2023 Frontiers in Optics + Laser Science 09-12 October 2023

Greater Tacoma Convention Center, Tacoma (Greater Seattle Area), Washington, USA Frontiers in Optics + Laser Science will be presented with the Optica Laser Congress as an in-person event with on-demand content.

Pacific Daylight Time (UTC-07:00)

Agenda of Sessions — Monday, 09 October

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Pacific Day-	FIG	FIG	FIG	5:0	FIG	1.0				
light Time	FiO	FiO	FiO	FiO	FiO	LS	Room 405			
(PDT, UTC-07:00)	Room 315	Room 316	Room 317	Room 318	Ballroom BC	Ballroom D				
07:00-18:00	Registration, Level 3									
08:00–10:00										
	Reality and	Quantum Optics	Instrumentation	Processing	Microscopy	Anderson				
	Augmented	and Photonics		in Optical	and Machine	Dissertation				
	Vision Theme:			Transmission	Learning	Award				
	Your Next Presentations									
	Computing									
	Platform									
10:00-10:45	Coffee Break, Level 3									
10:00–11:00				g Group Meet the J						
10:45–11:30				Visionary Session, E		LM2B • Strong				
11:00–12:30	SpE15 • The Emotionally Intelligent Manager, Using Your Heart as well as Your Head to Field, Ultrafast									
44.45.40.45				e Marriott Tacoma D		and Short				
11:45–12:45	FM3A • Virtual	FM3B • Ultrafast	FM3C •	FM3D • Optical	FM3E •	Wavelength I				
	Reality and Augmented	Lasers and Applications	Nanophotonics	Amplification	Ophthalmology and Vision					
	Vision Theme:	Applications			and vision					
	Simulating the									
	Next									
12:00-18:00	SpE24 • Laser Science Symposium on Undergraduate Research, The Chambers Bay Ballroom, 3rd Floor, The Marriott Tacoma Downtown									
12:30–16:30				cience and Industry S						
	SpE20 • Optica Career Fair, Science and Industry Showcase, Booth 413 JM4A • Joint Poster Session I and Lunch with Exhibitors, Science and Industry Showcase, Level 5									
12:45–14:00	C F2						1 (01			
13:00–13:30	SpEa			rs, Science and Indu			n 601			
13:15–14:00				Science and Industry						
13:30–14:30 14:00–16:00	FM5A • Virtual	FM5B • Optica	FM5C • Optical	tworking Mixer, Scie FM5D • Systems	FM5E •	LM5F • Quantum	FM5G • Use			
14.00-10.00	Reality and	Integrated	Fabrication	and Sub-systems	Emerging	Information and	Photonics.			
	Augmented	Photonics	(ends at 15:45)	in Optical	Imaging	Entanglement	Change			
	Vision Theme:		(**************************************	Communications	Technologies in	with Photons	the World:			
	Future's				Biomedicine		Environment			
	Wearable						Symposium			
14.15 14.45	Displays	CmEQ4 a Disal 1	Ontine Maratana C	 	N+C	Dart /01	(ends at 16:15)			
14:15–14:45 14:30–15:30	CnE20 4			ience and Industry Sh			Rooth 100			
15:00–15:30	SpE39 • A Wholistic Approach to Managing Stress in Unprecedented Times, Science and Industry Showcase, Booth 409 SpE48 • Latin Americans in Optics Meetup, Science and Industry Showcase, NextGen Lounge, Booth 601									
16:00–15:30	3						· · · · · · · · · · · · · · · · · · ·			
.0.00 10.00	Coffee Break with Exhibitors, Science and Industry Showcase, Level 5 Sponsored by American Elements, American Institute of Physics and Meta Platforms Technologies LLC									
16:30–18:30	FM6A • Virtual	FM6B • Novel	FM6C • Optical	FM6D • Photonic		LM6F • Strong				
	Reality and	Qubits and	Metrology	Devices and	Biophotonics and	Field, Ultrafast				
	Augmented	Emitters;		Integrated	Applications	and Short				
	Vision Theme:	Quantum		Circuits		Wavelength II				
	Emerging Meta	Communications		(ends at 19:00)						
	Optics for AR/VR (ends at 18:00)									
17:30–21:00	FiO + LS Awards Ceremony and Reception, Museum of Glass (Invitation Only)									
19:00–20:00	SpE9 • Technical Group Event: Rapid Fire Lasers, Advancing Manufacturing through Light, Room 315									
17.00-20.00	SpE23 • Bio-Optics Technical Groups Happy Hour, Proctor I Room, 2nd Floor, The Marriott Tacoma Downtown									
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Key to Conference Abbreviations F - Frontiers in Optics L - Laser Science Sp - Special Event J - Joint Session

