

**Tuesday, 02.09.2025***Topic: Fundamentals of Adsorption and Porous Materials Characterization*

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| 08:15 - 09:00 | Registration                                                                                                                         |
| 09:00 - 09:15 | Welcome                                                                                                                              |
| 09:15 - 10:30 | Lecture 1 - Fundamentals of Adsorption (Prof. Thommes), <i>Room H12</i>                                                              |
| 10:30 - 11:00 | Coffee Break                                                                                                                         |
| 11:00 - 12:30 | Lecture 2 - Physisorption Characterization (Prof. Thommes), <i>Room H12</i>                                                          |
| 12:30 - 13:30 | Lunch                                                                                                                                |
| 13:30 - 14:30 | Lecture 3 - Adsorption Equilibrium: Pure Components and Mixtures (Prof. Brandani), <i>Room H12</i>                                   |
| 14:30 - 14:40 | Break                                                                                                                                |
| 14:40 - 15:40 | Lab Tour Group 1 and Tutorial/Exercise Group 2 - Physisorption Characterization (Prof. Thommes), <i>Room: CIP Pool EEI 0.157-115</i> |
| 15:40 - 16:00 | Coffee Break                                                                                                                         |
| 16:00 - 17:00 | Lab Tour Group 2 and Tutorial/Exercise Group 1 - Physisorption Characterization (Prof. Thommes), <i>Room: CIP Pool EEI 0.157-115</i> |
| 19:00         | Conference Dinner (TIO Erlangen, Südliche Stadtmauerstr. 1A)                                                                         |

**Wednesday, 03.09.2025***Topic: Introduction to Adsorption Kinetics and Breakthrough Dynamics*

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| 09:00 - 10:30 | Lecture 4 - Dr. Tim Golden (Air Products, USA), <i>Room H12</i>                                 |
| 10:30 - 11:00 | Coffee Break                                                                                    |
| 11:00 - 12:30 | Lecture 5 - Adsorption Kinetics (Dr. Mangano), <i>Room H12</i>                                  |
| 12:30 - 13:30 | Lunch                                                                                           |
| 13:30 - 14:30 | Lecture 6 - BTC (Prof. Brandani), <i>Room H12</i>                                               |
| 14:30 - 14:40 | Break                                                                                           |
| 14:40 - 15:40 | Lab Tour Group 1 / Tutorial Group 2 - BTC (Prof. Brandani), <i>Room: CIP Pool EEI 0.157-115</i> |
| 15:40 - 16:00 | Coffee Break                                                                                    |
| 16:00 - 17:00 | Lab Tour Group 2 / Tutorial Group 1 - BTC (Prof. Brandani), <i>Room: CIP Pool EEI 0.157-115</i> |
| 18:30         | Beer Cellar Tour + Dinner (Entlas Keller Erlangen, An den Kellern 5-7)                          |

**Thursday, 04.09.2025***Topic: Adsorbent structure and catalysis*

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|---------------|--------------------------------------------------------------------------------------------------------|
| 09:00 - 10:30 | Lecture 7 - Dr. Federico Brandani (Air Liquide, France), <i>Room H12</i>                               |
| 10:30 - 11:00 | Coffee Break                                                                                           |
| 11:00 - 12:30 | Lecture 8 - Characterization of Nanoporous Materials: Recent Advances (Prof. Thommes), <i>Room H12</i> |
| 12:30 - 12:40 | Group picture (Red Square)                                                                             |
| 12:40 - 13:30 | Lunch                                                                                                  |
| 13:30 - 14:30 | Lecture 9 - Adsorbent structure and Catalysis (Prof. Hartmann), <i>Room H12</i>                        |
| 14:30 - 14:40 | Break                                                                                                  |
| 14:40 - 15:40 | Lab Tour Group 1 and Exercise/Tutorial Groups 2 - Prof. Hartmann, <i>Room H12</i>                      |
| 15:40 - 16:00 | Coffee Break                                                                                           |
| 16:00 - 17:00 | Lab Tour Group 2 and Exercise/Tutorial Groups 1 - Prof. Hartmann, <i>Room H12</i>                      |

**Friday, 05.09.2025***Topic: Gas Storage / CO<sub>2</sub> Capture*

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|---------------|--------------------------------------------------------------------------------------------------------|
| 09:00 - 10:30 | Lecture 10 - Fundamentals of High Pressure Adsorption and Gas Storage (Prof. Thommes), <i>Room H12</i> |
| 10:30 - 11:00 | Coffee Break                                                                                           |
| 11:00 - 12:30 | Lecture 11 - CO <sub>2</sub> Capture (Prof. Brandani), <i>Room H12</i>                                 |
| 12:30 - 12:45 | Closing                                                                                                |