

# Name: Vitthal Konaraddi

- **Contact Information:**

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**Location:** 2B25

- **Background:**

BE (Mechanical Engineering), Gulbarga University, 1999

ME (Mechanical Engineering), Bangalore University, 2008

Postgraduate student (Materials Engineering), University of Birmingham, UK since Aug. 2009

- **PhD topic:**

**Topic:** DEVELOPMENT OF HOT ISOSTATIC PRESSING FOR LARGE Ti-6Al-4V STRUCTURES: Process Parameters, Microstructure and Mechanical Properties Relationships.

**Description:** Research involves the development of solid-state and solid-to-powder Diffusion Bonding (DB) using Hot Isostatic Pressing (HIP) by considering the effect of temperature, degassing, powder interlayer, interface surface profile, innovative HIP process and tooling development for Ti-6Al-4V complex part development.



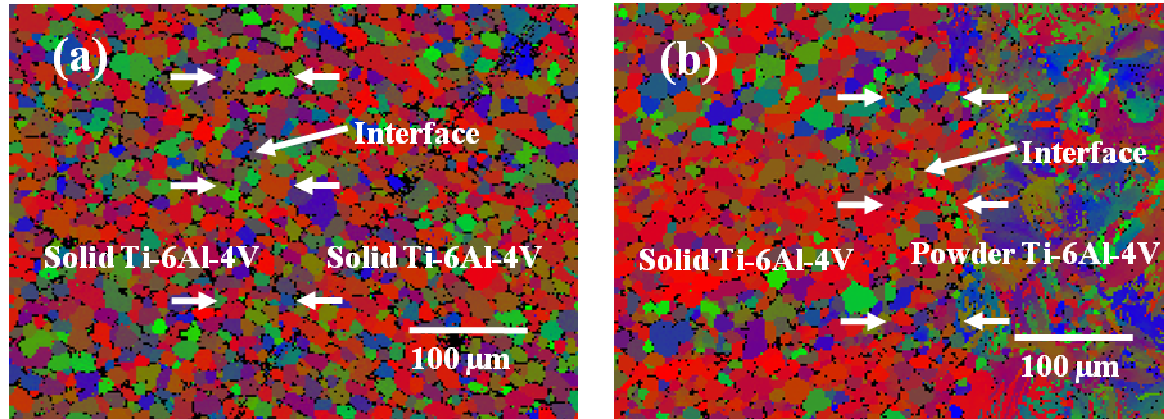


Fig. 1. (a) Solid-state and (b) solid-to-powder diffusion bonding using Hot Isostatic Pressing.

- **Experimental Techniques/Equipment:**  
SEM, EBSD (Jeol 7000), Mechanical testing (RT tensile and fatigue test) .
- **Publications:**
  1. Effect of Interface Surface Profile on the Microstructure and Tensile Properties of Hot Isostatically Diffusion Bonded Ti-6Al-4V. PowderMet2012 Conference, Nashville, USA.