

ORAL PRESENTATIONS

MONDAY, AUGUST 27

Spectroscopy of surfaces and interfaces – Hall AULA MAGNA

Chairman: James Durig

- 14.50–15.10** G.C. Eder, L. Spoljaric-Lukacic, V.Uhl and Th. Meinschad
CHARACTERISATION OF POLYMER DEGRADATION BY
VIBRATIONAL SPECTROSCOPIC AND CHEMILUMINESCENCE
MEASUREMENTS O-01
- 15.10–15.30** M. Dendisova, M. Oncak, P. Matejka
STUDY OF RIBOFLAVIN ORIENTATION ON Ag, Au AND Cu
SURFACES USING IN-SITU SERS SPECTROELECTROCHEMISTRY O-02
- 15.30–15.50** V. Bugris, H. Haspel, Á. Kukovecz, Z. Kónya, M. Sipiczki, P. Sipos, I. Pálinkó
REHYDRATION OF DEHYDRATED CaFe-LAYERED DOUBLE
HYDROXIDE FOLLOWED BY THERMOGRAVIMETRY, X-RAY
DIFFRACTOMETRY AND DIELECTRIC RELAXATION
SPECTROSCOPY O-03
- 15.50–16.10** A. Kokaislová, M. Kalhousová, P. Matějka
SURFACE-ENHANCED VIBRATIONAL SPECTROSCOPY OF B-
VITAMINS: WHAT IS THE INFLUENCE OF SUBSTRATE SURFACE
TEMPERATURE? O-04
- 16.10–16.30** K. Csankó, G. Kozma, L. Valkai, Á. Kukovecz, Z. Kónya, P. Sipos, I. Pálinkó
SELF-ASSEMBLING OF 2,3-PHENYL/THIENYL-SUBSTITUTED
ACRYLIC ACIDS OVER POLYCRYSTALLINE GOLD O-05

COFFEE BREAK

Chairman: John Maier

- 17.00–17.20** V. Prokopec, J. Čejková, M. Singh, P. Matějka and F. Štěpánek
USE OF VIBRATIONAL SPECTROSCOPIC TECHNIQUES FOR THE
CHARACTERISATION OF CHEMICAL ROBOTS O-06
- 17.20–17.40** M. Kozanecki, M. Olejniczak
INTERMOLECULAR INTERACTIONS IN POLY(2-(2-
METHOXYETHOXY)ETHYL METHACRYLATE HYDROGELS –
RAMAN SPECTROSCOPY STUDIES O-07
- 17.40–18.00** M. Larraona-Puy, C.S. Sweetenham and I. Notingher
CHARACTERISATION OF THIN SUPPORTED LIPID FILMS BY
SIMULTANEOUS SURFACE ENHANCED RAMAN
SPECTROSCOPY AND ATOMIC FORCE MICROSCOPY O-08
- 18.00–18.20** A. Milani, M. Tommasini, D. Fazzi, A. Lucotti, L. Brambilla and C. Castiglioni
CUMULENIC SP CARBON CHAINS: AN INVESTIGATION BASED
ON VIBRATIONAL SPECTROSCOPY O-09
- 18.20–18.40** Z. Csendes, Cs. Dudás, G. Varga, P. Sipos and I. Pálinkó
SUPEROXIDE DISMUTASE INSPIRED Fe-AMINO ACID
COMPLEXES COVALENTLY GRAFTED ONTO
CHLOROPROPYLATED SILICA GEL-SYNTHESSES, STRUCTURAL
CHARACTERIZATION AND CATALYTIC ACTIVITY O-10

