

## **SESSION 8b: SUBSTRATES**

Chairs: John Blevins, *Air Force Research Lab.* and Judy Kronwasser, *NOVASiC*

This session reviews recent progress in the development of wide bandgap substrates for high power RF amplification, power switching and light emitting diodes. Kyma will provide a comparison of many wide bandgap materials, both bulk and template, for nitride device applications, particularly LEDs. Hexatech will explore recent technological advances associated with bulk AlN growth and device fabrication. Dow Corning will highlight advances in scaling and quality improvement for their 100mm 4H-SiC substrates. The last paper of the session describes the success of the II-VI / Air Force Research Laboratory / Missile Defense Agency joint initiative. Improvements in 6H-SiC diameter, crystal quality, and producibility will be discussed.