

2nd Annual International Scientific Conference & Hybrid Expo on

Lasers, Optics, Photonics, Sensors & Ultrafast Nonlinear Optics

June 10-12, 2022 | **Worlds Hybrid Conference** (In Person and Virtual Conference)
Fort Lauderdale, Florida, USA

LOPS 2022 a hybrid conference will be held in Fort Lauderdale. We are inviting International experts, Academicians, Researchers, Industry experts, delegates, and students across the world who can also join this esteemed conference through online (virtual) slot as well.

To bring together the experts for infinite networking

www.exceleve.com/photonoptics

Meet the Global Experts at LOPS 2022

Plenary Forum



Robert Alfano

The City College of New York,
United States
Plenary Speaker,
Chief Planning Committee member



Steven L. Jacques

Bioengineering,
University of Washington,
United States



Andreas H. Hielscher

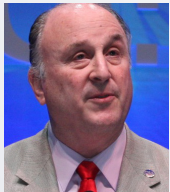
Professor and Chair
Director, Clinical Biophotonics
Laboratory (CBL), New York
University, United States



Federico Capasso

Robert L. Wallace Professor of
Applied Physics & Vinton Hayes
Senior Research Fellow in
Electrical Engineering Harvard
University School of Engineering &
Applied Sciences, United States

Keynote Forum



Robert Fisher

RA Fisher Associates, LLC,
United States



Boris Gramatikov

Laboratory of Ophthalmic Optics
The Johns Hopkins Hospital
United States



Rajpal Sirohi

Padma Shri, FNAE, FNASc,
FOSA, FSPiE, FOSI, AvH Awardee
Alabama A&M University
United States



Heinz W. Siesler

EAS NIR Award: 1994
Tomas Hirschfeld PITTCON NIR
Award 2000, Buechi NIR Award: 2003
University of Duisburg-Essen,
Germany



William (Doc A) Arrasmith

Florida Institute of Technology,
United States
Session Chair

Meet the Global Experts at LOPS 2022

Keynote Forum



Nicolas Javahiraly

Project manager, Expert, The Sagem Defense group, University of Strasbourg, France



Andrei Afanasev

The George Washington University
United States



Sergio Fantini

Tufts University, United States
2004: Graduate Student Council's Award
2001: Outstanding Faculty Award



Lingyan Shi

Discoverer, Heavy water labeling, Stimulated Raman scattering microscopy
Discoverer, Golden Optical Window, UCSD



Wolfgang Osten

Professor & Institute Director
Faculty of Engineering Design, Production Engineering & Automotive Engineering
Institute of Technical Optics (ITO)



Bahram Jalali

Department of Electrical and Computer Engineering, UCLA,
United States



Jan J. Dubowski

Laboratory for quantum semiconductors and photon-based bionanotechnology, Canada



Angela B Seddon

FSPIE, Chair of Inorganic Materials
Head of Mid-Infrared Photonics Group,
GGIEMR,AMRG University of Nottingham, UK



Igor Meglinski

Node Leader, Biophotonics 4 Life Worldwide Consortium (BP4L), Senior Member, IEEE, Chartered Physicist, Engineer



Haishan Zeng

Prism Award (Life Sciences & Biophotonics)- 2013 by SPIE
University of British Columbia,
Canada



Niloy K. Dutta

Life Fellow: The Institute of Electrical Engineers Fellow, Optical Society of America & International Society of Optical Engineers Member, Connecticut Academy of Science & Engineering, University of Connecticut, United States



Zhongping Chen

Professor, Biomedical Engineering & Director, OCT Laboratory, Irvine Beckman Laser Institute University of California, USA



Asima Pradhan

Indian Institute of Technology
Kanpur, India

Meet the Global Experts at LOPS 2022

Keynote Forum



Murukeshan Vadakke Matham
Nanyang Technological University,
Singapore



Vladimir G Chigrinov
The Hong Kong University
of Science and Technology,
HongKong

Meet the Global Experts at LOPS 2022

Speakers



Shouvik Datta
IISER, India



Sukhdev Roy
FNAE, FNASc., FIETE, FOSI, SMIEEE
Dayalbagh Educational Institute, India



Binlin Wu
Southern Connecticut State University
United States



Danling Wang
North Dakota State University
United States



Alexander Doronin
Victoria University of Wellington
New Zealand



R.M. Vasu
IISC, India



A.R. Ganesan
IIT, Madras, India



Mehta D. S.
IIT Delhi, India



Naveen K. Nishchal
IIT, Patna, India



Lotfia El Nadi
Member of The International
Committee Of Ultra Intense
Lasers, ICUIL



Amit Pathak
Institute of Science, BHU, India



Sundarrajan Asokan
IISC, India

Meet the Global Experts at LOPS 2022

Speakers



Alika Khare
IIT Guwahati, India



Bosanta R Boruah
IIT Guwahati, India

Tentative Scientific Program

PLENARY FORUM

“Odd Higher Harmonic Generation and Ultra -Supercontinuum explained from instantaneous electronic cloud and slower molecular nonlinear Kerr index of refraction of materials for intense femtosecond laser pulses”

Robert Alfano

The City College of New York, United States
Plenary Speaker



PLENARY FORUM

“Structured Light and Dark by Metaoptics”

Federico Capasso

Robert L. Wallace Professor of Applied Physics & Vinton Hayes
Senior Research Fellow in Electrical Engineering Harvard University
School of Engineering & Applied Sciences, United States



PLENARY FORUM

“Exploring the sub-diffuse scatter of photons by superficial tissue layers using polarized light”

Steven L. Jacques

Bioengineering,
University of Washington, United States



KEYNOTE FORUM

“TBA”

Robert Fisher

RA Fisher Associates, LLC,
United States



PLENARY FORUM

“Deep Tissue Optical Tomography: From Clinical Systems to Wearable Technology”

Andreas H. Hielscher

Professor and Chair
Director, Clinical Biophotonics Laboratory (CBL), New York
University, United States



KEYNOTE FORUM

“TBA”

