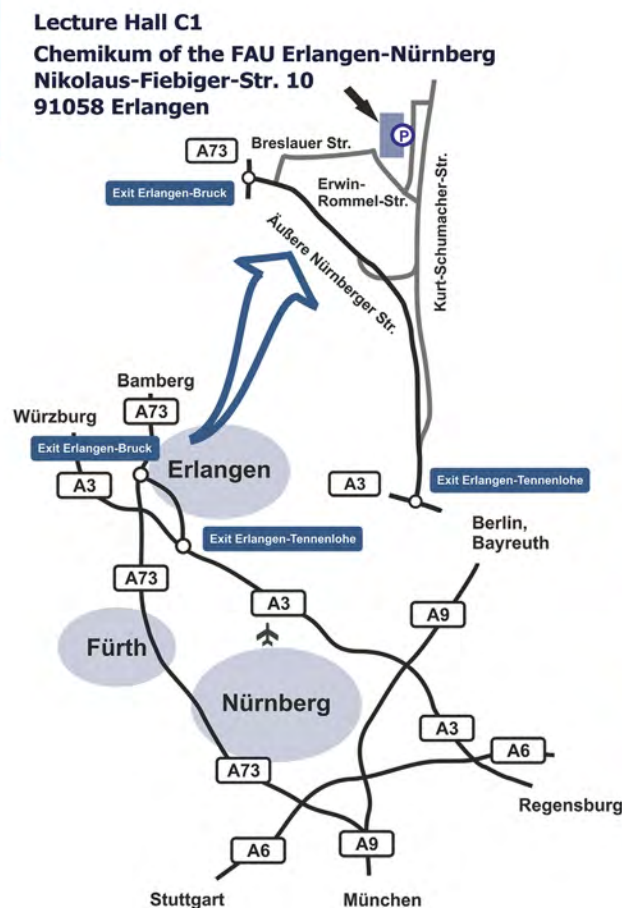


- 14:30 Shigehiro **Yamaguchi**, Nagoya University, Japan
Main-Group-Rich π -Electron Materials: Design and Application
- 15:05 Siegfried **Eigler**, FU Berlin, Germany
Functionalized Graphene Hybride Materials
- 15:40 **COFFEE BREAK**
- 16:10 Bernd **Meyer**, SFB 953 **C1**
Electronic and Chemical Properties of Functionalized Single- and Bilayer Graphene
- 16:45 Kiril **Bolotin**, FU Berlin, Germany
Generating and Exploring the Effects of Ultrastrong Electric Field in 2D Materials via Molecular Gating
- 17:20 **CLOSING REMARKS**

**SFB 953:**

Prof. Dr. Andreas Hirsch (Spokesperson)
Prof. Dr. Heiko Weber (Vize Spokesperson)
Dr. Frank Hauke (Executive Director)

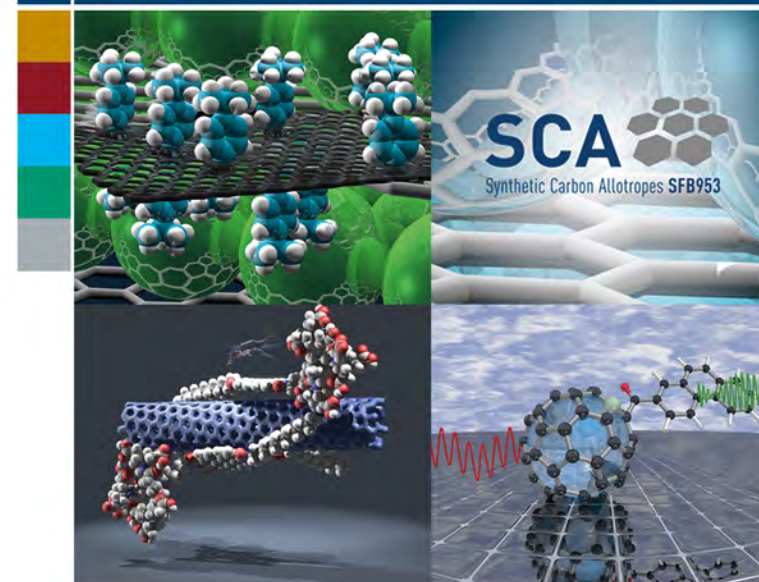
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Support of this symposium by the German Science Foundation (DFG) is gratefully acknowledged.

