



International  
Conference on  
Optical MEMS &  
Nanophotonics



SBFoton  
International  
Optics and  
Photonics Conference

Lighting Up  
a Smart Digital Future!

# INVITED SPEAKERS

Unicamp Convention Center  
July 30th – August 3rd



sbfoton



IEEE  
Photonics  
Society

OPTICA  
Formerly OSA

SPIE.



ESSS

ANSYS



FAPESP

JOM

Journal of  
Optical Microsystems



LUMENTUM



KEYSIGHT

padtec

THORLABS



Sisfóton  
SISTEMA NACIONAL DE LABORATÓRIOS DE FOTÔNICA  
MCTI



UNICAMP

Monday, July 31st

UNICAMP Convention Center

Auditorium 3

08:30 to 12:30 **Plenary Session - Monday**

09:00 to 9:45



Sunghoon Kwon

Sunghoon Kwon is a full professor of School of Electrical and Computer Engineering at Seoul National University. He received his B. S. in Electrical and Computer Engineering (1998), M. S. in Biomedical Engineering (2000) from Seoul National University, and his Ph.D. in Bioengineering from University of California, Berkeley (2004). His research interest is to develop diagnostic and therapeutic technologies for personalized medicine. He has published over 80 papers in international journals holds more than 70 international patents. Many of his research were commercialized as IVD (in-vitro-diagnostics) kits and now being used in hospitals. He is a founder and CEO of Quanta Matrix Inc, a company that productized life-saving microfluidic-based antibiotic test for sepsis. He has generated more than \$100M research and development funding for innovation in personalized medicine. He received many prestigious awards including the KAST Young Scientist Award, the Presidential Young Scientist Award, the IEEK/IEEE IT Young Engineer Award, and the NAEK Young Engineer Award.

09:45 to 10:30



Antonio Jose Roque da Silva

Antonio José Roque da Silva earned his bachelor's (1986) and master's (1989) degrees in Physics from UNICAMP and his Ph.D. in Physics from the University of California at Berkeley in 1994. He did a post-doc at the University of California at Berkeley (1994-1995) and at the University of California at Los Angeles (1995-1997). He is currently a Full Member of the Brazilian Academy of Sciences (Physical Sciences), a member of the Academy of Sciences of the State of São Paulo (ACIESP), a Professor at the University of São Paulo, and a Director General of CNPEM and the Sirius Project. Awarded with the National Order of Scientific Merit, Commander Class. He has published more than 130 articles in specialized journals and is a co-author of more than 200 papers presented at national and international events. He has more than 4500 citations and an  $h=34$  parameter. He has 4 book chapters and 1 published book. He has supervised 6 post-doctoral fellowships, supervised 7 MSc dissertations and co-supervised 2, supervised 9 Ph.D. theses, and co-supervised. He works in Physics, with an emphasis on Condensed Matter Physics and Atomic and Molecular Physics. In particular, he has a main interest in the area of computational simulation and calculations of electronic structure and electronic transport properties, focusing on the area of nanostructures.

11:00 to 11:45



Michal Lipson

Prof. Michal Lipson is the Eugene Higgins Professor at Columbia University. Her research focus is on Nanophotonics and includes the investigation of novel phenomena, as well as the development of novel devices and applications. Prof. Lipson pioneered critical building blocks in the field of Silicon Photonics, which today is recognized as one of the most promising directions for solving the major bottlenecks in microelectronics. She is the inventor of over 45 issued patents and has co-authored more than 250 scientific publications. In recognition of her work in silicon photonics, she was elected as a member of the National Academy of Sciences and the American Academy of Arts and Sciences. Her numerous awards include the NAS Comstock Prize in Physics, the MacArthur Fellowship, the Blavatnik Award, OPTICA's R. W. Wood Prize, the John Tyndall Award, the IEEE Photonics Award, and an honorary degree from Trinity College, University of Dublin. In 2020 she was elected the 2021 Vice President of OPTICA, formerly known as The Optical Society (OSA), and is currently (2023) the President of OPTICA. Since 2014, every year she has been named by Thomson Reuters as a top 1% highly cited researcher in the field of Physics.