Boris Gramatikov

Laboratory of Ophthalmic Optics
The Johns Hopkins Hospital, United States



Tentative Scientific Program

KEYNOTE FORUM

“TBA”

Rajpal Sirohi

2022 SPIE Maria J. Yzuel Educator Awardee,
Padma Shri, FNAE, FNASc, FOSA, FSPiE, FOSI, AvH Awardee
Alabama A&M University, United States



KEYNOTE FORUM

“Structures of Optical Vortices from Sparse Arrays of Light Sources”

Andrei Afanasev

The George Washington University
United States



KEYNOTE FORUM

“Study of Plasmonic Nano Sensors for Hydrogen Leak Detection ”

Heinz W. Siesler

EAS NIR Award: 1994
Tomas Hirschfeld PITTCON NIR Award 2000, Buechi NIR Award: 2003
University of Duisburg-Essen, Germany



KEYNOTE FORUM

“TBA”

Sergio Fantini

Tufts University, United States
2004: Graduate Student Council's Award
2001: Outstanding Faculty Award



KEYNOTE FORUM

“TBA”

Nicolas Javahiraly

Project manager, Expert, The Sagem Defense group,
University of Strasbourg, France



KEYNOTE FORUM

“TBA”

Lingyan Shi

Discoverer, Heavy water labeling, Stimulated Raman scattering
microscopy Discoverer, Golden Optical Window, UCSD



Tentative Scientific Program

KEYNOTE FORUM

“55 Years of Holographic Nondestructive Testing: What are the challenges for the future?”

Wolfgang Osten

Professor & Institute Director
Faculty of Engineering Design, Production Engineering &
Automotive Engineering
Institute of Technical Optics (ITO)



KEYNOTE FORUM

“TBA”

Angela B Seddon

FSPiE, Chair of Inorganic Materials
Head of Mid-Infrared Photonics Group, GGIEMR,
AMRG University of Nottingham, UK



KEYNOTE FORUM

“Physics-AI Symbiosis”

Bahram Jalali

Department of Electrical and Computer Engineering, UCLA
United States



KEYNOTE FORUM

“TBA”

Igor Meglinski

Node Leader, Biophotonics 4 Life Worldwide Consortium (BP4L),
Senior Member, IEEE, Chartered Physicist, Engineer



KEYNOTE FORUM

“TBA”

Jan J. Dubowski

Laboratory for quantum semiconductors and photon-based
bionanotechnology, Canada



KEYNOTE FORUM

“How to perform in vivo tissue macro- and micro- Raman spectroscopy reliably and implement clinical applications?”

Haishan Zeng

Prism Award (Life Sciences & Biophotonics)- 2013 by SPIE
University of British Columbia, Canada



Tentative Scientific Program

KEYNOTE FORUM

“Optical Correlator Using Silica Waveguides”

Niloy K.Dutta

Life Fellow: The Institute of Electrical Engineers
Fellow, Optical Society of America & International Society of
Optical Engineers Member, Connecticut Academy of Science &
Engineering, University of Connecticut, United States



KEYNOTE FORUM

“TBA”

Murukeshan Vadakke Matham

Nanyang Technological University, Singapore



KEYNOTE FORUM

“TBA”

Zhongping Chen

Professor, Biomedical Engineering & Director, OCT Laboratory, Irvine
Beckman Laser Institute University of California, USA



KEYNOTE FORUM

“TBA”

Vladimir G Chigrinov

The Hong Kong University of Science and Technology, HongKong



KEYNOTE FORUM

“Advance and Review for cancer on Fluro, excitation , Stokes shift , Raman
and resonance Raman and time resolved spectroscopy”

Asima Pradhan

Indian Institute of Technology Kanpur, India



Tentative Scientific Program

SPEAKER

“Tailoring Quantum Oscillations of Excitonic Schrodinger’s Cats as Qubits”

Shouvik Datta
IISER, India



SPEAKER

“TBA”

Danling Wang
North Dakota State University
United States



SPEAKER

“Low-power, High-frequency, and High-fidelity Optogenetic Switching of Neurons”

Sukhdev Roy
FNAE, FNAsc., FIETE, FOSI, SMIEEE
Dayalbagh Educational Institute, India



SPEAKER

“TBA”

Alexander_Doronin
Victoria University of Wellington, New Zealand



SPEAKER

“TBA”

Binlin Wu
Southern Connecticut State University
United States



SPEAKER

“Study of Brownian particle dynamics with geometric anisotropy: recovery of visco-elastic spectra of the host materials”

R.M. Vasu
IISC, India



Tentative Scientific Program

SPEAKER

“Optical Wavefront Estimation and Control for Adaptive Optics and Vision Science”

A.R. Ganesan
IIT, Madras, India



SPEAKER

“TBA”

Lotfia El Nadi
Member of The International Committee Of Ultra Intense Lasers, ICUIL



SPEAKER

“Laser Based Solid State Lighting, Illumination Engineering and Communication”

Mehta D. S
IIT Delhi, India



SPEAKER

“Laser Based Solid State Lighting, Illumination Engineering and Communication”

Mehta D. S
IIT Delhi, India



SPEAKER

“Optical Techniques for Information Security”

