

7. International Conference on Compressors and Coolants

COMPRESSORS 2009

**Joint conference of IIR Commissions
B2 and B1 with E1 and E2**



Papiernička - Smolenice - Slovak Republic

Call for papers

www.isternet.sk/szchkt/

Organized by

International Institute of Refrigeration
Slovak Association for Refrigeration and Air-conditioning
Technology
Slovak National Committee for Cooperation with IIR
Slovak Technical University, Bratislava
Embraco Slovakia, s.r.o. Spišská Nová Ves
Danfoss Compressors, s.r.o. Zlaté Moravce

Under the auspices of

Ministry of Environment, Bratislava, Slovakia



IIR/IIF
International
Institute of
Refrigeration

Papiernička

**Congress
centre**

of Slovak
National
Parliament

**30.9.- 2.10.
2009**

Excursions

**Embraco
Slovakia**

**Danfoss
Compressors**

Main sponsors

**Embraco Slovakia
Danfoss Slovakia
Bock GmbH**

Conference organizing committee

| | |
|-----------------|--|
| Havelský Václav | - Conference president, Technical University, Bratislava |
| Blaha Marián | - Past conference president, specialist on compressors D&R |
| Kočiš Euboslav | - Embraco Europe and Slovakia, head of laboratories |
| Brath Tomáš | - Danfoss Compressors, s.r.o. Zlaté Moravce |
| Tomlein Peter | - Association for Cooling and Air Conditioning Technology |

Scientific Committee

| | |
|---------------------|--|
| Coulomb Didier | - International Institute of Refrigeration, Paris |
| Braun James E. | - University, Purdue |
| Berglöf Klas | - ClimaCheck, Nacka |
| Butrymowicz Dariusz | - Polish Academy of Sciences, Gdansk |
| Deschamps Cesar | - TU Santa Catarina Florianópolis |
| Fahlen Per | - Chalmers University of Technology, Gothenburg |
| Groll A. Eckhard | - School of Mechanical Engineering, Purdue |
| Quack Hans | - University, Dresden |
| Haložan Hermann | - Graz University of Technology |
| Jakobs Rainer | - IZWe.V. Hanover |
| Kaiser Harald | - Bock, Frickenhausen |
| Neksa Peter | - Sintef Energy Research, Trondheim |
| Nielsen Ole Kaarup | - Danfoss Compressors, Zlaté Moravce |
| Ota Josef | - Czech Technical University Prague |
| Pařízek Jiří | - Czech Committee for Cooperation with IIR, Prague |
| Pfeil Volkmar | - Bitzer, Sindelfingen |
| Usov Veniamin A. | - Inertek, Moscow |
| Voznyi Valery | - Vesta, Kiev |
| Zgliczynski Marek | - Embraco Europe and Slovakia Spišská Nová Ves |
| Zhelezny Vitaly | - State Academy of Refrigeration, Odessa |

Also cooperating in the conference

Ministry of the Environment SR, Slovak Trade and Industry Chamber

Conference secretariat

Slovak Association for Refrigeration and Air conditioning Technology, Rovinka

Peter Tomlein

900 41 Rovinka

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Conference program

Conference at the Congress Centre of Slovak National Parliament, from 30 September to 2 October 2009 will be divided into three days:

29.9. – 18.00 *Factory presentation and welcoming glass of wine hotel Metropol, Spišská Nová Ves*

30.9. - 08.00 Visit of compressors production in Spišská Nová Ves

30.9. – 10.00 *Bus to Zlaté Moravce from Spišská Nová Ves,*

30.9. - 12.00 *Bus to Zlaté Moravce from Papiernička*

30.9. - 14.00 Visit of compressors production in Zlaté Moravce

30.9. - 17.00 Opening and plenary lectures at the Castle Topolčianky

30.9. - 19.30 *Welcoming glass of wine, meeting with melodies in the castle. Buses to Papiernička.*

1.10. - 07.00 *Breakfast (swimming pool, sauna and fitness will be opened)*

1.10. - 08.20 Compressors and refrigeration technologies. Sessions of B and E committees

1.10. - 12.00 Lunch and departure at 13.00 to the castle Smolenice

1.10. - 15.00 Inspections and diagnostic on cooling circuits

1.10. - 18.00 *Garden party, wine tasting, social gathering, typical medieval castle program*

2.10. - 07.00 Breakfast (swimming pool, sauna and fitness will be opened)

2.10. - 08.20 Compressors, Coolants and Oils

2.10. - 13.00 Closing of the conference

2.10. - 10.30 *Relax – swimming, sauna, bowling, squash*

2.10. - 13.00 *Lunch, back to home*

Seventh international conference

COMPRESSORS' 2009

In the recent years development has sped up and construction, materials and technology have improved in the manufacture of low output compressors. The catalyst of the explosion in new manufacturing of construction and technology is the dynamic development process of coolants and oils. A large space has been given for discussions among specialists from research, development and manufacture in the areas of alternative coolants, their blends, the closely watched usage of pure hydrocarbons, particularly for domestic refrigeration, further changing of thinking as regards the evaluation of compressors on the principle of the TEWI factor. The nowadays efforts are focused on electrical energy consumption and applications of natural coolants. Our international conference aims to be a meeting place for the knowledge of specialists from the west and east with the goal of looking at the future through the choppy sea of information and new results in science, research and production.

