

CLEO 2009 MIRTHE Presenter list

Presentation #	Session Title	Session Type	Category	Date	Time	Location	Title	First Author	MIRTHE Co-authors
SC334		Short Course		5/31/2009	3:00 PM		The Art of Modeling Optical Systems	Curtis Menyuk	
IMB1	Infrared and Nonlinear Plasmonics	IQEC Oral	IQEC 06: Nano-Optics and Plasmonics	6/1/2009	8:00 AM	Room 314	Active Control and Spatial Mapping of Mid-Infrared Propagating Surface Plasmons	Troy Ribaudo	Scott S. Howard, Claire Gmachl, Fow-Sen Choa
CM12	THz Instrumentation and Techniques	CLEO Oral	CLEO 05: Terahertz Technologies and Applications	6/1/2009	8:15 AM	Room 340	Inverse-Quantum-Engineering: A New Methodology for Designing THz QCLs for Basic and Applied Research	Inès Waldmueller	Michael C. Wanke
CMO	Free Space Optical and Quantum Communications	CLEO Oral		6/1/2009	10:15 AM	Room 316	*Presider*	Curtis Menyuk	
IMD1	Plasmonic Antennas and Devices	IQEC Oral	IQEC 06: Nano-Optics and Plasmonics	6/1/2009	10:15 AM	Room 314	Semiconductor Lasers with Integrated Plasmonic Polarizers	Nanfang Yu	Capasso, Federico
CMS2	Pollutant and Emission Sensing	CLEO Oral	CLEO 13: Active Optical Sensing	6/1/2009	10:45 AM	Room 338	Ultra-Compact Multipass Laser Absorption Spectroscopy Platform for Distributed Sensor Networks	Stephen G. So	Frank K. Tittel, Gerard Wysocki
CMS3	Pollutant and Emission Sensing	CLEO Oral	CLEO 13: Active Optical Sensing	6/1/2009	11:00 AM	Room 338	Design and Deployment of a Quantum Cascade Laser Absorption Spectrometer in an Open-Path Sensor System For Trace Gas Analysis	Anna P. M. Michel	Peter Q. Liu, June K. Yeung, Paul Corrigan, Mary Lynn Baeck, Timothy Day, James A. Smith, Fred Moshary, Claire F. Gmachl
CMN5	10 Years of Frequency Combs CLEO Symposium II	Symposium	CLEO 14: Optical Metrology	6/1/2009	11:15 AM	Rooms 324-326	Quantum-Limited Comb Lineshape and Frequency Uncertainty	Jared K. Wahlstrand	Curtis R. Menyuk
IME6	Solitons and Nonlinear Wave Propagation	IQEC Oral	IQEC 05: Nonlinear Optics and Novel Phenomena	6/1/2009	11:30 AM	Room 315	Nonlinear Self-Focusing of Partially-Coherent Spatial Beams	Can Sun	Jason W. Fleischer
CMS6	Pollutant and Emission Sensing	CLEO Oral	CLEO 13: Active Optical Sensing	6/1/2009	11:45 AM	Room 338	Real Time Ammonia Detection in Exhaled Human Breath with a Quantum Cascade Laser Based Sensor	Rafał Lewicki	Anatoliy A. Kosterev, Yury A. Bakhirkin, David M. Thomazy, Jim Doty, Lei Dong, Frank K. Tittel, Terence H. Risby, Steven Solga, Deborah Kane, Timothy Day
CMFF	Four-Wave Mixing	CLEO Oral		6/1/2009	1:30 PM	Room 341	*Presider*	Jason Fleischer	
CMBB6	Laser Sources	CLEO Oral	CLEO 08: Ultrafast Optics, Optoelectronics and Applications	6/1/2009	2:45 PM	Room 336	Mode-Locking via Active Gain Modulation in Quantum Cascade Lasers	Lyuba Kuznetsova	A. Belyanin, H. C. Liu, Federico Capasso
CMII	High Repetition Rate Combs	CLEO Oral		6/1/2009	3:45 PM	Rooms 324-326	*Presider*	Curtis Menyuk	
IMK1	Nanoplasmonic Waveguides and Devices	IQEC Oral	IQEC 06: Nano-Optics and Plasmonics	6/1/2009	3:45 PM	Room 314	Surface Plasmon Enhanced Magneto-Optic Isolator	Juan Montoya	Mark G Allen
IMK5	Nanoplasmonic Waveguides and Devices	IQEC Oral	IQEC 06: Nano-Optics and Plasmonics	6/1/2009	4:45 PM	Room 314	Practical Limits of Absorption Enhancement near Metal Nanoparticles	Greg Sun	Jacob B. Khurgin