Naveen K. Nishchal
IIT, Patna, India



Registration Details

ACADEMIC					INDUSTRY/BUSINESS				
Category	Description	Dec-29-2021	Jan-24-2022	Feb-23-2022	Category	Description	Dec-29-2021	Jan-24-2022	Feb-23-2022
Speaker (In person)	Access to all Sessions, Workshops, Abstract publication in conference Souvenir, Conference Kit, Networking Kit, Certificate of Accreditation, Refreshments, Coffee Breaks	\$599	\$749	\$849	Industrial Presentation (In Person)	Access to all Sessions, Workshops, Abstract publication in conference Souvenir, Conference Kit, Networking Kit, Certificate of Accreditation, Refreshments, Coffee Breaks	\$699	\$799	\$899
Student Presenter (In Person)	Access to all sessions, Conference Souvenir, Certificates, Exclusive Networking Session (15 minutes), Workshops, Certificate Accreditation, 1 poster presentation slot with presentation set up, Refreshments, Coffee Breaks	\$249	\$299	\$399	Industrial Presentation (Online)	Access to all Sessions (online), Workshops, Abstract publication in conference Souvenir, Conference Kit, Networking Kit, Certificate of Accreditation.	\$199	\$299	\$399
Delegate (In Person)	Access to all Sessions, Workshops, conference Souvenir, Conference Kit, Networking Kit, Certificate Accreditation, Refreshments, Coffee Breaks	\$299	\$399	\$499	Exhibitor	1 Exhibitor slot space (3X3), 1 Complimentary delegate Registration, Networking kit, Exclusive Networking Session (15 minutes), Access to all Sessions, Workshops, Conference Kit, WiFi, Certificate Accreditation, 1 Business talk slot with presentation set up, 1 Promotional Poster Slot (free), Logo recognition in all printing materials: Souvenir, Lanyard, ID Cards, Lunch Coupons, Conference Kit, Logo recognition (medium size) in Podium and main backdrop, A4 Add in conference souvenir (1 page), Exclusive permanent exhibitor webpage promotion in website, Promotional Video for 10 minutes, Recognition on the Scientific program, Keynote, speaker slot and Sessions chair slots, Conference Photos & Videos Gallery, Recognition in the opening ceremony, Promotional email blasts, Social media and PRs, 2 Coffee Breaks & Refreshments, Personalized Meeting of interest form submission.	\$800	\$900	\$1,100
Speaker (Online)	Online Access (All sessions), Conference Souvenir, Certificates, Exclusive Networking Session (15 minutes), Access to all Sessions, Workshops, Certificate Accreditation, 1 Presentation slot with online set up, Conference photo Gallery	\$99	\$199	\$249					
Student Presenter (online)	Online Access (All sessions), Conference Souvenir, Certificates, Exclusive Networking Session (15 minutes), Access to all Sessions, Workshops, Certificate Accreditation, 1 talk slot with presentation set up Presentation set up, Conference photo Gallery	\$99	\$149	\$199	Conference Sponsor	1 Exhibitor slot space (3X3) 3 Complimentary delegate Registrations Networking kit Exclusive Networking Session (15 minutes) Access to all Sessions, Workshops Conference Kit, WiFi Certificate Accreditation 1 Sponsor talk slot with presentation set up 1 Promotional Poster Slot (free) Logo recognition in all printing materials: Souvenir, Lanyard, ID Cards, Lunch Coupons, Conference Kit Logo recognition (large size) in Podium and main backdrop A4 advertisement in conference souvenir (1 page) Exclusive permanent sponsor webpage promotion in website Promotional Video for 15 minutes Recognition on the Scientific program Keynote speaker slot and Sessions chair slot Conference Photos & Videos Gallery, Recognition in the opening ceremony, Promotional email blasts, Social media and PRs, Lunch Buffet 2 Coffee Breaks & Refreshments (2 days) 2 days Breakfast buffet, 1 Night complementary Accommodation at the conference venue. Personalized Meeting of interest form submission.	\$2,499	\$3,999	\$4,999
Student Delegate (Online)	Access to all sessions(online), Conference Souvenir, (soft copy) Exclusive Networking Session (15 minutes), Workshops, Certificate Accreditation, (soft copy)	\$99	\$149	\$199					
Young Investigator Talk	Includes all Registration amenities, 3 Nights Accommodation, 3 days Breakfast Buffet, Lunch Buffet, (including taxes)	\$299	\$399	\$449	Program Sponsor	Keynote Speaker Travel Sponsor, Announcement in the Program, Souvenir(Hardcopies, Soft Copies), 1 hr Promotional Session	\$1,999	\$2,999	\$3,999
					B2B Sponsor	Keynote Speaker Travel Sponsor, Announcement in the Program, Souvenir(Hardcopies, Soft Copies), 1 hr Promotional Session, B2B Meetings Sponsor slot, Exhibition Slot	\$2,499	\$3,499	\$3,999

LOPS 2021 Recommendations

LOPS 2021 was a phenomenally successful event wherein leading researchers across the globe presented ground-breaking research results in fields of lasers, optics, photonics, and sensors. The event had excellent presentations throughout and I particularly enjoyed the active integration of young researchers and students throughout the conference. This was a great opportunity to see fundamental and applied research in a variety of disciplines and I and my students benefited immensely. We are looking forward to LOPS 2022!"

William (Doc A) Arrasmith, PhD, Florida Institute of Technology, USA

It was a pleasure participating in the LOPS 2021 conference, and I'd like to thank Prof. Alfano and all organizers for the invitation and for putting together such a complex worldwide webinar. The speakers were outstanding, the presentations were excellent, and the broad range of optics and photonics topics covered was truly stimulating. Congratulations for a well-planned conference.

Sergio Fantini, Professor of Biomedical Engineering, Tufts University, USA
2004: Graduate Student Council's Awardee, 2001: Outstanding Faculty Awardee

I would like to thank you first for this nice invitation at the conference LOPS 2021. The conference was very interesting, well organized and very inspiring for interaction and collaborations. I was impressed by the organization I found very efficient and flexible. The conference gave me the opportunity to present my research to a global audience creating an excellent synergy. Experience we have to do it again every year for sure! Looking forward to see you next year!

Nicolas Javahiraly, Project manager, Expert, The Sagem Defense group, University of Strasbourg, France

Congratulations for outstanding conference LOPS 2021!

Manijeh Razeghi, Walter P. Murphy Professor, Director, Center for Quantum Devices, Department of Electrical Engineering and Computer Science, Northwestern University, USA

Thank you Keerthi for your organisation. Thank you very much indeed for inviting me to participate in LOPS21. It has been most enjoyable and interesting, and I learnt a lot.

Angela B Seddon, BSc (Hons), MPhil, PhD, FSGT, FIMM, FRSC, CChem, FSPiE Chair of Inorganic Materials. Head of Mid-Infrared Photonics Group, GGIEMR, AMRG, Faculty of Engineering. University of Nottingham, UK, A:Coates Building, Dept. Mechanical, Materials and Manufacturing. Engineering, University Park, University of Nottingham, UK.

