

PROGRAMME

Tuesday 25.9.

09:00 Registration

09:50 Coffee break

10:00 T. Aoki

QFRS (quadrature frequency resolved spectroscopy) of photoluminescence of amorphous semiconductors and chalcogenide glasses

11:10 K. Shimakawa

Dynamics of atomic diffusion in condensed matter: Origin of the Meyer-Neldel law

12:00 Lunch

Chairman: J. Orava

13:30 T. Wágner, J. Kolář, S. Valkova, I. Voleská, M. Krbal, J. Macák, M. Frumar

Electrochemical metalization cells big step from nanoionics to nanoelectronics

13:50 J. Přikryl, M. Pavlišta, L. Strižík, T. Wagner, M. Frumar

Comparisons of various deposition techniques for preparation of thin films

14:10 T. Kohoutek, J. Orava, T. Sawada, H. Fudouzi

Chalcogenide photonic bandgap structures via colloidal opal film templating

14:30 M. Krbal, P. Fons, A.V. Kolobov, J. Tominaga, T. Matsunaga, N. Yamada

Local vs. global order in GeTe-based phase-change alloys

14:50 B. Frumarová, M. Frumar, J. Oswald, M. Kincl, V. Parchanski

Mid-Infrared luminescence of glasses of system Ge-Sb-Se-Te doped with Pr³⁺, Yb³⁺ and Tb³⁺ ions

15:10 L. Hromádko, J. Přikryl, J. Orava, P. Košťál, M. Frumar

Physico-chemical properties of Sb-rich Sb-Se system thin films for phase change memories

15:30 Coffee break

Chairman: K. Shimakawa

16:00 D. Patil, V. Zima, M. Frumar, T. Wagner, K. Shimakawa

New Impedance Spectroscopy for the Study of Dynamics of Ionic Transport: Case example in AgAsS₂

16:20 S. K. Pillai, T. Ando, J. Málek

A numerical model for the solidification of droplets processed by the Uniform Droplet Spray Process

16:40 P. Košťál, J. Shánělová, J. Málek

Viscosity of chalcogenides – overview of literature data

17:00 J. Barták, J. Málek, P. Košťál, H. Segawa

Crystallization behavior in Se_{100-x}Te_x amorphous materials

17:20 J. Chovanec

The Influence of Dopants on Loss Tangent of Alumina Ceramics

17:40 J. Gutwirth, J. Přikryl, P. Bezdička, L. Strižík, M. Vlček, T. Wágner, M. Frumar

Crystallization behavior of RF magnetron sputtered Ge₂Sb_{2.3}Te₄Se thin films

18:00 Poster section

19:00 Banquet

Wednesday 26.9.

09:00	<u>J. Orava</u> , A.L. Greer <i>Dynamics of supercooled liquids in data storage applications</i>
09:50	<i>Coffee break</i>
10:10	<u>P. Jelínek</u> <i>Combined AFM/STM: a tool for advanced characterization of surface and nanostructures</i>
11:00	<u>J. Navrátil</u> <i>Thermoelectric Materials and Technologies for Cooling and Energy-Scavenging Systems (Review)</i>
12:00	<i>Lunch</i>
	Chairman: T. Wágner
13:30	<u>J. Macák</u> <i>TiO₂ nanomaterials: preparation, properties and applications in photocatalysis</i>
13:50	<u>J. Šhánělová</u> , P. Pilný, J. Málek <i>Crystallization in bulk As₂Se₃ glass</i>
14:10	<u>N. Peřinka</u> , M. Držková, F. Siegel, M. Kaplanová <i>Photoacoustic Evaluation of Ultrathin Conductive Polymer Layers</i>
14:30	<u>M. Zvonková</u> , J. Luxová, J. Trojan, M. Trojan <i>CaSnSiO₅ with LANTHANIDS</i>
14:50	<u>N. Gorodylova</u> , Ž. Dohnalová, P. Šulcová <i>Investigation of MgSrP₂O₇ as a perspective anticorrosion pigment</i>
15:10	<u>L. Stržížík</u> , J. Zhang, Ch. Liu, J. Heo, T. Wagner, M. Frumar <i>Er³⁺-doped Ga-Ge-Sb-S chalcogenide glasses for photon up-conversion</i>
15:30	<u>T. Dubaj</u> , M. Veverka, J. Gallovič and P. Šimon <i>Application of differential scanning calorimetry in the screening of edaravone cocrystals</i>
16:00	<i>Mini coffee break</i>

