

# ENKOC 2013

BEZPEČNOSŤ ENERGETICKEJ INFRAŠTRUKTÚRY,  
ISTOTA V INVESTÍCIÁCH A INOVÁCIE – CESTÁ  
K UDRŽATEĽNEJ ENERGETICKEJ BUDÚCNOSTI

SAFETY AND SECURITY OF THE ENERGY  
INFRASTRUCTURE, STABLE INVESTMENT  
ENVIRONMENT AND INNOVATIONS – THE WAY TO  
THE SUSTAINABLE ENERGY FUTURE

# ENKO

## 2013

10<sup>th</sup> SLOVAK ANNUAL  
CONGRESS  
ON POWER AND ENERGY

held under auspices of Robert Fico,  
Prime Minister of the Slovak Republic



ERASMUS

April 23–24, 2013

Bratislava  
Palffy Palace, Zámocká street

MAIN PARTNER

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KEY PARTNERS

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PARTNERS

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Slovakia



MEDIA PARTNERS

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Dear colleagues, ENKO 2013 participants,

Several days ago the 10<sup>th</sup> Annual International ENKO 2013 Congress, entitled "SAFETY AND SECURITY OF THE ENERGY INFRASTRUCTURE, STABLE INVESTMENT ENVIRONMENT AND INNOVATIONS – THE WAY TO THE SUSTAINABLE ENERGY FUTURE". Among other topics it covered the security of critical energy infrastructure and issues of investment and innovation in the energy sector. We have not omitted the nuclear energy issues and environmental protection via new technologies of waste management – incineration producing the heat and electricity.

Program of this year's annual meeting we created in cooperation with the Organization for Security and Cooperation in Europe and due to that we could welcome on the Congress a number of interesting guests and speakers; and had the opportunity to listen a lot of inspirational presentations. Took place interesting panel discussions and informal meetings, especially during the social event, which traditionally follows the ceremony of handing over the ENKO award for the life time contribution to the field of energy.

We believe that our Congress supported the discussion on how to develop the energy sector, how to protect critical energy infrastructure, and how to find starting points for further sustainable development of society. Let us thank you for your active participation and the creation of an informal pleasant social atmosphere.

We are looking forward to meeting you on the next 11<sup>th</sup> Annual Congress ENKO 2014 in Bratislava.

Ľuboš Tomík  
ENKO 2013 Congress Chairman

Jiří Marek  
ENKO 2013 Congress Vice-Chairman





## welcome address and Congress opening

**Ľuboš TOMÍK** Congress Chairman

**Jiří MAREK** Congress Vice-Chairman

**Oľga ALGAYEROVÁ** Ambassador, Permanent Mission of the Slovak Republic to the International Organizations in Vienna, Chairperson of the OSCE Economic and Environmental Committee

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**SEKCIA**

moderátori

Chairmen

Ľuboš TOMÍK

& Jiří MAREK

**SESSION**

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1

ENERGY AND ENVIRONMENTAL  
LEGISLATION, PROSPECTIVE ENERGY  
SOURCES FOR SLOVAKIA, INNOVATIVE  
WAYS AND TECHNOLOGIES





**Ján PETROVIČ** General Director, Department of Energy, Ministry of Economy of the Slovak Republic

#### PRINCIPLES AND IMPLEMENTATION OF LEGISLATION FOR ENERGY OF FUTURE

After graduating the Technical University of Košice, Faculty of Mining, he started his professional career in the mining company Baňa Dolina, a.s., in Veľký Krtíš. Since 1995 he has been working at the Ministry of Economy of the Slovak Republic in several positions; during this period he was a member of the Board of company Želba, a.s., Spišská Nová Ves and member of Supervisory Boards of companies Východoslovenské energetické závody, š.p., Košice, Transpetrol, a.s., Bratislava and Zvolenská teplárenská, a.s., Zvolen. In 2004 he became the director of Energy Policy Section and since November 2007 he is undertaking the function of Department Energy General Director. In this position Mr. Petrovič is responsible for the creation of the state energy and raw materials policy, energy and mining legislation, international relations (EC, EU, IEA, ECT, CEI). He is further responsible for the state administration performance designated by law as power industry (including nuclear), renewables, energy efficiency, gas industry, heat power sector, oil industry (including biofuel), and mining and treatment of ore and non-ore mineral raw materials and fuel.



**Katarína JANKOVIČOVÁ** Director, Department of Air Protection, Ministry of Environment of the Slovak Republic

#### MAJOR LEGISLATIVE CHALLENGES FOR ENERGY FUTURE FROM THE PERSPECTIVE OF THE ENVIRONMENT, WASTE-TO-ENERGY AND SUBSEQUENT SYNERGISTIC EFFECT

Katarína Jankovičová is working in the field of the environment as Director of Air Protection Department, Ministry of The Environment of The Slovak Republic. After graduating Slovak Technical University, Faculty of Civil Engineering with specialization on Water Engineering and Water Management she worked on Water Management Research Institute in the field of water research and on Department of Sanitary Engineering, Slovak Technical University in field of waste management. She is currently working in the field of environment, air protection, integrated prevention and pollution control.



**Vladivoj ŘEZNÍK** Engineering Director, Slovenské elektrárne, plc., Bratislava

#### SLOVENSKE ELEKTRARNE AND PORTFOLIO OF CONVENTIONAL POWER PLANTS IN LONG TERM VIEW WITH MINIMAL IMPACTS TO THE ENVIRONMENT

V. Řezník holds engineering diploma from Brno University of Technology, Faculty of Mechanical Engineering, and has more than 30 years of experience in energy sector. Career started at nuclear power plant Dukovany on Operation Department. After political changes in the period of 1989 – 1990 he became head of Engineering Department of Dukovany NPP, further he worked for IAEA in Vienna. After coming back to the Czech Republic he worked for CEZ Group at several top positions at Prague's headquarters, mainly as Director of Technology Dept., responsible for Group activities. Almost three years he acted as a Director and Vice-Chairman of the Board of the Pilsen Distribution Company. Before current position in Slovenske elektrarne he shortly worked at the Ministry of Industry and Trade in the Czech Republic as an advisor.

Since 2008 he acts as Director of Engineering of Slovenske elektrarne. Engineering Department covers modernization, reconstruction and construction of new power sources of all types, implementation of new technical solutions, optimization and increasing of efficiency for production of electricity and heat. Furthermore is responsible for safety of design and continuous increasing of nuclear and technological safety of technological equipment, and managing of research and development activities and close cooperation with academic community, mainly with Slovak Academy of Science and Universities of Technology.



**Petr STEHLÍK** Professor & Director, Institute of Process and Environmental Engineering, Faculty of Mechanical Engineering, Brno University of Technology, Coordinator of NEMTE Centre

### WASTE-TO-ENERGY “FROM A TO Z”: FROM CONCEPTUAL DESIGN FOR INVESTMENT DOWN TO TAILOR-MADE TECHNOLOGIES AND EQUIPMENT

Petr Stehlík is a Professor and a Director of the Institute of Process and Environmental Engineering at Brno University of Technology in the Czech Republic. He also currently holds the position of Vice President of the Czech Society of Chemical Engineers. He has several years of experience in engineering practice before joining the university, and at present he is also a director of research and development of a certified engineering and contracting company with activities aimed at waste and biomass processing and waste-to-energy systems. Some of his main activities include: Executive Editor of Heat Transfer Engineering and Guest Editor of other international journals, Coordinator/Contractor of international research projects, Author/Co-author of several hundreds of papers, and plenary/keynote speaker at various international conferences. His research and development as well as application activities are aimed especially at waste to energy systems, applied heat transfer, energy saving and environmental protection. He is also a director of research and development NETME Center (New Technologies for Mechanical Engineering).



