

## **MS-6. Polymers and organic materials**

10 September, 16:45 - 18:45 / 11 September, 16:30 - 18:30

### **MS-6-P-1521**

#### **Synthesis and In Situ-TEM Investigation of (Thermo-)Responsive Microgels Stained With Gold**

Presenting author: **Caumanns T.**

*Authors: Caumanns T., Gelissen A., Mayer J., Richtering W.*

### **MS-6-P-1639**

#### **Electron Energy Loss Spectroscopy Of Codeposited Pentacene:Perfluoropentacene**

Presenting author: **Gries K. I.**

*Authors: Gries K. I., Felix R., Haas B., Breuer T., Witte G., Volz K.*

### **MS-6-P-1711**

#### **DualBeam (FIB-SEM) methodology enables linking 3D spatial orientation & bulk structure in polymeric composite materials to performance**

Presenting author: **Phifer D. W.**

*Authors: Phifer D. W., Rosas-Aburto A., Baken E., Lei M., Pérez-Salinas P.*

### **MS-6-P-1757**

#### **Impact of ultrasonication on the morphology and structure of cellulose microfibrils and nanocrystals**

Presenting author: **Putaux J. L.**

*Authors: Barbat-Rogéon A., Pétrier C., Molina-Boisseau S., Putaux J. L., Heux L., Nishiyama Y.*

### **MS-6-P-1758**

#### **Grain boundaries in nanoparticles made of self-assembled amphiphilic $\beta$ -cyclodextrins**

Presenting author: **Putaux J. L.**

*Authors: Putaux J. L., Lancelon-Pin C., Choisnard L., Gèze A., Wouessidjewe D.*

### **MS-6-P-1820**

#### **Polyhedral iron oxide core-shell nanoparticles in a biodegradable polymeric matrix: Preparation, characterization and application in magnetic particle hyperthermia and drug delivery.**

Presenting author: **Filippousi M.**

*Authors: Filippousi M., Angelakeris M., Pavlidou E., Bikiaris D., Van Tendeloo G.*

### **MS-6-P-1885**

#### **Phase structure development and properties of HDPE/COC immiscible polymer blends**

Presenting author: **Ostafińska A.**

*Authors: Ostafińska A., Vacková T., Šlouf M., Nevoralová M., Fortelný I.*

### **MS-6-P-1931**

#### **Preparation and morphology characterization of tunable conducting polyaniline nanoparticle materials**

Presenting author: **Huang W. Q.**

*Authors: Huang W. Q., Miao X. P.*

#### **MS-6-P-2125**

##### **Microstructure and micromechanical properties of PP/HDPE/EPDM blends**

Presenting author: **Slouf M.**

*Authors: Situm A., Nevoralova M., Slouf M., Vranjes N., Rek V.*

#### **MS-6-P-2135**

##### **Morphology of PCL/TiX composites: comparison of standard and advanced microscopy methods**

Presenting author: **Slouf M.**

*Authors: Slouf M., Situm A., Pavlova E., Nevoralova M., Hromadkova J., Vystavel T., Navratilova L., Govorcin Bajsic E., Ocelic Bulatovic V.*

#### **MS-6-P-2272**

##### **Analytical TEM: a powerful technique in the field of organic electronics research**

Presenting author: **Kraxner J.**

*Authors: Kraxner J., Schmied R., Rothländer T., Stadlober B., Grogger W.*

#### **MS-6-P-2319**

##### **Comparative measurement of microplasticity by means of 3D-microscopy methods**

Presenting author: **Kokoskova M.**

*Authors: Kokoskova M., Slouf M., Nevoralova M., Vackova T., Kopecek J.*

#### **MS-6-P-2374**

##### **Folding Structures of Polypeptide Chains in Silk**

Presenting author: **Schaper A. K.**

*Authors: Schaper A. K., Ogawa T., Yoshioka T., Kameda T.*

#### **MS-6-P-2411**

##### **Influence of selected substrates and nanoparticles on crystallization of isotactic polypropylene**

Presenting author: **Pavlova E.**

*Authors: Pavlova E., Strachota B., Slouf M.*

#### **MS-6-P-2429**

##### **HRTEM study of the ZnO/sexiphenyl inorganic/organic hybrid interface**

Presenting author: **Kirmse H.**

*Authors: Kirmse H., Sparenberg M., Polzer F., Sadofev S., Blumstengel S., Henneberger F.*

