



CROATIAN GAS ASSOCIATION-CGA



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22nd INTERNATIONAL SCIENTIFIC MEETING OF GAS EXPERTS
Opatija, Croatia 02-04 May, 2007
Grand Hotel Adriatic – Congress Centre

P R O G R A M M E

Supported by Scientific Institutions:

Croatian Ministry of Science, Education and Sports
Faculty of Mining, Geology and Petroleum –Zagreb, Croatia
University of Maribor, Slovenia
Energy Institute “H. Požar”, Zagreb, Croatia

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PROGRAMME

Tuesday, 01 May 2007- p.m.

17⁰⁰ - 22⁰⁰
12⁰⁰ - 22⁰⁰
20³⁰ - 22³⁰

Registration of participants

Arranging of exhibition area

Welcome party hosted by : CROATIAN GAS ASSOCIATION

Grand Hotel Adriatic

All participants of the Meeting are invited

Wednesday, 02 May 2007 - a.m.

007⁰⁰ - 09⁰⁰

Registration of participants

**Coordinators: Prof.D.Sc. Miljenko Šunic-CGA
Andela Saraden**

09⁰⁰ - 10²⁰ **Opening Ceremony**

Welcome Add.: **Organizer**

Welcome Add.: **Guests**

Welcome Add.: **Plinacro d.o.o.**

Welcome Add.: **Representative of the producers of gas equipment**

Welcome Add.: **Viessmann d.o.o. Croatia**

Welcome Add.: **Vaillant GmbH, Germany**

Musical performance: **Prof. Kristina Bjelopavlovic**

Energetics and media-Goran Milic-Croatian Radiotelevision

Session 1.

GAS SUPPLY

DIVERSIFICATION – Condition for secure supply

**Coordinators: Prof.D.Sc. Miljenko Šunic-CGA
Andela Saraden**

10²⁰- 11¹⁵ **Grand Congress Hall**

- **European natural gas market: energy hubs – factors of spot market and elements of regional and integrated gas markets**
DSc. Eraldo Banovac, Darko Pavlovic, Nikola Vištica, Hrvoje Brlecic,
Croatian Energy Regulatory Agency, **CERA- Croatia**
- **Adria LNG-The LNG Terminal in the Adriatic sea for supply security**
Christoph Lewisch, Alfred Redlich,
MD of Adria LNG Comp., **OMV Gas International GmbH, Austria**
- **LNG Program, Key Factor for Development of New Technologies**
George Juraj Puhlovich, PE, dipl.ing.,
Intercontinental Technology & Commerce, Inc. **(ITC), USA**

11¹⁵-11⁴⁵ **Refreshment Break**

Session 2. INVITED LECTURES

Coordinators: Prof.DSc. Miljenko Šunic, CGA
Andela Saraden

11⁴⁵-12⁰⁵ Contribution to the more efficacious application of concession model in the gasification of Croatia, 10 years after

DSc. Bakir Krajina- **Montmontaža d.d., Zagreb,**
Željko Darmopil, -Montcogim-Plinara d.o.o. Sv. Nedjelja, **Croatia**

12⁰⁵-12²⁵ **Development of Residential PEFC Co-generation System**

Kenji Maeda, **Tokyo Gas Co., Ltd, Japan**

12²⁵-13¹⁰ **ROUND TABLE DIOKI d.d.**

LNG Terminal at DINA Site – A Chance for Further Development of Croatian Petrochemistry and for Economic Growth of and Energy Supply to Krk and Croatia

13¹⁵-13⁴⁵ **PRESS CONFERENCE** (Grand Congress Hall)

