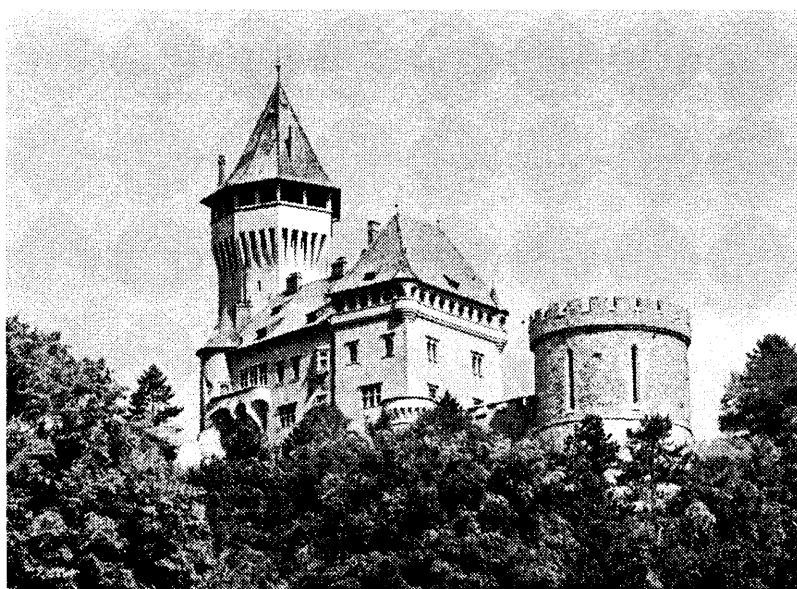


BOOK OF ABSTRACTS

4th PANNONIAN INTERNATIONAL SYMPOSIUM ON CATALYSIS



Smolenice Castle, Slovak Republic
June 11-14, 1998

Organized by the

Faculty of Chemical Technology
Slovak University of Technology

Catalytic Group of the Slovak Society of Industrial Chemistry

Slovak Republic

**The meeting represents a continuation
of the preceding three Pannonian Symposia
on Heterogeneous Catalysis at Burg Schlaining,
Austria in 1990, at Valtice, Czech Republic in 1993
and at Velém, Hungary in 1995**

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Thursday, June 11

- 10.00–13.00 Registration
- 13.00–14.30 Lunch
- 14.50–15.00 Opening of Conference
- 15.00–15.40 **Plenary lecture 1: J. Haber (Cracow, Poland)**
„Catalysis at the Turn of Century – a New Paradigm“
- 15.40–16.00 **O1: A. Erdöhelyi, R. Németh, K. Fodor and F. Solymosi (Szeged, Hungary)**
„Partial Oxidation of Methane on Supported Alkali Molybdate Catalysts“
- 16.00–16.20 **O2: K. Nowinska, S. Kowalak, M. Sopa, M. Swiecicka, G. Emig, E. Klemm and A. Reitzmann (Poznan, Poland and Erlangen, Germany)**
„Benzene to Phenol Hydroxylation over Iron Exchanged ZSM-5 Zeolites“
- 16.20–16.50 Coffee Break
- 16.50–17.10 **O3: J. Datka, B. Gil, J. Zlamaniec, J. Fraissard, P. Massiani and P. Batamack (Cracow, Poland and Paris, France)**
„Acid Properties of Steamed HY Zeolites“
- 17.10–17.30 **O4: A. Smiešková, P. Hudec, Z. Židek and E. Rojasová (Bratislava, Slovak Republic)**
„Conversion of Gas Oil on the Thermally and Chemically Dealuminated Y Zeolite“
- 17.30–17.50 **O5: A. Zikánová, M. Kočířik, J. Kudová, J. Dubský, V. Hulínský, P. Hudec, A. Smiešková and M. Derewinski (Prague, Czech Republic; Bratislava, Slovak Republic and Cracow, Poland)**
„Molecular Transport and Immobilization/Mobilization Phenomena in the Oligomerization of Ethylene over HZSM-5 Catalysts“
- 17.50–18.10 **O6: C. Stolz and R. Kramer (Innsbruck, Austria)**
„Mechanistic Studies of Solid-State Exchange of Palladium in zeolite X“
- 18.10 Dinner, Welcome Party