**František ČUPR** Chairman of the Board of Directors, SPP – distribúcia, plc., Bratislava

### THE MOST IMPORTANT ENERGY ACQUISITION AND VISION OF SLOVAK GAS SECTOR DEVELOPMENT

He graduated from the Faculty of Business and Economics, Mendel University, Brno and in 2006 received the Master of Business Administration diploma (MBA). After graduation he worked at Jihomoravská energetika, a.s. in Brno for 7 years on various managerial positions including deputy Sales Division Director and Strategy Director. In 2005 he joined J&T, focusing on energy sector projects. In 2005 he founded EP Energy Trading, a.s. (former United Energy Trading, a.s.), an electricity and gas trading company, in which he held the posts of the Chairman of the Board of Directors and Director General until 2012; being active also in projects concerning renewables in the Czech Republic and Slovakia. From 2006 to 2010 he was a member of the Supervisory Board of Pražská energetika, a.s. Since 2009 he has been a member of the Supervisory Board of Pražská teplotárenská a.s., and on 24 January 2013 he became the Chairman of the Board of Directors of SPP – distribúcia, a.s.

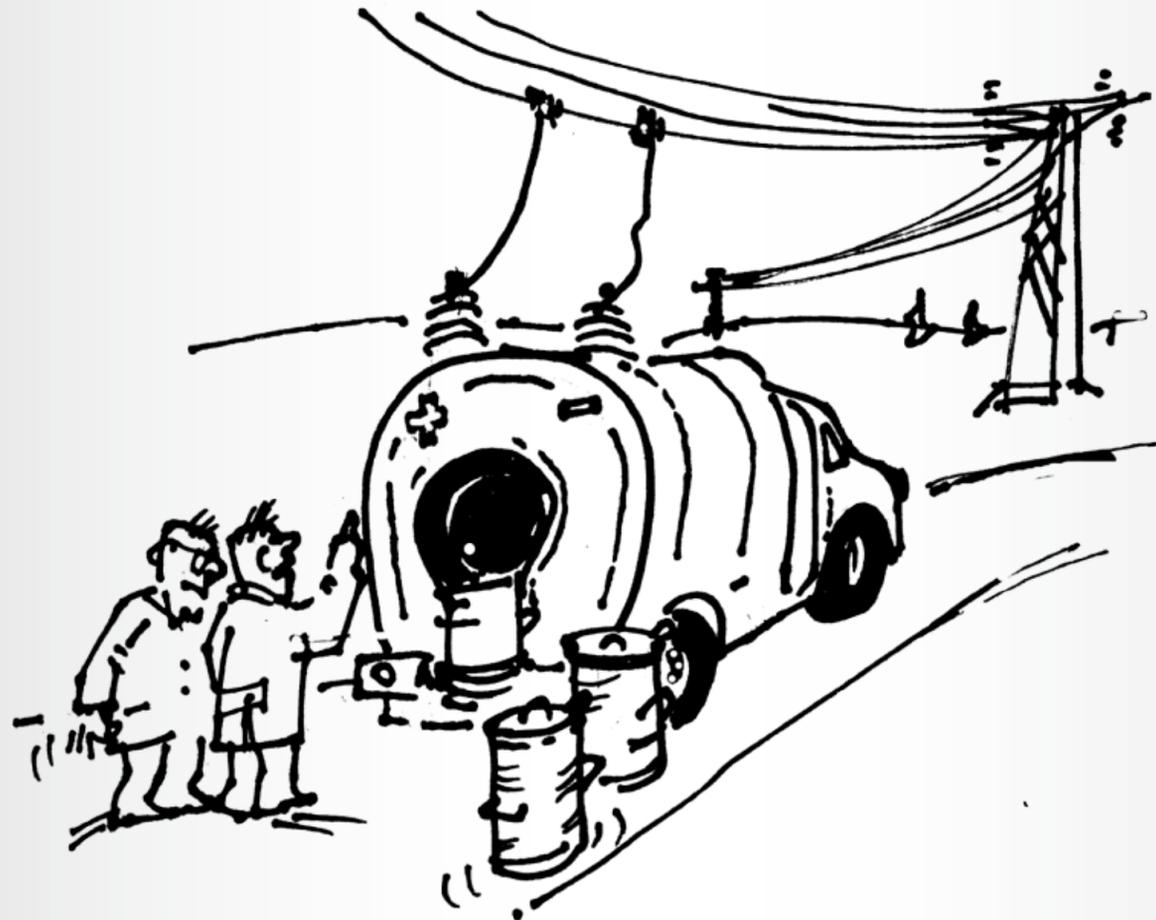
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**SEKCIA**  
moderátori  
Chairmen  
Jiří MAREK  
& Konstantin  
JACOBY  
**SESSION**

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**2**

WASTE-TO-ENERGY  
AND DISTRICT  
HEATING – AN ALLIANCE  
OF SYNERGY ?



## round-table discussion



**Konstantin JACOBY** Managing Director and Senior Consultant, EEE JacobyKo s.r.o., Bratislava

*WASTE-TO-ENERGY – CONCEPT NOT ONLY FOR FUTURE AND ADVANCED ENVIRONMENTALLY SAFE SOLUTIONS, BUT ALSO FOR DISTRICT HEATING IN SLOVAKIA, AND WASTE MANAGEMENT ON THE LEVEL OF AUTONOMOUS DISTRICTS AND REGIONS*

opening presentation of the chairman and his introduction of the topic of the round-table discussion

Konstantin Jacoby was graduated in mathematics and computer science at the University of Munich where he got also the PhD degree in applied mathematics. He started his professional career 1984 as assistant lecturer at the University of Munich, and 1987 he joined Siemens R&D Centre in Munich from where he moved 1995 to Siemens Power Generation Group (the former KWU), where he was for several years responsible for personnel training for nuclear and fossil fired power plants world-wide and for the company's NPP emergency response centre in Germany. After the process of merger and consolidation of the German and French NPP manufacturers he is in the position of Regional Director Marketing of the AREVA NP GmbH, 2003 – 2006 for Russia, since 2007 for CR & SR, since 2009 in the position of project manager in Ukraine, where he managed the sales for AREVA NP business group of reactor services. In 2012 he founded his own company in Bratislava (EEE JacobyKo Ltd.) aimed at providing independent technical-institutional advice and support services for energy systems and industry of Central and Eastern Europe.

speakers and participants of the round-table discussion



**Jiří HOLOUBEK** Sales a Technical Director, Pilsen District Heating Co., plc., Pilsen

*HOW TO DEVELOP THE 100 MIL. € INVESTMENT (WASTE INCINERATOR PLANT / HEATING PLANT) FOR THE CITY OF PILSEN*

Graduated from the University of West Bohemia in Pilsen, Faculty of Mechanical Engineering. Employed since 2002 in Plzeňská teplárenská, plc., first in the commercially technical division, since 2004 as member of the team involved in the preparation and implementation of biomass projects. In 2007 he became the team leader, whose main activity was the preparation and implementation of a new cogeneration unit for biomass. Since 2008 in the same company, he is in the position of commercial and technical director, where in addition to the management of this area, is responsible for the waste management and for the design and construction of waste to energy plant ZEVO Chotíkov.



