

CENTRAL EUROPEAN NMR MEETING

28th NMR VALTICE

(NMR Applications in Chemistry)

Valtice, Czech Republic

April 21st-24th, 2013

28th NMR Valtice Program

SUNDAY APRIL 21, 2013

3:00-6:00 PM REGISTRATION

6:00 PM DINNER

7:15 PM OPENING REMARKS
Radek Marek

**7:20 PM PETR SEDMERA PRIZE AWARDED BY THE CZECH J. M. MARCI
SPECTROSCOPIC SOCIETY**
Viktor Kanický

8:15 PM GET-TOGETHER PARTY

28th NMR Valtice Program

MONDAY APRIL 22, 2013

9:00 AM SESSION 1 – V. SKLENÁŘ, Session Chair

9:00 AM MULTIPLEX ACQUISITION OF PURE PHASE ODD AND EVEN ORDER
MULTIPLE QUANTUM SPECTRA
Maria Theresia Pöschko, Judith Schlagnitweit, Norbert Müller

9:15 AM RIDE (ON VARIAN) OR HOW TO IMPROVE BASELINE IN ²⁹SI NMR
SPECTRA OF WATER GLASSES
J. Schraml, P. Sandor, S. Korec, B. Foller

9:30 AM DOES THE STAGGERED-ROTAMER MODEL DO WHAT WE THINK IT
DOES?
Jürgen M. Schmidt and Frank Löhr

9:45 AM NMR CHARACTERIZATION OF PHASE SEPARATION IN AQUEOUS
SOLUTIONS OF THERMORESPONSIVE HOMOPOLYMERS AND
COPOLYMERS
Jiří Spěváček, Julie Šťastná, Lenka Hanyková

10:00 AM ¹³C NMR STUDY OF CO₂ MOBILITY IN MICROPOROUS METAL-
ORGANIC FRAMEWORK Zn₂(bdc)₂dabco
Mikuláš Pekaš, Sareeya Bureekaew, Rochus Schmid, Jan Lang, Frank
Stallmach

10:15 AM CONFERENCE PHOTO – IN FRONT OF VALTICE CASTLE
Radovan Fiala

10:30 AM BREAK

11:00 AM SESSION 2 – E. KLEINPETER, Session Chair

11:00 AM REACTIVITY OF CN CHELATED ORGANOBORON COMPOUNDS
TOWARDS LITHIUM ANILIDES - FORMATION OF UNEXPECTED
1,2,3-TRISUBSTITUTED 1H-2,1-BENZAZABOROLE.
M. Hejda, A. Lyčka, R. Jambor, A. Růžička, L. Dostál

11:15 AM COORDINATION POLYMERS OF RHODIUM (II) TETRAACETATE WITH
ORGANIC LIGANDS: ¹³C AND ¹⁵N CPMAS NMR SPECTROSCOPY
Arkadiusz Leniak, Jaroslaw Jaźwiński, Bohdan Kamieński

11:30 AM COMPLEXATION OF COMMON BUFFERS WITH CYCLODEXTRINS
Zdeněk Tošner, Jana Svobodová, Eva Tesařová

11:45 AM STRONG INTRAMOLECULAR HYDROGEN BONDS IN
5-NITROSPYRIMIDINES STUDIED BY NMR SPECTROSCOPY
Eliška Procházková, Lucie Čechová, Zlatko Janeba, Martin Dračinský

12:00 INTERPRETATION OF NMR CHEMICAL SHIFTS IN 5-HALO
PYRAZOLOPYRIDINE COMPOUNDS
Cina Foroutan-Nejad, Jan Vicha, Lucie Novosadová, Radek Marek

12:30 LUNCH

2:00 PM SESSION 3 – N. MÜLLER, Session Chair

2:00 PM CONFORMATIONAL ANALYSIS OF SIX-MEMBERED SATURATED
HETEROCYCLIC RING SYSTEMS
Erich Kleinpeter

2:45 PM CONFORMATION OF PYRROLIDINE NUCLEOTIDE ANALOGUES
Radek Pohl, Lenka Poštová Slavětínská, Dominik Rejman

