



第183回GMSI公開セミナー／第7回CIAiSセミナー

## Preparation and Application of Carbon Nanotubes

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**日時：2016年1月28日(木)–29日(金)**

**場所：東京大学工学部2号館 2F 222講義室**

Single-walled carbon nanotubes (SWNTs) have unique structure and outstanding properties and have been attracting great attentions since 1993. This focus seminar will briefly introduce the fundamental issues of SWNTs including structure, property, and characterization, then intensively explain the challenges and strategy for the controlled preparation, and finish with a prospective outlook to the applications. This short-term course will help students to comprehend the fundamental knowledge about SWNTs and the progress in SWNT research.



1. Jan. 28 10:00-12:00 Introduction about the structure, property, and preparation of single-walled carbon nanotubes (SWNTs)
2. Jan. 28 13:00-14:30 Catalysts for chemical vapor deposition (CVD) of SWNTs
3. Jan. 28 15:00-16:30 Orientation and conductivity control of SWNTs during CVD
4. Jan. 28 17:00-18:30 Discussion
5. Jan. 29 10:00-12:00 Chirality control of SWNTs
6. Jan. 29 13:00-14:30 SWNTs in solution
7. Jan. 29 15:00-16:30 Application of carbon nanotubes
8. Jan. 29 17:00-18:30 Discussion