11:45 to 12:30



Alexandre Gaeta

Gaeta received his BS, MS, and PhD degrees in Optics from the University of Rochester in Rochester, NY in 1983, 1985, and 1991, respectively. He remained there as a postdoctoral associate from 1991 – 1992. Gaeta joined Columbia Engineering as the David M. Rickey Professor of Applied Physics and Materials Science in 2015. Prior to that, Gaeta was the Samuel B. Eckert Professor of Engineering at Cornell University and was Chair of the School of Applied and Engineering Physics from 2011 – 2014. He has published more than 300 journal articles in quantum and nonlinear photonics. He served as the founding Editor-in-Chief of the journal Optica from 2014-2020 and Chair of the Optica Publications Council in 2022. He co-founded Xscape Photonics, Inc. in 2022 and is currently serving as the CEO. He is a Fellow of the Optica, APS, and IEEE, and a Thomson Reuters Highly Cited Researcher, and was awarded the 2019 Charles H. Townes Medal from Optica.

Auditorium 1






14:00 to 17:30 **Technical Session - Monday**

14:00 to 14:30



Konstantin Alexandrovich Lukin

Prof. Kostantin Lukin received his diploma in radiophysics and electronics from Kharkov State University, Ukraine, in 1973. He is head of the Laboratory for Nonlinear Dynamics of Electronic Systems (LNDES), at the O. Ya. Usikov Institute for Radiophysics and Electronics of the National Academy of Science of Ukraine (IRE NASU). He completed his candidate of sciences thesis at IRE NASU and defended it at Moscow State University (MSU) in 1980. He completed his doctor of science dissertation in physical electronics in IRE NASU and defended it at Kharkov State University in 1989. Dr. Lukin was leader of many international research and development projects on noise radar systems and sensors, and on SAR imaging and microwave monitoring of the environment.

