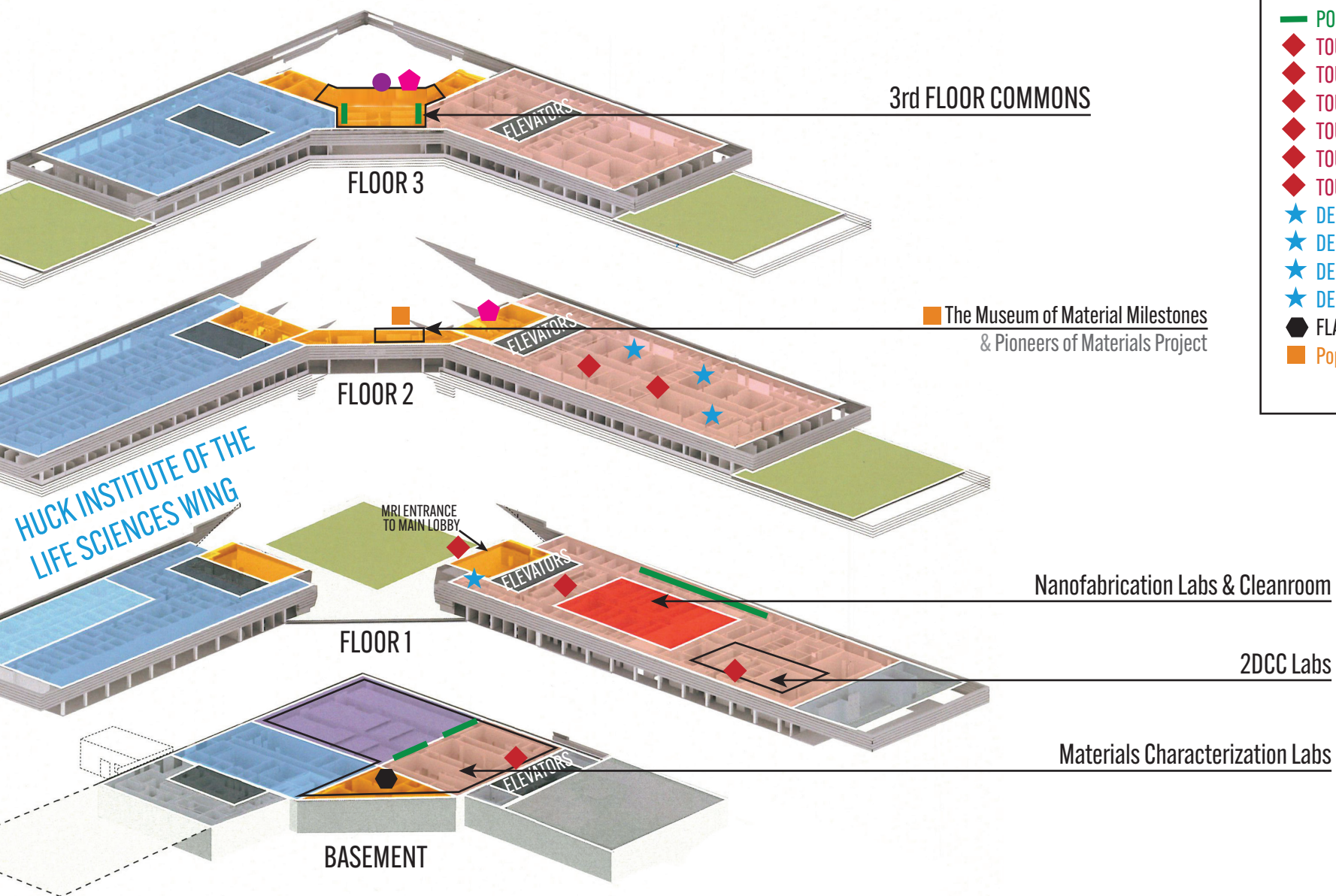


# Materials Day Open House at the Millennium Science Complex

## Event Key Locations

- Registration
- Industry Meet & Greet
- ◆ Reception
- POSTER SESSIONS
- ◆ TOUR: Optics Lab\*
- ◆ TOUR: Electronics Testing Lab\*
- ◆ TOUR: Nanofabrication Lab\*
- ◆ TOUR: 2DCC Lab\*
- ◆ TOUR: SCIA/onsemi SiC3\*
- ◆ TOUR: MCL Labs\*
- ★ DEMO: 5G\*
- ★ DEMO: Plant Sensor\*
- ★ DEMO: Brochosomes\*
- ★ DEMO: Graphene Tongue\*
- FLASH TALKS\*
- Pop-up Museum & Gallery