Computational methods for spectroscopy – Hall A1

Chairman: Peter Trommsdorff

- 14.50–15.10** **J. Laane, P. Boopalachandran, E. J. Ocola, H. L. Sheu, N. Craig, and P. Groner**
SPECTRA, STRUCTURES, AND POTENTIAL ENERGY SURFACES OF 1,3-BUTADIENE, PYRIDINES, AND CYCLIC ALCOHOLS O-11
- 15.10–15.30** **S.S. Stavrov**
MÖSSBAUER SPECTROSCOPY AS A PROBE OF THE ELECTRIC FIELD IN DEOXYHEME PROTEINS: THEORETICAL APPROACH O-12
- 15.30–15.50** **C. Quarti, D. Galimberti, A. Milani, B. Civalieri and C. Castiglioni**
IR SPECTROSCOPY OF POLYMERS CRYSTALS FROM FIRST PRINCIPLE CALCULATIONS: POLYMORPHISM IN POLYAMIDES O-13
- 15.50–16.10** **M. Malik, K. Helios, R. Wysokiński, D. Michalska**
PERFORMANCE OF NEW DFT METHODS IN CALCULATIONS OF THE MOLECULAR STRUCTURES AND VIBRATIONAL SPECTRA OF CISPLATIN AND PICOPLATIN O-14
- 16.10–16.30** **J. Saramak, M. Kozanecki**
COMPUTATIONAL STUDIES ON WATER-POLY(VINYLMETYLEETHER) INTERACTIONS O-15

COFFEE BREAK

Chairman: Dwayne Miller

- 17.00–17.20** **T. Ford**
AN AB INITIO STUDY OF THE PROPERTIES OF SOME LITHIUM-BONDED COMPLEXES – COMPARISON WITH THEIR HYDROGEN-BONDED ANALOGUES O-16
- 17.20–17.40** **A. El-Azhary, N. Al-Jallal, N. Al-Badri, K. Al-Farhan, M. Al-Qunaibit and W. Z. Al-Kiali**
CONFORMATIONAL AND VIBRATIONAL ANALYSIS OF 12-THIACROWN-4 AND 18-THIACROWN-6 O-17
- 17.40–18.00** **V. Ivanovski, G. Ivanovski, M.K. Gunde**
MODEL DIELECTRIC FUNCTIONS EXPLAINING EVANS HOLES AND PHONON INTERACTIONS IN THE REFLECTANCE SPECTRA OF MONOCLINIC SINGLE CRYSTALS O-18
- 18.00–18.20** **A.-M. Putz, M.V. Putz**
ASSESSMENT OF DRUG CARRIERS' POTENTIAL FOR IONIC LIQUIDS BASED MESOPOROUS MATERIALS THROUGH OBSERVED FT-IR SPECTROSCOPIC QUANTUM FLUCTUATION O-19
- 18.20–18.40** **J.L. Zafra, R. Andréu, E. Galán, J. Orduna, J. Garín, J.M. Ortiz, J.T. López Navarrete, J. Casado**
INTERPRETATION OF THE RAMAN SPECTRUM OF A STRONGLY ZWITTERIONIC PUSH-PULL DYE BASED ON QUINOIDAL THIAZOLE O-20

Applied spectroscopies – Hall A2

Chairman: *Mischa Bonn*

- 14.50–15.10 B. Beccard**
CONTRIBUTION OF FTIR AND RAMAN MICROSPECTROSCOPY TO DEFAULT ANALYSIS O-21
- 15.10–15.30 S. Blanc, E. Péré, T.K.N. Nguyen, K. Bourhis, C. Vieillescazes**
SPECTROSCOPIC ANALYSIS OF YELLOW LAKES O-22
- 15.30–15.50 S. Cîntă Pînzaru, C. Herman, M. Venter, M. Brailo, B. Glamuzina**
SEAWATER ANIONS, SALINITY AND ORGANIC CONTENT SIMULTANEOUSLY ASSESSED BY SURFACE ENHANCED RAMAN SCATTERING O-23
- 15.50–16.10 E. Péré, S. Blanc, and M. Bueno**
STUDY OF Se COMPLEXATION WITH ORGANIC MATTER BY MOLECULAR SPECTROSCOPY FOR ITS ENVIRONMENTAL IMPACT COMPREHENSION O-24
- 16.10–16.30 C. Coman, L.F. Leopold, O.-D. Rugină, C. Socaciu**
SPECTROSCOPIC CHARACTERISATION AND BIOCOMPATIBILITY OF GOLD NANOPARTICLES OBTAINED BY BIOSYNTHESIS USING *ALLIUM SATIVUM* EXTRACT O-25