13¹⁰-16⁰⁰ **LUNCH BREAK**

16⁰⁰-16⁴⁵ Poster Session Opening

Camelia Hall 2

1.	DSc. Helena Božic, EI "Hrvoje Požar" Zagreb, Croatia Natural gas subsystem model as part of the integrated Croatian energy system model
2.	Marko Križanec, Energo d.o.o., Croatia SCADA system with Gas optimization in Energo d.o.o.
3.	Suat Bumin, Bahar Ozyoruk Energy Market Regulatory Authority-Turkey Overview Liquefied Petroleum Gases Markets in Turkey
4.	Eduard Vivoda, ELTEH" d.o.o. Rijeka, Croatia Organization issues for distribution systems of natural gas at Opatia's Riviera
5.	Robert Jagodic, GISDATA d.o.o. Zagreb GIS technology enabling build up and operation of gas pipeline systems
6.	Berislav Pavlovic, Hrvoje Kozmar, GPZ –Zagreb, FSB Zagreb Improvements on facilities for calibrating working standards for gas flow in Zagreb Gas-works
7.	PhD. Veysel Türkel, Kemal Ocal, Numan Aksoy; Kuddusi Atalay- IGDAS TURKEY Offshore pipeline applications and engineering approach for supply to Princess Islands in Istanbul
8.	Milan Puhar, I. M. D. Engineering LNG terminal- South Pars Field
9.	Mislav Sentic, INA d.d. Gas absorption chillers technology
10.	Biljana Curcic, JP Srbijagas Harmonization of the national with the european and international regulatory rules in the field of natural gas

11.	Zlatko Belinic, Mario Fusari, Branko Lukacevic, STSI d.o.o., Ghizzoni,Ltd., IT Italija, TPK Zavod, Zagreb Gas pipeline Pula – Karlovac crossing over Ucka
12.	Ph.D.Svetlana Kamaeva, V. Goroshevskiy, Igor Kolesnikov,Transkor-K Magnetic tomography is a new method of non -contact inspection of base metal and weld joints of pipelines
13.	Duro Tunjic, Milan Kljajin, Luka Carapovic Implementation of ISO 9001 requirements at design and manufacture of gas installations
14.	Branislava Zubic, PSEMR Vojvodina Natural gas in The Autonomous Province of Vojvodina

16⁴⁵-17⁰⁰ Refreshment Break

Session 3. GAS UTILIZATION

Coordinators: MSc. Davor Matic, **OMV Gas Adria Ltd. Zagreb**
Zoran Dojcinovic, **PROplin d.o.o.**, Zagreb

17⁰⁰-18⁰⁰ Grand Congress Hall

- Heat units process redesign, tehcnical solutions and results analyses analyses
MSc. Dalibor Pudic, Dalibor Bukvic, **Brod plin d.o.o.**, Slavonski Brod, Croatia
- New cogeneration plant CGS Molve 2 – TEA 4 NE
MSc. Mario Peric, Ivan Vulic, Kristina Glavaš, **Koncar Inženjering**, prof.dr..sc.
Drago Ban, FER Zagreb, Mijo Sobota, Marko Lujic, Ivica Mader, INA d.d., SD
Naftaplin, Zagreb, Croatia
- Work analysis of microcogeneration facility at Termoplin d.d. Varaždin
Tomislav Bencic, Damir Pavišić, Davor Horvat-**Termoplin d.d.**
Varaždin, Croatia
- **Usage infrared gas heaters in an industrial Process**
MSc. Luka Carapovic, **Energo Projekt d.o.o.**, Slavonski Brod, Croatia

18⁰⁰-18⁴⁵Grand Congress Hall

- Dynamics development of auto-gas in Republic of Croatia in relation to European states
Zoran Dojcinovic, **PROplin d.o.o.**, Zagreb
- **IGU-NGV Group report: results, findings an future activities**
MSc.Davor Matic, **OMV Gas Adria Ltd.** Zagreb
- Natural Gas For Vehicles
George Juraj Puhlovich, PE, dipl.ing., **Intercontinental Technology & Commerce,**
Inc.(ITC) USA

18⁴⁵-19¹⁵ DISCUSSION -Session 3

20³⁰- 22³⁰ Party hosted by: **VIESSMANN d.o.o. Croatia**

Hotel ADMIRAL, **Opatija**
All participants of the Meeting are invited

Thursday, 03 May 2007- a.m.