\*see other side for details



## MCL FLASH TALKS Location: Basement, Characterization Commons

- 10:15 a.m. Deposition and Characterization of Electronic Thin Films  
10:30 a.m. Surface Roughness Measurements: Choice of Technique and Analysis  
10:45 a.m. Imaging Delicate or Hydrated Materials in the Transmission Electron Microscope  
11:15 a.m. Characterization of Materials Using Thermal Analysis  
11:30 a.m. Characterization of Substrates and Thin Films Using X-rays  
11:45 a.m. Beyond the Diffraction Limit: Illuminating Surfaces and Interfaces with AFM-IR  
2:00 p.m. Characterization of Critical Mineral Phases in Mine Waste Products  
2:15 p.m. Mapping Elemental Composition and Chemical Bonding at the Nanoscale Using TEM  
2:30 p.m. AFM in Action: Mapping the Nanoscale in Fluid  
2:45 p.m. Morphometric Brochure: Image Transformations for 2D/3D Microstructure Analysis  
3:00 p.m. Non-Destructive Depth Profiling of Organic Films using FTIR-ATR  
3:15 p.m. Utilization of GCIB for Mitigating Surface Contamination and Enabling Depth Profiling of Organic Films by XPS  
3:30 p.m. TGA and FTIR Coupled with Mass Spectrometry for Evolved Gas Analysis  
3:45 p.m. New Courses and Industry-Focused Workshops on Materials Characterization

FOR COMPLETE DETAILS:



## MATERIALS CHARACTERIZATION LAB TOURS

- |            |                                      |        |
|------------|--------------------------------------|--------|
| 10:30 a.m. | SEM/FIB Lab Tour                     | N-031A |
| 10:45 a.m. | Surface Analysis Lab Tour            | N-031D |
| 11:00 a.m. | AFM Mixed Reality Training Demo      | N-030B |
| 11:15 a.m. | XRD: Wafer Defect Mapping            | N-030D |
| 11:30 a.m. | Molecular Spectroscopy Tour          | N-007  |
| 2:15 p.m.  | Surface Metrology Lab Tour           | N-030B |
| 2:30 p.m.  | GIXRD: Thin Films and Bulk Materials | N-008  |
| 3:00 p.m.  | XRD: Wafer Defect Mapping            | N-030D |
| 3:15 p.m.  | TEM Lab Tour                         | N-30G  |
| 3:30 p.m.  | GIXRD: Thin Films and Bulk Materials | N-008  |
| 3:45 p.m.  | Thermal Analysis Lab Tour            | N-007  |

## TOURS and DEMOS

- 9:15 a.m. TOUR: Silicon Carbide Innovation Alliance onsemi SiC3 (SCIA/SiC3)  
Depart from the 3rd Floor Commons  
10:00 a.m. DEMO: 5G Characterization Techniques and Center for Dielectrics and Piezoelectrics (CDP) Technologies Room N-249  
10:15 a.m. TOUR: Electronics Testing Lab Room N-221  
10:30 a.m. DEMO (Technology Showcase): Synthetic Brochosomes: Novel Bioinspired Optical Materials Room N-252  
10:45 a.m. TOUR: Optics Lab Room N-213  
11:00 a.m. DEMO (Technology Showcase): Graphene Tongue (tentative Room N-226A)  
11:15 a.m. TOUR: Nanofabrication Lab and Gowning Room Window Tour  
First Floor, Nanofabrication Lab Entrance  
11:30 a.m. DEMO (Technology Showcase): In-field Plant Nutrient Sensor Room N-203B  
11:45 a.m. TOUR: 2-Dimensional Crystal Consortium (2DCC) First Floor, 2DCC Hall  
2:00 p.m. DEMO: 5G Characterization Techniques and Center for Dielectrics and Piezoelectrics (CDP) Technologies Room N-249  
2:15 p.m. TOUR: Electronics Testing Lab Room N-221  
2:30 p.m. DEMO (Technology Showcase): Synthetic Brochosomes: Novel Bioinspired Optical Materials Room N-252  
2:45 p.m. TOUR: Optics Lab Room N-213  
3:00 p.m. DEMO (Technology Showcase): Graphene Tongue (tentative Room N-226A)  
3:15 p.m. TOUR: Nanofabrication Lab and Gowning Room Window Tour  
First Floor, Nanofabrication Lab Entrance  
3:30 p.m. DEMO (Technology Showcase): In-field Plant Nutrient Sensor Room N-203B  
3:45 p.m. TOUR: Silicon Carbide Innovation Alliance onsemi SiC3 (SCIA/SiC3)  
Depart from the 3rd Floor Commons  
4:00 p.m. TOURS: Your choice of the Materials Characterization Lab (basement),  
Nanofabrication Lab (first floor), or the 2-Dimensional Crystal Consortium (first floor)

FOR COMPLETE DETAILS:

