

AGENDA

4th Arizona Photonics Days - 3-5 March 2021



Wednesday, March 3 – General Session, Sensing and Metrology Track, and Laser Technology Track

	Sage Room (General Session and Tracks)	Mesquite Room (Tracks)
7:00-7:10am MST 14:00-14:10 UTC	Welcome and Introductions	[no session]
7:10-7:30am MST 14:10-14:30 UTC	APOMA (American Precision Optics Manufacturers Association) Presenter: Alexis Vogt, PhD, Professor & Endowed Chair, Optical Systems Technology, Monroe Community College	
7:30-8:15am MST 14:30-15:15 UTC	Keynote Presentation: Wyant College of Optical Sciences - Today & Tomorrow Presenter: Thomas L. Koch, Dean and Professor, Wyant College of Optical Sciences, University of Arizona	
	Sensing and Metrology Track	Laser Technology Track
8:15-9:00am MST 15:15-16:00 UTC	Presentation: Coating Design with Indices of Refraction of Nano-Thickness Layers that Vary with Thickness Author & Presenter: Ronald R. Willey, Willey Optical	Presentation: Using Laser Power and Energy Measurement to Monitor Laser System Performance Author & Presenter: Tobias Nitzsche, Western US Sales Engineer at Gentec-EO
9:00-9:30am MST 16:00-16:30 UTC	Company Pitches	[no session]
9:30-10:15am MST 16:30-17:15 UTC	Presentation: Non-Contact Metrology with Datum Structures for Freeform Components Presenter: Scott DeFisher, Senior Research Engineer at OptiPro Systems Authors: Scott DeFisher, Tucker Rae, David Mohring	Presentation: Leonardo Electronics' High Peak Power Wavelength Stabilized Laser Diode Pumps For High Energy Lasers Presenter: Brian Caliva, Director of Engineering of Leonardo Electronics US Inc. Authors: Brian Caliva, John Goings, Bo Liu, Dustin Nonnemacher, Jason Helmrich, Prabhu Th
10:15-11:00am MST 17:15-18:00 UTC	Presentation: Spectrally Controlled Interferometry for Improved Spherical Optic Measurements Author & Presenter: Donald A. Pearson II – Vice President, ÄPRE Instruments, Inc.	Presentation: Scalable Phase-Locking of Large Semiconductor Diode Arrays Author & Presenter: Yehuda Braiman at The College of Optics and Photonics (CREOL) and Department of Electrical and Computer Engineering, University of Central Florida
11:00-11:30am MST 18:00-18:30 UTC	Company Pitches	[no session]
11:30am-12:15pm MST 18:30-19:15 UTC	Presentation: Automated Thermography Author & Presenter: Andrew Griffis, Ph.D., Chief Executive Officer of Delta Thermal, Inc.	Presentation: Glass Drilling and Cutting Machines Using Innovative Fiber Lasers Author & Presenter: Dr. Shibin Jiang, President and CEO of AdValue Photonics Inc.
12:15-1:00pm MST 19:15-20:00 UTC	Presentation: Streaming Gigapixel Media Author & Presenter: David J. Brady, Goodman Professor of Optical Sciences, University of Arizona and Chief Scientist, Aqueti, Inc.	Presentation: New Technology to Address the Top Photonics Manufacturing-Cost Challenge Author & Presenter: Scott Jordan, PI (Physik Instrumente)
1:00-1:15pm MST 20:00-20:15 UTC	General Session Wrap-Up	[no session]

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4th Arizona Photonics Days - 3-5 March 2021



Thursday, March 4 – General Session, Sensing and Metrology Track, and Quantum Technology Track

	Sage Room (General Sessions and Tracks)	Mesquite Room (Tracks)
7:00-7:10am MST 14:00-14:10 UTC	Welcome and Introductions	[no session]
7:10-7:30am MST 14:10-14:30 UTC	Industry Update: The Optical Society (OSA) OIDA (OSA Industry Development Associates) Presenter: Tom Hausken Ph.D., Senior Advisor	
7:30-8:00am MST 14:30-15:00 UTC	Global Photonics Alliance Presentation: The Action of French Clusters on the International Scene to Boost Photonics Competitiveness Presenters: Isabelle Tovenà Pécault & Alithéa Lafaye, Alpha-RLH, France Authors: Dr. I. Tovenà-Pécault, A. Lafaye, H. Floch	
8:00-8:15am MST 15:00-15:15 UTC	Global Photonics Alliance Presentation: State-of-the-Art: Latest Photonics Technology from Jena – The Optics Region of Central Germany Presenter: Anke Mank, OptoNet, Germany	
8:15-9:00am MST 15:15-16:00 UTC	Global Photonics Alliance Panel Discussion: The State and Future of Photonics around the World Panelists: Jack Schumann, Optics Valley; Frank Lerch, OpTecBB; Anke Mank, OptoNet; Isabelle Tovenà Pécault, Alpha-RLH; Juha Purmonen, Photonics Finland; Haim Rouso, Photonics Israel; Ron van der Kolk, PhotonicsNL	
9:00-9:30am MST 16:00-16:30 UTC	Global Photonics Alliance Pitches	
9:30-10:15am MST 16:30-17:15 UTC	Keynote Presentation By: Saikat Guha, Center for Quantum Networks (CQN) Director and Principal Investigator and Associate Professor of Optical Sciences, UArizona	
	Sensing and Metrology Track	Quantum Technology Track
10:15-11:00am MST 17:15-18:00 UTC	Presentation: Driving Clarity in Darkness & All Weather Conditions Author & Presenter: Eyal Levi, EVP BD & Product and Co-Founder of Bright Way Vision	Presentation: Building a National Initiative and Eco-system for Quantum S&T in Israel Author & Presenter: Dr. Tal David, Head, Israel National Quantum Initiative
11:00-11:30am MST 18:00-18:30 UTC	Company Pitches	[no session]
11:30am-12:15pm MST 18:30-19:15 UTC	Presentation: Making Sense of Commercial Stereo 3D Sensors - Part 1: Geometric Optical Performance Presenter: Dave Dozor, Founder, Vision Optronix	Presentation: European Quantum Leadership Author & Presenter: Johannes Verst, CEO and Founder, Quantum Business Network UG, Germany
12:15pm-1pm MST 19:15-20:00 UTC	Presentation: Imaging Applications in Extreme Environments Author & Presenter: Dr. Gary Sims, Co-founder, President and CTO of Spectral Instruments, Inc.	Presentation: Photonics Enabling the Commercialization of Quantum Technologies Author & Presenter: Dr. Loyd McKnight, Head of Quantum Technologies, Fraunhofer Centre for Applied Photonics, Fraunhofer UK Research Ltd.
1:00-1:15pm MST 20:00-20:15 UTC	General Session Wrap-Up	[no session]

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4th Arizona Photonics Days - 3-5 March 2021



Friday, March 5 – General Session, Astronomy Track, and Biomedical Technology Track

	Sage Room (General Sessions and Tracks)	Mesquite Room (Tracks)
7:00-7:10am MST 14:00-14:10 UTC	Welcome and Introductions	[no session]
7:10-7:30am MST 14:10-14:30 UTC	Industry Update: SPIE (the international society for optics and photonics) Presenter: Peter Hallett, Director, Marketing and Industry Relations	
7:30-8:15am MST 14:30-15:15 UTC	Keynote Presentation By: Jennifer Kehlet Barton, Ph.D., Director, BIO5 Institute, Thomas R. Brown Distinguished Professor, Biomedical Engineering, The University of Arizona	
	Astronomy Track	Biomedical Technology Track
8:15-9:00am MST 15:15-16:00 UTC	Presentation: Using the University of Arizona's Future 25-meter Diameter Giant Magellan Telescope to Find Life on Nearby Planets Author & Presenter: Dr. Laird Close, Professor at UArizona Department of Astronomy	Presentation: Custom LEDs for Biosensors and Medical Applications Author & Presenter: Antje Thamm, Sales Director at EPIGAP Optronik GmbH, Berlin, Germany
9:00-9:30am MST 16:00-16:30 UTC	Company Pitches	[no session]
9:30-10:15am MST 16:30-17:15 UTC	Presentation: Astrophotonics and Technology Transfer from Astronomy to Healthcare Author & Presenter: Kalaga Madhav, Head of Astrophotonics, innoFSPEC, Leibniz-institute for Astrophysics Potsdam, Germany	Presentation: Optical Microsystems for Advanced Imaging in Biomedicine Author & Presenter: Dr. Michael Scholles, Head of Project Hub "Microelectronic and Optical Systems for Biomedicine" Fraunhofer Institute for Photonic Microsystems IPMS
10:15-11:00am MST 17:15-18:00 UTC	Presentation: OSIRIS-Rex Presenter: Dr. Bashar Rizk, OSIRIS-REx Camera Suite Lead Instrument Scientist at UArizona College of Science, Lunar & Planetary Laboratory	Presentation: Deep-Learning-Based Fiber Optic Imaging System Presenter: Jian Zhao, Postdoctoral Associate at Boston University Photonics Center Authors: Jian Zhao, Xiaowen Hu, Jose Enrique Antonio-Lopez, Rodrigo Amezcua Correa, Axel Schülzgen
11:00-11:45am MST 18:00-18:45 UTC	Presentation: Perseverance Rover Explores Jezero Crater on Mars Author & Presenter: Peter Smith, Ph.D., Professor Emeritus, University of Arizona	Presentation: Low-cost Chromatic Confocal Endomicroscope Presenter: Dongkyun "DK" Kang, Assistant Professor of Optical Sciences and Biomedical Engineering, UArizona Wyant College of Optical Sciences Authors: Nachiket Kulkarni, Andrew Masciola, Abhinav Nishant, Kyungjo Kim, Arthur Gmitro, Esther Freeman, Aggrey Semeere, Miriam Nakelembe, Dongkyun Kang
11:45am-12:15pm MST 18:45-19:15 UTC	Company Pitches	[no session]
12:15pm-12:30pm MST 19:15-19:30 UTC	Conference Wrap-Up	[no session]