16:00 to 16:30	 Youmin Wang	Education: BS Electronic Engineering, 2008, at Shanghai Jiao Tong University; PhD Electrical and Computer Engineering, at University of Texas at Austin. Experience: Himax (Staff Engineer), 2013-14; Postdoctoral Scholar at UC Berkeley, 2014-18; Co-founder of Raydian Inc (2017-18); Rech Lead Manager at Didi, 2018-22; Applied Research Scientist at Meta, since 2022, where he does hardware research of AR/VR Metaverse. Skills: Optics, MEMS, semiconductor fabrication.
<b>Auditorium 2</b>		
14:00 to 17:30	<b>Technical Session - Monday</b>	
14:00 to 14:30	 Lilia Coronato Courrol	Bachelor's Degree in Physics from PUC São Paulo (1987), Master's (1990) and Ph.D. (1994) from USP. She is a Lecturer at the Federal University of São Paulo (UNIFESP), where she joined in 2006 and is currently in the position of Prof. Holder. She was head of the Department of Physics between 2017-2020. She works in the graduate program in Technology and Sustainability Sciences at Unifesp Diadema and collaborates with: Instituto Butantã, IPEN-SP, and King Saudi University. She has experience in Physics with an emphasis on Optics and Spectroscopy of Condensed Matter; She works mainly on the following topics: theranostics, laser, biosensors, crystals, amorphous, spectroscopy, lipoproteins, atherosclerosis, fluorescence microscopy, nanotechnology, optical diagnosis, liquid biopsy, among others. Journal of Luminescence, Journal of Fluorescence, Ultrasound in Biology and Medicine, among others. Invention patents: BR102014016592-A2, BR200602279-A2; BR200602279-B1 and BR9600093-A5. Researcher at INCT-Fx, National Institute of Science and Technology of Complex Fluids of CNPq (2009-present). Member of the Brazilian Society of Physics, and of the Brazilian Society of Optics and Photonics.
16:00 to 16:30	 Leonardo Ambrosio	Associate Professor at USP at the Department of Electrical and Computer Engineering (SEL) at the School of Engineering of São Carlos (EESC). Graduated in Electrical Engineering (Unicamp, 2002), Master's (Unicamp, 2005) and Doctorate (Unicamp, 2009) in Electrical Engineering, with post-doctorate at Unicamp/UPenn (Philadelphia, USA). He has a theoretical-numerical research lines in photonics, light-matter interaction problems for applications in optical trapping and manipulation, metamaterials and plasmonics for nano-circuits, and microstructured light beams and non-diffractive beam modeling for applications in biomedical optics, telecommunications, holography, volumetric displays and atomic guidance. His current research projects merge the above lines, with an emphasis on microstructured beams and non-diffractive waves for trapping and micromanipulation of micro and nanometric. Recently, he started a line of research in brain-computer interfaces for entertainment, games and the metaverse, aiming at mind control of three-dimensional volumetric displays.
<b>Auditorium 3</b>		
14:00 to 17:30	<b>Technical Session - Monday</b>	
14:00 to 14:30	 Diego José Rátiva Milán	Diego Rátiva is Associate Professor (Free Lecturer) of the Computer Engineering course at the University of Pernambuco (UPE), permanent member and coordinator of the Graduate Program in Systems Engineering at UPE, permanent member of the Graduate Program in Engineering of Computing at UPE. He also holds the position of Manager of the Research Division at the Polytechnic School of Pernambuco and is a technical-scientific adviser to the Institute of Technological Innovation (IIT) at UPE. He is Managing Director of the Brazilian Society of Optics and Photonics (SBFOTON) and IEEE senior member. He is editor in chief of the Journal of Applied Engineering and Research (REPA) and a member of the editorial board of the IEEE Latin American Transactions. He coordinates Research and Development Projects with different industries in the areas of: Computational Fluid Dynamics (CFD) of Industrial Machines, Digital Twins and Data Analytics of Industrial Lines. Other research topics are in the areas of optical instrumentation, design of optical devices for solar collection, and intelligent algorithms for optical control systems.
16:00 to 16:30	 Sidney José Lima Ribeiro	Director of the Institute of Chemistry UNESP (2020-2024). Full Professor at the Institute of Chemistry-UNESP in Araraquara, Bachelor in Chemistry (UNESP-1982), Master in Inorganic Chemistry (UNESP- 1987) and Doctor in Inorganic Chemistry (UNESP-UFPE -1992). Full member of the Brazilian Academy of Sciences (ABC) and of the Academy of Sciences of the State of São Paulo (ACIESP). Fellow of the European Academy of Sciences. Coordinator of the international network "Materias for the Future (CAPES-PRINT-UNESP). Vice-coordinator of the National Institute of Photonics (InFO). Researcher 1A CNPq. Postdoctoral at École Centrale Paris- 1994 and CNET-France Telecom- 1995, working with transparent glass-ceramics and lasers. Works in the area of Inorganic Chemistry and its implications in Materials Science, Spectroscopy and Chemistry Teaching. Ongoing projects involve natural polymers (bacterial cellulose and silk fibroin), organic-inorganic hybrids, light (optical fibers and thin films), porous materials and luminescent markers for Medicine. He is Associate Editor of the journal "Frontiers in Chemistry- Inorganic Chemistry" and member of the editorial board of the Journal of Sol-Gel Science and Technology and Journal of Non-Crystalline Solids, he is also scientific advisor to the main agencies in the country, NSF (United States), CNR (Italy) and several scientific journals. He was a visiting researcher at NIRIM, Japan. He was Visiting Professor at the University of Trento in Italy, at the Universities of Angers, Bordeaux and Toulouse, France, University of Aveiro ,Portugal, and UFJF

Tuesday, August 1st

UNICAMP Convention Center

Auditorium 3

09:00 to 12:30 **Plenary Session - Tuesday**

09:00 to 9:45



Amr Helmy

Amr S. Helmy joined the department of Electrical and Computer engineering of the University of Toronto with a mixed experience in academic as well as industrial settings. He received both his MSc (1995) and PhD (1999) degrees from the University of Glasgow, Scotland, in the field of photonics. Between 2000 and 2004 he joined Agilent Technologies, where he was involved in developing different photonic devices ranging from high reliability submarine-class lasers, to un-cooled single mode lasers, to integrated photonic circuits. Dr. Helmy's research interests include quantum/non-linear integrated photonic devices/circuits and nano-photonic devices/circuits using hybrid metallic architectures. The application domains, where his group contributes, include optical signal processing, communications and sensing. He is currently the Vice President for the IEEE Photonics Society and has been Editor for several IEEE and OSA journals and has also chaired flagship conferences for IEEE and OSA; namely CLEO and IEEE IPC.

