

## **Bala Balachander, Delta Air Lines Limited**

**Title:** “Thermal Spray from a perspective of a Maintenance Repair and Overhaul Organization”

**Authors:** Bala Balachander\*, Komal Laul Delta Air Lines Limited, Atlanta, USA

**Abstract:** Thermal Spray Process despite being a century old special process continues to be an essential core process in aerospace and industrial gas turbines finding applications from legacy to the modern futuristic engines in multitude of components. The flexibility to use a variety of feed stock materials to satisfy the typical needs such as component restoration for dimensional restoration, abrasability, wear resistance, and thermal protection on various substrates along with its robustness and cost-effective nature makes it an attractive remanufacturing process. The ability to repair and rebuild components, extending its service life is attractive in terms of maintenance cost and sustainability. The focus of this presentation is providing an overview of thermal spray process from a perspective of a Maintenance, Repair, and Overhaul Organization. This review would cover topics of applications, evolving technologies, opportunities, challenges, and a need for research to improve the sustainability and technology.

### **Biography:**

Bala Balachander currently works as a Principal Engineer for Delta Air Lines Limited at the Delta Technical Operations, Atlanta facility with a focus on coatings and related special processes. He has completed his Ph.D. from University of Manitoba, Canada. His prior work experience includes Engineering, R&D, Quality and Business Management functions. He currently serves as a Secretary and Treasurer in the ASM-TSS board.