

# Scientific Programme of the SOTAMA 2007

## Wednesday, September 26, 2007

- 9:00 Installation of Exhibition Stands
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- 14:00 Registration at the AGH University of Science and Technology (Main Building)  
Hanging the posters
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- 18:00 Welcome Party (Cloisters of the Main Building of the AGH)

## Thursday, September 27, 2007

- 8:30 **Opening ceremony**
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- 8:40 **Honorary session of Jan Pospiech** (speakers: *J. Bonarski, C. Esling, T. Leffers, R. Schwarzer*)
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- 10:00 **Coffee Break**
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- 10:20 **Keynote Lecture:** A fast ACOM/EBSD system  
*R. Schwarzer*
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- 11:00 ODF-controlled PDF measurements  
*H. Schaeben*
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- 11:20 Tin plates texture estimation by X-ray and EBSD methods  
*M. Černík, A. Leško, J. Topolovský*
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- 11:40 Possibilities of application of phase identification by electron backscatter diffraction for determination of phase composition of multilayer coatings  
*L. Klimek, Ł. Kaczmarek*
- 
- 12:00 Slip and tape casting methods for producing ceramic matrix composites with gradient concentration of metal particles  
*K. Konopka, M. Szafran, E. Bobryk*
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- 12:20 New software for determination of elastic strain from CBED patterns  
*A. Morawiec*
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- 12:45 **Lunch**
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- 14:00 **Keynote Lecture:** New applications of the X-ray line profile analysis for investigation of structural parameters of nanocrystalline materials  
*M. J. Zehetbauer, M. Kerber, E. Schafner, T. Ungar*
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- 14:40 Texture inhomogeneity in titanium deformed by ECAP  
*W. Skrotzki, B. Klöden, A. Lankau, V. Kopylov*
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- 15:00 XRD2DSCAN a new software for the automatic analysis of 2D diffraction patterns of polycrystalline materials  
*A. B. Rodriguez-Navarro*
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- 15:20 Three laws of substructure inhomogeneity in textured metal materials  
*Y. Perlovich, M. Isaenkova, V. Fesenko*
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- 15:40 Misorientation analysis in grain growth modeling of Ti40.  
*G. Sawina, F. Gerspach, N. Bozzolo, K. Sztwiertnia, F. Wagner*
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- 16:00 **Poster Session**
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- 20:00 **Special Evening Event**

*Chairs:*

*H. –G. Brokmeier,  
A. Jura*

*Chairs:*

*C. Esling,  
J. Kuśnierz*

**Friday, September 28, 2007**

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| 8:20  | <b>Keynote Lecture:</b> New Areas of Texture Research<br><i>J. Szpunar</i>  |   |
| 9:00  | In-situ analysis of crystallographic textures using high-energy X-rays<br><i>H.-G. Brokmeier, Sangbong Yi, J. Homeyer</i>   | <i>Chairs:</i>                                  |
| 9:20  | Coatings on TiN and TiCN basis for biomedical application to blood contact and multilayered TiN/CrN tribological systems produced by pulsed laser deposition<br><i>B. Major, F. Bruckert, J., M.Lackner, R. Ebner, R. Kustosz, P. Lacki</i> | <i>W. Skrotzki,<br/>A. Bunsch</i>               |
| 9:40  | Depth-profile of residual stresses in metal coatings<br><i>J.Bonarski, J. Smolik, L. Tarkowski, M. Biel</i>   |   |
| 10:00 | <b>Coffee Break</b>   |   |
| 10:20 | <b>Keynote Lecture:</b> Kinetic modeling of the deformation behavior in pure metals<br><i>I. Alexandrov, R. Chembarisova, V Sitdikov</i>  |   |
| 11:00 | Development of nanograined TiAl-graphite (Ni-P) by mechanical alloying route<br><i>R. Ch. Agarwala, V. Agarwala and J. Karwan-Baczewska</i>   |   |
| 11:20 | Comparison of microstructure and texture development of ECAPed pure Mg with an Mg-Si alloy<br><i>W. M. Gan, H.-G. Brokmeier, K. Wu, M. Y. Zheng, H. Chang, X. J. Wang</i>   | <i>Chairs:<br/>V. Groeger<br/>B. Mikułowski</i> |
| 11:40 | Microstructure and crystallographic textures of fcc-metals after High-Pressure Torsion<br><i>E. Schafler, B. Bonarski, M. Kerber and M. Zehetbauer</i>  |   |
| 12:00 | The old story about the brass-type texture<br><i>Torben Leffers</i>   |   |
| 12:30 | Company presentation: SAMTEC ZEISS  |   |
| 12:45 | <b>Lunch</b>  |   |
| 14:00 | <b>Keynote Lecture:</b> Orientation relationship, texture and microstructure in Electromagnetic Processed Materials (EPM)<br><i>C. Esling, Y. D. Zhang, D. Cong, X. Zhao, and L. Zuo</i>  |   |
| 14:40 | The influence of the texture on yield strength and strain hardening of high purity aluminum foils<br><i>M. Lederer, V. Gröger and E. Schafler</i>   | <i>Chairs:</i>                                  |
| 15:00 | Microstructure characterization of mollusk shells by X-ray and electron diffraction techniques<br><i>A. G. Checa, A. B. Rodriguez-Navarro</i>   | <i>M. Zehetbauer,<br/>A. Morawiec</i>           |
| 15:20 | Application of silicon strip detector for X-ray diffraction on metallic multilayer systems<br><i>P. Mietniowski, J. Kanak, W. Powroźnik, T. Stobiecki, P. Maj, P. Gryboś</i>  |   |
| 15:40 | Effects in the texture and microstructure caused by the change of the rolling direction<br><i>J. Pospiech</i>   |   |
| 16:00 | <b>Coffee Break</b>   |   |
| 16:20 | <b>Keynote Lecture:</b> Problems of the structure evolution under extreme deformation conditions revealed in the KOB0's technology studies<br><i>A. Korbel, W. Bochniak</i>   | <i>Chairs:<br/>I. Alexandrov,<br/>I. Tomov</i>  |
| 17:00 | Demonstration of the KoBo technology<br><i>(at Laboratory of Faculty of Non-Ferrous Metals of the AGH-UST)</i>  |   |
| 20:00 | <b>SOTAMA Dinner at Wierzynek restaurant (since 1364) combined with Baroque music</b>   |   |