



Contribution ID: 1124

Type: **Invited Oral Presentation**

## **M1Or3B-03 [Invited]: Progress in 2G HTS wire development at MetOx**

*Monday, 22 July 2019 16:50 (25 minutes)*

YBCO based 2G HTS wires are being manufactured at MetOx on pilot production scale at this time with the ultimate goal of providing the industry with high performance and low-cost wires for magnet and cable applications. MetOx uses IBAD/MOCVD process and currently coats 12 mm wide tape. At this time MetOx wires have 50 m single piece length and 77K/SF Ic of 400-500A. Two different recipes have been developed: high in-field performance wire for magnet applications and lower cost wire for cable applications. MetOx MOCVD YBCO process has distinctive features which make it scalable for high throughput low cost production. It utilizes proprietary growth process enhancement, which allows high performance YBCO coatings to be produced in situ at high growth rates. MetOx is developing the next generation of process tools with 1000 km per year capacity which should be commissioned in 2020-21 time frame and should meet the growing demand for lower cost high performance 2G wire.

**Primary author:** Mr NOVOZHILOV, Mikhail (Metal Oxide Technologies LLC)

**Co-authors:** Mr IGNATIEV, Alex (Metal Oxide Technologies LLC); Mr JEWITT, Jim (Metal Oxide Technologies LLC)

**Presenter:** Mr NOVOZHILOV, Mikhail (Metal Oxide Technologies LLC)

**Session Classification:** M1Or3B - Focus Series A: REBCO Coated Conductors III