

## QWIP 2002 Workshop - Program

	Monday, 14	Tuesday, 15	Wednesday, 16	Thursday, 17
9.00 AM	<b>Opening Session Gabby Sarusi</b>	Schacham S.E.: InAs Quantum Dot and Quantum Wire Infrared Photodetectors	Schneider H.: QWIP research and FPA development at Fraunhofer IAF	Gunapala S. D.: Quantum Well Infrared Photodetector Research and Development at Jet Propulsion Laboratory
9.30 AM	Goldberg A.: Detection of Buried Land Mines using a Dual-Band LWIR/LWIR QWIP Focal Plane Array	Finkman E.: Photoconductivity of Ge/Si Quantum Dot Photodetectors	Bandara S. V.: Multi-Band Quantum Well Infrared Photodetectors	Carbone A.: Photocurrent Noise in QWIPs with different number of wells
10.00 AM	Jhabvala M.: Development of a 4-15 $\mu$ m Infrared GaAs Hyperspectral QWIP Imager (HQI)	Le D.T.: High Responsivity, Normal Incidence, Long-Wave Infrared ( $\lambda=7.2$ mm), InAs/In <sub>0.15</sub> Ga <sub>0.85</sub> As	Kuan C.H.: Multicolor infrared detection realized with two distinct superlattices separated by a blocking barrier	Guzman A.: Study of GaAsN/AlAs/GaAs double barrier quantum wells grown by Molecular Beam Epitaxy as an alternative to infrared absorption below 4 $\mu$ m
10.30 AM	Tidrow M.: IR FPAs for Ballistic Missile Defense and Where III-V Material Fits	Liu H.C.: Current status of quantum dot intraband infrared photodetector	Luna E.: On the growth conditions of 3-5 $\mu$ m well-doped AlGaAs/AlAs/GaAs infrared detectors and its relation to the photovoltaic effect studied by transmission electron microscopy	Lu J.H.: Study of Period Number Effect in the Superlattice Infrared Photodetector
11.00 AM	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>
11.30 AM	Choi K. K.: Broadband and narrow band light coupling for QWIPs	Perera, A.G.U.: Light-Heavy Hole Transition Effects on the Cutoff Wavelength of Homo Junction Infrared Detectors	Morath C.P. Novel 3-Terminal Lateral, Long-Wave Infrared InAs/In <sub>0.15</sub> Ga <sub>0.85</sub> As Dots in a Well Detector	Luna E.: Modulation-doping in 3-5 $\mu$ m AlGaAs/AlAs/GaAs double barrier quantum well infrared photodetectors: an alternative to achieve high photovoltaic performance and high temperature detection
12.00 PM	De Rossi A.: Effect of finite pixel size on optical coupling in QWIPs	Alsing P.M.: Laser induced modification of optical absorption properties in semiconductor quantum well structures	Wang S. Y.: InAs/GaAs Quantum Dot Infrared Photodetectors with Different Growth Temperature	Steinkogler S.: Time-resolved Electron Transport Studies on InGaAs/GaAs-QWIPs
12.30 PM	Majumdar A.: Electron Transfer Based Voltage Tunable Two-Color Quantum Well Infrared Photodetectors	Apostolova T.: Phonon-Assisted Nonlinear Normal-Incidence Intersubband Absorption in Semiconductor Quantum Wells	Nedelcu, A.: Energy Pseudogap Opening in Periodic Arrays of AlGaAs Quantum Wires Grown on Vicinal Surfaces	<b>Closing Session</b>
1.00 PM	<b>Lunch</b>	<b>Lunch</b>	<b>Excursion</b>	<b>Lunch</b>
2.30 PM	Szmulowicz F.: Overcoming Absorption Saturation with Doping in p-type Quantum Well Infrared Photodetectors: Modeling and Experiment	Bandara S.: Imaging interferometer for dual broadband, quantum well infrared photodetectors		<b>Excursion</b>
3.00 PM	Etef N.E.I.: Quantum mechanical scattering investigation of the dark current in quantum well infrared photodetectors (QWIPs)	Serna M.: Single-Pixel Polarimeter: Dielectric-Gratings Model and Fabrication Progress		
3.30 PM	Gadir M.A.: Modeling the capture probability and enhancing the photoconductive gain in quantum well infrared photodetectors (QWIPs)	Sarusi G.: QWIP or other alternatives for third gen. infrared systems		
4.00 PM	Huang D.H.: Non-Adiabatic Current Oscillations and Coupling to Field-Domain Effects in Quantum Well Detectors	Fauci M.: Recent Advances in Medical Imaging Applications Using Quantum Well Infrared Photodetectors		
4.30 PM	<b>Coffee Break</b>	<b>Coffee Break</b>		<b>7.00 p.m. Social Dinner</b>