

**OP 226**

## Analysis and Testing solutions for Additive Manufacturing

### **Akiyoshi Yokota**

*Shimazu Corporation, Global Environment Management Department, Kyoto, Japan*

Additive Manufacturing (AM) contributes to reducing environmental impact through initiatives such as creating a circular economy.

Furthermore, since it is possible to control the microstructure and crystallographic texture, it is expected to be applied as a variety of high-performance materials such as biomaterials.

However, to ensure AM product quality, conventional analysis and testing methods alone are insufficient, and new methods are also required.

In this presentation, Analysis and Testing solutions for evaluating material powder used in Powder Bed Fusion, a typical AM method, as well as product microstructure and fatigue evaluation are introduced.