

**NITech International Symposium  
Advanced Functional Materials and Application  
- Global Research Network between NITech and FAU -**

Date October 17<sup>th</sup> (Monday) and 18<sup>th</sup> (Tuesday), 2016  
Venue [Oct. 17<sup>th</sup>] Bldg. 23, Room 2311 and [Oct. 18<sup>th</sup>] Bldg. 2, Room 0232  
Host Nagoya Institute of Technology (NITech)  
Cohosts Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)  
Frontier Research Institute for Materials Science (FRIMS) and Europe Liaison Office, NITech

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**[Oct. 17<sup>th</sup>, Room 2311]**

- 9:00 Opening  
*Dr. Takatoshi Kinoshita, Executive Vice-President, NITech*  
*Prof. Peter Greil, Dean, Faculty of Engineering, FAU*
- 9:10 Functional molecules encapsulated in single-walled carbon nanotubes for post Li ion batteries  
*Prof. Shinji Kawasaki, NITech*
- 9:30 Simulation of microstructures and properties of porous ceramics  
*Prof. Tobias Fey, FAU & NITech*
- 9:50 Synthesis and characterization of nano-sized phosphors for wavelength converters  
*Prof. Tomokatsu Hayakawa, NITech*
- 10:10 Photoluminescence properties of rare-earth doped nanocomposites  
*Prof. Dominique de Ligny, FAU*
- 10:30 Break (Poster exhibition)
- 10:50 Surface functionalization of SiC substrate with the use of femtosecond laser  
*Prof. Reina Miyagawa, NITech*
- 11:10 Growth and evaluation of SiC substrates  
*Prof. Peter Wellmann*
- 11:30 3D Visualizations of Local Structures around Specific Elements with Atomic Resolution Holography  
*Prof. Koichi Hayashi*
- 11:50 Poster exhibition

**[Oct. 18<sup>th</sup>, Room 0232]**

- 14:00 Material design of lead-free piezoceramics for energy application  
*Prof. Ken-ichi Kakimoto, NITech*
- 14:20 Piezoceramic 2D lattice structures with unusual strain behaviour  
*Prof. Peter Greil, FAU*
- 14:40 Healthcare-oriented body area sensing and communication technology  
*Prof. Jianqing Wang, NITech*
- 15:00 Sensors and transducers for medical applications  
*Prof. Reinhard Lerch, FAU*
- 15:20 Break (Poster exhibition)
- 15:40 Nanostructures from particles  
*Prof. Wolfgang Peukert, FAU*
- 16:00 Large-scale atomic dynamics simulation of inorganic-organic interfacial phenomena  
*Prof. Shuji Ogata*
- 16:20 Shape adaptive functional structures  
*Prof. Alexander Hasse*
- 16:40 Closing  
*Prof. Ken-ichi KAKIMOTO, NITech*  
*Prof. Peter GREIL, FAU*

----- 名古屋工業大学の学生（博士前期・後期）のみなさんへ -----

本シンポジウムは、下記の授業として行います。

博士前期 1) 材料・エネルギー特別演習 1・2

2) 情報・社会特別演習 1・2

博士後期 3) 材料・エネルギー先進特別演習 1・2

4) 情報・社会先進特別演習 1・2

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