**Miroslav OBŠIVANÝ** Deputy Chief Executive Officer, STEFE SK, plc., Banská Bystrica, Chairman of the Board, Slovak Union of Heat Producers

*IS ENERGY EFFICIENCY IN DISTRICT HEATING ACHIEVABLE – IS USE OF WASTE-TO-ENERGY A SOLUTION ?*

Mr. Obšivaný attended Slovak University of Technology in Bratislava where he graduated in 1979. He started career as a director of state owned company PBH which market was heat production and distribution. In 1992 he became CEO in private company named Martico s.r.o (Ltd.). In year 2000 joint-stock company was founded whose strategic investor was Seirische Fernwärme GmbH from Graz. Company's essential activities were heat production and distribution in urban area of city of Martin and Mr. Obšivaný held position of chairman of the board. On January 1<sup>st</sup> 2013 Martico changes its name to STEFE Martin s.r.o. Austrian strategic investor Steirische Gas-Wärme GmbH founded company STEFE SK to take care for management of its holding companies where Mr. Obšivaný holds position of Member of the Board and Deputy CEO.

In year 1998 interest group of heat producers named Slovenský zväz výrobcov tepla (Slovak Union of Heat Producers) was founded where Mr. Obšivaný acts as Chairman of the Board. He is also member of Energy Commission in Economic Policy Committee of National Council of the Slovak Republic, member of workgroup developing final version of energy policy of Slovak Republic and non-permanent member of workgroup for program period of cohesion policy EU 2014 – 2020.



*paper presented by Ivan Ďudák, Member of the Board, Slovak Association of Producers of Heat*



**Markus BOLHÀR-NORDENKAMPF** Director, Central Eastern Europe, Metso Power Oy, Tampere

*SUPPLY OF SOPHISTICATED SMALL WASTE-TO-ENERGY INSTALLATIONS – SOLUTION FOR CLEAN ENVIRONMENT AND LOCAL SUPPLY OF ELECTRICITY AND HEAT*

Markus Bolhàr-Nordenkampf is working at Metso Power Austria, an international provider of systems for thermal power generation and environmental technologies. His current position is Director Central and Eastern Europe for all Metso Power products. These include grate fired solutions for biomass, fluidised bed boilers for biomass, waste and coal as well as recovery boilers, rebuilds and upgrades and service.

He started his career at the Vienna University of Technology in the area of biomass gasification and biomass combustion in fluidised beds. After completing his PhD he gained his professional experiences in the area of power plant engineering for over 10 years. He additionally holds an MBA in General Management.

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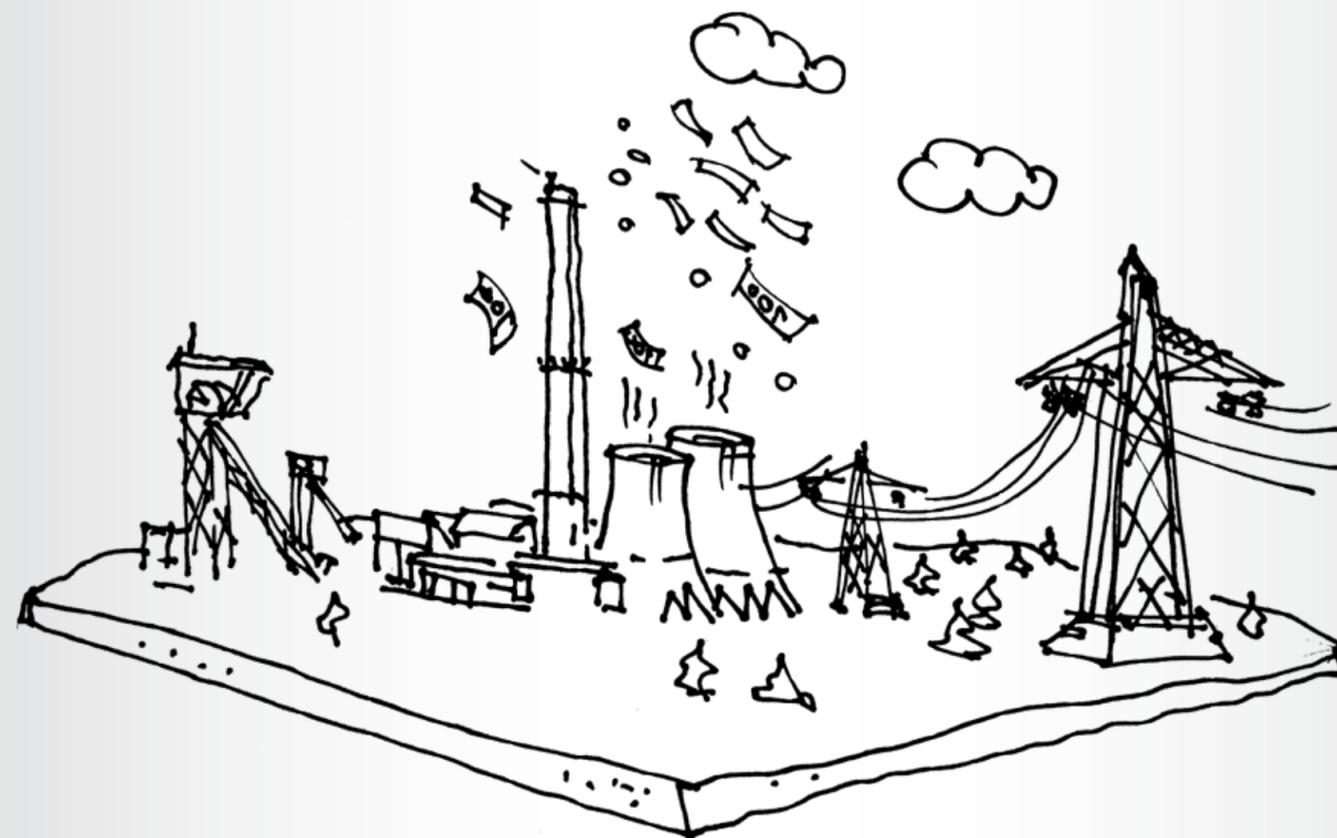
Fr. PECHO

**SESSION**

**3**

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INVESTMENT IN THE SLOVAK  
ENERGY SECTOR – VISIONS,  
OPPORTUNITIES AND EXPERIENCE





**Roman SABO** Chief of the Investment Projects Department, Slovak Investment and Trade Development Agency (SARIO), Bratislava

#### OPPORTUNITIES AND OPTIONS OF PRINCIPAL INVESTMENTS IN SLOVAKIA – VISION FOR INVESTORS, ASSURANCE OF THE QUALITY INFRASTRUCTURE, OFFERS FOR SLOVAK SUPPLIERS

Mr. Roman Sabo joined SARIO in June 2012 as the head of Mergers and Acquisitions department. Since January 2013 he has been managing SARIO's Investment division. Prior to joining SARIO Mr. Roman Sabo spent 12 years working for leading Telco operators (Orange/FT and Telefonica O2). He's been in various senior roles mostly within marketing, product marketing and Business development. Mr. Sabo launched historically the first MVNO in Slovakia (Tesco Mobile Slovakia) which he was leading as General Manager between 2009 and 2011. From 2010 till 2011 Mr. Sabo acted as a General Manager Tesco Mobile Central Europe. In this role he was in charge of the Tesco Mobile's business within the entire CEE region.