I hereby express my sincere gratitude to the organizers of the LOPS 2021. It's a great pleasure and honour to be able to hear from world class professors and scientists across the globe, and also to present my work on this platform. It is indeed a red-letter day for me. Thank you so much for the kind help and support from the LOPS-2021 (International Scientific Conference on Lasers, Optics, Photonics & Sensors) and the Excel Global Conferences group. I wish there were more such conferences in the coming days.

Thanks a lot!

Nitu Borgohain (PhD), University of Science & Technology, Meghalaya

LOPS2021 was a very good opportunity for me. The conference generated a lot of ideas about how to continue to expand my skills and my professional qualifications. Thank you again for your great job. I really appreciate your hard work.

Erlin He, Florida Institute of Technology, USA

Thanks to you, Dr. Kazemi and other conference organizers for giving me the opportunity to present the work of our group. Thank you for helping me in preparing for the talk, its recording and so on.

Davorin Babic, Laser Components, USA

Previous Conference Recommendations

It was a pleasure and honour to participate in the LOPS 2021 conference, and I would like to thank Prof. Kazemi, Prof. Alfano, Keerthi and all organizers. The conference was very interesting, well organized, and very inspiring for interaction and collaborations

Nooshafarin Kazemikhoo, MD, PhD, UNSW Sydney, Australia

Well organized with rapid response to communications. The Global Webinar on Emerging Infectious Diseases held on January 9, 2021 was well organized with rapid response to communications. The Webinar gave me opportunity to present my research to a global audience and I enjoyed the scientific interaction.

C. J. Wright, PhD FRMS, Reader Bioprocess Engineering Portfolio Director Medical Engineering, Head of Chemical and Biological Engineering Research Group, Biomaterials, Biofouling and Biofilms Engineering Laboratory (B3EL) The Systems and Process Engineering Centre (SPEC) College of Engineering | Y Coleg Peirianeg, Swansea University | Prifysgol Abertawe

Fabian Way | Ffordd Fabian, Crymlyn Burrows, Swansea | Abertawe, Wales, Director, ProColl Ltd, UK and Membranology, UK

“Having worked closely with Excel Conferences organization on several occasions since its inception, we are able to confidently confirm that its management conducts itself as a competent and professional body that maintained a good reputation in our academic community. In fact, the management of “Excel Conferences” has consistently exceeded our expectations and believed to take the organization beyond the expectations of its competitors in serving our communities”.

Mohamed E. Wagih, Professor Of Genetics & Biotechnology, President, Canadian Academy of Sciences (CAS), Canada

“Its a great pleasure in associating with Excel Conferences towards its services, informative and innovative projects. I Greatly appreciate their efforts to the scientific community. Excel Conferences provides an excellent opportunity to catch the latest trends and reviews by establishing communication and networking between the experts from both academic and industrial backgrounds”.

Yarla, Novel Global Education Foundation, NSW, Australia. Member, American Cancer Association, USA

“Conferences of Excel Conferences are giving detailed data on Food science, Food

Technology and Food Engineering Perspectives. All of Key Nutrition Branches and key consumer data live in Food science for quickly identify and take action on any roadblocks across our growth cycle. Wishing the new success for upcoming meetings of Excel Conferences”.

Ozlem Tokusoglu, Celal Bayar University, Turkey, Conferences Chair, Food and Nutrition Conferences

“It was a great honour and a pleasure to be together with Excel Conferences organization management on many events, I learned a lot of things and I was impressed by the scientific level and the passion for the progress of colleagues, and academics. The chief, managers, organizers and all the workers in this organization are professional, enthusiasm and thoughtful”.

Marwa M. Elmaghrabi, Medical Tests Consultant, Permanent Researcher, Stem Cells And Tissue Culture Labs At Faculty Of Medicine.

“Global Webinar on Emerging Infectious Diseases, was held on January 9, 2021. The conference was attended by scientists and specialists from many countries. The topic of the Conference was about a dangerous disease like coronavirus and other Infectious Diseases. The conference was held in English. In the context of the pandemic, the Conference Organizer chose the only correct solution - the correspondence form of communication. A lot of reports in the form of Lectures-Presentations were listened to. This will help you choose new ways to diagnose, prevent and treat coronavirus. The Conference reports will be published in specialized journals.”

Elena Germanovna Dmitrieva, Clinical Pharmacist, Cand.Biol.Science's for Clinical Pharmacology, Russia

“This Global Webinar on Emerging Infectious Disease provided a platform to present scientific works at this crucial time of need when the contact meeting is very difficult. It was a great opportunity to present my short piece of work at this forum where great scientist and researcher around the globe were present. Similarly, I was delighted to hear and learn many new ideas and knowledge on infectious diseases including COVID-19. However due to internet connectivity issues, I couldn't some grab some lectures. Nevertheless, I am overwhelmed as the webinar was well timed and very informative. Therefore, I will be glad to join on the upcoming webinars in the future

Previous Conference Recommendations

conducted by Excel Group”.

Ragunath Sharma, Sr. Laboratory Officer, Dept of Pathology and Laboratory Medicine (Microbiology) , Jigme Dorji Wangchuck National Referral Hospital, Lecturer, Khesar Gyelpo University of Medical Sciences of Bhutan, Bhutan

“What a pleasure it was to attend the global webinar on emerging infectious diseases that was held on January 9, 2021. Many specialists, researchers, scientists, and professors around the world were attended. I have not stopped talking about it with my Head and colleagues, as it was different and dealing with newly interesting infectious disease topics and all in all were useful, and helpful especially in diagnosis, prevention, and treatment of novel Corona virus symptoms. I felt happy to share my presentation entitled “Measure to avoid remission of covid-19 infection” in this event, and hoping to share again in this precious networking”.

