČECH Martin, LENORT Radim, WICHER Pavel

VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU

PS3 Relationship Research in Formatting Supply Chain Partnerships

DOHN Katarzyna, GUMIŃSKI Adam

Silesian University of Technology, Gliwice, Poland, EU

PS4 The Application of Computer Simulation for Verifying the Dynamic Changes in Production Processes

FURMAN Joanna, PAWLAK Szymon, KUCZYŃSKA-CHAŁADA Marzena, GRABOWSKA Sandra

Silesian University of Technology, Gliwice, Poland, EU

PS5 Optimization of Moving Stock Volume in Relation to Price Discount

GRABOWSKA Sandra, KUCZYŃSKA-CHAŁADA Marzena, SZYMSZAL Jan

Silesian University of Technology, Gliwice, Poland, EU

PS6 LFMEA Method for the Identification of Key Determinants to Improve the Efficacy of a Logistics Operator in the Area of Transport Processes

GUMIŃSKI Adam, DOHN Katarzyna

Silesian University of Technology, Gliwice, Poland, EU

PS7 Creating Visual Work Instructions to Ensure Safe and Fluent Operation of the Semi-automatic Production Lines

HEGEDÜŠ Matúš, FEDORKO Gabriel, MOLNÁR Vierošlav, BELUŠKO Matúš

Technical University of Košice, Košice, Slovakia, EU

PS8 Holistic System Thinking in Supply Chain Management

HOLMAN David, LENORT Radim, STAŠ David, WICHER Pavel

SKODA AUTO University, Mladá Boleslav, Czech Republic, EU

PS9 Multidimensional Analysis of Investments Attractiveness of Selected European Countries from Japanese Investors' Perspective

CHEBA Katarzyna

Westpomeranian University of Technology in Szczecin, Szczecin, Poland, EU

PS10 Towards Measuring Circularity at Product Level – Methodology and Application of Material Circularity Indicator

JANIK Agnieszka, RYSZKO Adam

Silesian University of Technology, Zabrze, Poland, EU

PS11 Segmentation of Garages by Their Needs and Requirements Concerning the Level of Cooperation with Car Oil Distributors

JELÍNKOVÁ Martina, LOŠŤÁKOVÁ Hana

University of Pardubice, Pardubice, Czech Republic, EU

PS12 The Models of Revitalization - Comparative Analysis

KNOP Lilla, JANIK Agnieszka, KRANNICH Marek, RYSZKO Adam

Silesian University of Technology, Gliwice, Poland, EU

PS13 Construction of the Algorithm for Determining the Structure of Marketing Product Categories and its Significance in the Development of Logistics Distribution

KOBYŁT Agata - WSB University in Wrocław, Wrocław, Poland, EU

PS14 Selected Aspects of the Disruptions Risk in the Implementation of Single Sourcing

KONECKA Sylwia, STAJNIAK Maciej, SZOPIK-DEPCZYŃSKA Katarzyna

Poznań School of Logistics, Poznań, Poland, EU

PS15 Knowledge Acquisition in the Context of Coordination of Distribution Network

KRAMARZ Marzena - Silesian University of Technology, Gliwice, Poland, EU

PS16 Car Sequencing Problem - Confrontation with Real Automotive Industry

KRYSTEK Jolanta, ALSZER Sara - Silesian University of Technology, Gliwice, Poland, EU