COFFEE BREAK

Chairman: *Demetrios Anglos*

- 17.00–17.20 M. Łodziński, J. Prsek, M. Sitarz, M. Kozanecki, P. Filipczak**
MICRO-RAMAN AND MICROINFRARED SPECTROSCOPY STUDIES OF Pb-BEARING ATACAMITE GROUP MINERALS FROM THE POLKOWICE-SIEROSZOWICE COPPER ORE DISTRICT, LOWER SILESIA, SW POLAND O-26
- 17.20–17.40 O.-G. Tudose, D.-O. Dorohoi and I. Balin**
AIR MONITORING IN IASI AREA BY SPECTROSCOPIC TECHNIQUES O-27
- 17.40–18.00 J. Zieba-Palus, A. Michalska**
CHARACTERISATION OF BLUE CAR PAINTS BY THE USE OF RAMAN SPECTROSCOPY FOR CRIMINALISTIC PURPOSES O-28
- 18.00–18.20 G. Zerbi, L. Brambilla, M. Tommasini**
USING RAMAN SPECTROSCOPY FOR THE UNDERSTANDING OF THE COLOURS OF NATURE: ELECTRONIC AND MECHANICAL CONFINEMENT IN POLYCONJUGATED PIGMENTS FROM BIRD'S FEATHERS TO MOLLUSCAN SHELLS O-29
- 18.20–18.40 O. Unsalan, S. Jarmelo and R. Fausto**
MATRIX ISOLATION STUDIES OF TRANS-STILBENE AND CIS-STILBENE O-30

TUESDAY, AUGUST 28

Spectroscopy of biological molecules – Hall AULA MAGNA

Chairman: Juergen Popp

- 14.50–15.10 **L. Bednárová, Š. Gregorová, V. Bauerová, O. Hrušková-Heidingsfeldová, J. Palacký, P. Mojzeš** O-31
RAMAN MICROSPECTROSCOPY OF THE YEAST VACUOLES
- 15.10–15.30 **E. Bulard, M-P. Fontaine-Aupart, H. Dubost, W. Zheng, M-N. Bellon-Fontaine, J-M. Herry, R. Briandet and B. Bourguignon** O-32
IMPACT OF BACTERIAL ADHESION IN COMPETITION WITH PROTEIN ADSORPTION ON GRAFTED CHAINS REVEALED BY SUM FREQUENCY GENERATION (SFG) SPECTROSCOPY AND FLUORESCENCE CONFOCAL MICROSCOPY
- 15.30–15.50 **G. Steiner, A. Stelling, R. Galli, J. Tavkin, K. Geiger, R. Salzer, E. Koch, G. Schackert, M. Kirsch** O-33
INTRA-OPERATIVE APPLICATIONS OF VIBRATIONAL SPECTROSCOPY
- 15.50–16.10 **A. Ghita, F.C. Pascut, V. Sottile and I. Notingher** O-34
CYTOPLASMIC RNA IN UNDIFFERENTIATED NEURAL STEM CELLS: A POTENTIAL LABEL-FREE RAMAN SPECTRAL MARKER FOR ASSESSING THE UNDIFFERENTIATED STATUS
- 16.10–16.30 **G. Güler, R. Gärtner, C. Ziegler, W. Mäntele** O-35
ANALYSIS OF THE MOLECULAR MECHANISMS OF THE ACTIVATION OF THE BETAINE TRANSPORTER BETP FROM CORYNEBACTERIUM GLUTAMICUM BY FT-IR SPECTROSCOPY

New materials – Hall A1

Chairman: Carlo Adamo

- 14.50–15.10 **A. Philippidis, D. Stefanakis, J. Chrysoulakis, D. Anglos, D. Ghanotakis** O-36
ONE-STEP MICROWAVE SYNTHESIS OF FLUORESCENT CARBON DOTS USING ARGININE AS A SINGLE PRECURSOR
- 15.10–15.30 **M. Khanmohammadi, A. Bagheri Garmarudi, A. Khatuni, K. Shabani** O-37
APPLICATION OF INFRARED SPECTROMETRY FOR QUANTITATIVE ANALYSIS OF FUNCTIONAL GROUPS ON MULTIWALL CARBON NANOTUBE
- 15.30–15.50 **I. Botiz, K. Rahimi, N. Stingelin, G. Reiter** O-38
SINGLE CRYSTALS OF CONJUGATED POLYMERS AS MODEL SYSTEMS FOR CHARGE TRANSPORT STUDIES
- 15.50–16.10 **B. Lahiri, G. Holland and A. Centrone** O-39
CHEMICAL IMAGING BEYOND THE DIFFRACTION LIMIT: EXPERIMENTAL VALIDATION OF THE PTIR TECHNIQUE
- 16.10–16.30 **E. Culea** O-40
SPECTROSCOPIC INVESTIGATION OF NEW TELLURATE GLASSES DOPED WITH RARE EARTH OR TRANSITION METAL IONS OBTAINED BY SOL-GEL PROCESS