Roman has got a Master's degree from the Faculty of Informatics at the Slovak Technical University in Bratislava.



**Vladimír PESTÚN** Power Plant Manager and Technical Managing Director, E.ON Elektrárne, s.r.o.

#### ADVANCED GAS POWER PLANT AS THE PEAK SOURCE FOR ELECTRICITY GRID – RISKS AND BENEFITS OF NEW INVESTMENT

Vladimír Pestún graduated from the Slovak University of Technology in Bratislava; Faculty of Mechanical Engineering, Specialization: Heat, nuclear, energy machines and equipments. In 1986 – 1997 he worked for Benzinol Bratislava as Engineer for production and distribution of heat and electricity. Later on he worked as Shift Leader, Head of Operation and Director for Operation in PPC Power. From 2008 to 2010 he held the position of General Site Manager in EON Elektrárne. Since 2011 he is Power Plant Manager and Managing Director of EON Elektrárne.



**Maroš HAVRAN** Director of Corporate Affairs, Ludovika Energy Ltd., Banská Bystrica

#### MODEL OF INVESTMENT INTO EXPLORATION OF ENERGY MINERALS AND DEVELOPMENT OF FUTURE PRODUCTION

Maroš Havran graduated at the Faculty of Political Sciences and International affairs at Banská Bystrica Matej Belo University, in the field of international relations and diplomacy. As a journalist, he worked news teams of radio TWIST and TV Markíza, where he focused on economic issues. However, prior to working with the company Ludovika Energy Ltd., he worked as advisor to the Minister of Economy and spokesman for the Ministry of Economy. As director of corporate affairs he is responsible for communication with state authorities, municipalities and for corporate policy.

At the end of the Tuesday's program a ceremony took place during which the ENKO award for the life time contribution to the field of energy was handed over to **Ignác PŇAČEK**, whose lifelong career is connected with Bohunice Nuclear Power Plant and the position of Member of the Board of the Slovak Power Co., responsible for the operation of nuclear power plants.

The official ceremony was held in the presence of Tomáš MALATINSKÝ, Minister of Economy of the Slovak Republic, Jakub KARFÍK, Ambassador of the Czech Republic in Slovakia, and Jozef MIŠÁK, last year's ENKO award laureate.



# I g n á c P Ň A Č Ě K

Mr. Ignác Pňáček studied at the Faculty of Electrical Engineering of the Slovak University of Technology in Bratislava, specialisation in the nuclear engineering. Following the completion of his studies, Mr. Pňáček joined the Jaslovské Bohunice NPP where he was trained for a position of reactor operator. Following a few months preparation in the NPP Novovoronež, he took part in commissioning of Unit 1 of the V1 NPP as a reactor operator and later as a head of the unit. In the period of 1981 – 1991, he worked as a shift supervisor in the V1 NPP, then in 1991 – 1993 as a main engineer of the V1 NPP. During 1993 – 1994, Mr. Pňáček participated in preparation and execution of the first complex probabilistic safety assessment of the V1 NPP as a project manager representing the Bohunice NPP. Results of this analysis served for a complex refurbishment that the V1 NPP had to undergo to remain in operation. From 1994 to 1999 he was in charge of the Nuclear Safety Department. Within his scope of responsibility were, among others, deterministic and probabilistic assessment of the V1 and V2 NPPs nuclear safety, development of symptom oriented measures of emergency situation and severe accidents as well as assessment of proposals and projects for V1 NPP refurbishment from the safety viewpoint.



**The ENKO award for the life time contribution in the energy field**

In 1999, Mr. Pňáček was appointed deputy director for the Bohunice NPP operation. In 2003, he successfully passed a selection procedure and became a member of the Board of Directors and a Chief Operation Officer of Slovenské elektrárne (SE, a.s.). He remained at the position after the entry of a new majority shareholder in Slovenské elektrárne in 2006. The technical and investment development department (engineering) was integrated into his division later on. During his tenure as the Chief Operation Officer in SE, a.s., the Slovak NPP Units moved up from the third quarter to the top 10% NPP Units worldwide according to the WANO assessment. Moreover, in the last two years, two units operated by SE, a.s. were placed among the best VVER type NPPs.

Mr. Ingác Pňáček has been a member of the Board of Directors of the WANO Moscow Centre of NPP operators. In 2010 and 2011 he served as a chairman of the Moscow Centre and at the same time as a member of the Board of Directors of WANO in London. During his tenure as chairman, the WANO mission was redefined and the responsibility for the NPP operational safety significantly strengthened.

Mr. Ingác Pňáček held his positions of the BoD member and Chief Operation Officer of Slovenské elektrárne till the end of 2012. Since January 2013 he has been retired.

Afterwards the festive social evening was held in premises of Palffy Palace



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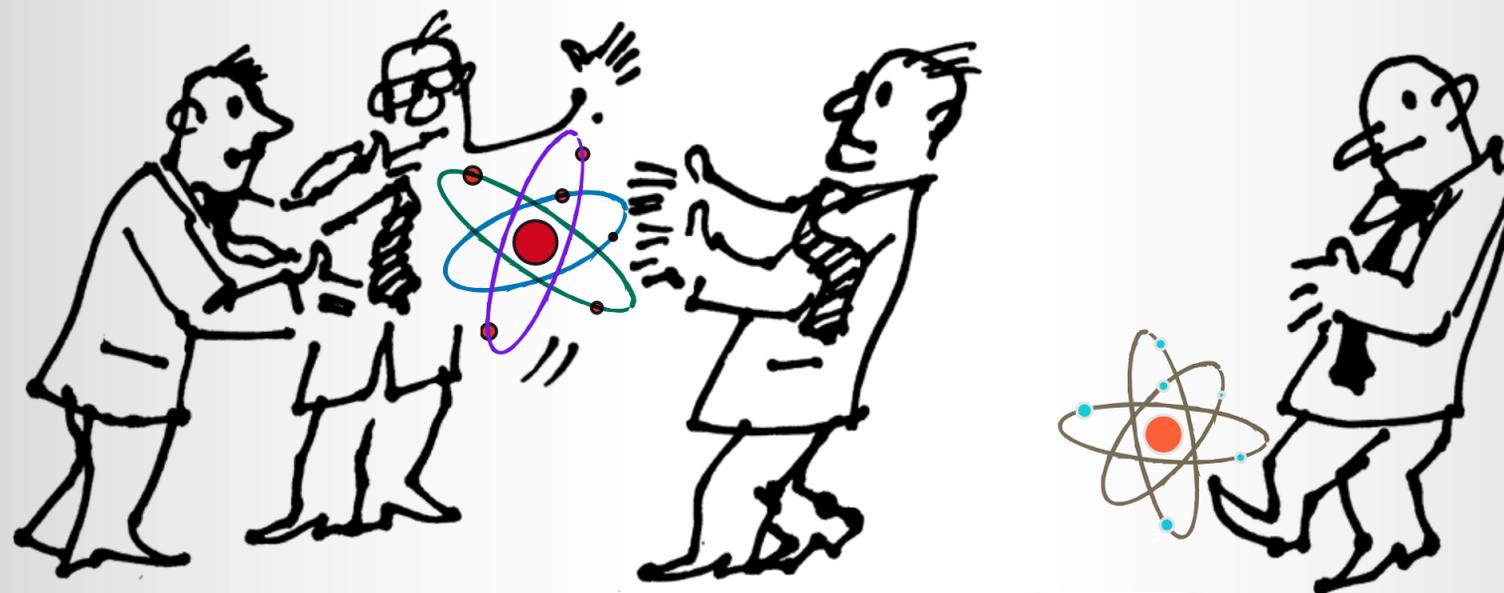
Chairman

