

# 2016 2<sup>nd</sup> AFRL Workshop on Beta-Ga<sub>2</sub>O<sub>3</sub> Synthesis, Characterization and Applications

**Drs. Gregg Jessen; Ken Goretta | December 12-13, 2016 | Arlington, VA**

Basic Research Innovation and Collaboration Center (BRICC)  
4075 Wilson Blvd., Suite 350 | Liberty Room  
Arlington, VA 22203

## Agenda Day 1 | December 12, 2016

Time	Title	Speaker
7:30	Registration	
8:00-8:10	Introduction and US Perspective	<b>Dr. Gregg Jessen</b> (AFRL)
8:10-8:20	Ga <sub>2</sub> O <sub>3</sub> Fundamental Science Perspective	<b>Dr. Ali Sayir</b> (AFOSR)
8:20-9:00	Global Snapshot	<b>Dr. Masataka Higashiwaki</b> (NICT Japan); <b>Dr. Michele Baldini</b> (IKZ Germany)
9:00-10:00	Epitaxy and Opportunities Afforded by Native Substrate Availability	<b>Discussion Lead Prof. Jim Speck</b> (UCSB): < 15 min + 45 min open discussion
10:00-10:10	<b>BREAK</b>	
10:10-11:10	Electronic Transport and Devices	<b>Discussion Lead Prof. Debdeep Jena</b> (Cornell): < 15 min + 45 min open discussion
11:10-12:25	<b>LUNCH ON YOUR OWN</b>	
12:25-13:25	Materials Characterization and Challenges	<b>Discussion Leads Dr. Steve Ringel</b> (OSD): <15 min +40 min open discussion
13:25-14:15	Modeling and Simulation	<b>Discussion Leads Dr. Stefan Badescu</b> (AFRL) and <b>Dr. Eric Heller</b> (AFRL): 10 min atomistic + 10 min device sim + 30 min open
14:15-14:15	<b>BREAK</b>	
14:25-15:05	Commercial Materials and Reactor Development	Open forum for providers of Bulk Substrates, Epitaxial Materials, Reactors with opening remarks by <b>Dr. Akito Kuramata</b> (NCT Japan)
15:05-15:35	Applications	Industry Application Discussion
15:35-17:00	Summary and Identification of Knowledge Gaps	Group Activity

<b>17:00</b>	<b>MEETING ADJOURN FOR THE DAY</b>	
<b>17:45-19:45</b>	<b>Social:</b> The Front Page 4201 Wilson Blvd., Arlington, VA 22203 703-248-9990	<a href="http://www.frontpagearlington.com">www.frontpagearlington.com</a>

<b>Agenda Day 2   December 13, 2016</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
<b>7:30</b>	<b>Registration</b>	
<b>8:00</b>	Rehash and Discussion on Application Space	This is a forum where non-proprietary application oriented discussions are encouraged and may include ITAR/EAR information.
<b>9:00</b>	Reserved by appointment	
<b>9:25</b>	Reserved by appointment	
<b>9:50</b>	Reserved by appointment	
<b>10:15</b>	Reserved by appointment	
<b>10:40</b>	Reserved by appointment	
<b>11:05</b>	Reserved by appointment	
<b>11:30</b>	<b>Gov't Caucus</b>	Gov't only discussion on program coordination and technical direction
<b>12:30</b>	<b>MEETING ADJOURN</b>	