

2024 MURI review: Gallium Oxide Materials Science and Engineering (GAME)

Dr. Ali Sayir | August 19, 2024 | Arlington, VA

Basic Research Innovation Collaboration Center (BRICC)
4100 N Fairfax Drive, Suite 450 | Arlington, VA 22203

| Time | Topic | Speaker |
|-------------|---|--|
| 8:30-9:00 | Registration | |
| 9:00-9:15 | Welcome and Introduction | Ali Sayir, AFOSR |
| 9:15-9:30 | MURI Overview | Jim Speck, UCSB |
| 9:30-10:00 | Materials Growth | Jim Speck, UCSB |
| 10:00-10:45 | MOCVD development of β -Ga ₂ O ₃ and heterostructures | Hongping Zhao, The Ohio State University |
| 10:45-11:00 | BREAK | |
| 11:00-11:30 | First-principles modeling of dopants, defects and surfaces in Ga ₂ O ₃ and related alloys | Chris Van de Walle, UCSB |
| 11:30-12:15 | Deep Acceptors and Carbon Defects in Gallium Oxide Studied by Defect Spectroscopy | Steve Ringel, The Ohio State University |
| 12:15-1:30 | LUNCH ON YOUR OWN | |
| 1:30-2:15 | Advanced STEM Studies | Jinwoo Hwang, The Ohio State University |
| 2:15-3:00 | AlGaO phonon dispersion from first principles And HFET devices | Uttam Singisetti, University at Buffalo (SUNY) |
| 3:00-3:15 | BREAK | |
| 3:15-4:00 | Gallium Oxide Device Engineering | Siddharth Rajan, The Ohio State University |
| 4:00-4:30 | Government Caucus | |
| 4:30- 5:00 | Feedback to MURI team | |
| 5:00 | MEETING ADJOURN | |