09:45 to 10:30



Carmem Menoni

Carmen S. Menon, University Distinguished Professor, Electrical & Computer Engineering, Colorado State University, also holds appointments in the department of Chemistry, and the School of Advanced Materials Discovery. Prof. Menoni's group investigates the synthesis of amorphous thin film oxides by sputtering and uses spectroscopic and other material diagnostics to identify their structural organization at the nanoscale. Through a combination of fundamental understanding of the optical and structural properties of the thin films materials and device engineering, Prof. Menoni research is advancing the state-of-art in interference coatings for ultra-high intensity lasers and for gravitational wave detectors. Menoni is also involved in using high-brightness coherent beams of light of wavelengths between 10-50 nm for optics applications such as nanoscale imaging, ablation and chemical imaging. Prof. Menoni is Fellow of the Institute of Electrical & Electronic Engineers (IEEE), the American Physical Society (APS), the Optical Society of America (OSA), the American Association for the Advancement of Science (AAAS) and the International Society for Optics and Photonics (SPIE). Prof. Menoni was President of the IEEE Photonics Society in 2020-2021.

11:00 to 11:45



Federico Capasso

Federico Capasso joined Harvard University in 2003 after 27 years at Bell Labs where his career advanced from postdoctoral fellow to VP for Physical Research. His contributions include band structure engineering, the quantum cascade laser, MEMS based on the Casimir effect and the first measurement of the repulsive Casimir force, metasurfaces including the generalized laws of refraction and reflection and high performance metalenses. He is cofounder and a board member of Metalenz, which commercializes metaoptics for high volume markets.

11:45 to 12:30



Aydogan Ozcan

Aydogan Ozcan is the Chancellor's Professor and the Volgenau Chair for Engineering Innovation at UCLA and an HHMI Professor with the Howard Hughes Medical Institute. He is also the Associate Director of the California NanoSystems Institute. Dr. Ozcan holds more than 60 issued/granted patents, and is the co-author of more than 1000 peer-reviewed publications in leading scientific journals/conferences. He is elected Fellow of National Academy of Inventors (NAI), Optica/OSA, AAAS, SPIE, IEEE, AIMBE, RSC, APS and the Guggenheim Foundation, and is a Lifetime Fellow Member of Optica, NAI, AAAS, and SPIE. Dr. Ozcan is also listed as a Highly Cited Researcher by Web of Science.

Auditorium 1

14:00 to 17:30 **Technical Session - Tuesday**

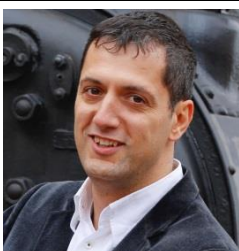
14:00 to 14:30



Azizur Rhaman





Professor B. M. Azizur Rahman received BSc Eng and MSc Eng degrees in Electrical Engineering with distinctions from Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh, in 1976 and 1979, respectively. He received his PhD degree in Electronic Engineering from University College, London, in 1982. From 1976-79 he was a Lecturer at the Electrical Engineering Department, BUET. After completing his PhD he joined University College London as a Post-doctoral Research Fellow and continued his research work on the finite element modelling of optical waveguide until 1988. In 1988 he joined the Electrical, Electronic and Information Engineering Department of City University, London, as a Lecturer, where he is now a Professor.

