



Applications of NPD to high-pressure science and technology; some recent advances and future perspectives

Applications of nano-polycrystalline diamond (NPD = Hime-diamond) in high-pressure science and technology have been attempted in the last 15 years or so since NPD was firstly reported in Nature (Irifune et al., 2003), in collaboration with a number of domestic/overseas research groups and individuals. A summary of such studies has just been published earlier in this year as a special volume of High Pressure Research, which showcases importance of this material as a key for the development of cutting-edge science and technology where ultra-high pressure is used. Here I will present a brief history on synthesis and applications of NPD, followed by some latest advances and future perspectives using this unique ultra-hard material produced at GRC.

Dr. Tetsuo Irifune

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2020.12.18 (Fri.) 16:30 ~

Venue: Zoom

A link will be sent @grc-all within 30 minutes before the beginning of the seminar.

Keywords: 1. Nano-Polycrystalline Diamond
2. High-Pressure Technology
3. Novel Ultra-Hard Material