Ľuboš TOMÍK

**SESSION**

**4**

S U P P L I E S , S E R V I C E S  
A N D N E W T E C H N O L O G I E S  
F O R N U C L E A R E N E R G Y





**Pavol ŠTULLER** Director Central Europe, AMEC (Clean Energy), Trnava

#### APPLICATION OF PROGRESSIVE RADIOACTIVE WASTE TREATMENT

After completing his MBA in international management at the City University of Seattle and postgraduate study at STU FEI Bratislava, Mr. Stuller came thru various positions first in Slovenske elektrarne, plc., and later in JAVYS (Nuclear and Decommissioning Co.). Since 2008 Pavol Štuller acts as Director Central Europe of AMEC (Clean Energy).



**Jana KUBÍNOVÁ** Key Account Development, Central, Eastern Europe & Russia, Rolls-Royce Civil Nuclear, Prague

#### INNOVATIVE SOLUTIONS FOR CENTRAL AND EASTERN EUROPE IN NUCLEAR AREA

Jana Kubínová worked for Dukovany Nuclear Power Plant (Czech Republic, CEZ utility) for 14 years in Nuclear Operations Department and I&C Recovery Department. Further he acted in Schneider Electric as the Energy market manager; in 2003 Schneider Electric nuclear division became Data Systems & Solutions. From 2009 she works with Rolls-Royce, Prague, Czech Republic, as a Customer Business Manager specializing in the nuclear I&C area, for Central and Eastern Europe and Russia.



**Hans-Otto ROHWER** Expert in Nuclear Back-End and Decommissioning, AREVA Group, Erlangen

#### PROJECTS AND TECHNICAL SOLUTIONS FOR NUCLEAR DECOMMISSIONING – THE WAY FOR OPTIMIZED SLOVAK SOLUTIONS

Hans-Otto Rohwer studied Mechanical Engineering and started his career 1975 in the former Kraftwerk Union / Siemens which currently is the German part of AREVA. His first job was pipework engineering. After five years he changed to the Project Management Organization and took over duties and responsibilities at the PWR Projects Isfahan and Buser in Iran and at the BWR Gundremmingen (2x1300 MW) in Germany. He continued in the field of Project Management and was responsible for Siemens fossil fired power plants in different countries as Project Manager and Project Director. Further he came back to the nuclear projects of AREVA and was in charge of backfitting projects in Germany. In 2011 AREVA decided to build up a Center of Competencies (COC) for the Decommissioning and Dismantling of NPPs which is located in Germany. Together with the competencies from other AREVA business groups (e.g. Fuel service, Decontamination, Dismantling, Waste handling) in Germany and other AREVA locations in France and USA this COC bundles, organizes and accomplishes projects for all kind of NPP D&D activities. Today Hans-Otto Rohwer is working as PMI (Project Management Institute) certified Project Director in this company.

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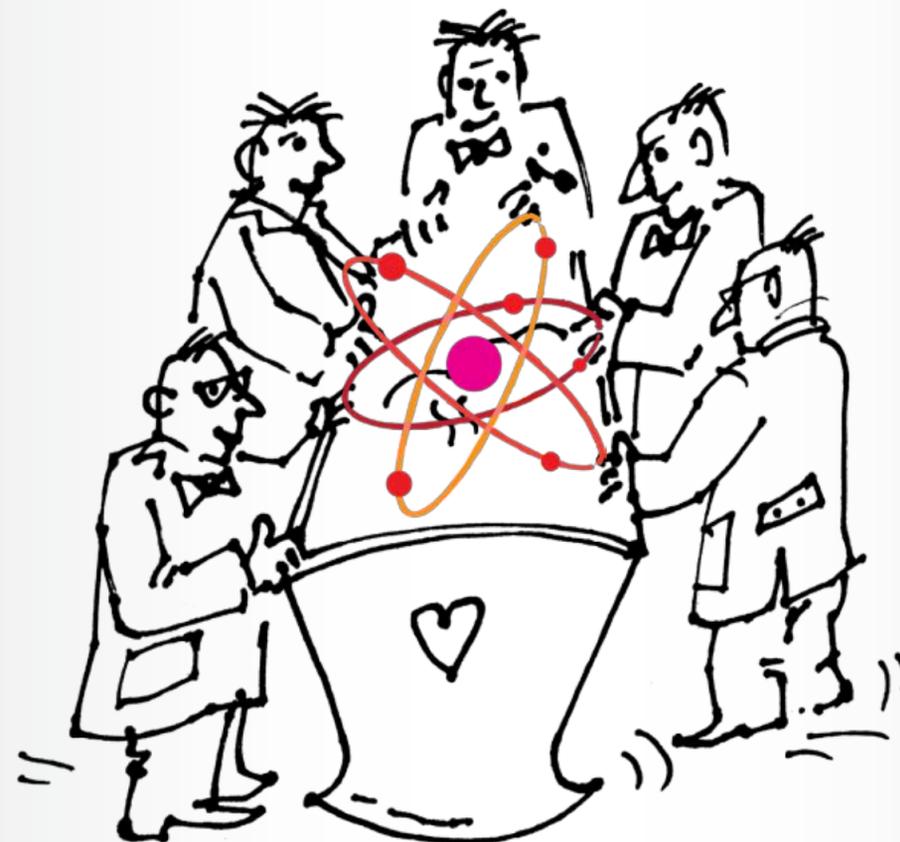
Chairman

Jozef MIŠÁK

**SESSION**

**5**

NEW NUCLEAR BUILT  
IN SLOVAKIA – PREPARATION  
PHASE AND IDEAS  
OF POTENTIAL SUPPLIERS



## round-table discussion



**Jozef MIŠÁK** Director of Strategy, ÚJV Řež, plc.

### *CRITICAL EVALUATION OF THE SAFETY REQUIREMENTS IN POST-FUKUSHIMA ERA*

opening presentation of the chairman and his introduction of the topic of the round-table discussion

He graduated from the Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering. His more than 40 years long performance in the field of nuclear power industry is focused on research and engineering support for safety principles implementation during design and operation of NPPs. He has long lasting experience from several leading positions in the field of nuclear safety. During 1971 – 1993 he worked in VUJE (NPP Research Institute). During 1993 – 1997 he was the first Chairman of Nuclear Regulatory Authority of Slovak Republic. Between 1997 and 2004 he was with IAEA in Vienna, where he worked in the field of elaboration of safety standards and guidelines for NPP accident analysis. At the present time he is the Director for strategy at the ÚJV Řež, a.s. (Nuclear Research Institute Řež).

speakers and participants of the round-table discussion



**Štefan ŠABÍK** Chairman of the Board of Directors & CEO, JESS (Slovak Nuclear Power Co., plc.), Bratislava

### *NEW NUCLEAR BUILT – CONCLUSIONS OF THE FEASIBILITY STUDY AND FURTHER PROCEDURE*

After finishing his studies at the Slovak University of Technology, Faculty of Mechanical Engineering, Štefan Šabík has coupled his professional life with a nuclear power. First he started in Slovenské elektrárne, Inc., working in Mochovce NPP. Here he was working in positions of investment technician, assistant of director, head of personnel department, head of personnel training department, head of staffs and remuneration section and Deputy Director for human resources and services, finally as Human Resources Director of SE Headquarters. From 2007 to 2009 he was engaged in Nuclear and Decommissioning Company in the position of the Acting Director of the Management Division. At present he is appointed by the Chairman of the Board of Directors and CEO of the Slovak Nuclear Power Company, plc.



