


2010 Adaptive Optics Talk List






Icon Key

	BMC Product		BMC Author		Of Interest
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SATURDAY, January 23, 2010

5:30 – 5:45 PM	Room 306		Thickness and birefringence measurement of retinal nerve fiber layer tissue using polarization-sensitive optical coherence tomography and adaptive optics Paper 7550-26 of Conference 7550 Author(s): Qiang Wang, Barry Cense, Omer P. Kocaoglu, Weihua Gao, Ravi S. Jonnal, Donald T. Miller, Indiana Univ.
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SUNDAY, January 24, 2010

9:30 – 9:45 AM	Room 306		Integrated eye tracking and wide-field imaging for adaptive optics SLO Paper 7550-34 of Conference 7550 Author(s): Robert D. Ferguson, Daniel X. Hammer, Physical Sciences Inc.; Zhangyi Zhong, Stephen A. Burns, Indiana Univ. School of Optometry
9:45 – 10:00 AM	Room 306		Retinal imaging with a combined adaptive optics optical coherence tomography and adaptive optics scanning laser ophthalmoscopy system Paper 7550-36 of Conference 7550 Author(s): Robert J. Zawadzki, UC Davis Med. Ctr.; Steven M. Jones, Lawrence Livermore National Lab.(LLNL); Suman Pilli, UC Davis Med. Ctr.; DaeYu Kim, UC Davis Medical Ctr.; Scot S. Olivier, LLNL; John S. Werner, UC Davis Med. Ctr.
10:00 – 10:15 AM	Room 306		Imaging retinal nerve fiber bundles at ultrahigh speed and ultrahigh resolution using OCT with adaptive optics Paper 7550-37 of Conference 7550 Author(s): Omer P. Kocaoglu, Indiana Univ.; Barry Cense, Utsunomiya Univ.; Qiang Wang, Jeremy Bruestle, Jason Besecker, Weihua Gao, Ravi S. Jonnal, Donald T. Miller, Indiana Univ.
10:15 – 10:30 AM	Room 306		Multimodal adaptive optics for depth enhanced high-resolution ophthalmic imaging Paper 7550-35 of Conference 7550 Authors: Daniel X. Hammer, Mircea Mujat, Nicusor V. Iftimia, Robert D. Ferguson, Physical Sciences Inc.
2:00 – 2:15 PM	Room 306		An adaptive-optics scanning laser ophthalmoscope for imaging murine retinal microstructure Paper 7550-45 of Conference 7550 Author(s): Clemens Alt, David P. Biss, Wellman Ctr. for Photomedicine (United States); Nadja Tajouri, Schepens Eye Research Institute (United States); Tatjana C. Jakobs, Massachusetts Eye and Ear Infirmary (United States); Charles P. Lin, Massachusetts General Hospital (United States)









MONDAY, January 25, 2010

11:10 AM – 12:00 PM	Room 124		Shaping Light: MOEMS Deformable Mirrors for Microscopes and Telescopes (Plenary) Paper 7594-203 of Conference 7594 Author(s): Thomas G. Bifano, Boston Univ. Photonics Ctr. and Boston Micromachines Corp.
5:30 - 5:45 PM	Room 306		Comparison of double- and single-pass adaptive optics configuration in an optical sectioning microscope Paper 7569-114 of Conference 7569 Author(s): Marie Caroline Muellenbroich, Simon P. Poland, Univ. of Strathclyde; Kim-Kristin Buttenschoen, John M. Girkin, Durham Univ. ; Amanda J. Wright, Univ. of Strathclyde




TUESDAY, January 26, 2010

8:25 – 8:40 AM	Room 308		Adaptive multiphoton and harmonic generation microscopy for developmental biology Paper 7569-48 of Conference 7569 Author(s): Martin J. Booth, Anisha Thayil, Alexander Jesacher, Tony Wilson, Univ. of Oxford
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WEDNESDAY, January 27, 2010

9:20 – 9:40 AM	Room 308		Closed-loop adaptive optics for microscopy without a wavefront sensor Paper 7570-5 of Conference 7570 Author(s): Peter A. Kner, The Univ. of Georgia; Lukman Winoto, Univ. of California, San Francisco; David A. Agard, Univ. of California, San Francisco and Howard Hughes Medical Institute; John W. Sedat, Univ. of California, San Francisco
10:30 – 11:00 AM	Room 111		Interferometric adaptive optics testbed for laser pointing, wave-front control, and phasing Paper 7595-1 of Conference 7595 Author(s): Kevin L. Baker, Doug C. Homoelle, Everett J. Utterback, Steven M. Jones, LLNL
11:30 AM – 12:00 PM	Room 111		Low power MEMS retroreflectors for optical communication Paper 7595-3 of Conference 7595 Author(s): Jason B. Stewart, Steven A. Cornelissen, Boston Micromachines Corp. (United States); David Freedman, Mark N. Horenstein, Boston Univ. (United States); Peter Woskov, Boston Micromachines Corp. (United States); Jonathan Tang, Boston Univ. (United States)
12:20 – 12:40 PM	Room 111		Fast autonomous holographic adaptive optics Paper 7595-5 of Conference 7595 Author(s): Geoff P. Andersen, U.S. Air Force Academy
2:00 – 2:30 PM	Room 111		Progress report for visible light laser guidestar experiments at Lick Observatory Paper 7595-6 of Conference 7595 Author(s): Donald T. Gavel, Univ. of California Observatories
2:30 – 3:00 PM	Room 111		The MEMS adaptive optics program at the Naval Research Laboratory Paper 7595-7 of Conference 7595 Author(s): Sergio R. Restaino, Jonathan R. Andrews, Ty Martinez, Freddie Santiago, Christopher C. Wilcox, U.S. Naval Research Lab.; Scott W. Teare, New Mexico Inst. of Mining and Technology
4:00 – 4:30 PM	Room 111		Reliability of MEMS deformable mirror technology used in adaptive optics imaging systems Paper 7595-9 of Conference 7595 Author(s): Allyson L. Hartzell, Steven A. Cornelissen, Paul A. Bierden, Charlie V. Lam, Daniel Davis, Boston Micromachines Corp.
4:50 – 5:10 PM	Room 111		Open loop control on large stroke MEMS deformable mirrors Paper 7595-11 of Conference 7595 Author(s): Alioune Diouf, Thomas G. Bifano, Andrew Legendre, Yang Lu, Boston Univ.; Jason B. Stewart, Boston Micromachines Corp.

THURSDAY, January 28, 2010

10:00 – 10:30 AM	Room 111		Adaptive optics for microscopy and photonic fabrication Paper 7595-13 of Conference 7595 Author(s): Martin J. Booth, Alexander Jesacher, Anisha Thayil, Tony Wilson, Univ. of Oxford
11:20 – 11:40 AM	Room 111		Implementation of an adaptive optics wide field microscope using a Shack-Hartmann wavefront sensor and a MEMS deformable mirror Paper 7595-16 of Conference 7595 Author(s): Oscar A. Azucena, Jr., Joel A. Kubby, Univ. of California, Santa Cruz
2:40 – 3:00 PM	Room 111		Development of through wafer interconnect assembly process for MEMS DMs Paper 7595-21 of Conference 7595 Author(s): Alioune Diouf, Thomas G. Bifano, Boston Univ.; Jason B. Stewart, Steven A. Cornelissen, Boston Micromachines Corp.