CMNN7	Fiber Based Sensing	CLEO Oral	CLEO 10: Medical and Biological Applications	6/1/2009	5:15 PM	Room 337	Label-Free Optical Detection of Biomolecular Reaction Kinetics in Microarray Format for High-throughput Screening Applications	Elizabeth J. Smythe	Federico Capasso
ITuC4	Spatial and Temporal Nonlinear Effects	IQEC Oral	IQEC 05: Nonlinear Optics and Novel Phenomena	6/2/2009	8:45 AM	Room 338	Self-Filtering of Noisy Images via Stochastic Resonance	Dmitry V. Dylov	Jason W. Fleischer
CTuF6	LED Materials and III-Nitride Semiconductors	CLEO Oral	CLEO 06: Optical Materials, Fabrication and Characterization	6/2/2009	9:30 AM	Room 336	Stark Effect Induced by Photogenerated Carriers in Multiple GaN/AlN Asymmetric Coupled Quantum Wells	Guan Sun	Jacob B. Khurgin
ITuC7	Spatial and Temporal Nonlinear Effects	IQEC Oral	IQEC 05: Nonlinear Optics and Novel Phenomena	6/2/2009	9:30 AM	Room 338	Airy Beam Propagation through Unbiased Photorefractive Media	Joyce Lee	Jason W. Fleischer
SC301		Short Course		6/2/2009	9:30 AM		Quantum Cascade Lasers: From Band Structure Engineering to Commercialization	Federico Capasso	
CTuO2	Waveguides and Emitters	CLEO Oral	CLEO 06: Optical Materials, Fabrication and Characterization	6/2/2009	10:45 AM	Room 336	Solution-Cast As ₂ S ₃ Raised Strip Waveguides for Integrated Mid-IR Optics	Candice Tsay	Elvis Mujagic, Claire F. Gmachl, Craig B. Arnold
CTuO3	Waveguides and Emitters	CLEO Oral	CLEO 06: Optical Materials, Fabrication and Characterization	6/2/2009	11:00 AM	Room 336	Optical Loss Reduction in HIC Chalcogenide Glass Waveguides via Thermal Reflow	Juejun Hu	Kathleen Richardson
JTuD112	Joint CLEO/IQEC Poster Session I	Poster	IQEC 05: Nonlinear Optics and Novel Phenomena	6/2/2009	1:00 PM	Exhibit Hall	Beam Interaction in Self-Defocusing Nonlinear Media with Nonlocal Response	Can Sun	Jason W. Fleischer
JTuD15	Joint CLEO/IQEC Poster Session I	Poster	CLEO 03: Semiconductor Lasers	6/2/2009	1:00 PM	Exhibit Hall	Fast Wavelength Tuning of External Cavity Quantum Cascade Lasers	Tracy R. Tsai	Gerard Wysocki
JTuD18	Joint CLEO/IQEC Poster Session I	Poster	CLEO 03: Semiconductor Lasers	6/2/2009	1:00 PM	Exhibit Hall	Tunable External-Cavity Quantum Cascade Laser Sources for Gas Sensing and Spectroscopy	David R. Scherer	Mark G. Allen
JTuD23	Joint CLEO/IQEC Poster Session I	Poster	CLEO 03: Semiconductor Lasers	6/2/2009	1:00 PM	Exhibit Hall	Intersubband Absorption Loss in High-Performance Mid-Infrared Quantum Cascade Lasers	Yamac Dikmelik	Jacob B. Khurgin, Matthew D. Escarra, Peter Q. Liu, Anthony J. Hoffman, Kale J. Franz, Claire F. Gmachl

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JTuD52	Joint CLEO/IQEC Poster Session I	Poster	CLEO 09: Components, Integration, Interconnects and Signal Processing	6/2/2009	1:00 PM	Exhibit Hall	Digital Reconstruction of Axially Thick Potentials	Christopher Barsi	Jason W. Fleischer
JTuD83	Joint CLEO/IQEC Poster Session I	Poster	CLEO 13: Active Optical Sensing	6/2/2009	1:00 PM	Exhibit Hall	Atmospheric Trace Gases Concentration Measurements Using Open Path FTIR	Daniela V. Vladutescu	Maung Lwing, Barry Gross, Fred Moshary, Samir Ahmed