**Ivo KOUKLÍK** Vice-President, Rosatom Overseas, Moscow

*ROSATOM INVESTMENT PROJECTS, PERSPECTIVE IN EUROPE AND IN THE WORLD, LOCAL COOPERATION*

After graduating the Czech Technical University, Faculty of Nuclear Science and Physical Engineering in 1983, he worked in Dukovany NPP in several positions beginning as reactor operator, from 1998 in top management positions (Safety and Investment Director, Responsible Manager for reorganization of Temelin and Dukovany NPPs, Dukovany NPP Director). Further he held the positions of the ČEZ Nuclear Safety Division Director, and the ČEZ Engineering and Technical Development Director. Since 2006 he worked as Project Manager responsible for Temelin Units 3&4 development. Further, since 2009 he acted as the Chairman of the Board of Directors of ČEZ Bohunice jsc., and as Technical Director and Vice Chairman of the Board of JESS, jsc. – company preparing New Bohunice Unit. He took part on IAEA missions OSART, ASSET and PROSPER for several NPPs (Gravelines, Kozloduj, Pakš, Kashiwazaki- Kariwa). He spent three months training with US NRC. In the year 2011 I. Kouklík was appointed the Vice-President of Rosatom Overseas.



**Alan PALIN** Business Development Manager, Westinghouse EMEA, Brussels

*THE EVER INCREASING NEED FOR GREATER FLEXIBILITY OF OUTPUT FROM GENERATING PLANT*

A. Palin holds Bachelor Degree of Engineering, Electrical & Electronic from Liverpool University. His professional experience record includes: ABB Power Transmission and Distribution - Developed, Designed, Installed and Commissioned Medium and High Voltage Systems for numerous projects including, UK National Grid (SVC's & MSC's), Channel Tunnel, TGV, Thai Steel, KEPCO, HK CLP and Disney Cruise Liners. Further he joined Urenco - Business lead for new and innovative grid systems with projects for Lyon, New York and London Underground, HK CLP and Siemens. He joined Westinghouse in 2009 as Market Lead in Baltic States, Poland, Hungary and Romania. Later providing additional support to other markets in the areas of Grid and Load Follow application of AP1000. Currently Business Development lead for the innovative Westinghouse SMR in the EMEA Region.



**Thomas EPRON** Director Central Europe, AREVA Group, Prague

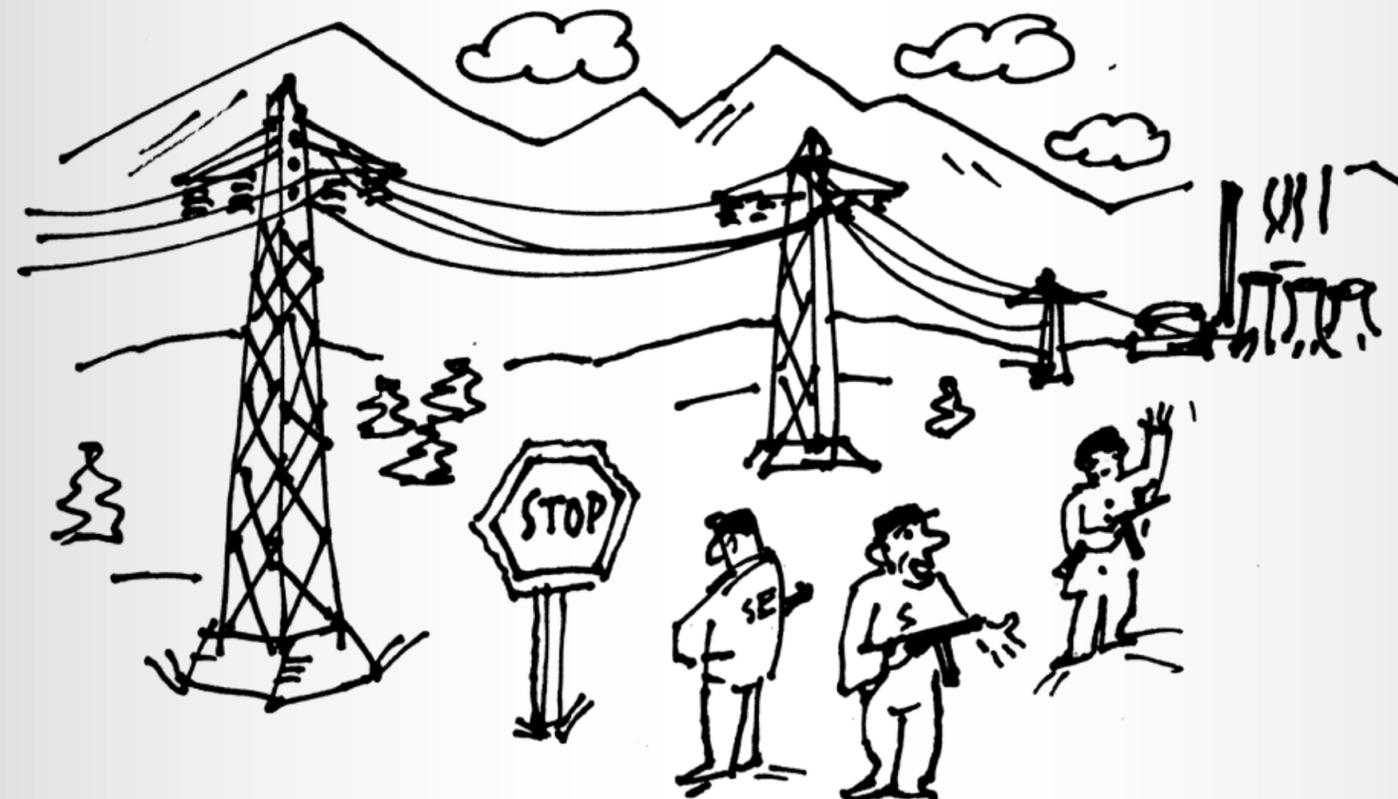
*PERSPECTIVE OF NUCLEAR POWER – AREVA'S NEW PROJECTS*

Thomas Epron graduated from ENMM of Nantes as Dual Merchant Marine Officer in 1995. He started his career in the merchant marine world. In parallel he obtained a degree in Strategy and in 2001, he joined Alstom T&D to participate to creation of the strategy and marketing department. End 2003, he was sent to the middle-east region to develop Alstom T&D activities, end 2007 was promoted to head the sales operations directorate of AREVA T&D in Paris. Early 2009, he joined AREVA's Business Development Unit with the task to look after the Central Europe region and became the head of AREVA's office in Prague.

