









	Of Interest
	BMC Product
	BMC Author/ Sponsor
	Sensorless AO Topic




Adaptive Optics Talk List

SUNDAY, January 22, 2012





2:15 PM – 2:30 PM	Room 306		Birefringence measurement of retinal nerve fiber layer using AO-PS-OCT: a comparison with PS-OCT Paper 8209-44 of Conference 8209 Author(s): Qiang Wang, Indiana Univ. (USA); Barry Cense, Utsunomiya Univ. (Japan); Omer P. Kocaoglu, Ravi S. Jonnal, Sangyeol Lee, Zhuolin Liu, Donald T. Miller, Indiana Univ. (USA)
4:15 PM – 4:30 PM			Adaptive optics line scanning ophthalmoscope: recent progress Paper 8209-48 of Conference 8209 Author(s): Robert D. Ferguson, Daniel X. Hammer, David P. Biss, Emily Plumb, Physical Sciences Inc. (USA); Cynthia A. Toth M.D., Michelle McCall, Duke Univ. Medical Ctr. (USA)
4:30 PM – 4:45 PM			Patient retinal imaging with adaptive optics-assisted optical coherence tomography Paper 8209-49 of Conference 8209 Author(s): Kenta Sudo, Utsunomiya Univ.; Kazuhiro Kurokawa, Kazuhiro Sasaki, Shuichi Makita, Yoshiaki Yasuno, Univ. of Tsukuba; Toyohiko Yatagai, Barry Cense, Utsunomiya Univ. (Japan)
5:00 PM – 5:15 PM			In vivo imaging of inner retinal cellular morphology with adaptive optics/optical coherence tomography: limitations and challenges Paper 8209-51 of Conference 8209 Author(s): Robert J. Zawadzki, UC Davis Medical Ctr. (USA); Steven M. Jones, Lawrence Livermore National Lab. (USA); Dae Yu Kim, UC Davis Medical Ctr. (USA); Lisa A. Poyneer, Lawrence Livermore National Lab. (USA); Arlie G. Capps, UC Davis Medical Ctr. (USA); Scot S. Olivier, Lawrence Livermore National Lab. (USA); John S. Werner, UC Davis Medical Ctr. (USA)
5:15 PM – 5:30 PM			Optic nerve head features measured with a multimodal adaptive optics system Paper 8209-52 of Conference 8209 Author(s): Daniel X. Hammer, Robert D. Ferguson, David P. Biss, Mircea Mujat, Nicusor V. Iftimia, Ankit H. Patel, Emily Plumb, Physical Sciences Inc. (USA); Gadi Wollstein, Larry Kagemann, Hiroshi Ishikawa, Zach Nadler, Joel S. Schuman M.D., Univ. of Pittsburgh Medical Ctr. (USA)
5:30 PM – 5:45 PM			Adaptive optics optical coherence tomography for measuring phase and reflectance dynamics of photoreceptors Paper 8209-53 of Conference 8209 Author(s): Omer P. Kocaoglu, Ravi S. Jonnal, Sangyeol Lee, Qiang Wang, Zhuolin Liu, Donald T. Miller, Indiana Univ. (United States)

MONDAY, January 23, 2012


8:45 PM – 9:00 PM	Room 303		High-resolution three-dimensional vasculature imaging by adaptive optics optical coherence angiography Paper 8213-2 of Conference 8213 Authors: Kazuhiro Kurokawa, Kazuhiro Sasaki, Shuichi Makita, Yoshiaki Yasuno, U. of Tsukuba (Japan)
----------------------	----------	---	---

2:45 PM – 3:00 PM	Room 303		Adaptive optics-assisted optical coherence tomography using a single small stroke deformable mirror Paper 8213-18 of Conference 8213 Author(s): Kenta Sudo, Utsunomiya Univ. (Japan); Kazuhiro Kurokawa, Kazuhiro Sasaki, Shuichi Makita, Yoshiaki Yasuno, Univ. of Tsukuba; Toyohiko Yatagai, Barry Cense, Utsunomiya Univ.
3:15 PM – 3:30 PM			Adaptive optics - optical coherence tomography system for in-vivo imaging of the mouse retina Paper 8213-20 of Conference 8213 Author(s): Yifan Jian, Ali Issaei, Simon Fraser Univ. (Canada); Robert J. Zawadzki, UC Davis Medical Ctr. (USA); Marinko V. Sarunic, Simon Fraser Univ. (Canada)
4:35 PM – 4:50 PM	Room 308		Adaptive multiphoton and harmonic generation microscopy for whole tissue imaging Paper 8226-48 of Conference 8226 Author(s): Marie Caroline Muellenbroich, Univ. of Strathclyde (UK); Ewan J. McGhee, Kurt I. Anderson, Beatson Institute for Cancer Research (UK); Amanda J. Wright, Univ. of Strathclyde