Session 4. PROJECT SOLUTIONS IN GAS INDUSTRY

9⁰⁰-10²⁰ Grand Congress Hall

Coordinators: Vladimir Đurovic, **Plinacro d.o.o.**, Zagreb
Zvonko Mrcela, **INAgip d.o.o** Zagreb

- **Annamaria gas field development**
Zvonko Mrcela, Želimir Šikonja, **INAgip d.o.o** Zagreb
- **Bilding of new gaspipes in Croatia**
Vladimir Đurovic, **Plinacro d.o.o.**, Zagreb
- **Line-break stations functioning as safety control of the gas transmission system**
Branko Radošević, Zoran Bulic, Vaclav Hlavaty, **Plinacro d.o.o.** Zagreb
- **Gas implementation projects based on ESCO model**
Robert Goricki, Hrvoje Hucika, Davor Josipovic- **HEP-ESCO d.o.o.**
- **An Heuristic Approach for optimal location of Gas Supply Units in Transportation System**
Teresa Nogueira, Zita Vale, - **GECAD Porto, Portugal,**
Rui Mendes- **EGP, Porto, Portugal**
Jose C. Cardoso, **CETAV, -Vila Real, Portugal**

10²⁰-10⁵⁰ Refreshment Break

10⁵⁰-11⁰⁵ Three dimensional geodetic study of alternative technical solutions of the future main gas pipeline route **BOSILJEVO-SPLIT DN 500/75** in the Krka- canyon area
Ivana Marjanovic, **Plinacro d.o.o.** Zagreb

11⁰⁵ 11³⁰ **DISCUSSION-Sessions 4**

11³⁰-12¹⁵ **ROUND TABLE**

iMETER B.V. Nizozemska,

Procesna oprema d.o.o. Zagreb

Innovative Turbine Meter Tehnology within the Framework of MID, PED, EN Directives and OIML

12²⁰-13²⁰ **POSTER SESSION,**
Camelia Hall 2-continuing

13³⁰-14⁰⁰ **PRESS CONFERENCE** (Camellia Hall 1)

13²⁰-16⁰⁰ **LUNCH BREAK**

PROJECT SOLUTIONS IN GAS INDUSTRY -

Grand Congress Hall_continuing

16⁰⁰-16⁴⁵ **ROUND TABLE** **STSI d.o.o. Zagreb**
NEW TECHNOLOGIES- Infrared camera (GAS FIND IR) for gas leak detection

16⁴⁵-17⁰⁰ **Engineering of a local supervision and control system on an industrial level**
Boris Br estovec, MSc. Zdravko Oklopcic-**Koncar inženjering**,
Tvrtko Begovic, Plinacro d.o.o Zagreb

17⁰⁰-17¹⁵ Usage of GIS system in maintenance and reconstruction of gas networks
Damir Pavišić, Ivica Barbir, Davor Horvat, Dragan Podvezanec-
Termoplin d.d. Varaždin, Croatia

17¹⁵-17⁴⁵ **Refreshment Break**

17⁴⁵-18⁰⁰ Construction of the main gas pipeline Lucko – Ivanja Reka
DN 700/75 and connection on new constructed gas pipeline system
Goran Roncevic, Daniel Mikulek, **Plinacro d.o.o.** Zagreb

18⁰⁰-18³⁰ **DISCUSSION- Sessions 4**

18³⁰-19¹⁵ **ROUND TABLE** **PA-EL d.o.o.**
Cathodic protection of the factory insulated pipelines

20³⁰-22³⁰ Party hosted by: **PLINACRO d.o.o.** Zagreb
Hotel MILENIJ, **Opatija**
All participants of the Meeting are invited

Friday, 04 May 2007-a.m.