Agenda of Sessions — Tuesday, 10 October

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Pacific Day-	F:O	F:0	F:0	F:0	F:0	1.0				
light Time (PDT,	FiO Room 315	FiO Room 316	FiO Room 317	FiO Room 318	FiO	LS Ballroom D	Room 405			
UTC-07:00)	K00M 313	Room 310	Room 317	Room 318	Ballroom BC	Ballroom D				
07:00–18:00	FiO Registration, Level 3									
08:00-09:00	FTu1A • Virtual FTu1B • FTu1C • FTu1D • FTu1E • LTu1F • Quantum									
00.00 07.00	Reality and	Quantum	Complex States	Advancement in	Plasmonic and	Sensing				
	Augmented	Technologies	of Light I	Optical Fibers	Metamaterials	(ends at 08:45)				
	Vision Theme:	Theme: Quantum	(ends at 08:45)							
	Art and	Computing and								
09:00–09:15	Perception	its Applications		Break						
09:15–10:00	FTu2A • FiO Quantum Technologies Visionary Session, Ballroom BC									
			LTu2B • Laser So	ience Visionary Sess	sion I, Ballroom D					
10:00–15:30			Exhibit Hours, S	cience and Industry S	Showcase, Level 5					
10:00–15:30	Science ar	nd Industry Showcas	e, Theater			Showcase, Exhibit H	all			
	JTu3A • Joint Plen	nary Session I, 10:30-	-11:30		Exhibitors, 10:00–10					
	Quantum Systems	Out-of-the-Lab: Suc	resses.			nerican Institute of F	hysics and Meta			
		pportunities, 12:15–		Platforms Technolo	ogies LLC					
		• •		JTu4A • Joint Post	ter Session II, 11:30-	13:00				
	What Chatbots Me	ean for Optics, 13:45	5–14:30	0.000	2000:011 ii j 11:00	. 5.00				
	State of the Indus	try, 14:45–15:30		Lunch with Exhibit	ors, 12:45–14:00					
				JTu5A • Joint Post	ter Session III, 14:00-	-15:30				
				Coffee Break with	Exhibitors, 15:00–1	5:30				
					-		Physics and Meta			
	Sponsored by American Elements, American Institute of Physics and Meta Platforms Technologies LLC									
10:30–15:30					ustry Showcase, Boot					
11:30–12:00	SpE34	Plenary Q&A, Nex				NextGen Lounge, Bo	oth 601			
11:30–12:30		C = 40 = 1 = 11		ning into a Career in		D:// .: D				
		SpE40 • Tech Talk			ymers using a Non-	Diffracting Beam,				
12:00–12:45	SnF27	Career Perspective		d Industry, Showcase		NevtGen Lounge Bo	nth 601			
12:00-16:00					tatus and Paths For		501 00 1			
					ott Tacoma Downtow					
12:30–13:30	SpE	41 • Tech Talk: The					409			
13:00–13:30					Showcase, NextGen L					
13:00–14:00		SpE10 • H		ractive Optics Techr d Floor, The Marriott	nical Group Network	ring Lunch,				
13:30–14:30	SnF27 (DEI Event Educati				ndustry Showcasa Ri	ooth 409			
13:45–14:30		Gen Innovators: Eng								
14:30–15:30		2 • Tech Talk: LiDAR	, Quantum Key Dist	ribution (QKD) Syst	ems, Free Space Op					
	·		Science and	d Industry, Showcase	, Booth 409					
14:45–15:30		8 • Career Perspecti								
15:30–17:00	FTu6A • Virtual	FTu6B •	FTu6C •	FTu6D • Optical	FTu6E • Beam	LTu6F • Biology	FTu6G • Use			
	Reality and Augmented	Quantum Technologies	Complex States of Light II	System	Steering and Lidar	and Chemistry Applications	Photonics. Change			
	Vision Theme:	Theme: Ion	(ends at 16:45)		Applications	Applications	the World:			
	Design for	Trap Quantum			(ends at 16:30)		Information			
	Humans	Computing					Symposium (17,45)			
17.00 17.20		(ends at 16:30)		Duc - l-			(ends at 17:15)			
17:00–17:30 17:30–18:30	JTu7A • Joint	JTu7B • Joint	JTu7C • Joint	Break		DLS Business				
17:30-10:30	Postdeadline	Postdeadline	Postdeadline			Meeting				
	Session I	Session II	Session III							
		1		I.		I	1			
18:30–21:00			(ends at 18:18)							

