

AFRL+CHTM NANOCONFERENCE

FRIDAY
MARCH 31

8:00 a.m - 8:30 a.m.		<i>Continental Breakfast & Check-In</i>
8:45 a.m - 9:00 a.m.		Opening Remarks
9:00 a.m - 9:15 a.m.	microtalk 1	Nanofabrication Facility Operations CHTM: <i>Dr. Tito Busani</i>
9:15 a.m - 9:30 a.m.	microtalk 2	Semiconductor Research at CHTM CHTM: <i>Dr. Ganesh Balakrishnan</i>
9:30 a.m - 9:45 a.m.	microtalk 3	Electronics & Sensors for Space AFRL: <i>Dr. David Cardimona</i>
9:45 a.m - 10:00 a.m.		<i>Discussion & Coffee</i>
10:00 a.m - 10:30 a.m.	microtalk 4, 5	Advanced Electro-Optic Space Sensors AFRL: <i>Dr. Vincent Cowan, Dr. Christian Morath, Dr. Danhong Huang, Dr. Preston Webster, Mr. Geoffrey Jenkins, Dr. Elizabeth Steenbergen, Dr. John Hubbs</i>
10:30 a.m - 10:45 a.m.	microtalk 6	HVPE Generation of Ultra-Low Cost Space Solar Cells with Efficiency & Performance Metrics Exceeding Silicon AFRL: <i>Dr. Bernard Carpenter</i>
10:45 a.m - 11:00 a.m.		<i>Discussion & Coffee</i>
11:00 a.m - 11:30 a.m.	microtalk 7, 8	Advanced Space Power AFRL: <i>Dr. Geoffrey K. Bradshaw, Dr. Kyle Montgomery, Dr. David Wilt</i>
11:30 a.m - 11:45 a.m.	microtalk 9	Single-Molecule Devices: Materials, Structure & Characteristics AFRL: <i>Dr. Ashwani Sharma</i>
11:45 a.m - 12:00 p.m.		<i>Discussion & Coffee</i>
12:00 p.m - 1:00 p.m.		LUNCH
1:00 p.m - 1:15 p.m.	microtalk 10	Density Functional Calculations of Defect Levels & Band Gaps in Cubic & Hexagonal SiC & GaN Using the Local Moment Counter Charge Technique AFRL: <i>Dr. Arthur H. Edwards</i>
1:15 p.m - 1:30 p.m.	microtalk 11	Benchmarking Image Processing for Space: Introducing the SPACER Architecture Laboratory AFRL: <i>Dr. Andrew C. Pineda</i>
1:30 p.m - 1:45 p.m.	microtalk 12	Quantum Cascade Laser Research at RD AFRL: <i>Dr. Ron Kaspi</i>
1:45 p.m - 2:00 p.m.		<i>Discussion & Coffee</i>
2:00 p.m - 2:15 p.m.	microtalk 13	Optical Atomic Clocks: Ultra-Precise Instruments for Science & Technology AFRL: <i>Dr. Nathan Lemke</i>
2:15 p.m - 2:30 p.m.	microtalk 14	Beam projection & compensation in the presence of distributed-volume atmospheric aberrations AFRL: <i>Dr. Mark Spencer</i>
2:30 p.m - 2:45 p.m.	microtalk 15	High Power Fiber Lasers at AFRL AFRL: <i>Dr. Angel Flores</i>
2:45 p.m - 3:00 p.m.		Closing Remarks
3:00 p.m - 4:00 p.m.		<i>Social Hour & Refreshments</i>