Analytical methods and new instrumentation – Hall A2

Chairman: Bernhard Lendl

- 14.50–15.10** **U. Oppermann and M. Egelkraut-Holtus**
CHARACTERIZATION AND QUANTITATIVE ANALYSIS OF
HEAVY METALS IN WINE USING "STATE OF THE ART"
SPECTROSCOPY O-41
- 15.10–15.30** **H.M. Heise, J. Fritsche, H. Tkatsch, F. Waag and L. Küpper**
INFRARED ATR SPECTROSCOPY FOR PROCESS ANALYTICAL
CHEMISTRY AND QUALITY CONTROL OF FATTY ACID ESTERS O-42
- 15.30–15.50** **P. Matejka, Z. Cieslarova, M. Kalhousova, A. Kokaislova and M. Člupek**
THE EFFECT OF TEMPERATURE ON SURFACE-ENHANCED
VIBRATIONAL SPECTRA: IS IT IMPORTANT FOR ANALYTICAL
APPLICATIONS? O-43
- 15.50–16.10** **M. Schlösser, B. Bornschein, S. Fischer, T.M. James, S. Napoli, S. Rupp, H. Seitz and H.H. Telle**
ACCURATE CALIBRATION OF THE LASER RAMAN SYSTEM
FOR THE KARLSRUHE TRITIUM NEUTRINO EXPERIMENT O-44
- 16.10–16.30** **U. Oppermann, M. Egelkraut-Holtus, T. Fujiwara, and J. Schram**
LO-RAY-LIGH[®] DIFFRACTION GRATINGS FOR ULTRA LOW
STRAY LIGHT APPLICATIONS IN UV-VIS SPECTROSCOPY O-45

WEDNESDAY, AUGUST 29

Spectroscopy of biological molecules – Hall AULA MAGNA

Chairman: José Luis Alonso

- 11.00–11.20 **N. Kapel, J.F.M. Almarashi, D. Mack, H.H. Telle and T.S. Wilkinson**
REPRODUCIBLE IDENTIFICATION OF BACTERIAL SPECIES AND STRAINS USING MICRO-RAMAN SPECTROSCOPY O-46
- 11.20–11.40 **S. Akyuz, T. Akyuz, O. Celik, and C. Atak**
FTIR AND EDXRF INVESTIGATIONS OF THE SECOND GENERATIONS OF SALT TOLERANT SOYBEAN MUTANTS O-47
- 11.40–12.00 **E. Nemtseva, D. Gulnov, M. Gerasimova and V. Kratasyuk**
THERMAL TRANSITIONS OF BACTERIAL BIOLUMINESCENCE ENZYMES IN VISCOUS MEDIA STUDIED FROM THEIR INTRINSIC FLUORESCENCE O-48
- 12.00–12.20 **P. Heraud, J. Cao, E. Ng, B. Wood, M. Tobin, D. McNaughton, E. Stanley and A. Elefanty**
FTIR SPECTROSCOPY DISCRIMINATES VERY EARLY DIFFERENTIATION STAGES IN LIVING HUMAN STEM CELLS O-49
- 12.20–12.40 **A. Orza, O. Soritau, M. Diudea**
SPECTROSCOPY INVESTIGATION OF COLLAGEN BASED GOLD NANOPARTICLES SUBSTRATE FOR STEM CELL DIFFERENTIATION O-50