Key to Conference Abbreviations

F - Frontiers in Optics L - Laser Science Sp - Special Event J - Joint Session

Agenda of Sessions — Wednesday, 11 October

Pacific Day-									
light Time	FiO	FiO	FiO	FiO	FiO	LS	Room 405		
(PDT, UTC-07:00)	Room 315	Room 316	Room 317	Room 318	Ballroom BC	Ballroom D	100111 403		
07:30–17:30	FiO Registration, Level 3								
08:00-09:00	FW1A • Machine	LW1F •							
	Learning Theme: Metaoptics and Machine Learning	Quantum Technologies Theme: Quantum	Light-Matter Interactions I (ends at 08:30)	Coherence and Interference	High-Speed Modulations	Attosecond CM			
		Communications	_						
09:00-09:15		E14/0.4 E10		eak	D. II. D.C.				
09:15–10:00		LW2B	 Laser Science Vision 	Visionary Session I, onary Session II, Ball	room D				
10:00–15:30				Industry Showcase,					
10:00–15:30		nd Industry Showcas			cience and Industry		lall		
	JW3A • Joint Plen	ary Session II, 10:30)–11:30		Exhibitors, 10:00–1				
	How to Avoid Common Mistakes in Patent and Trade Secret Laws, 13:45–14:30 Sponsored by American Elements, American Institute of Physics at Platforms Technologies LLC								
				Lunch with Exhibit	tors, 13:00–14:00				
				JW4A • Joint Post	er Session IV, 14:00	-15:30			
				Coffee Break with	Exhibitors, 15:00-1	5:30			
				Sponsored by Am	erican Elements, Ar	merican Institute of	Physics and Meta		
				Platforms Technol	ogies LLC				
10:00–10:30		SpE31 • Meet the	Optica Foundation,	Science and Industry	/ Showcase, NextGer	n Lounge, Booth 601			
10:00–15:30		SpE2	2 • Optica Career F	air, Science and Ind	ustry Showcase, Boo	th 413			
11:30–12:00	SpE35	 Plenary Q&A, Nex 	xtGen Lounge Foun	dation, Science and	Industry, Showcase,	NextGen Lounge, Bo	ooth 601		
11:30–12:30	· · · · · · · · · · · · · · · · · · ·				ce and Industry, Shov				
12:30–13:30	SpE44 • Tech Talk: Distinguished Engineer on the Technology Strategy, Architecture, and Planning team at Verizon, Science and Industry, Showcase, Booth 409								
13:00–13:30	Sp	E32 • Optica Presid	dent Meet and Gree	et, Science and Indus	stry, Showcase, Next(Gen Lounge, Booth &	501		
13:30–14:30		SpE7 • Tech Talk: N	New Technologies in	the Laser Space, So	cience and Industry S	Showcase, Booth 409	1		
13:45–14:30		SpE30 • Inter	rviewing 101, Science	ce and Industry, Shov	vcase, NextGen Lour	nge, Booth 601			
14:30–15:30	SpE45 • 1	Tech Talk: Camera O	ptics Miniaturizatio	n Towards Form Fac	ctor AR, Science and	Industry, Showcase,	Booth 409		
14:45–15:30		SpE33 • Outreach	on a Tight Budget,	Science and Industry	, Showcase, NextGei	n Lounge, Booth 601			
15:30–17:00	FW5A • Machine Learning Theme: Optical Computing	FW5B • Quantum Technologies Theme: Quantum Technology	FW5C • Light-Matter Interactions II (begins at 15:00)	FW5D • Computational/ Transformation Optics and Optics in Computing	FW5E • Lithium Niobate-Based Devices	LW5F • Ultrafast Quantum Materials	FW5G • Use Photonics. Change the World: Health Symposium		
17:00–17:30	Break								
17:30–19:00	FW6A • Machine Learning Theme: Artificial Intelligence/ Machine Learning for Imaging and Spectroscopy	FW6B • Quantum Technologies Theme: From Quantum Computing to Quantum Sensors	FW6C • Ultrafast Optical Interactions in Nanostructured Materials (ends at 18:30)	FW6D • General Information Acquisition and Processing (ends at 18:30)	FW6E • Photonic Neural Networks	LW6F • Metamaterials I			
19:30-21:00			SpE14 • Movie Nigl	nt – The Hunt for Pla	anet B, Empire Lobb	У			

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Agenda of Sessions — Thursday, 12 October

Pacific Day- light Time (PDT, UTC-07:00)	FiO Room 315	FiO Room 316	FiO Room 317	FiO Room 318	FiO Ballroom BC	LS Ballroom D			
07:30–12:30	FiO Registration, Level 3								
08:00-09:00	FTh1A • Machine Learning Theme: Computational Imaging and Machine Learning	FTh1B • Quantum Networking and Metrology	FTh1C • Nonlinear Interactions and Applications	FTh1D • General Information Display Technology	FTh1E ◆ Optomechanic and MEMS	LTh1F • Metamaterials II			
09:00–09:15	Break								
09:15–10:00	FTh2A • FiO Machine Learning Visionary Session II, Ballroom BC LTh2B • Laser Science Visionary Session III, Ballroom D								
10:00–10:30	Coffee Break, Level 3								
10:30–12:30	FTh3A • Machine Learning Theme: Inverse Design and Machine Learning	FTh3B • Novel Platforms, Methods, and Devices	FTh3C • Frequency Combs, High- Harmonic Generation, and Attoscience	FTh3D • 3D and Light-Field Optics in Information Acquisition and Display Applications	FTh3E • Frequency Combs and Nonlinear Photonics	LTh3F • Metamaterials III (ends at 11:45)			

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