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Chairperson  
Olga  
ALGAYEROVÁ  
& František  
PECHO  
**SESSION**

6

PROTECTION OF ENERGY  
INFRASTRUCTURE AND SECURITY  
OF ELECTRICITY SUPPLY – CURRENT  
TASK TODAY



## round-table discussion



**Olga ALGAYEROVÁ** Ambassador, Permanent Mission of the Slovak Republic to the International Organizations in Vienna, Chairperson of the OSCE Economic and Environmental Committee

### PROTECTION OF ENERGY INFRASTRUCTURE AND ITS ENVIRONMENTAL IMPACT – CURRENT SLOVAK INITIATIVE IN THE FRAMEWORK OF TOP GOALS OF THE OSCE

In 1982 she graduated from the University of Economics in Bratislava, Faculty of Foreign Trade. In 2002—2006 she studied at the Open University Business School, Milton Keynes, United Kingdom and in 2007—2010 at the University of Malta. In 1982-1991 she worked as Deputy to the Head of Department in PZO Drevounia Bratislava. Later on she held the position of Head of the Representation Office in Slovakia for Compensacion y Comercio S.A. Barcelona, Spain. From 1995 to 2006 she worked in pharmaceutical industry for Slovakofarma, jsc., as Head of Export Department and Financial and Tax Adviser to the CEO, later on in Zentiva International, jsc., as Corporate Manager of Opportunity Export and Contract Manufacturing and Licensing-out Business Unit.

Later on she became State Secretary of the Ministry of Foreign Affairs, Foreign Policy Advisor to the Prime Minister's Office. Currently, she is Ambassador, Head of the Permanent Mission of Slovakia to the International Organizations in Vienna, Austria. As Chairman of the Economic and Environmental Committee of the OSCE in 2013 she deals with issues of energy infrastructure safety.

keynote speakers – the basic ideas for round-table discussion



**Urban RUSNÁK** Ambassador & Secretary General, Energy Charter Secretariat, Brussels

*THE ROLE OF THE ENERGY CHARTER IN CONTRIBUTION TO ENHANCING ENERGY SECURITY AND ENVIRONMENTAL PROTECTION FOR THE GENERAL BENEFIT OF ALL CONCERNED*

Ambassador Urban Rusnák became Secretary General of the Energy Charter Secretariat in January 2012. He graduated from the Moscow Institute of Oil and Gas in 1990 with an M.Sc. and received his Ph.D. from the Ankara University Institute of Social Sciences in 1998. Amb. Rusnák also holds an Honoris Causa doctorate from the Kiev Slavonic University since 2009. Prior to his appointment with the Energy Charter Secretariat, Amb. Rusnák worked at the Ministry of Foreign Affairs of the Slovak Republic at number of diplomatic positions, including the Leader of the Project for Slovakia's External Energy Security. He also held the position of Executive Director of the International Visegrad Fund in Bratislava (2000—2003) and Director of the Slovak Institute for International Studies (1999—2000).

Additionally, Amb. Rusnák was a Lecturer at the Kiev Slavonic University (2005—2009) and at the International Relations Faculty of the Economic University in Bratislava (2000—2003). He was also Chairman of the Editorial Board of the Slovak Institute for International Studies (2000—2003), Editor in Chief for the MFA International Issues Journal (1998—1999) and is the author of several articles on international relations, energy security, development assistance and Caspian oil and gas issues.



**Halil Yurdakul YIGITGÜDEN** Co-ordinator of the OSCE Economic and Environmental Activities, Vienna

*ENERGY SECURITY AND ENVIRONMENTAL IMPACTS – THE OSCE PERSPECTIVE*

Dr. Halil Yurdakul Yigitgüden is a Consultant on Energy Economics, Energy Efficiency, Renewable Energy and Caspian Geopolitics. He is also a Board member of the steel pipe manufacturer Borusan Mannesman. Dr. Yigitgüden served from 1997—2003 as the Under-Secretary of the Ministry of Energy and Natural Resources, responsible for energy, water and mining policy. He successfully led the Caspian Energy Diplomacy of Turkey and took a leadership role to implement energy market reforms. From 1995—1997 he held the position of CEO of Fenis Holding in Istanbul. Prior to that, he served as Chairman and Director General of the State Airports and Air Traffic Authority (1992—94), as Deputy Under-Secretary of the Ministry of Transport and Communications (1991—92), as Vice-President of the mining, chemicals and banking Group Etibank (1989—91) and as Group Manager for Investment Promotion at the State Planning Organization (1987—89).

Dr. Yigitgüden is an Eisenhower Fellow and holds a diploma and doctoral degree in engineering from RWTH Aachen University. He published numerous articles on energy security and energy economics.

speakers and participants of the round-table discussion



**Ivan BENEŠ** consultant, CEO Emeritus CityPlan Prague, founder of the Czech Association of Energy Economics

*EXPERIENCE WITH FORMER AND RUNNING PROJECTS ON THE REMEDIAL MEASURES OF CRITICAL INFRASTRUCTURE IN CASE OF SERIOUS DAMAGES OF ELECTRICITY TRANSMISSION GRID*

Ivan Beneš held Master of Science degree in power engineering from the Czech Technical University (CTU), and held the post-gradual courses on the Faculty of Nuclear Science and Physical Engineering of CTU, and on the University of Economics, Prague. He has more than 40 years of experience in the energy engineering, economy and crisis management. From 1971 to 1990 he worked in Energoprojekt Praha. In 1992 he has established CityPlan Ltd. (nowadays AF-CITYPLAN), and has acted 20 years as its CEO and Executive Head. He was a co-founder of the Czech Association of Energy Economics (CZAAE), which is an affiliate of IAEE. In March 2008 in Brussels he was elected by a head of the topical sub-group WG2.2 Distributed Network Security (in the framework of the ESRIWG2 Security of Critical Infrastructure). The goal of ESRIWG2 (European Security Research and Innovation Forum) is to facilitate the dialogue between the private and public sector, which is necessary to increase the safety of infrastructure and overcome possible crises. Currently he is vice-chairman of Czech National Committee for Disaster Reduction and he is dealing with the security research in the field of critical infrastructure, energy economics and the impacts of energy use on a sustainable development.



*POLITICAL, SOCIAL AND ECONOMIC DIMENSION OF THE THREATS TO CRITICAL INFRASTRUCTURE AND DISCUSSION OF THE POSSIBLE PROTECTION MEASURES*

**Radovan GEIST** political analyst & publisher of euractiv.sk, Bratislava

Radovan Geist held Master degree (2001) in the International Relations and Diplomacy, at the Faculty of Political Science and International Relations, Matej Belo University, Banská Bystrica. After graduation he was research fellow (2001/2002) at the Jawaharlal Nehru University in New Delhi, India, and further he reached the PhD (2006) in the Political Theory at the Institute of Political Science, Slovak Academy of Science. Working in the media since 2002, in 2003 he co-founded online policy portal EurActiv.sk; till now acting as Chief-Editor. Since 2006 he is lecturing at the Department of Political Science at the Faculty of Philosophy, Comenius University in Bratislava.