New materials – Hall A1

Chairman: Hiro-o Hamaguchi

- 11.00–11.20 **C. Farcau, S. Boca, C. Leordean, M. Potara, V. Saracut, L. Ressler, and S. Astilean**
SUBSTRATES FOR PLASMON-ENHANCED OPTICAL SPECTROSCOPIES VIA CONVECTIVE ASSEMBLY OF NANO- AND MICRO-PARTICLES O-51
- 11.20–11.40 **M. Cottat, N. Guillot, C. David, N. Lidgi, P. Gogol, A. Aassime, M.-P. Planté, J.-M. Lourtioz, B. Bartenlian, H. Shen, T. Toury, M. Lamy de la Chapelle**
OPTICAL PROPERTIES OF GOLD NANOSTRUCTURES: APPLICATION TO THE SURFACE ENHANCED RAMAN SCATTERING AND TO THE DEVELOPMENT OF A NANOBIOSENSOR O-52
- 11.40–12.00 **D. Dobó, A. Sápi, Á. Kukovecz**
CORRELATION OF MORPHOLOGICAL AND RAMAN SPECTROSCOPIC PROPERTIES IN INORGANIC NANOCOMPOSITES O-53
- 12.00–12.20 **A. Gajović, J. Vukajlović Pleština, K. Žagar, M. Plodinec, S. Šturm, M. Čeh**
THERMO RAMAN SPECTROSCOPY STUDY OF BARIUM TITANATE NANORODS SYNTHESIZED BY TEMPLATE ASSISTED SOL GEL PROCEDURE O-54
- 12.20–12.40 **O.D. Gordan, G. Salvan, P. Schäfer, R.D. Rodriguez, M. Fronk, G. Schreiber, D. Rafaja and D.R.T. Zahn**
RAMAN SELECTION RULES IN CUPROUS OXIDE O-55

Vibrational, electronic and magnetic resonance spectroscopies – Hall A2

Chairman: Michael Oshtrakh

- 11.00–11.20** **N. Mayorkas, S. Izbitski, A. Bernat and I. Bar** O-56
REVEALING STRUCTURAL MOTIFS IN FLEXIBLE MOLECULES
- 11.20–11.40** **V. Crupi, G. Guella, D. Majolino, I. Mancini, A. Paciaroni, B. Rossi
and V. Venuti** O-57
EFFECT OF THE "HOST-GUEST" INTERACTIONS ON THE LOW
FREQUENCY VIBRATIONAL DYNAMICS OF (R, S)-IBP/ME-BETA-
CD INCLUSION COMPLEX: AN INS STUDY
- 11.40–12.00** **M. Bogdan, C. Floare and A. Pirnau** O-58
¹H NMR SPECTROSCOPIC CHARACTERIZATION OF INCLUSION
COMPLEXES OF TOLFENAMIC AND FLUFENAMIC ACID WITH
β-CD
- 12.00–12.20** **D.O. Dorohoi, D.Gh. Dimitriu, M. Dimitriu and V. Closca** O-59
SPECIFIC INTERACTIONS IN N-YLID SOLUTIONS, STUDIED BY
NMR AND ELECTRON SPECTROSCOPY
- 12.20–12.40** **E. Feizula** O-60
ANALYTIK JENA

THURSDAY, AUGUST 30

Spectroscopy of biological molecules – Hall AULA MAGNA

Chairman: Ioan Nothinger

- 11.00–11.20** **K. Kong, C. Rowlands, A. Ghita, W. Perkins, S. Varma, I.H. Leach, A.A. Koloydenko, H. Williams and I. Nothinger**
RAMAN SPECTRAL HISTOPATHOLOGY OF TISSUE BLOCKS: TOWARDS UNSUPERVISED EVALUATION OF TUMOUR RESECTION MARGINS O-61
- 11.20–11.40** **I. Kostova**
THEORETICAL AND SPECTRAL CHARACTERIZATION OF BIOLOGICALLY ACTIVE LIGANDS AND THEIR METAL COMPLEXES O-62
- 11.40–12.00** **M. Mernea, O. Sandu, O. Calborean, T. Dascalu and D. Mihailescu**
TERAHERTZ SPECTROSCOPY AND COMPUTATIONS OF PROTEINS IN AQUEOUS ENVIRONMENTS O-63
- 12.00–12.20** **P. Praus, E. Kočišová, P. Mojzeš, J. Štěpánek, F. Sureau**
MODIFIED OLIGONUCLEOTIDES CELLULAR UPTAKE MONITORED BY USING TIME-RESOLVED MICROSPCTROFLUORIMETRY AND FLORESCENCE IMAGING O-64
- 12.20–12.40** **M. Řihová, J. Štěpánek, J. Vergne, G. Zaccai, M.-C. Maurel**
SCATTERING STUDY OF VIROID DYNAMICS O-65
- 12.40–13.00** **J. Novotná, I. Goncharova, and M. Urbanová**
CIRCURAL DICHROISM STUDY OF THE GUANOSINE/BILE PIGMENTS INTERACTIONS O-66