3:00 PM RESIDUAL DIPOLAR COUPLING CONSTANTS AS A POWERFUL TOOL
FOR THE CONFORMATIONAL ANALYSIS OF UNEXPECTED
PRODUCTS OF ACIDIC REARRANGEMENT OF
MONOSPIROTHIACALIX[4]ARENE DERIVATIVE
Lukáš Vrzal, Markéta Šimánová, Pavel Lhoták, Hana Dvořáková

3:15 PM NMR OF NOVEL NATURAL PRODUCTS FROM THE GENUS
PSYCHOTRIA
Lothar Brecker, Johann Schinnerl, Andreas Berger, Ewelina Orłowska, Harald
Greger, Karin Valant-Vetschera

3:30-6:00 PM FREE DISCUSSIONS

6:00 PM REFRESHMENT

**7:00-9:00 PM SCIENTIFIC INSTRUMENTS BRNO EVENING:
VISIT OF “SALON VÍN ČESKÉ REPUBLIKY”**

28th NMR Valtice Program

TUESDAY APRIL 23, 2013

9:30 AM SESSION 4 – J. JAŻWIŃSKI, Session Chair

9:30 AM LC-SPE-NMR/MS STUDY OF 10-DEACETYLBACCATIN III
METHYLATION
Simona Bártová, Marek Kuzma, Helena Pelantová, Alexandr Jegorov

9:45 AM FROM STD-NMR TO ENZYMATIC INFORMATION
Michael Vogl, Regina Kratzer, Bernd Nidetzky, Lothar Brecker

10:00 AM METABONOMICS OF MOUSE MODELS OF OBESITY AND
LIPOATROPHY
Helena Pelantová, Simona Bártová, Blanka Železná, Lenka Maletínská, Marek
Kuzma

10:15 AM 2D FT SPIN NOISE NMR
Norbert Müller, Kousik Chandra, Judith Schlagnitweit, Martin Nausner, Vilko
Smrecki

10:00 AM BREAK

10:30 AM SESSION 5 – A. LYČKA, Session Chair

10:30 AM BRUKER – LATEST DEVELOPMENTS
Pavel Kessler

11:00 AM JEOL LATEST DEVELOPMENTS
Hiroaki Sasakawa

11:20 AM CORTECNET, INNOVATION ACCELERATOR IN LIFE SCIENCES
Jean-Baptiste Higon

11:40 AM LUNCH

1:00 PM CONFERENCE TRIP

7:00 PM DINNER

FREE DISCUSSIONS

28th NMR Valtice Program

WEDNESDAY APRIL 24, 2013

9:00 AM SESSION 6 – R. HRABAL, Session Chair

9:00 AM ASSIGNMENT OF THIRTEEN LYSINE-RICH DODECAPEPTIDES WITH
ALANINE SCREENING
Maria Bräuer, Maria Theresia Pöschko, Kamil Önder, Norbert Müller

9:15 AM ASYMMETRIC BINDING OF THE S100A4 HOMODIMER TO A
DISORDERED MYOSIN TAIL
Andrea Bodor, Gyula Pálffy, Bence Kiss, László Nyitrai

9:30 AM INTERACTION OF THE M-PMV MATRIX PROTEIN WITH CELL
MEMBRANE PHOSPHOLIPIDS
Tomáš Kroupa, Ladislav Bumba, Michal Doležal, Jan Prchal, Richard Hrabal

9:45 AM ADVANCES IN THE NMR ASSIGNMENT OF THE PROTEIN PSBP OF
PHOTOSYSTEM II
Adriana Walnerová, Petr Rathner, Michaela Horníčáková, Kousik Chandra,
Norbert Müller

10:00 AM BREAK

10:30 AM SESSION 7 – D. ŠAMAN, Session Chair

10:30 AM CARBON-13 NMR RELAXATION STUDY OF ESCHERICHIA COLI O91
O-ANTIGEN POLYSACCHARIDE
Mária Šoltésová, Jozef Kowalewski, Goran Widmalm

10:45 AM THE STRUCTURAL ROLE OF THE B24 SITE IN INSULIN
Lenka Žáková, Emília Kletvíková, Martin Lepšík, Christopher J. Watson,
Johan P. Turkenburg, Jiří Jiráček, Andrzej M. Brzozowski, Václav Veverka

11:00 AM JOSEF DADOK PRIZE

11:15 AM CLOSING REMARKS

11:30 AM LUNCH