16:00 to 16:30



Hakan Urey

Hakan Urey is a Professor of Electrical Eng. at Koç University, Istanbul, Turkey. He was a visiting Professor at Cambridge Univ., UK, Boğaziçi University, Turkey, and Stanford Univ, USA. He received the BS degree from Middle East Technical Univ., Ankara, in 1992, and MS and Ph.D. degrees from Georgia Institute of Technology in 1996 and in 1997, all in Electrical Eng.. After his PhD, he joined Microvision Inc.-Seattle as Research Engineer and played a key role in the development of the Retinal Scanning Display technology. He was the Principal System Engineer when he left Microvision to join the faculty of Eng. at Koç Univ. in 2001. His current research interests are Augmented Reality, 3D displays, MEMS/MOEMS, micro-optics, optical and biological sensors. He has more than 60 patents, all of which have been licensed to companies and led to a number of commercial products. He founded 5 technology startup companies which are spinoffs from his research lab at Koç University. He is a member of Science Academy in Turkey and fellow of OPTICA

Auditorium 2		
14:00 to 17:30	<b>Technical Session - Tuesday</b>	
14:00 to 14:30	 <p>Darli Mello</p>	<p>Darli Mello studied Electrical Engineering at the RWTH-Aachen, Germany, and at the State University of Campinas (UNICAMP), Brazil, where he graduated in 2000. In 2002 he received the M. Sc. degree from the Institute for Communications Engineering (LNT) at the Munich University of Technology (TUM), Germany. During his masters studies, he carried out experimental and theoretical work at the Siemens research labs in Munich. In 2006 he received the Ph.D. degree from UNICAMP after research stays at the TUM and the California Institute of Technology (Caltech). After his Ph.D. studies, he spent one year with Padtec Optical Components and Systems as a senior technology engineer. From August 2008 to March 2014, he was with the Electrical Engineering Department (ENE) of the University of Brasilia (UnB) as an Assistant Professor. Since March 2014, he serves as Assistant Professor at the Communications Department (DECOM) of the School of Electrical and Computer Engineering (FEEC), University of Campinas (Unicamp). From January 2019 to January 2020, he was a Visiting Scholar at Stanford University. His main research interests are optical transmission and networking.</p>
16:00 to 16:30	 <p>Aldário Chrestani Bordonalli</p>	<p>He holds a degree in Applied Physics from the State University of Campinas (1989), a master's degree in Electrical Engineering from the State University of Campinas (1992), a doctorate (1996) and post-doctorate (2012) in Electrical Engineering from the University College London and associate professor at area of Telecommunications and Telematics (2010), with emphasis on Optical Communications. He is currently Associate Professor III at the State University of Campinas. He has experience in the field of Optical Communications, working mainly on the following subjects: optical amplifiers, WDM and OFDM systems, optoelectronic generation/conversion of signals and coherent systems.</p>
Auditorium 3		
14:00 to 17:30	<b>Technical Session - Tuesday</b>	
14:00 to 14:30	 <p>Niklaus Ursus Wetter</p>	<p>Niklaus Ursus Wetter holds a BA in Physics from the Eidgenössische Technische Hochschule Zürich - ETH (1988 - Switzerland) and a Ph.D. in Nuclear Technology from the Institute for Energy and Nuclear Research (1993). He is currently a senior researcher at the National Nuclear Energy Commission at IPEN / SP and a postgraduate professor at the University of São Paulo USP. As manager of Internationalization, he has so far implemented 14 bilateral agreements with universities and institutes around the world, including the Battelle Energy Alliance, which encompasses eight of the largest federal research institutions in the US. He specializes in laser development and operates in the main segments: Diode lasers, waveguides, solid state lasers and materials for laser media, laser applications in life sciences, lasers in nuclear applications and Raman spectroscopy. Since 2008 he has been developing light sources in disordered materials, or "Random Lasers", for the purpose of applications in optical devices.</p>
16:00 to 16:30	 <p>Renato Evangelista de Araújo</p>	<p>Graduated (1994), master's (1997) and doctorate (2001) in Physics from the Federal University of Pernambuco. He was a postdoctoral fellow at the Robotics Institute at Carnegie Mellon University (2001-2002) and was a research fellow at the Minimally Invasive Surgical Technologies Institute at Cedars Sinai Medical Center (2002-2003). He is currently an Associate Professor at the Department of Electronics and Systems at UFPE. He works in the undergraduate courses in Electronic and Electrical Engineering, in the graduate program in Electrical Engineering and in the graduate program in Biomedical Engineering at UFPE. His research topics are: biomedical optics, nanobiophotonics, biomaterials spectroscopy, optical coherence tomography and optical microscopy.</p>