Marwa M. Elmaghrabi, Consultant in medical analysis, Permanent researcher of stem cells and tissue culture labs, Alexandria Faculty of Medicine, Egypt

“Global Webinar on Emerging Infectious Diseases, was held on January 9, 2021. The conference was attended by many professionals from different parts of the world. There were many interesting lectures, all presented in English. The themes of the presentations were all related to infectious disease (COVID-19, bacteria resistance, etc...). The organization was excellent and they gave the opportunity of all presenters publishing their studies in open access journal without costs. I attest that all information that is related in this feedback is real.”

Huang Wei Ling MD, Acupuncture and Pain Management Specialist, Medical Acupuncture and Pain Management Clinic, Franca, São Paulo, Brazil

The last week Webinar (Global webinar on emerging infectious diseases) was good and we had a great interction with people.
We will stay in touch !

Sivakumar Gowder, Ton Duc Thang University, Vietnam

The conference was well organized with world class speakers and delegates. The scientific program and Pannel discussions are executed very well. I Would like to

attend the future conferences organized by Excel Global Conferences and exhibitions in the upcoming years too. Congratulations to Excel Group for organizing such a pure scientific service oriented and non profitable event. All the best for your future events and Exhibitions. I would recommend my colleagues across the World to join the conferences organized by Excel Group.

All the Best !

Best Regards,

Yacob Mathai, Marma Health Centre, Kerala, India

Greetings from PGIMER, Chandigarh, India!

I was pleased to attend the Global Webinar on Emerging Infectious Diseases, which was held on January 9, 2021. I had the pleasure of interacting with many esteemed scientists from different countries. The lectures were thought-provoking and gave us all an interesting insight into the subject of infectious diseases, which is especially relevant in these current times, and also how this current pandemic is giving rise to an increase in the incidence of infectious diseases. Furthermore, I would like to appreciate the effort of the organizers in organizing this interactive and informative webinar.

Anuradha Chakraborti, Professor & Head, Department of Experimental Medicine & Biotechnology, Postgraduate Institute of Medical Education & Research (PGIMER), Chandigarh, India

**Join experts from 100+ Countries
at this Annual Hybrid Conference**

With the great support from the Organizing Committee includes The Conference Chairmans and Chief Executive Committee members, LOPS Annual Conference Planning Committee organizing 2nd Annual International Scientific Conference Hybrid: In Person and Virtual conference Lasers, Optics, Photonics, Sensors and Ultrafast Nonlinear Optics during June 10-12, 2022 in Fort Lauderdale, Florida, USA

Major Scientific & Technical (Business/Industrial) Sessions

LASERS

- Biomedical and Therapeutic Lasers
- Fiber Lasers and Applications
- High Intensity Lasers & High Field Phenomena
- Laser Applications in Life Sciences
- Laser Spectroscopy and Microscopy imaging
- OPO Lasers
- Plasma Technologies
- Quantum Electronics and Laser Science
- Quantum Information & Measurement
- Semiconductor Lasers & LEDs
- Single Photon Sources for Quantum Effects
- Structure OAM Lasers Beams
- Supercontinuum Lasers
- Tunable Lasers
- Ultrafast Picosecond/Femtosecond/Attosecond lasers

OPTICS

- 2PEF & 3 PEF microscope imaging
- Adaptive Optics
- Applied Industrial Optics
- Biomedical Optics spectroscopy & imaging
- Complex & Structure Light of Spin Angular Momentum (SAM) & Orbital Angular Momentum (OAM) Beams
- Computational Optical Sensing & Imaging
- Correlation for Quantum Entanglement
- Fiber Optics Technology
- Fluorescence, Raman, Absorption
- Light propagation in scattering media
- Light-Matter Interaction
- Local & Nonlocal Photon beams
- Nonlinear Crystals & Optics

- Optical Communications & Networking
- Optical Instrumentation
- Optical Materials & Devices
- Optical spectroscopy
- Optics in Astronomy & Astrophysics
- Polarization States, Polarizers & WavePlates
- Q plates & Spatial Light Modulators (SLM)
- Resonance Raman spectroscopy
- SHG, THG, SRS, 4 Wave Mixing
- Special Function optical beams – Bessel, Laguerre Gaussian, Airy & Hermite optical beams
- Spectroscopy, Imaging & Metrology
- Stimulated Raman Gain /Loss imaging
- Tractor beams and nano-rotators
- Windows in NIR & SWIR Spectral Regimes for Transmission

PHOTONICS

- Cell phone with diagnostic capability
- Compact Photonic & Optoelectronic Materials & Devices
- Compact smart spectral photon & imagers
- Fiber Optics Devices
- Microphotonics, Nanophotonics & Optical Manipulation
- Microwave Photonics
- Molecular Photophysics and Spectroscopy
- Nonlinear Optics and Photonics
- Optical Coherence Tomography Technologies
- Organic and Bio-Photonics
- Photodetectors, Sensors and Imaging
- Photonic and Optoelectronic Materials & Devices

- Photonic and Optoelectronic Materials and Devices
- Photonics for Energy & Green Photonics
- Plasmonic Structures & Quantum Dots
- Quantum effect and entangled photons
- Silicon like Ge Si detector & Laser devices
- Ultrafast Phenomena, Attosecond Science & Technology
- Translational Optical Coherence Tomography
- Photoacoustics
- Advanced Microscopy & Spectroscopy
- Multimodal Biomedical Imaging

SENSORS

- Applied Industrial Spectroscopy
- Biosensors and Bioelectronics
- Compact PMT, Avalanche & Pin Diodes
- Computational Optical Sensing & Imaging
- Gas Sensors Based on Conducting Metal Oxides
- Metabolism Detection for Lipids & Protein
- Mobile Sensors
- Molecular Sensors & Nanodevices
- Nano Optoelectronic Sensors and Devices
- Nanomaterials for Biosensors
- Optical Biosensors
- Optics & Photonics for Sensing the Environment
- Optofluidics, Sensors & Actuators in Microstructured Optical Fibers
- Opto-Mechanical Fiber Optic Sensors
- Photo Acoustics Sensing, Detection & Imaging
- Photodetectors in UV, Visible, NIR, SWIR & MIR