CTuZ	Nonlinear Optics for Imaging and Metrology	CLEO Oral		6/2/2009	2:30 PM	Room 341	*Presider*	Jason Fleischer	
CTuV5	Photodetectors and Modulators	CLEO Oral	CLEO 16: Micro- and Nano-Photonics Devices	6/2/2009	3:45 PM	Room 317	Enhanced Electro-Optic Effects in Suspended Waveguides	Todd H. Stievater	Jacob B. Khurgin
ITuG5	Novel Optical Phenomena	IQEC Oral	IQEC 03: Fundamentals of Metamaterials, Periodic and Random Media	6/2/2009	3:45 PM	Rooms 318-320	Nonlinear Light Propagation in Fractal Waveguide Arrays	Shu Jia	Jason W. Fleischer
CTuGG	Mid-Infrared Semiconductor Lasers	CLEO Oral		6/2/2009	4:45 PM	Room 340	*Presider*	Jerry R. Meyer	
CTuHH2	Nonlinear Optical Physics	CLEO Oral	CLEO 04: Applications of Nonlinear Optics	6/2/2009	5:00 PM	Room 341	Wave Tunneling and Hysteresis in Nonlinear Junctions	Wenjie Wan	Jason W. Fleischer
CTuGG6	Mid-Infrared Semiconductor Lasers	CLEO Oral	CLEO 03: Semiconductor Lasers	6/2/2009	6:15 PM	Room 340	InAsyP1-y Metamorphic Buffer Layers (MBLs) on InP Substrates for Mid-IR Diode Lasers	Jeremy Kirch	Jerry R. Meyer
CTuHH4	Nonlinear Optical Physics	CLEO Oral	CLEO 04: Applications of Nonlinear Optics	6/2/2009	6:15 PM	Room 341	Rayleigh-Taylor Instability in Nonlinear Optics	Shu Jia	Jason W. Fleischer
JWA118	Joint CLEO/IQEC Poster Session II	Poster	IQEC 04: Optical Interactions with Condensed Matter and Ultrafast Phenomena	6/3/2009	12:00 PM	Exhibit Hall	Stimulated Stokes and Anti-Stokes Raman Scattering Processes of Coherent G-Mode Vibrations in Single-Walled Carbon Nanotubes	Ji-Hee Kim	Junichiro Kono
JWA62	Joint CLEO/IQEC Poster Session II	Poster	CLEO 13: Active Optical Sensing	6/3/2009	12:00 PM	Exhibit Hall	Optimization of Microresonator Parameters for a Quartz-Enhanced Photoacoustic Spectroscopy Sensor	Lei Dong	Anatoliy A. Kosterev, David Thomazy, Frank K. Tittel
JWA66	Joint CLEO/IQEC Poster Session II	Poster	CLEO 13: Active Optical Sensing	6/3/2009	12:00 PM	Exhibit Hall	Assessment of Dual Ammonia and Ozone Open-Path Sensing with a Quantum Cascade Laser	Paul Corrigan	Maung Lwin, Barry Gross, Fred Moshary
JWA8	Joint CLEO/IQEC Poster Session II	Poster	CLEO 04: Applications of Nonlinear Optics	6/3/2009	12:00 PM	Exhibit Hall	Optical Auto-Correlation Peak Discriminator for Optical CDMA Signal Detection	Mable P. Fok	Paul R. Prucnal
JWC5	Nanophotonics and Metamaterial Symposium I: Bulk Metamaterials	Symposium	Nanophotonics and Metamaterials Joint CLEO/IQEC Symposium	6/3/2009	2:45 PM	Rooms 324-326	Super-Resolution Imaging Using Spatial Fourier Transform Infrared Spectroscopy	Leonid Alekseyev	Jacob Khurgin
JWC6	Nanophotonics and Metamaterial Symposium I: Bulk Metamaterials	Symposium	Nanophotonics and Metamaterials Joint CLEO/IQEC Symposium	6/3/2009	3:00 PM	Rooms 324-326	Impact of Disorder on Surface Plasmons in Two-Dimensional Arrays of Metal Nanoparticles	Jacob B. Khurgin	
IWD	Photon-Lattice Interactions	IQEC Oral		6/3/2009	4:45 PM	Room 314	*Presider*	Jacob B. Khurgin	
IWD3	Photon-Lattice Interactions	IQEC Oral	IQEC 04: Optical Interactions with Condensed Matter and Ultrafast Phenomena	6/3/2009	5:15 PM	Room 314	Observation of Anti-Stokes Fluorescence from GaN Film Grown on Si (111) Substrate	Suvranta K. Tripathy	Jacob B. Khurgin