Friday, June 12

8.00–9.00	Breakfast
9.00–9.40	Plenary lecture 2: F. Figueras (Lyon, France) „Catalysis by Solid Bases“
9.40–10.00	O7: T. Egyházy and J. Kovács (Veszprém, Hungary) „An Investigation on Selectivity in SCR Process“
10.00–10.20	O8: T. Machej, H. Sadowska, J. Janas and L. Matachowski (Cracow, Poland) „Mixed Oxide Catalyst for Combustion of Nitrogen Containing Compounds“
10.20–10.40	O9: I. Kiriczi and I. Pálinkó (Szeged, Hungary) „On the State of Zeolite Surface after the Adsorption of Various Hydrocarbons“
10.40–11.10	Coffe
11.10–11.50	Plenary lecture 3: L. Guzzi (Budapest, Hungary) „Nano-Size Particles in Catalysis“
11.50–12.10	O10: Ch. Lembacher and U. Schubert (Wien, Austria) „Sol-gel Processing of Tethered Platinum Complexes for the Synthesis of Platinum on Silica Nano-composites“
12.10–12.30	O11: K. Hernadi, A. Siska, A. Fonseca, I. Kiriczi and J. B. Nagy (Szeged, Hungary and Namur, Belgium) „Catalytic Synthesis of Graphitics Carbon Nanotubes“
12.30–12.50	O12: K. Kleestorfer, H. Vinek and A. Jentys (Wien, Austria) „Structural Simulation of Mesoporous Molecular Sieves“
12.50–13.10	O13: W. Schiesser, H. Vinek and A. Jentys (Wien, Austria) „Catalytic Reduction of NO over Transition Metal Containing Mesoporous Molecular Sieves with MCM-41 Structure“
13.10–15.00	Lunch
15.00–15.40	Plenary lecture 4: A. Kogelbauer (Zürich, Switzerland) „Solid Acids as Sulfuric Acid Substitute in the Nitration of Toluene“
15.40–16.00	O14: S. Lunzer and R. Kramer (Innsbruck, Austria) „C-O Bond Activation on Platinum/Titania catalysts“
16.00–16.20	O15: A. Staško, V. Brezová, A. Blažková and M. Čeppan (Bratislava, Slovak Republic) „Photocatalytic System TiO ₂ . Applications in the Oxidation of Pollutants“
16.20–19.00	Poster section
19.00	Barbecue

Saturday, June 13

8.00–9.00	Breakfast
9.00–9.40	Plenary lecture 5: M. Zdražil (Prague, Czech Republic) <i>„Preparation of Molybdenum Based Catalysts of Monolayer Type by New Solvent Assisted Spreading Method“</i>
9.40–10.00	O16: E. Michaličková and M. Kučera (Bratislava, Slovak Republic) <i>„Denitrification and Desulfurization of Modeling Mixtures on Heterogeneous Catalysts“</i>
10.00–10.20	O17: T. Koltai and P. Tétényi (Budapest, Hungary) <i>„Sulfure Uptake, Exchange and HDS Activity of Mo- and W-based Catalyst“</i>
10.20–10.40	O18: P. Hudec, A. Smiešková, Z. Židek, P. Daučík, J. Ambro and L. Potreský (Bratislava, Slovak Republic) <i>„Improvement of the Color Stability of Kerosene Fraction from Hydrocracking of Vacuum Residues“</i>
10.40–11.10	Coffee
11.10–11.50	Plenary lecture 6: M. Králik, M. Hronec, D. Mravec, M. Kučera and V. Macho (Bratislava, Slovak Republic) <i>„Selective Hydrogenation and Hydrogenolysis“</i>
11.50–12.10	O19: P. Kukula and L. Červený (Prague, Czech Republic) <i>„Catalytic Hydrogenation of trans,trans-2,4-Hexadiene-1-ol“</i>
12.10–12.30	O20: W. Reichel and K. Hayek (Innsbruck, Austria) <i>„Reaction of CO and Hydrogen on Rh and Oxide Covered Rh in "UHV High Pressure Cell“</i>
12.30–12.50	O21: G. D. Pirngruber, K. Seshan and J. A. Lercher (Enschede, Netherlands) <i>„Dehydroisomerization of n-butane over Bifunctional Catalysts“</i>
13.00–15.00	Lunch
15.00	Excursion
19.00	Banquet

Sunday, June 14

8.00–9.00	Breakfast
9.00–9.40	Plenary lecture 7: L. Forni (Milano, Italy) <i>„Catalytic Breakthroughs in the Synthesis of Fine Chemicals“</i>
9.40–10.00	O22: G. Mink, A. Auroux and A. Gervasini (Budapest, Hungary and Villeurbanne, France) <i>„Reaction of CO₂ with CS₂ to form Carbonyl Sulphide over Acidic, Basic and Amfoteric Oxides“</i>
10.00–10.20	O23: M. Štolcová, M. Hronec and T. Liptaj (Bratislava, Slovak Republic) <i>„Reaction of 2-Mercaptobenzthiazole and Alkylamines in Acetone“</i>
10.20–10.40	O24: S. Witkowski, K. Dyrek and Z. Sojka (Cracow, Poland) <i>„Alumina Pillared Clays; Structural Limitations of Activity“</i>
10.40–11.10	Cofee Break
11.10–11.30	O25: Z. Kaszkur and J. Pielaszek (Warszawa, Poland) <i>„Dynamic Studies of Supported Metal Catalysts by X-ray Diffraction“</i>
11.30–11.50	O26: P. Zámosný and Z. Bělohav (Prague, Czech Republic) <i>„Practical Experiences in Kinetic Data Handling“</i>
11.50–12.10	O27: M. Witko, R. Tokarz and K. Hermann (Cracow, Poland and Berlin, Germany) <i>„Quantum-chemical Description of the Electronic Structure of V-O-P System“</i>
12.10	Concluding remarks
12.30	Lunch