PS17 Unevenly Distributed Demand and Optimization of Moving Stock Volume

KUCZYŃSKA-CHAŁADA Marzena, GRABOWSKA Sandra, SZYMSZAL Jan

Silesian University of Technology, Gliwice, Poland, EU

- PS18** Structuring and Parameterizing Logistic Costs
KULIŃSKA Ewa
Opole University of Technology, Opole, Poland, EU
- PS19** Order Cost Calculation in Situation of Decreasing Market Demand and its Impact to Economic Value Generated by Supply Chain
KUTÁČ Tomáš, BESTA Petr, KUTÁČ Josef, ŠVECOVÁ Eva
VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU
- PS20** Optimization of Truck Loading
LAMPA Martin, SAMOLEJOVÁ Andrea, SIKOROVÁ Andrea
VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU
- PS21** Infrastructural Determinants of Humanitarian Logistics Development in Asean Community
MARCINKOWSKI Jakub Mateusz
Wrocław University of Economics, Faculty of Economics, Management and Tourism in Jelenia Góra, Jelenia Góra, Poland, EU
- PS22** Supply Chain of Product-Service Solutions - case Study
MATUSEK Mirosław
Silesian University of Technology, Gliwice, Poland, EU
- PS23** Planning Number of Operators in Call Centre Using Infinite-Source Queueing Model with Varying Demand Intensity
MUNZAROVA Simona, MACHAČ Otakar
University of Pardubice, Pardubice, Czech Republic, EU
- PS24** Support the Logistics Process Through Information System
OLEJARZ Tadeusz, GAZDA Andrzej, ŻYCZYŃSKI Norbert
Rzeszów University of Technology, Rzeszów, Poland, EU
- PS25** Financing the Activities of the Regional Revitalization Operator in Silesian Voivodeship
OLKO Sławomir, BRZÓSKA Jan
Silesian University of Technology, Gliwice, Poland, EU
- PS26** The Role of Cooperation in Creating Innovation in TSL Industry
PRZYBYLSKA Edyta - Silesian University of Technology, Gliwice, Poland, EU
- PS27** The Event-based Simulation Method of Stiff-track Transportation System Operation and Maintenance
RESTEL Franciszek, CZAJA Piotr
Wrocław University of Technology, Wrocław, Poland, EU
- PS28** Structure and Possibilities of Commercial Logistic Costs Reduction
ROSOVA Andrea, KAZIMIROVA Ivana, BUSA Michal, PUSKAS Eduard, FARKAS Csaba
Technical University of Kosice, Košice, Slovakia, EU
- PS29** Circularity Issues in the Corporate Social Responsibility Reporting – Case Study from Poland
RYSZKO Adam
Silesian University of Technology, Gliwice, Poland, EU
- PS30** Trends in Performance Management
SAMOLEJOVÁ Andrea, SIKOROVÁ Andrea, LAMPA Martin
VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU
- PS31** Challenges for Logistics in the Concept of Industry 4.0
SANIUK Sebastian, SANIUK Anna
University of Zielona Góra, Zielona Góra, Poland, EU
- PS32** Communication in Public Safety Networks
SIENKIEWICZ-MAŁYJUREK Katarzyna
Silesian University of Technology, Gliwice, Poland, EU
- PS33** Innovation and the Significance of Innovation Activities in Business
SIKOROVÁ Andrea, LAMPA Martin, SAMOLEJOVÁ Andrea, BESTA Petr
VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU
- PS34** Analysis of Limitations and Opportunities Related to the Implementation and Practical Use of Logistics Cost Accounting Record
SKIBA Sławomir
Maritime Academy of Gdynia, Gdynia, Poland, EU
- PS35** Quality Standards as Criteria for Choosing of Transport Service Provider
STAJNIAK Maciej, KONECKA Sylwia
Institute of Logistics and Warehousing, Poznań, Poland, EU
- PS36** Layout of Rack System under Defined Conditions
ŠADEROVÁ Janka, MARASOVÁ Daniela
Technical University of Kosice, Faculty of Mining, Ecology, Process Control and Geotechnologies, Košice, Slovakia, EU
- PS37** Packaging Material Inventory Management as a Tool Increasing the Level of Customer Services in the B2B Market
VLČKOVÁ Vladimíra, KUBICKOVA Ludmila, MACHAC Otakar
University of Pardubice, Pardubice, Czech Republic, EU

THURSDAY 29TH JUNE

- PS38** Improve of Packaging Flow using the Problem Solving Tools
ŻEBRUCKI Zbigniew, KRUCZEK Mariusz
Silesian University of Technology / Central Mining Institute, Gliwice, Poland, EU
- PS39** The Impact of Logistics on the Level of Current Assets in the Group Purchasing Organization
ZIMON Grzegorz - Rzeszow University of Technology, Rzeszów, Poland, EU

11:00 - 11:30 **COFFEE BREAK**

11:30 **POSTER SESSION AWARD CONGRESS HALL**
12:00 Chairmen: **Martin Straka, Jerzy Felix, Radim Lenort**
Announcement of the winner

12:00 - 14:00 **LUNCH**

14:00 - 17:00 **DINNER, ALEXANDRA HOTEL *** RESTAURANT**



14:00
17:00

OUTDOOR ACTIVITIES

Responsible persons: **Martin Straka, Aandrea Rosová**
A / Walking around Mini Slovakia - Come and visit the venue with
Slovakian cultural sights in 14 models with a railway
Responsible persons: **Michal Buša, Janka Šaderová**
B / Visit caves - Small Stanišovská Cave, natural, non-commercial cave
Responsible persons: **Dušan Malindžák, Peter Kačmáry**
C / Walking around - Janska Valley

19:30
21:00

FOOTBALL PARTY WITH BEER (dress code: CASUAL SPORT)

Alexandra hotel*** sports ground / gymnasium (good / bad weather)
Central European Championship of logisticians in small football
Responsible persons: **Michal Buša, Matúš Hegedúš**

SLOVAKIA / POLAND
(2 x 10 min.)

POLAND / CZECH
(2 x 10 min.)

CZECH / SLOVAKIA
(2 x 10 min.)

21:00

FOOTBALL AWARD - BEER PARTY (dress code: CASUAL)

- football award
- closing of the congress

FRIDAY 30TH JUNE

07:00 - 09:00 **BREAKFAST**

09:00 **FREE OUTDOOR ACTIVITES**

Additional information:

Wellness, pool: free entrance max 3 hours per day, opening 9:00-21:00, Wednesday 13:00-21:00
Accommodation cancel until 10:00

SPONSORS



GLOBAL LOGISTICS
FOR MANUFACTURERS

sk.gefco.net



www.chemosvitfolie.sk

ORGANIZERS



www.tuke.sk



www.vsb.cz



www.agh.edu.pl

PARTNERS



www.tanger.cz



www.ssaki.eu



ZVÄZ SLOVENSKÝCH
VEDECKOTECHNICKÝCH
SPOLOČNOSTÍ

www.zsvts.sk