Compressors production in Slovakia

Calex a.s. has been manufacturing their own low-velocity hermetic compressors since 1954. In 1968 a new generation of bi-polar compressors developed at the Calnex plant were produced, placing the company among the first European firms in such manufacture. The end of the 1970s saw an attempt to develop a home variation of shaft compressors. In the year 1992 a compressor licence was purchased from Samsung Electronics, which allowed production of five types of compressors with a cooling performance from 70 up to 162 W.

The Embraco Slovakia started from 1998 in Spišská Nová Ves a new production of higher performance compressor lines for white technology and commercial cooling. Nearly 4 million pieces are produced annually.

Since the year 2002 the factory Calnex was bought by Danfoss Compressors, and new era of compressors production has started in Zlaté Moravce.

BACK TO

6. International Conference

COMPRESSORS' 2006



This event held in the Congress Center Papiernička, Castle Red Stone and Castle Smolenice nearby Bratislava, Slovakia on September 2006, attracted 170 participants from 17 countries. 57 papers and 10 conference exhibitors were presented at this event organized by IIR and Slovak Association for Cooling and Air-Conditioning Technology. Main sponsors were Embraco Slovakia, Danfoss Compressors and company Bock. Conference has its own symbol compressor's bell.

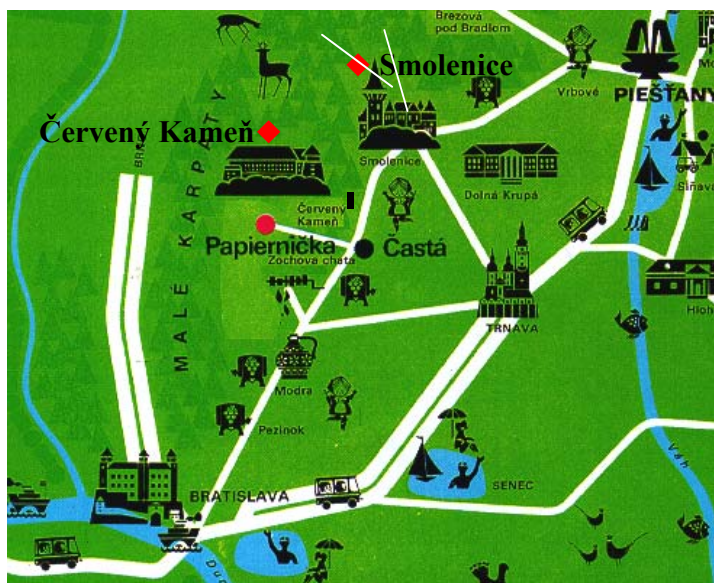
Didier Coulomb, Director of the IIR, gave a welcoming speech during the opening. Proceedings were available before of the conference. First day a welcoming glass of wine was held at the castle Red Stone with Fujara's show and the second day garden party was held on the courts of the castle Smolenice with typical medieval castle program and dancing school. Program was finished by firework.

COMPRESSORS '2009

Congress Centre Slovak National Parliament

CONFERENCE 30.9. - 2.10. 2009, PAPIERNIČKA

Free program: The Congress Centre of Slovak National Parliament in Papiernička close to the historical town Trnava about 40 km from Bratislava offers all the services for scientific congresses, the congress halls with video system with seating for 130 participants. It's attractiveness is heightened by its situation in beautiful natural surroundings and also its proximity to interesting sites in the Low Carpathians, cave Driny, town Trnava, Bratislava, the largest castle in the middle Europe Červený Kameň (*Red Stone*), castle Smolenice where previous conferences in the years 2001, 2004 and 2006 were held and other tourist centers on the wine road from Smolenice to Bratislava.



It is possible to fly to Vienna, Bratislava, Košice or Poprad and travel by taxi to the Congress Centre in Papiernička or to Spišská Nová Ves. There are rail links from Prague or Wien to Bratislava and Trnava Smolenice. Buses run from Bratislava and either from Trnava to Častá and Smolenice.

Social program: Visit of Compressor production premises of Embraco Slovakia in Spišská Nová Ves, and Danfoss Compressors in Zlaté Moravce with expert commentary, on September 30, 2009 since 8 a.m. will be possible. Registration at the reception desk of Congress Centre of Slovak National Parliament in Papiernička will be on 30.9.2009 from 11.00 o'clock. Within the conference program, relaxation, social gatherings for participants and presenters in the castle Red Stone and Smolenice with a typical Slovak and Castle program will be organized. Other social entertainment and sport will also be available.

Timelines

Abstracts of almanac contributions are to be sent by the end of January, 2009 to:

Slovak Association for Refrigeration and Air-Conditioning Technology

Conference – Compressors' 2009

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