IWD6	Photon-Lattice Interactions	IQEC Oral	IQEC 04: Optical Interactions with Condensed Matter and Ultrafast Phenomena	6/3/2009	6:00 PM	Room 314	Coherent Lattice Vibrations in Small Diameter Single-Walled Carbon Nanotubes	Yong-Sik Lim	Junichiro Kono
CThC1	Quantum Cascade Lasers I	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	8:00 AM	Room 316	Low Temperature Sensitive, Deep-Well 4.8 μ m Emitting Quantum Cascade Semiconductor Lasers	Jae Cheol Shin	Jerry R. Meyer
CThG	Emerging Applications in Laser Processing	CLEO Oral		6/4/2009	8:00 AM	Room 340	*Presider*	Craig Arnold	
CThI1	Spectroscopic Gas Sensing II	CLEO Oral	CLEO 13: Active Optical Sensing	6/4/2009	8:00 AM	Rooms 328-329	Portable Spectroscopic Carbon Dioxide Monitor for Carbon Sequestration Applications	Anatoliy A. Kosterev	Lei Dong, David Thomazy, Frank K. Tittel
CThC2	Quantum Cascade Lasers I	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	8:15 AM	Room 316	Ultra-Low Voltage Defect Quantum Cascade Lasers	Matthew D. Escarra	Anthony J. Hoffman, Kale J. Franz, Scott S. Howard, Claire Gmachl
CThI3	Spectroscopic Gas Sensing II	CLEO Oral	CLEO 13. Active Optical Sensing	6/4/2009	8:30 AM	Rooms 328-329	Challenges and Opportunities for Next-Generation Diode Laser Active Sensing	Mark G. Allen	
CThC4	Quantum Cascade Lasers I	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	8:45 AM	Room 316	Interface Roughness Broadening in Intersubband Lasers: Homogeneous or Not?	Jacob B. Khurgin	Yamac Dikmelik
CThC5	Quantum Cascade Lasers I	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	9:00 AM	Room 316	Instantaneous Power and Threshold in Continuous Wave Quantum Cascade Lasers	Anthony J. Hoffman	Phillip X. Braun, Matthew D. Escarra, Scott S. Howard, Kale J. Franz, Claire Gmachl
CThG2	Emerging Applications in Laser Processing	CLEO Oral	CLEO 01: Laser Processing of Materials: Fundamentals and Applications	6/4/2009	9:00 AM	Room 340	Parallel Direct-Write Nanolithography Using Arrays of Optically Trapped Microlenses	Euan McLeod	Arnold, Craig B
CThC6	Quantum Cascade Lasers I	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	9:15 AM	Room 316	Broad-Area Quantum Cascade Lasers with Pulsed Output Power up to 53 W	Jill A. Nolde	Jerry R. Meyer

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CTH5	Spectroscopic Gas Sensing II	CLEO Oral	CLEO 13: Active Optical Sensing	6/4/2009	9:15 AM	Rooms 328-329	Multiple Chemical Sensor Using a Rapidly Tuned External Cavity Quantum Cascade Laser	Mark C. Phillips	Tanya L. Myers
CThL1	Quantum Cascade Lasers II	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	10:30 AM	Room 316	Quantum Cascade Lasers with Ultra-Strong Coupling Injection	Peter Q. Liu	Anthony J. Hoffman, Matthew D. Escarra, Kale J. Franz, Jacob B. Khurgin, Yamac Dikmelik, Claire F. Gmachl
CThM1	Quantum Materials Technology	CLEO Oral	CLEO 16: Micro- and Nano-Photonics Devices	6/4/2009	10:30 AM	Room 317	Pockels Effect in Short Period Silicon Germanium Superlattices	Jacob B. Khurgin	
CThL5	Quantum Cascade Lasers II	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	11:30 AM	Room 316	Negative Differential Resistance and Pulse Instabilities in Minimalized Quantum Cascade Laser Structures	Kale J. Franz	James J. J. Rafferty, Peter Q. Liu, Anthony J. Hoffman, Matthew D. Escarra, Scott S. Howard, Yamac Dikmelik, Jacob B. Khurgin, Claire Gmachl