- Printed Films
- RFID & Wireless Sensors using Ultra-Wideband Technology
- Semiconductor Gas Sensors
- Semiconductor Nanomaterials for Flexible Technologies
- Sensors and Actuators
- Smart Sensors

BIOPHOTONICS

- Bioimaging
- Biophotonics Techniques
- Cellular level diagnosis
- Clinical Biophotonics
- Diagnostic biophotonics
- Optical coherence tomography (OCT)
- Optical endoscopes
- Optical tagging
- Photobiostimulation
- Therapeutic biophotonics
- Thermal contact
- Visualization of complex structures

ULTRAFAST NONLINEAR OPTICS

- Ultrafast Laser Line Mirrors
- Electro-Optics Technology GmbH
- Nonlinear Optics in Periodic and Random Media
- Complex Multidimensional Nonlinear Systems
- Advanced Nonlinear Optical Materials and Devices

LOPS 2021(Previous Conference): Presentations

Duration	Type	Code	Notes
45	Plenary	P	Duration: 45 minutes
30	Keynote	K	Duration: 30 minutes
25	Invited	I	Duration: 25 minutes
15	Student	S	Duration: 15 Minutes
20	Coffee Break	CB	Duration: 20 Minutes
30	Lunch Break	LB	Duration: 20 Minutes
10	Opening Ceremony	O	Duration: 10 Minutes
5	Closing Ceremony	C	Duration: 5 Minutes
0	End	e	

Start Time **8:00AM** **8** **0**

Saturday June 12, 2021 - All the Time are in USA Eastern Standard Time

Presenters local Time	EST Timing	Paper #	Code	Min	Session I - Presenter/Paper Title	Chair/Session Chair
Pasadena, USA: 5:00 AM	8:00AM	Opening Ceremony	O	10	Kazemi Alex , Chairman LOPS Conferences, Excel Global Conferences	Alex Kazemi
New York, USA: 8:10 AM	8:10AM	LOPS2021-P02	K	30	Alfano : Advances In Supercontinuum -The Ultimate Ultrafast White Light - and Ultra-supercontinuum broadening from self-phase modulation for isotropic condensed media with extremely intense femtosecond pulses	Alex Kazemi
Pasadena, USA: 5:40 AM	8:40AM	LOPS2021-S01	K	30	Kazemi : Micro FBG Sensor Systems for Aircraft Wing Drag Optimization	Alex Kazemi
Evanston, USA: 8:10 AM	9:10AM	LOPS2021-P01	P	45	Razeghi : Quantum Science and Technology	Alex Kazemi
USA EST: 9:55 PM	9:55AM		CB	20	Coffee Break	
Delft, Netherland: 4:15 PM	10:15AM	LOPS2021-S03	K	30	Dam : Long-range, hysteresis-free and fast optical hydrogen sensing using transition metal hydrides	Alex Kazemi
Melbourne, USA: 10:45 AM	10:45AM	LOPS2021-O01	K	30	Murshid : High-speed optical fiber communications architecture combining SDM and OAM based designs with PAM4 and WDM systems	Alex Kazemi
Redondo, USA : 8:15 AM	11:15AM	LOPS2021-S02	K	30	Mendoza : Wearable Personal Point-of-Care Multi-Parameter Vital-Sign Physiology Optical Sensing Monitor (VISIOM™) System	Alex Kazemi
Strasbourg, France: 5:45 PM	11:45AM	LOPS2021-S05	K	30	Javahiraly : Plasmonic micro sensor for pesticides detection	Alex Kazemi
USA EST: 12:15 PM	12:15PM		LB	30	Lunch Break	

Presenters local Time	EST Timing	Paper #	Code	Min	Session II- Presenter/Paper Title	Chair/Session Chair
Nottingham, UK: 5:35 PM	12:35PM	LOPS2021-S06	I	25	Phang: A traffic light diagnostic inspired by neuromorphic system.	Syed Murshid/ I. Kymissis
Massachusetts, USA: 1:00 PM	1:00PM	LOPS2021-O03	K	30	Fantini: Dual slopes in diffuse optics	Syed Murshid/ I. Kymissis
Washington DC, USA: 1:30 PM	1:30PM	LOPS2021-L03	K	30	Afanasev: Novel Propagation Modes of Twisted Light in Spatially Dispersive Matter	Syed Murshid/ I. Kymissis
Golden, USA: 12:00 PM	2:00PM	LOPS2021-L07	I	25	Knabe: Robust, Field-deployed Laser Modules For Next Generation Quantum Sensors	Syed Murshid/ I. Kymissis
Waco, USA: 1:25 PM	2:25PM	LOPS2021-L04	I	25	Olafsen: Optical Pumping and Reduction of Droop in Interband Cascade Lasers	Syed Murshid/ I. Kymissis
USA EST: 2:50 PM	2:50PM		CB	20	Coffee Break	
New York, USA: 3: 10 PM	3:10PM	LOPS2021-L01	I	25	Kymissis: MicroLEDs and OLEDs for Non-Display Applications	Syed Murshid/ S. Fantini
Irvine, USA: 12:35 PM	3:35PM	LOPS2021-O07	K	30	Chen: Frontier in Optical Coherence Tomography: Doppler OCT, OCTA, and Optical Coherence Elastography	Syed Murshid/ S. Fantini
Connecticut, USA: 4:05 PM	4:05PM	LOPS2021-O09	K	30	Dutta: Semiconductor Optical Amplifiers for Optical logic Applications	Syed Murshid/ S. Fantini
Pittsburgh, USA: 4:35 PM	4:35PM	LOPS2021-O24	K	30	Jana: Diffuse optical spectroscopy-based biomarkers of cerebral health	Syed Murshid/ S. Fantini
Baltimore, USA: 5:05 PM	5:05PM	LOPS2021-O11	K	30	Gramatikov: Ophthalmic polarization-sensitive diagnostic technologies employing retinal birefringence scanning	Syed Murshid/ S. Fantini
	5:35PM		e			