LUNCH

Chairman: Gábor Keresztury

- 14.50–15.10** **F.C. Pascut, H.T. Goh, S. Karla, A. Patel, N. Welch, C. Denning and I. Nothinger**
LABEL-FREE TIME-COURSE STUDY OF CARDIOMYOCYTES DIFFERENTIATION FROM HUMAN EMBRYONIC STEM CELLS BY RAMAN MICRO-SPECTROSCOPY O-67
- 15.10–15.30** **A. Salman, I. Lapidot, A. Pomerantz, L. Tsrur, R. Moreh, M. Huleihel and S. Mordechai**
SPECTRAL SIMILARITY ALGORITHM OF PHYTO-PATHOGENES ISOLATES O-68
- 15.30–15.50** **B.R. Wood, D. Whelan, K. Bambery and D. McNaughton**
QUANTIFICATION AND CONFORMATIONAL ANALYSIS OF DNA IN SIMPLE EUKARYOTIC CELLS AND BACTERIA USING FOURIER TRANSFORM INFRARED SPECTROSCOPY O-69
- 15.50–16.10** **P. Novotná, M. Urbanová**
VIBRATIONAL AND ELECTRONIC CIRCULAR DICHROISM FOR ANALYZING MODELS OF PROTEIN-MEMBRANE SYSTEMS WITH BILIRUBIN O-70
- 16.10–16.30** **S. Foley, B. Sjoberg, B. Cardey and M. Enescu**
EXPERIMENTAL AND THEORETICAL RAMAN SPECTRA OF TRIPEPTIDES AND PROTEINS O-71

New materials – Hall A1

Chairman: Aharon Loewenschuss

- 11.00–11.20** Z. Győri, V. Havasi, P. Pusztai, D. Madarász, A. Kukovecz, Z. Kónya
THE INFLUENCE OF SYNTHESIS METHODS, DIFFERENT
DOPANT IONS AND RATIOS ON THE LUMINESCENCE OF SrAl₂O₄ NANOPARTICLES O-72
- 11.20–11.40** U. Schmidt, T. Dieing, F. Vargas, and O. Hollricher
A CONFOCAL RAMAN AFM STUDY OF GRAPHENE O-73
- 11.40–12.00** K. Merkel, J. Lenža
FT-IR STUDY OF THERMAL DEGRADATION MECHANISM OF
POLYETHYLENE/MONTMORILLONITE NANOCOMPOSITES O-74
- 12.00–12.20** M. Modreanu, B. Servet, O. Chaix
INVESTIGATION ON CHEMICAL STABILITY, INTERFACIAL
PROPERTIES AND SOLID STATE CRYSTALLIZATION OF HIGH-K
METAL OXIDE THIN FILMS FORMED BY E-BEAM
EVAPORATION O-75
- 12.20–12.40** A. Pirri, G. Toci, M. Nikl, C. Ivascu, and M. Vannini
LASER PERFORMANCE AND SPECTROSCOPIC PROPERTIES OF
Yb-DOPED Lu₂O₃ AND YAG CERAMICS O-76
- 12.40–13.00** P. Pusztai, T. Simon, Á. Kukovecz, Z. Kónya
STRUCTURAL STABILITY TEST OF CERIUM-PHOSPHATE
NANOWIRES FOR A POTENTIAL APPLICATION IN SOLID OXIDE
FUEL CELLS O-77

LUNCH

Chairman: Simion Simon

- 14.50–15.10** T.T. Van Tran, C. Kinowski, O. Cristini, B. Capoen, R. Almeida, L.
Santos, M. Ferrari and S. Turrell
EFFECT OF ELABORATION PARAMETERS ON THE
LOCALIZATION OF RARE-EARTH EMITTER SITES IN TIN
SILICATE SOL-GEL DERIVED GLASS-CERAMICS O-78
- 15.10–15.30** M. Khanmohammadi, S. Karimi, A. Bagheri Garmarudi
INFRARED SPECTROMETRIC ANALYSIS OF HUMAN BLOOD
SERUM SAMPLES FOR ESTIMATING THE GLOMERULAR
FILTRATION RATE O-79
- 15.30–15.50** M. Fronk, D.R.T. Zahn, and G. Salvan
MAGNETO-OPTICAL STUDY OF DIFFERENT METAL-
PHTHALOCYANINES BY COMBINING SPECTROSCOPIC MOKE
AND ELLIPSOMETRY O-80
- 15.50–16.10** M. Szabo, S. Szalai, Z. Konya, A. Kukovecz
SYNTHESIS AND CHARACTERIZATION OF WO₃ NANOWIRES
AND METAL NANOPARTICLE-WO₃ NANOWIRE COMPOSITES O-81
- 16.10–16.30** A. Rónavári, Á. Kukovecz, Z. Kónya
SYNTHESIS, CHARACTERIZATION AND SPECTROSCOPIC
PROPERTIES OF Bi AND Bi-Sb-COATED MULTIWALL CARBON
NANOTUBES O-82