CThL6	Quantum Cascade Lasers II	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	11:45 AM	Room 316	Spatial Hole Burning in Actively Mode-Locked Quantum Cascade Lasers	Vasileios-Marios Gkortsas	Alexey Belyanin, Federico Capasso
CThM7	Quantum Materials Technology	CLEO Oral	CLEO 16: Micro- and Nano-Photonics Devices	6/4/2009	12:00 PM	Room 317	Carrier Localization Impact on Time-Resolved Dependence of the Photoluminescence of CdSe/ZnCdMgSe Self-Assembled Quantum Dots at Different Temperatures	Iosif Zeylikovich	Aidong Shen, Maria Tamargo
CThN6	Novel Fiber Sources	CLEO Oral	CLEO 11: Fiber Amplifiers, Lasers and Devices	6/4/2009	12:00 PM	Room 336	Generating Mid-IR Source Using As ₂ S ₃ -Based Chalcogenide Photonic Crystal Fibers	Jonathan Hu	Curtis R. Menyuk
JThE14	Joint CLEO/IQEC Poster Session III	Poster	CLEO 03: Semiconductor Lasers	6/4/2009	1:00 PM	Exhibit Hall	Observation of Degenerate and Non-Degenerate Lateral-Mode Patterns in Mid-IR Quantum Cascade Lasers	Nikolai M. Stelmakh	Fatima Toor, Claire Gmachl
JThE18	Joint CLEO/IQEC Poster Session III	Poster	CLEO 03: Semiconductor Lasers	6/4/2009	1:00 PM	Exhibit Hall	Enhancing Wavelength Selection for Quantum Cascade Laser Based Chemical Sensors by Cavity Length Variation	Christina Young	Richard Cendejas, Scott S. Howard, Wendy Sanchez-Vaynshteyn, Anthony J. Hoffman, Kale J. Franz, Yu Yao, Claire F. Gmachl
JThE41	Joint CLEO/IQEC Poster Session III	Poster	CLEO 06: Optical Materials, Fabrication and Characterization	6/4/2009	1:00 PM	Exhibit Hall	Spin-Coating of Ge ₂₃ Sb ₇ S ₇₀ Chalcogenide Glass Thin Films	Shanshan Song	Kathleen Richardson, Craig B. Arnold
JThE83	Joint CLEO/IQEC Poster Session III	Poster	CLEO 14: Optical Metrology	6/4/2009	1:00 PM	Exhibit Hall	Modeling Opto-Electronic Oscillators	Etgar C. Levy	Curtis R. Menyuk
CThT	Quantum Cascade Lasers III	CLEO Oral		6/4/2009	2:30 PM	Room 316	*President*	Claire F. Gmachl	
CThT1	Quantum Cascade Lasers III	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	2:30 PM	Room 316	Broadband Distributed Feedback Quantum Cascade Laser Array Using a Heterogeneous Cascade	Laurent Diehl	Federico Capasso
CThT3	Quantum Cascade Lasers III	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	3:00 PM	Room 316	Theory of Transverse Mode Coherence in Quantum Cascade Lasers	Aleksander K. Wojcik	Federico Capasso, Alexey Belyanin
CThX3	THz Metamaterial Modulators	CLEO Oral	CLEO 05: Terahertz Technologies and Applications	6/4/2009	3:00 PM	Room 341	External Modulation of Terahertz Quantum Cascade Lasers Using Electrically-Driven Active Metamaterials	X. G. Peralta	A. J. Hoffman, M. C. Wanke
IThI4	Dynamic Phenomena	IQEC Oral	IQEC 04: Optical Interactions with Condensed Matter and Ultrafast Phenomena	6/4/2009	3:15 PM	Room 337	Ultrafast Dynamics of Dense Quantized Magneto-Plasmas in High Magnetic Fields	Jinho Lee	Junichiro Kono, Alexey Belyanin
CThT5	Quantum Cascade Lasers III	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	3:30 PM	Room 316	Directional Micro-Cavity Lasers with Limaçon-Shaped Chaotic Resonator	Qi Jie Wang	Federico Capasso
