Symposium on Photonics Science and Technology

2025 Fitzpatrick Institute for Photonics (FIP) Annual Meeting March 10-11, 2025, Duke University

TENTATIVE ADVANCE PROGRAM AGENDA

12:30-1:00 pm	Registration	n	
1:00- 1:05 pm	Introduction Tuan Vo-Dinh, Director of the Fitzpatrick Institute for Photonics, R. Eugene and Susic E. Goodson Professor of Biomedical Engineering and Professor of Chemistry, Duke University		
1:05-1:10 pm	Opening Welcome Address Alec D. Gallimore, Provost and Chief Academic Officer Alfred J. Hooks E '68 Distinguished Professor in the Thomas Lord Department of Mechanical Engineering & Materials Science Duke University		
1:10-1:15 pm	Jerome Lynch, Vinik Dean, Pratt School of Engineering Professor in the Department of Civil and Environmental Engineering Professor in the Department of Electrical & Computer Engineering Duke University		
1:15-2:55 pm	Session 1: Special Topic – Envisioning the Invisible		
	1:15-1:45	Invited Lecture Guosong Hong, Assistant Professor of Materials Science and Engineerin Stanford University	
	1:45-2:15	Invited Lecture Alon Greenbaum, Assistant Professor College of Engineering NC State University	
	2:15-2:35	Sönke Johnsen, Ida Stephens Owens Distinguished Professor Department of Biology Duke University	
	2:35-2:55	Junjie Yao , Associate Professor of Biomedical Engineering Duke University	

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	3:20-3:40	Miaofang Chi, Professor of Mechanical Engineering and Materials Science Duke University
	3:40-4:00	Crystal Noel, Assistant Prof. of Electrical and Computer Engineering Duke University
	4:00-4:20	John W. Hickey, Assistant Professor of Biomedical Engineering Duke University
4:20-4:30	COFFEE E	BREAK

3:20-4:20 pm Session 2: Advanced Technologies: From Quantum to Nanosystems

4:30-5:30 pm Special Session 3: ADVANCED PHOTONICS: THE NEXT GENERATION

Student Lightning Talks Organized and Presented by the Duke Optical Student Chapter

5:30-6:30 pm

9:55-10:00

POSTER SESSION & RECEPTION

Posters are exhibited in the Atrium area of the Fitzpatrick Center FIP Symposium Cocktail Reception in the Atrium area of the Fitzpatrick Center

COCKTAIL RECEPTION

(Light hors d'oeuvres will be served)

<u>Tuesday, March 11, 2025 (Fitzpatrick Center) – Morning Session</u>

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9:00-9:10	Introduction Tuan Vo-Dinh, Director of the Fitzpatrick Institute for Photonics, R. Eugene and Susie E. Goodson Professor of Biomedical Engineering and Professor of Chemistry, Duke University
9:10-9:55	Symposium Keynote Moungi Bawendi, 2023 Nobel Prize in Chemistry Lester Wolfe Professor of Chemistry Department of Chemistry Massachusetts Institute of Technology

FIP Award Presentation - 2025 Pioneer in Photonics Award

10:00-10:30 **COFFEE BREAK**

10:30-11:50 Session 4: Special Topic – Quantum Dots and Advanced Nanomaterials

10:30- 11:00 **Invited Lecture**

Jillian Dempsey, Bowman and Gordon Gray Distinguished Term Professor Deputy Director, Center for Hybrid Approaches in Solar Energy to Liquid Fuels (CHASE)

University of North Carolina Chapel Hill

11:00- 11:30 **Invited Lecture**

Xiaoshan (Sean) Zhu, Professor of Electrical and Biomedical

Engineering, College of Engineering

University of Nevada

11:30-11:50 Maiken H. Mikkelsen, James N. and Elizabeth H. Barton Associate

Professor of Electrical and Computer Engineering

Duke University

11:50-1:30 pm **LUNCH BREAK**

Tuesday, March 11, 2025 (Fitzpatrick Center) - Afternoon Session

1:30-2:50 pm	Session 5	Special Session in Honor of Dr. Joseph Izatt OCT and Beyond: Past Present and Future Chair: Adam Wax, Duke University
	1:30-1:40	Introduction to Special Session and Joe Izatt's Achievements Adam Wax
	1:40-2:10	Invited Lecture Michael Choma, Associate Professor Adjunct Radiology & Biomedical Imaging Yale School of Medicine
	2:10-2:30	Cynthia Ann Toth , Joseph A.C. Wadsworth Distinguished Professor of Ophthalmology Professor of Biomedical Engineering Duke University
	2:30-2:50	Anthony Kuo, Associate Professor of Ophthalmology Assistant Professor of Biomedical Engineering Duke University

3:10-4:30 pm	Session 6	Special Session in Honor of Dr. Joseph Izatt OCT and Beyond: Past Present and Future Chair: Sina Farsiu, Duke University
	3:10-3:30	Adam Wax, Professor of Biomedical Engineering Duke University
	3:30-3:50	Sina Farsiu, Anderson-Rupp Professor of Biomedical Engineering Professor of Ophthalmology Duke University
	3:50-4:10	Al-Hafeez Z Dhalla, Assistant Research Professor of Biomedical Engineering, Duke University
	4:10-4:30	Ryan McNabb, Assistant Professor of Ophthalmology Duke University

SYMPOSIUM ADJOURNS

4:30 pm