Vibrational, electronic and magnetic resonance spectroscopies – Hall A2

Chairman: Dietrich Zahn

- 11.00–11.20 **I.V. Alenkina, M.I. Oshtrakh, Z. Klencsár, S.M. Dubiel, E. Kuzmann, V.A. Semionkin**
TEMPERATURE VARIABLE MOSSBAUER SPECTROSCOPIC AND ELECTRON PARAMAGNETIC RESONANCE STUDIES OF HUMAN FERRITIN, FERRUM LEK AND MALTOFER O-83
- 11.20–11.40 **I. Turcu, M. Mic, M. Bogdan**
ASSESSMENT OF MOLECULAR SELF-ASSOCIATION BY ¹H NMR SPECTROSCOPY AND ISOTHERMAL TITRATION CALORIMETRY O-84
- 11.40–12.00 **B. Sjöberg, S. Foley, B. Cardey, M. Fromm and M. Enescu**
A RAMAN SPECTROSCOPY STUDY OF THE BETA-LACTOGLOBULIN OXIDATION BY HYDROGEN PEROXIDE O-85
- 12.00–12.20 **Y. Kawashima, Y. Komamine and E. Hirota**
FOURIER TRANSFORM MICROWAVE SPECTRUM OF N-PENTANOL O-86
- 12.20–12.40 **C. Pirim, L. Krim**
A NEON-MATRIX ISOLATION STUDY OF THE REACTION OF NON-ENERGETIC H-ATOMS WITH CO MOLECULES AT 3 K O-87
- 12.40–13.00 **V.N. Syryamina, M. De Zotti, C. Peggion, F. Formaggio, C. Toniolo, S.A. Dzuba and J. Raap**
WATER ACCESSIBILITIES TO MEMBRANE-BOUND LIPOPEPTIDE BY PULSED-EPR O-88

LUNCH

Chairman: Michael Schmitt

- 14.50–15.10 **St. Radice, A. Milani, C. Castiglioni**
FLUORINATED MOLECULES/OLIGOMERS AND HYDROGEN BONDING A SPECTROSCOPIC AND DFT INVESTIGATION O-89
- 15.10–15.30 **A. Pallagi, B. Kutus, E. Czeglédi, G. Peintler, P. Forgo, I. Pálinkó and P. Sipos**
STRUCTURE AND EQUILIBRIA OF THE Ca-HEPTAGLUCONATE COMPLEX IN AQUEOUS SOLUTION STUDIED BY MULTINUCLEAR NMR SPECTROSCOPY, POTENTIOMETRY AND COMPUTATIONS O-90
- 15.30–15.50 **M. Sipiczki, E. Kuzmann, Z. Homonnay, J. Megyeri, I. Pálinkó and P. Sipos**
THE STABILITIES OF CaFe LAYERED DOUBLE HYDROXIDES WITH VARIOUS Ca:Fe RATIOS STUDIED BY MÖSSBAUER SPECTROSCOPY, X-RAY DIFFRACTOMETRY AND THERMAL ANALYSIS O-91
- 15.50–16.10 **R.M. Mahfouz and M.R.H Siddiqui**
N, N'-DIALKYLIMIDAZOLIUM TETRACHLOROAUROATE IONIC LIQUID SALTS O-92
- 16.10–16.30 **N. Tosa, I.B. Cozar, D. Bogdan, I. Bratu, L. Barbu-Tudoran**
OPTICAL SPECTROSCOPIC STUDIES ON S-DERIVATIVE BIOMOLECULES INTERACTION WITH GOLD NANOSTRUCTURES O-93