Previous Conference (LOPS 2021) Presentations

Duration	Type	Code	Notes
30	Keynote	K	Duration: 30 minutes
25	Invited	I	Duration: 25 minutes
15	Student	S	Duration: 15 minutes
20	Coffee Break	CB	Duration: 20 Minutes
30	Lunch Break	LB	Duration: 30 Minutes
0	End	e	

Start Time **8:00AM** **8** **0**

Sunday June 13, 2021 All the Time are in USA Eastern Standard Time

Presenters local Time	EST Timing	Paper #	Code	Min	Session III - Presenter/Paper Title	Chair/Session Chair
South Hampton, UK: 1:00 PM	8:00AM	LOPS2021-O02	K	30	Poletti: Hollow core fibers: sensing, machining and communicating with air-guided light	Bernard Dam/ Poletti
Duisburg, Germany: 2:30 PM	8:30AM	LOPS2021-P04	K	30	Siesler: Customer-Affordable Handheld Near-Infrared Spectrometers: On-Site Quality Control and Protection against Product Counterfeiting	Bernard Dam/ Poletti
Orlando, USA: 9:00 AM	9:00AM	LOPS2021-P03	K	30	Delfyett: Ultrafast Photonics Techniques and Applications - Communication and Signal Processing at the Speed of Light	Bernard Dam/ Poletti
Urbana, USA: 8:30 AM	9:30AM	LOPS2021-O10	I	25	Dragic: Advanced optical fiber systems: What do we really need from the fiber?	Bernard Dam/Poletti
USA EST: 9:55 AM	9:55AM		CB	20		
FortLauderdale, USA: 10:15AM	10:15AM	LOPS2021-L08	I	25	Craddock: Fano Resonances in the Resonance Raman Spectra of Tubulin and Microtubules Reveals Active Quantum Effects	Bernard Dam/ Delfyett
Prague, Czech Republic: 4:40 PM	10:40AM	LOPS2021-O14	I	25	Vojtech : Transmission of Precise Time and Ultrastable Optical Frequency within Telecommunication Networks	Bernard Dam/ Delfyett
Olching, Germany: 5:05 PM	11:05AM	LOPS2021-L02	I	25	Kunsch: Recent Progress & Possible Trends in Infrared Technologies	Bernard Dam/ Delfyett
Birmingham,UK: 4:30 PM	11:30AM	LOPS2021-P05	I	25	Meglinski: Spin Angular Momentum of Light In Digital Histopathology	Bernard Dam/ Delfyett
Paris, France: 5:55 PM	11:55AM	LOPS2021-O12	I	25	Sarayeddine: Display optics Challenges for AR Smart Glasses. The monolithic plastic optics solution	Bernard Dam/ Delfyett
Melbourne, USA: 12:20 PM	12:20PM	LOPS2021-L05	K	30	Arrasmith: High-speed, High-accuracy Direct General Transfer Function Estimation Using a new Well-Optimized Linear Finder (WOLF) Method with Application to Diversity-based Atmospheric Turbulence Compensated Imaging Systems	Bernard Dam/ Delfyett
USA EST: 12:50 PM	12:50PM		LB	30	Lunch Break	

Presenters local Time	EST Timing	Paper #	Code	Min	Session IV - Presenter/Paper Title	Chair/Session Chair
Cranfield, UK: 06:20 PM	1:20PM	LOPS2021-L09	I	25	Suder: Challenges in high power laser processing	Ed Mendoza / Ballato
Huntsville, USA: 12:45 PM	1:45PM	LOPS2021-L10	K	30	Sirohi: Shearography and its applications	Ed Mendoza / Ballato
Norcross, USA: 2:15 PM	2:15PM	LOPS2021-O10	K	30	Westbrook: Enhanced Optical Fibers for Next Generation Distributed Sensing	Ed Mendoza / Ballato
Houston, USA: 1:45 PM	2:45PM	LOPS2021-S07	K	30	Varghese: Exceptional Properties of Hierarchical Oxide Nanostructures for Energy and Medicine	Ed Mendoza / Ballato
USA EST: 3:15PM	3:15PM		CB	20	Coffee Break	
New York, USA: 3:35 PM	3:35PM	LOPS2021-P08	I	25	Pu, Yang: Bridging the gap between optics and life science using Photoacoustic and nonlinear optical microscopy	Ed Mendoza/ Westbrook
North Dakota, USA: 3:00 PM	4:00PM	LOPS2021-S08	I	25	Wang: A novel nanocomposite based on 2D nanosheets, Ti3C2 MXene and 1D nanowires, KxWO for application in diabetes care	Ed Mendoza/ Westbrook
New Haven, USA: 4:25 PM	4:25PM	LOPS2021-L11	I	25	Binlin: Intraoperative margin detection and grading of human meningioma using a handheld visible resonance Raman analyzer and machine learning	Ed Mendoza/ Westbrook
Chandler, USA: 1:50 PM	4:50PM	LOPS2021-L12	I	25	Babic: Lead Selenide Transport and Conductivity Mechanism	Ed Mendoza/ Westbrook
Torrance, USA: 2:15 PM	5:15PM	LOPS2021-P15	I	25	Indu Fiesler: Acousto-ultrasonics applications of fiber optic sensors	Ed Mendoza/ Westbrook
Sydney, Australia: 7:40 AM	5:40PM	LOPS2021-P09	I	25	Kazemikhoo: Effect of photo biomodulation on the healing process of donor site in patients with grade 3 burn ulcer after skin graft surgery (a randomized clinical trial)	Ed Mendoza/ Westbrook
USA EST: 5:40 PM	5:40PM		e			

Previous Conference (LOPS 2021) Presentations

Duration	Type	Code	Notes
30	Keynote	K	Duration: 30 minutes
25	Invited	I	Duration: 25 minutes
15	Student	S	Duration: 15 minutes
20	Coffee Break	CB	Duration: 20 Minutes
30	Lunch Break	LB	Duration: 30 Minutes
	End	e	