6th Erlangen Symposium on Synthetic Carbon Allotropes

October 8th -10th, 2023



Program Information

Chemikum
Nikolaus-Fiebiger-Str. 10
91058 Erlangen

Synthetic carbon allotropes such as fullerenes, carbon nanotubes and graphene currently represent one of the most promising materials families with enormous potential for high-performance applications in the fields of nanoelectronics, optoelectronics, hydrogen storage, sensors and reinforcements of polymers based on their unprecedented electronic, optical, mechanical and chemical properties.



At the same time, they are ideal targets for investigating fundamental chemical and physical questions such as shape- and charge-dependent binding and release of molecules, charge transport in confined spaces, and superior sensing of supramolecular interactions.



Tapping these exciting possibilities fully, however, still requires overcoming a number of significant hurdles such as high-yield production methods, sorting and separation, developing synthesis protocols for new carbon allotropes, controlled doping with heteroelements, solubilization, chemical functionalization, hierarchically ordered architectures, and layer (single and multiple) formation.

Sunday, October 8th

- 15:00 **REGISTRATION**
- 17:00 Andreas **Hirsch**, Speaker SFB 953
Welcome and Opening Remarks
- 17:15 Claudia **Backes**, Universität Kassel, Germany
Fundamental Insights into Crushing Down Rocks through Liquid Phase Exfoliation
- 17:50 Thomas **Heine**, TU Dresden, Germany
Magnetic Carbon
- 18:25 Nazario **Martín**, Universidad Comp. Madrid, Spain
Stereoselective Synthesis of Bilayer Molecular Nanographenes
- 19:30 **GET-TOGETHER PARTY**

Monday, October 9th

- 9:00 Aurelio **Mateo-Alonso**, University of the Basque Country, Spain
Synthesis of Giant Molecular Graphene Nanoribbons
- 9:35 Evgeny **Kataev**, SFB 953 **A10**
Construction of Molecular Hosts from Aromatic Building Blocks: Synthetic Challenges and Potential Applications
- 10:10 Jishan **Wu**, National University of Singapore
Synthesis of Some Topological Molecular Carbons
- 10:45 **COFFEE BREAK**
- 11:15 Eugenia **Perez-Ojeda**, SFB 953 **A9**
Carbon Cyclophanes and Cages for Supramolecular Interactions
- 11:50 Klaas **Tielrooij**, Eindhoven University of Technology, Netherlands
The Surprising Thermodynamics of Graphene and Related Quantum Materials
- 12:30 **LUNCH / POSTER SESSION**
- 14:30 Michal **Juricek**, University of Zurich, Switzerland
Taming and Unleashing the Reactivity of Nanographene π -Radicals

- 15:05 Tao **Wei**, SFB 953 **A1**
Covalent 2D/3D-Patterning of Graphene
- 15:40 **COFFEE BREAK**
- 16:10 Dimitri **Efetov**, LMU München, Germany
Topological Properties of Magic Angle Twisted Bilayer Graphene Devices
- 16:45 Sabine **Maier**, SFB 953 **B4**
On-Surface Synthesis: A Bottom-Up Strategy to Atomically-Precise Carbon Structures
- 19:00 **SPEAKERS DINNER**

Tuesday, October 10th

- 9:00 Davide **Bonifazi**, Universität Wien, Austria
Lodging Heteroatoms in Molecular Graphenoids
- 9:35 Christian **Papp**, SFB 953 **B7**
Covalent Chemistry of Small Molecules on Supported 2D Materials
- 10:10 Igor **Alabugin**, Florida State University, USA
Localizing Aromaticity for Breaking Bonds - Localizing Antiaromaticity for Making Bonds: Classic Electronic Effects in Control of Function and Reactivity
- 10:45 **COFFEE BREAK**
- 11:15 Janina **Maultzsch**, SFB 953 **B13**
Raman Spectroscopy of Functionalized Graphene and Related Materials
- 11:50 J. D. **Tovar**, Johns Hopkins University, USA
Peptide-Driven π -Electron Assemblies: From Understanding to Prediction and Control
- 12:30 **LUNCH**