LIST OF POSTERS

<u>L. Adolfová</u> , P. Šulcová, Ž. Dohnalová	<i>Synthesis and properties of pigments of the $SrV_xSn_{1-x}O_3$ type</i>
V. Kosinová, <u>N. Gorodylova</u> , P. Bělina, P. Šulcová	<i>Synthesis and examination of $CoZr_4(PO_4)_6$ for pigmentary application</i>
<u>J. Kolář</u> , S. N. Yannopoulos, L. Střížík, T. Kohoutek, T. Wágner	<i>Photoinduced polymerization in $As_{15}S_{85}$ chalcogenide glasses: influence of thermal history</i>
<u>P. Luňáková</u> , M. Trojan, J. Luxová, J. Trojan	<i>Effect of Mn on colour properties of $BaSnTbO_3$ type based pigments</i>
<u>M. Mauer</u> , P. Kalenda, M. Honner, P. Vacikova	<i>Composite fillers and their influence on emissivity</i>
<u>Z. Olmrová Zmrhalová</u> , J. Málek	<i>Crystallization processes in undercooled glass-forming liquids monitored by thermomechanical analysis</i>
<u>D. Pavliňák</u> , M. Alberti, J. Ráhel'	<i>Plasma-chemical treatment of cellulose materials</i>
<u>R. Pilař</u> , L. Svoboda, P. Honcová, P. Košťál	<i>Heat capacity and thermodynamic properties of antimony triselenide</i>
<u>V. Podzemná</u> , J. Málek	<i>The crystallization kinetics of GeS_2 crystal growth in $(GeS_2)_{0,8}(Sb_2S_3)_{0,2}$ thin film glasses</i>
<u>P. B. Solanke</u> , F. Bureš	<i>Indan-1,3-dione as an acceptor part of organic D-π-A system</i>
<u>L. Stránská</u> , P. Šulcová, B. Hablovičová	<i>The influence of preparation method on the colour properties of $Bi_{2-x}Lu_{x/2}Zr_{3x/8}O_3$ pigment</i>
<u>R. Svoboda</u> , J. Málek	<i>Structural relaxation in Se-based glasses</i>
<u>T. Svoboda</u> , V. Prysiazhnyi, M. Dvořák, M. Alberti	<i>Progressive influence of plasma pretreatment on aluminium surfaces</i>
<u>O. Škola</u>	<i>The Study of Migration of Irone-Arene Photoinitiator from Cured Film by UV/VIS Spectroscopy</i>
<u>J. Trojan</u> , M. Zvonková, J. Luxová, M. Trojan, P. Luňáková	<i>Cassiterite pigments</i>
<u>M. Štefanko</u> , <u>J. Uhlár</u> , I. Mačák	<i>Palladium catalyst for hydrogenation of nitrobenzene to aniline</i>
<u>S. Valkova</u> , T. Wagner, M. Bartoš, M. Pavlišta, M. Vlček, B. Frumarová, L. Beneš, M. Frumar	<i>Thin films of $Ge_{28-x}Ga_xS_{72}$ and possibility of doping of Ag into them</i>
<u>J. Večeřa</u> , I. Franková, P. Šulcová	<i>Color of rutile pigments $Ti_{1-3x}Cr_xSb_{2x}O_2$ in ceramic glaze</i>
<u>M. Vontorčíková</u> , Ž. Dohnalová, P. Šulcová	<i>Synthesis and properties of pigments type of ferrite</i>
<u>M. Vorokhta</u> , P. Mošner, L. Koudelka	<i>Investigation of the calcium borophosphate glasses doped by tellurium dioxide</i>
<u>I. Voleská</u> , J. Akola, S.N. Yannopoulos, J. Gutwirth, T. Wágner	<i>Study of $GaGeTe_7$ Amorphous Structure by Raman Spectroscopy and Ab-initio Calculations</i>
<u>Z. Bureš</u> , M. Vlček	<i>Preparation and characterisation of metal nanoparticles</i>
<u>I. Rösslerová</u> , L. Koudelka, P. Hejda	<i>Structure and properties of lead borophosphate glasses modified by tellurium dioxide</i>
<u>P. Veteška</u>	<i>Hydrothermal synthesis of carbon nano-sized particles</i>