

Speaker Profile



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Dr. Byoung-Kee KIM

Director

**Materials Technology Department
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Dr. Byoung-Kee Kim is currently the Director of Materials Technology Department of Korea Institute of Machinery and Materials (KIMM), which is one of key national research institute in materials science.

He earned his B.S. in Metallurgical Engineering from Hanyang University in Korea, M.S. and Ph.D.(1989) in Materials Science from Rutgers University in U.S.A. After receiving Ph.D degree, he was a senior researcher in Nanodyne Inc. U.S.A.(1989-1991), where he developed new thermochemical process for nanostructured hard materials.

Since 1991, he joined Korea Institute of Machinery and Materials (KIMM). He has been developing new technologies for application and commercialisation of nanopowder materials. He has experienced over 20 years of synthesis and commercialisation of nanopowder materials.

He holds more than 37 patents and has published over 180 articles in journals and is the recipient of a number of awards in the field of nanostructured materials. Currently he established new venture company (Nanotech Inc., 1999) for industrialization of nanopowders. He is deeply involved in the planning and consulting for Korean national nanotechnology policy.

Major Research Area

- **Synthesis of Nanostructured Powder Materials**
(WC-Co, W-Cu, Cu-Al₂O₃, TiC, Nd-Fe-B etc.)
- **Fabrication of Nano-sized Powders**
(Fe, Co, Fe-oxide, Fe-Co, WC-Co etc.)
- **New Application Technology for Nanopowders**
(Consolidation, Coating, Dispersion)