Start Time 8:00AM 8 0

Monday June 14, 2021 All the Time are in USA Eastern Standard Time

Presenters local Time	EST Timing	Paper #	Code	Min	Session V - Presenter/Paper Title	Chair/Session Chair
Strasbourg, France: 2:00 PM	8:00AM	LOPS2021-S04	K	30	Javahiraly: Review on the progress of nano-sensors for hydrogen leaks – nanostructured sensors based on palladium nanoparticles	Nicolas Javahiraly/ Seddon
Tehran, Iran: 5:00 PM	8:30AM	LOPS2021-P07	I	25	Zandi: Design of a high-performance photoconductive terahertz modulator enhanced by photonic crystal cavity	Nicolas Javahiraly/ Seddon
Meghalaya, India: 5:25 PM	8:55AM	LOPS2021-O23	I	25	Nitu: Control field Rabi frequency managed broadband supercontinuum generation in a semiconductor quantum well nanostructure	Nicolas Javahiraly/ Seddon
Semnan, Iran: 5:50 PM	9:20AM	LOPS2021-L15	I	25	Ajami: Dispersive White Light Supercontinuum Single Z-scan: A new method to determine the two-photon absorption spectrum	Nicolas Javahiraly/ Seddon
Tehran, Iran: 6:15 PM	9:45AM	LOPS2021-L14	I	25	Dorranian: Review on lasers synthesis and processing of nanostructures	Nicolas Javahiraly/ Seddon
USA EST: 10:10 AM	10:10AM		CB	20	Coffee Break	
Quebec, Canada: 10:30 AM	10:30AM	LOPS2021-O07	I	25	Thibault: Using Deep Learning in Optical System and Lens Design	Nicolas Javahiraly/ Shi
Nottingham, UK: 3:55 PM	10:55AM	LOPS2021-O05	I	25	Seddon: Mid-infrared sources, based on chalcogenide glass fibers	Nicolas Javahiraly/ Shi
British Columbia, Canada: 8:20 AM	11:20AM	LOPS2021-L06	I	25	Zeng: In vivo multiphoton microscopy and multiphoton absorption based laser therapy	Nicolas Javahiraly/ Shi
Clemson, USA: 11:45 AM	11:45AM	LOPS2021-O04	I	25	Ballato: Fascinating materials science for advanced optical fibers	Nicolas Javahiraly/ Shi

San Diego, USA: 9:10 AM	12:10PM	LOPS2021-O06	I	25	Shi: Optical metabolic imaging of cells and tissues	Nicolas Javahiraly/ Shi
USAEST: 12:35 PM	12:35PM		LB	30	Lunch Break	

Presenters local Time	EST Timing	Paper #	Code	Min	Session VI - Presenter/Paper Title	Chair/Session Chair
Evanston, USA: 12:05 PM	1:05PM	LOPS2021-P12	I	15	Gautam: Geiger mode AlGaIn UV APD with single photon detection	Alex Kazemi/ William Arrasmith
New York, USA: 1:20 PM	1:20PM	LOPS2021-P13	I	15	Meyer: Femtosecond Conical Emission in BK-7 Glass and the Influence of the Transient Kerr Nonlinear Index	Alex Kazemi/ William Arrasmith
Evanston, USA: 12:35 PM	1:35PM	LOPS2021-P14	I	15	Junhee: Si-doped p-type Ga2O3 grown by MOCVD and its field-effect transistors	Alex Kazemi/ William Arrasmith
Melbourne, USA: 1:50 PM	1:50PM	LOPS2021-O16	I	15	Ce (Samuel) Su: Optical Simulation Tool for SDM Communication System based on Off-Axis Parabolic Mirror	Alex Kazemi/ William Arrasmith
					Coffee Break	
Melbourne, USA: 2: 25 PM	2:25PM	LOPS2021-O17	S	15	Tu, Mingxuan : Analysis of SDM Optical Communications System Using Optisystem and Zemax	Alex Kazemi/ William Arrasmith
Orlando, USA: 2:40 PM	2:40PM	LOPS2021-O18	S	15	Chinmay: PAM-4 Data Transmission using Modulation Instability Frequency Combs on a Kerr Microresonator platform	Alex Kazemi/ William Arrasmith
Melbourne, USA: 2: 55 PM	2:55PM	LOPS2021-O19	S	15	Coon: Performance of a real-time atmospheric turbulence compensation methodology operating on aberrations modeled with Von Karman statistics	Alex Kazemi/ William Arrasmith
Melbourne, USA: 3:10 PM	3:10PM	LOPS2021-O20	S	15	Coots: Infrasound to Optics: System Noise Reduction Using New M.I.D.A.S. Filter With Wavelet-based Pre-Processor	Alex Kazemi/ William Arrasmith
Melbourne, USA: 3:25 PM	3:25PM	LOPS2021-O21	S	15	He, Erlin: Well Optimized Linear Finder (WOLF) Atmospheric Turbulence Compensation (ATC) computational speed improvement through the adoption of parallel, pre-calculated constant complex exponential phase difference chains.	Alex Kazemi/ William Arrasmith
Melbourne, USA: 3:40 PM	3:40PM	LOPS2021-O22	S	15	Xin, Yang: Order Analysis Comparison between traditional Fourier Transform-based atmospheric turbulence compensation methods and new Well Optimized Linear Finder Methodology	Alex Kazemi/ William Arrasmith

Wellington, New Zealand: 7:55 AM"	3:55PM	LOPS2021-O13	I	25	Doronin: A unified platform for simulating light transport in turbid media and its applications in Optical Diagnostics, Sensing and Computer Graphics	Alex Kazemi/ William Arrasmith
Pasadena, USA:1:25 PM	4:20PM		C	5	Closing Ceremony	Alex Kazemi/ William Arrasmith
USA EST: 4:25 PM	4:25PM		e		End	

Early Bird Registration Deadline: 15th December 2021



VENUE:
**Holiday Inn Express Ft. Lauderdale
 Cruise-Airport
 1500 SE 17th Street Causeway
 Fort Lauderdale, FL 33316, USA**