

SC13 Short lecture @ AICS

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Name	Dr. Takahisa Ohno (National Institute for Materials Science, Field 4)
Title of your Presentation	Process simulation of carbon based nanostructures in next-generation semiconductor integrated elements
Abstract	<p>The research subject named “Process simulation of carbon based nanostructures in next-generation semiconductor integrated elements” will be introduced, which is supported by the grant for “Strategic Programs for Innovative Research” Field No. 4 (Industrial Innovations) from MEXT, Japan. For the future downsizing of semiconductor devices, there is a need for novel materials and manufacturing processes that go beyond conventional approaches. The aim of this research is to support research and development in “Industrial Innovation” by creating a knowledgebase on the nanostructure processes and properties of carbon based materials and other non-silicon materials, which should be applied to semiconductor devices of nano-scale generation by using first-principles electronic structure simulations.</p>