**Matúš MIŠÍK** research fellow, Department of Political Science, Comenius University, Bratislava

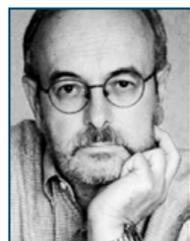
Matúš Mišík graduated from the Faculty of Arts at Comenius the Philosopher University in Nitra in 2007 and received PhD at Department of Political Science at Comenius University in Bratislava in 2011 where he currently works. During his studies he was on a study and research stays at University of Agder in Norway (2006), University of Helsinki in Finland (2009), Aston University in Great Britain (2011) and Vienna University in Austria (2012). He regularly takes part on international and domestic conferences, has extensive experiences with empirical research and publishes in scholarly journals as well as in Slovak daily newspapers. He is currently finishing a book on energy policy in Central Europe.

*DURING THE DISCUSSION THE RESULTS OF STUDENT'S "THINK-TANK" WORK BASED ON THE TOPIC OF SESSION WERE PRESENTED*



**Ľuboš TOMÍK** Congress Chairman, CESys s.r.o.

Director of consulting company CESys Ltd. working in the field of energy. After graduating ČVUT, Faculty of Engineering with specialization on nuclear energy he worked in SE, a.s. During establishing of Nuclear Regulatory Authority of the Slovak Republic he worked in the field of probabilistic safety assessment. He gained experience in abroad in number of industry and energy companies. During last years he worked as manager in foreign IT companies solving the opening and deregulation of Slovak energy market. During the period of 2002 – 6 he was managing director of CENS (Centre for Nuclear Safety), international company working on the region of Central and Eastern Europe. Regarding the SE, a.s., privatization he is author and co-author of various studies performing energy market scenario modeling, i.e. Feasibility Study on NPP Mochovce 3 and 4 Completion for Ministry of Economy of the Slovak Republic.



**Jiří MAREK** Congress Vice-Chairman, JMM consulting

He is the consultant in the field of power industry and is the Executive Head of JMM Consulting, Ltd. – a company focused on advisory services and organization of professional activities. After graduating from the Czech Technical University, Faculty of Technical and Nuclear Physics, he worked in research; he has been working in the power industry field since 1974 (until 1996 in ČEZ). For the last eighteen years, he was the advisor of the Minister of Industry and Trade, Chairman and Vice-Chairman of the Supervisory Board of ČEZ, a member of supervisory boards in several energy distribution companies, and an advisor of Deputy Ministers of Finance. In these positions, he was dealing with the reorganization of state administration in power industry, the development of state energy policy, the establishment of the State Office for Nuclear Safety and with the preparation of the privatization of Czech power industry. He is occupied by publication activities, mainly in the field of nuclear power industry and has wide experience in organizing of international and specialized professional conferences and meetings. His positions are quoted on TV, radio and in economic periodicals.



**František PECHO** moderator, Director of Slovak Dispatch Centre, SEPS plc. (Slovak Transmission Grid Operator), Bratislava

After graduating the Slovak University of Technology, Faculty of Electrical Engineering he started to work in SEP, š.p., later in ZSE, a.s. and SE, a.s. Since 1991 he was preparing the project Datagyr C500 – the system for long-distance data collection from electrometers. After system completion he managed its operation. He worked also in international committees and took part on connecting of Slovak transmission grid to European grid. After the institutionalizing of the transmission grid operator (SEPS Company) in 2001 he worked on position of managing director for investments, later for IT and telecommunications; he managed a Slovak dispatch centre and operation; at the same time he was Member of the Board of Directors. He took part on all important Company projects from the beginning till October 2006. Leaving the SEPS Company, he provided consultancy services in OKOnet, a.s. From 2007 he worked as production manager at energy company Liv Elektra, Inc. and as a Member of Board of Bioenergetická spoločnosť, Inc., which dealt with the building of RES. In 2010 he was director of development at ALTERENERGO Inc., company building the renewable energy sources. Since November 2010 working again in SEPS as managing director for Slovak Energy Dispatch Centre.

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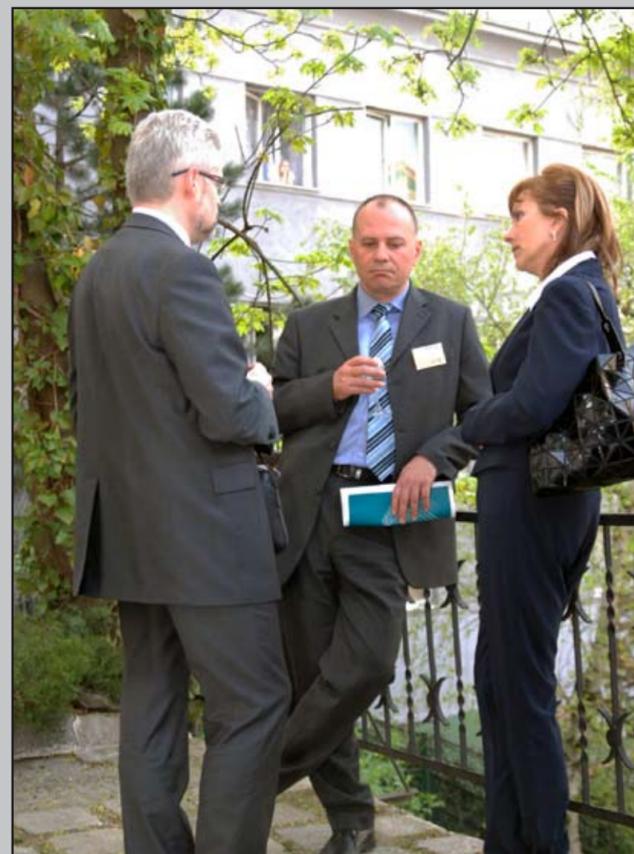
























## Zámocká Street Pálffy Palace



**W**hen we are talking about Zámocká Street, we shouldn't forget that up to now there is a torso of the Pálffy Palace summer wing still having significant artistic, historical and architectural values.

According to available historical sources the Pálffy Palace in the extramural settlement was built in time of Bratislava castle reconstruction, which was decided on the basis of a special act in 1635 by the Ugrian Concilium. This enables to Pavol Pálffy, a leader of the castle reconstruction, to build a large palace on the so called Schlosgrund. In order to assure a better building material supply to the building site, he opened a service road, which became later Zámocká Street. This street was then settled by Jewish settlers coming to the town from former manors of Mikuláš Pálffy.

In 1870 the town based on the deed of donation became the owner of the Palace and built up here artillery casern, orphanage and social flats for poor people. After 1900 the Palace complex was gradually cleansed and on its place a college on Svoradova Street and a contemporary primary school Palisády were built. In 1985 the preserved part of the Palace – the summer wing – was placed on the register of listed buildings.

(Young Wolfgang Amadeus Mozart during his visit of Bratislava had a concert exactly in Pálffy Palace under the castle hill and not at Ventúrska Street, like a memorial plaque is incorrectly informing.)

source: [http://www.bratislavskenoviny.sk/najnovsie-spravy-z-bratislavy/obnova-mesta/podari-sa-zachranit-torzo-palffyho-palaca.html?page\\_id=12879](http://www.bratislavskenoviny.sk/najnovsie-spravy-z-bratislavy/obnova-mesta/podari-sa-zachranit-torzo-palffyho-palaca.html?page_id=12879)