[ThD2] Polymer Thin Films and Nanostructures

**Session Title**: [ThD2] Polymer Thin Films and Nanostructures

**Date and Time**: July 13 (Thursday) / 13:30-16:00

**Place**: Room D (1F)

**Session Chair**: Jaseung Koo (KAERI, Korea)
Jin Kon Kim (POSTECH, Korea)

**ThD2-1**

**Title**: Highly Asymmetric Gyroid Structures by Blending of ABC Triblock Terpolymer and AB Diblock Copolymer

**Authors**: Jin Kon Kim, Seonghyeon Ahn, and Chungryong Choi

**Institution**: POSTECH, Korea

**Time**: 13:30-13:45

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**ThD2-2**

**Title**: Supramolecular Dendron-Jacketed Block Copolymer Micelles in Solutions and Thin Films

**Authors**: Xun-Yan Wu¹, Yen-Ming Hsu¹, Wei-Tsung Chuang², and Ya-Sen Sun¹

**Institutions**: ¹NCU, Taiwan ²NSRRC, Taiwan

**Time**: 13:45-14:00

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**ThD2-3**

**Title**: Vertical Orientation of Block Copolymer Thin Films Induced by Segregation of Organic Nanoparticles

**Authors**: Hyun Suk Wang, Anzar Khan, June Huh, and Joona Bang

**Institution**: Korea Univ., Korea

**Time**: 14:00-14:15

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**ThD2-4**

**Title**: Dynamical Features in Self Assembled Molecular Aggregates

**Authors**: R. Mukhopadhyay, V.K. Sharma, and S. Mitra

**Institution**: BARC, India

**Time**: 14:15-14:30

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**ThD2-5**

**Title**: Realtime Structural Characterisation of Thin Film OLED Stacks During Thermally Induced Diffusion - the Importance of Glass Transitions

**Authors**: Andrew Nelson¹, Jake McEwan², Andrew Clulow³, Paul Shaw², Tamim Darwish¹, Nageshwar Rao Yepuri¹, Paul Burn², and Ian Gentle²

**Institutions**: ¹ANSTO, Australia, ²Univ. of Queensland, Australia, ³Monash Univ., Australia

**Time**: 14:30-14:45
ThD2-6  
Time-Resolved Neutron Reflectivity Detects Mass Transfer along Film Thickness Direction  
Satoshi Koizumi, Satoru Ueda, and Yohei Noda  
*Ibaraki Univ, Japan*

ThD2-7  
Swelling Behavior of Polyelectrolyte Brush/Multilayer Composites - Water Distribution in Humid Conditions  
Oliver Löhmann¹, Samantha Micciulla², Emanuel Schneck², Olaf Sotlwedel³, and Regine von Klitzing¹  
¹*TU Darmstadt, Germany, ²Max Planck Inst. of Colloids and Interfaces Potsdam, Germany, ³Max Planck Inst., Germany*

ThD2-8  
Monitoring the Thickness Evolution and Water Uptake of PEDOT:PSS Thin Films under High Humidity Conditions by In-Situ Neutron Reflectometry  
Lorenz Bießmann¹, Lucas Kreuzer¹, Tobias Widman¹, Nuri Hohn¹, Jean-Francois Moulin⁷, and Peter Müller-Buschbaum¹  
¹*TU Munich, Germany, ²HZG, Germany*

ThD2-9  
Investigating Biomimetic Calcium Phosphate and Carbonate Mineral Formation within Multilayered Biopolymer Films using Small Angle Neutron Scattering  
Rayomand Shahlori¹², Andrew Nelson³, Jitendra Mata³, Geoffrey Waterhouse¹², and Duncan McGillivray¹²  
¹*The Univ. of Auckland, New Zealand, ²MacDiarmid Inst. for Advanced Materials and Nanotechnology, New Zealand, ³ANSTO, Australia*

ThD2-10  
Structure and Mechanical Properties of Polybutadiene Thin Films at Surface-Modified Carbon Interface  
Koichiro Hori¹, Norifumi Yamada¹, Yoshihisa Fujii², Tomomi Masui³, Hiroyuki Kishimoto³, and Hideki Seto¹  
¹*HEARO, Japan, ²Mie Univ., Japan, ³Sumitomo Rubber Industries, Ltd., Japan*