#### **MS-6-P-2640**

##### **MORPHOLOGICAL CHARACTERIZATION OF HIGHLY POROUS BIODEGRADABLE POLYMER SCAFFOLDS FOR TISSUE ENGINEERING**

Presenting author: **Villar M. A.**

*Authors: Ninago M. D., Yañez M. J., Ciolino A. E., Villar M. A.*

#### **MS-6-P-2648**

##### **Study of Surface Morphology and Shell Thickness of Melamine-Formaldehyde Microcapsules using FEG-SEM**

Presenting author: **Ramachandran D.**

*Authors: Ramachandran D., Teixeira R., Rivero G., Leroux F., Du Prez F., Abakumov A., Schryvers D.*

**MS-6-P-2660**

**Application of Atomic Force Microscopy in Morphology Characterization of Industrial Polymers**

Presenting author: **Yang L.**

*Authors: Yang L., Guise O.*

**MS-6-P-2669**

**Morphological characterization of surface modified cellulose nanocrystals for application in polymeric nanocomposites**

Presenting author: **Battirola L. C.**

*Authors: Taipina M. O., Ferrarezzi M. F., Battirola L. C., Gonçalves M. C.*

**MS-6-P-2714**

**Analytical TEM cross section investigation of blue OLED display pixels**

Presenting author: **Graff A.**

*Authors: Graff A., Hübner S., Altmann F., Freitag B.*

**MS-6-P-2746**

**Analytical Transmission Electron Microscopy (TEM) of Crystalline Organic Materials**

Presenting author: **Brydson R.**

*Authors: Brydson R., Cattle J. E., Hondow N., Brown A. P.*

**MS-6-P-3217**

**HRTEM Studies of Micro and Nanocapsules of Self-Healing Polymeric Materials**

Presenting author: **Rossinyol E.**

*Authors: Rossinyol E., Cardoso F., Garcia S., Cano-Sarabia M., MasPOCH D.*

**MS-6-P-3252**

**Revealing the distribution of low molecular weight materials in the SEM using cathodoluminescence spectroscopy**

Presenting author: **Stowe D. J.**

*Authors: Stowe D. J., Pakzad A., Mantei J. R., Green J. B.*

**MS-6-P-3310**

**Electron tomography of PTB7:PC70BM**

Presenting author: **Alafeef A.**

*Authors: AlAfeef A., Alekseev A., Hedley G. J., Samuel I. D., Cockshott W. P., MacLaren I., McVitie S.*

**MS-6-P-3470**

**POLYMERIZATION BY ATOMIZATION - AN ALTERNATIVE TECHNIQUE FOR PRODUCING POLYMERIC PARTICLES**

Presenting author: **Rubira A. F.**

*Authors: Fernandes L. S., Souza E. B., Oliveira J. A., Cellet T. S., Rubira A. F.*

**MS-6-P-5817**

**A New Perspective for Morphologies Observation in Ziegler-Natta Based Polymerization Processes**

Presenting author: **Selleri R.**

*Authors: Selleri R., Casinelli M.*

**MS-6-P-5859**

**Designing of polymeric nanoparticles for drug delivery system based on FE-SEM analysis**

Presenting author: **Takahashi C.**

*Authors: Takahashi C., Ogawa N., Kawashima Y., Yamamoto H.*

**MS-6-P-5887**

**Controlling the parameters of self assembly to functionalise peptide hydrogels**

Presenting author: **Van Driel R. R.**

*Authors: Li R., Rodriguez A. L., Bruggeman K. F., van Driel R. R., Barrow C. J., Nisbet D. R., Williams R. J.*

**MS-6-P-5979**

**AM-FM and Loss Tangent Imaging – New Tools for Quantitative Nanomechanical Properties**

Presenting author: **Johann F.**

*Authors: Johann F., Proksch R., Revenko I., Hohlbach S., Cleveland C., Geisse N., Moshar A., Bemis J., Callahan C.*