TUESDAY, January 24, 2012

9:40 AM – 10:00 AM	Room 226		Measurement and correction of spatially dependent aberrations in adaptive optical microscopy Paper 8227-6 of Conference 8227 Author(s): Martin Booth, Univ. of Oxford (United Kingdom)
10:50 AM – 11:10 AM			Correction precision in image-based adaptive optics for nonlinear microscopy Paper 8227-8 of Conference 8227 Author(s): Delphine Débarre, Aurélie Facomprez, Emmanuel Beaufrepaire, Ecole Polytechnique (France)
2:00 PM – 2:20 PM	Room 112		Target-in-the-loop adaptive laser beam projection on an extended target: turbulence speckle effects mitigation Paper 8238B-21 of Conference 8238B Author(s): Mikhail A. Vorontsov, Ernst E. Polnau, Micah Gatz, Thomas Weyrauch, Univ. of Dayton (USA); Svetlana L. Lachinova, Optonicus (USA); Dan Marker, Air Force Research Lab. (USA)
6:00PM – 8:00PM	Room 103		MOEMS-MEMS Interactive Poster Session Conference attendees are invited to attend the MOEMS-MEMS poster session on Tuesday evening. Come view the posters, enjoy light refreshments, ask questions, and network with colleagues in your field. Authors of poster papers will be present to answer questions concerning their papers.

WEDNESDAY, January 25, 2012

11:10 AM – 11:30 AM	Room 123		Miniature non-mechanical zoom camera using deformable MOEMS mirrors Paper 8252-22 of Conference 8252 Author(s): Brant M. Kaylor, Christopher R. Wilson, Nathan J. Greenfield, Peter A. Roos, Eric M. Seger, Bridger Photonics, Inc.; Mohammad J. Moghimi, David L. Dickensheets, Montana State Univ. (USA)
------------------------	----------	---	---

THURSDAY, January 26, 2012

8:00 AM – 8:25 AM	Room 250		MEMS adaptive optics in the Gemini Planet Imager Paper 8253-1 of Conference 8253 Author(s): Bruce A. Macintosh, Lawrence Livermore National Lab. (USA)
8:25 AM – 8:50 AM			Space-based planet detection concept using two MEMS DM's and a shaped pupil Paper 8253-2 of Conference 8253 Author(s): N. Jeremy Kasdin, Tyler Groff, Alexis Carlotti, Princeton Univ. (USA)
8:50 AM – 9:15 AM			MEMS practice, from the lab to the telescope Paper 8253-3 of Conference 8253 Author(s): Katie M. Morzinski, Donald T. Gavel, Daren Dillon, Andrew P. Norton, Marc Reinig, Univ. of California, Santa Cruz (USA); Steven Cornelissen, Boston Micromachines Corp. (USA)
9:40 AM – 10:05 AM			Advances in MEMS deformable mirror development for astronomical adaptive optics Paper 8253-5 of Conference 8253 Author(s): Steven Cornelissen, Boston Micromachines Corp.; Thomas G. Bifano, Boston Univ. (USA)
1:15 PM – 1:30 PM			Monolithic fabrication and packaging of gold MEMS deformable mirrors Paper 8253-11 of Conference 8253 Author(s): Bautista R. Fernandez, Joel Kubby, Univ. of California, Santa Cruz (USA)
2:10 PM – 2:25 PM			Assessing correction accuracy in image-based adaptive optics Paper 8253-14 of Conference 8253 Author(s): Delphine Débarre, Aurélie Facomprez, Emmanuel Beaufrepaire, Ecole Polytechnique (France)
2:25 PM – 2:50 PM			Adaptive optics for biological microscopy using phase retrieval and phase diversity Paper 8253-15 of Conference 8253 Author(s): Peter A. Kner, Benjamin Thomas, Andrew Herrington, The Univ. of Georgia (USA)
2:50 PM – 3:05 PM			Critical considerations of pupil alignment to achieve open-loop control of MEMS deformable mirror in nonlinear laser scanning fluorescence microscopy Paper 8253-16 of Conference 8253 Author(s): Wei Sun, Wellman Ctr. for Photomedicine and Boston Univ. and Mass. General Hospital; Yang Lu, Thomas G. Bifano, Boston U. (USA); Charles P. Lin, Wellman Ctr. for Photomedicine, Harvard Medical School & Mass. General Hospital (USA)
3:50 PM – 4:15 PM			Adaptive optics for biological light microscopy Paper 8253-18 of Conference 8253 Author(s): Christopher D. Saunter, Cyril J. T. Bourgenot, John M. Girkin, Gordon D. Love, Jonathan M. Taylor, Durham Univ. (United Kingdom)
4:40 PM – 4:55 PM			MEMS spatial light modulators for controlled optical transmission through nearly opaque materials Paper 8253-20 of Conference 8253 Author(s): Thomas G. Bifano, Yang Lu, Christopher Stockbridge, Aaron Berliner, Boston U.; Richard G. Paxman, Paxman Consulting; Santosh Tripathi, Kimani C. Toussaint, Jr., Univ. of Illinois at Urbana Champaign (USA)
4:55 PM – 5:20 PM		Adaptive optics confocal microscopy using fluorescent protein guide-stars for brain tissue imaging Paper 8253-21 of Conference 8253 Author(s): Xiaodong Tao, Oscar A. Azucena, Jr., Min Fu, Yi Zuo, Univ. of California, Santa Cruz (USA); Diana C. Chen, Lawrence Livermore National Lab. (USA); Joel Kubby, Univ. of California, Santa Cruz (USA)	