IThG5	Plasmonic Metamaterials	IQEC Oral	IQEC 03: Fundamentals of Metamaterials, Periodic and Random Media	6/4/2009	3:45 PM	Rooms 318-320	Photoluminescence Enhancement by Metal Nanoparticles	Greg Sun	Jacob B. Khurgin
CThV6	Nonlinear Optical Materials	CLEO Oral	CLEO 06: Optical Materials, Fabrication and Characterization	6/4/2009	4:00 PM	Room 336	Spontaneous Raman Scattering in Suspended InGaAsP Waveguides	Scott A. Holmstrom	Jacob B. Khurgin
CThAA2	Quantum and Interband Cascade Lasers	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	5:00 PM	Room 316	Widely Voltage Tunable Quantum Cascade Lasers	Yu Yao	Kale J. Franz, Xiaojun Wang, Jen-Yu Fan, Claire F. Gmachl
CThAA3	Quantum and Interband Cascade Lasers	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	5:15 PM	Room 316	Role of Interface Roughness in the Transport and Lasing Characteristics of Quantum-Cascade Lasers	Jacob B. Khurgin	Yamac Dikmelik, Peter Q. Liu, Anthony J. Hoffman, Matthew D. Escarra, Kale J. Franz, Claire F. Gmachl
CThEE3	Laser Ablation Mechanisms and Applications	CLEO Oral	CLEO 01: Laser Processing of Materials: Fundamentals and Applications	6/4/2009	5:15 PM	Room 340	Effect of Laser Transfer Mechanism on Damage to Organic Semiconducting Molecules During Laser Direct-Write Printing	Nicholas T. Kattamis	Craig B. Arnold

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CThCC5	Semiconductor Waveguides and Nanostructures	CLEO Oral	CLEO 06: Optical Materials, Fabrication and Characterization	6/4/2009	5:45 PM	Room 336	Recombination Dynamics of Photogenerated Carriers in 10.4 μm -Cutoff Photodiodes Consisting of W-Structured Superlattices	Guibao Xu	Jerry R. Meyer
IThM5	Coherent Interactions of Matter in Light	IQEC Oral	IQEC 01: Quantum Optics of Atoms, Molecules and Solids	6/4/2009	5:45 PM	Room 315	Dispersive Shock Waves with Negative Pressure	Wenjie Wan	Jason W. Fleischer
CThAA6	Quantum and Interband Cascade Lasers	CLEO Oral	CLEO 03: Semiconductor Lasers	6/4/2009	6:00 PM	Room 316	Mid-Infrared Interband Cascade Lasers Operating CW at Room Temperature	William W. Bewley	Jerry R. Meyer
CFB3	Advanced Fiber Laser Systems I	CLEO Oral	CLEO 11: Fiber Amplifiers, Lasers and Devices	6/5/2009	8:30 AM	Rooms 324-326	Non-Ideal Loop-Length-Dependence of Phase Noise in OEOs	Olukayode Okusaga	Curtis R. Menyuk
CFI4	Fabrication of Optical Components	CLEO Oral	CLEO 01: Laser Processing of Materials: Fundamentals and Applications	6/5/2009	8:45 AM	Room 340	Rapidly Tunable Acoustic Gradient Index Lenses for Pulsed Imaging and Laser Processing	Jin Yan	Craig B. Arnold
CFK6	Detectors and Imaging	CLEO Oral	CLEO 09: Components, Integration, Interconnects and Signal Processing	6/5/2009	9:15 AM	Rooms 328-329	Near Infrared Optical Upconverter Based on $\text{i-In}_{0.53}\text{Ga}_{0.47}\text{As}/\text{C}_{60}$ Photovoltaic Junction	Jun Chen	H. C. Liu
CFJ7	Remote Sensing I	CLEO Oral	CLEO 13: Active Optical Sensing	6/5/2009	9:30 AM	Room 341	Applications of External Cavity Quantum Cascade Lasers: Broadband Mid-IR Laser Heterodyne Radiometry	Gerard Wysocki	
CFR1	Semiconductor Nonlinear Optics	CLEO Oral	CLEO 04: Applications of Nonlinear Optics	6/5/2009	10:15 AM	Room 337	Design of Suspended AlGaAs Waveguides for Tunable Difference Frequency Generation in Mid-IR	Jacob B. Khurgin	

* **Bold** denotes first author is MIRTHE member