Session 5. GAS MEASUREMENT ISSUES

Grand Congress Hall

Coordinators: MSc. Zdravko Oklopcic, **Koncar-KET**, Zagreb

MSc. Jurij Fašalek - **Geoplin plinovodi d.o.o.** Ljubljana

9⁰⁰-9⁴⁵ **ROUND TABLE** **Medimurje IPC d.d.**

Remote readout of water and gas meters with alarm function and project management;
Pilot project results"

9⁴⁵- 10⁰⁰ Gas measurement on gas field PALMYRA, Syria
MSc. Zdravko Oklopcic, Goran Mušicki-**Koncar-KET**, Zagreb

10⁰⁰- 10¹⁵ **Calibration facilities in laboratory for gas flow measurement in Zagreb Gas-works**
Berislav Pavlovic, - **Gradska plinara Zagreb**,
Hrvoje Kozmar - FSB Zagreb

10¹⁵-10³⁵ Data acquisition of natural gas consumption using GRPS communication
Peter Kobal-**Genera Lynx d.o.o.**, Ljubljana,
MSc. Jurij Fašalek-Geoplin plinovodi d.o.o. Ljubljana

10³⁵-11⁰⁵ **Refreshment Break**

Session 6. LEGAL AND TECHNICAL REGULATIONS

Grand Congress Hall

page. 6/7

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* The minor deviations from the scheduled program are possible!

Coordinators: Prof.DSc. Miljenko Šunic, CGA
Andela Saraden

- 11⁰⁵-11²⁰** New Natural Gas Market Act
Boris Makšijan, **MINGORP**
- 11²⁰-11³⁵** **Technical Rules for Gas based on DVGW Regulations**
MSc. Semin Petrovic, Hajdina Škufca- **IGT, Sarajevo, BiH**
Živojin Knežević, JP Srbijagas, Beograd, Srbija
- 11³⁵-11⁵⁰** Certification of conformity of gas appliances with essential requirements of Regulations on gas appliances
Zorislav Lukic, **Koncar**-kucanski aparati d.o.o. Zagreb
- 11⁵⁰-12⁰⁵** Normisation in area of gas equipment: measuring and maintaining
Tomislav Grizelj-**GRIZELJ d.d.**, Sarajevo, **BiH**
- 12⁰⁵-12²⁰** Principle and methodology to determinate connection charges to gas transport and distribution network
DSc.Mico Klepo- Croatian Energy Regulatory Agency, CERA- **Croatia**
- 12²⁰-12³⁵** **Draft of the Procedure for Emergency Action Plans in Environmental Protection in Natural Gas Transportation Systems for PLINACRO d.o.o. with Special Emphasis on the Protection and Rescue Act (NN 174/04)**
D.S. Krnjak, Ž. Radalj, I. Aurer-Jezercic – **ZIRS**-Zavod za istraživanje i razvoj sigurnosti, Zagreb,
D. Crnjak- Plinacro d.o.o.Zagreb
- 12³⁵-12⁵⁰** **HSUP-P.....Technical rules for gas pressure regulation up to 5 bar for residential and commercial use**
Fikret Nasic, Gradska plinara Zagreb, Srecko Ezgeta, Elektrometal d.d. Bjelovar
- 12⁵⁰-13¹⁰** **DISCUSSION- Sessions 5-6**
- 13¹⁰-13²⁰ **Declaring a winner of the competition for the best Gas Equipment Exhibitor**
- 13²⁰-13³⁰ **CGA President's Closing Speech**
- 13⁴⁰-14⁰⁰ **PRESS CONFERENCE** (Camellia 1 Hall)

REMARKS:

- **All the papers (poster and oral session) are printed in the Proceedings of the Meeting**
- **The presentations in Grand Congress Hall are translated from Croatian into English and vice versa**
- **All the authors are kindly asked to test equipment 30 minutes before beginning of thematic block in which their paper is included**