Wednesday, August 2nd

UNICAMP Convention Center

Auditorium 3

09:00 to 12:30 **Plenary Session - Wednesday**

09:00 to 9:45



Javier García de Abajo

After completing his PhD from the University of the Basque Country in 1993, Javier García de Abajo spent three years as a visiting researcher at Berkeley National Lab. He then became a Research Professor at the Spanish CSIC and eventually moved to ICFO-Institut de Ciències Fotoniques in Barcelona in 2013 as an ICREA Research Professor. García de Abajo is a Fellow of the American Physical Society and the Optical Society of America. His research interests include theoretical studies on electron microscope spectroscopies, atomic collisions, quantum phenomena at the nanoscale, and various aspects of nanophotonics such as graphene and two-dimensional polaritonics, optical sensing, and quantum friction. He has co-authored 400+ articles that have been cited 55,000+ times, with an h index of 114 according to March 2023 Google Scholar data.

09:45 to 10:30



Boon Ooi

Boon Ooi received his pre-college education in Penang, Malaysia. He earned the B.Eng. and Ph.D. degrees in electronics and electrical engineering from the University of Glasgow (U.K.) in 1992 and 1994, respectively. He was an Assistant Professor at Nanyang Technological University (Singapore) from 1996 to 2000. He co-founded a photonics startup in Pleasanton, California (U.S.A.), and led the company as VP for Technology Development from early 2000 to late 2003. He joined Lehigh University (Pennsylvania, USA) where he held an Associate Professor position and headed the Photonics and Semiconductor Nanostructure Laboratory from 2003 to 2009. He has been with KAUST since Fall 2009. Boon Ooi's recent research is concerned with the study of III-Nitride based materials and devices, and lasers for applications such as solid-state lighting, visible light and underwater wireless optical communications, energy harvesting devices, and optical sensors. He is a regular grant panelist and reviewer of NSF (USA), NSERC (Canada), A\*STAR and NRF (Singapore), Dutch Technology Foundation STW (Netherlands), FPS (Poland), ELIDEK (Greece), RGC (Hong Kong), QNRF (Qatar) and KACST (KSA). He was the Guest Editor for the Journal Crystal Growth (Elsevier) in 2006/7, and Applied Physics A (Springer) in 2013/14, and Lead Editor of a Feature Issue of Optics Express in 2018/2019. He is Editor-in-Chief of the IEEE Photonics Technology Letters. He is a Fellow of IEEE, NAI, OPTICA and SPIE.

11:00 to 11:45



Paulo Nussenzveig

Bachelor in Physics from Pontifícia Universidade Católica do Rio de Janeiro (1988), Master in Physics from Pontifícia Universidade Católica do Rio de Janeiro (1990), and Ph.D. in Physique Quantique - Université Pierre et Marie Curie (Paris VI), École Normale Supérieure (1994). Lecturer at the University of São Paulo (2002). Visiting Professor at Cornell University in 2012. He is a member of the Scientific Council of the Foundation Institute of Theoretical Physics (Principia Foundation) and was a member of the International Council of the OSA (Optical Society) from 2014 to 2018. He was the Topical Editor of the journal Optics Letters and the Associate Editor of the Brazilian Journal of Physics. He is a full professor (MS-6) at the Institute of Physics of the University of São Paulo. He was chairman of the Postgraduate Committee and Coordinator of the Postgraduate Program of the Physics Institute of the University of São Paulo. He is a member of the Physics Area Coordination of FAPESP. Presents the column Science and Scientists on Radio USP. His areas of interest are Quantum Optics, Atomic Physics, and Quantum Information.

11:45 to 12:30



Sailing He

Prof. Sailing He is currently the Director for the Sino-Swedish Joint Research Center of Photonics (JORCEP). After receiving his Ph.D. degree from the Royal Institute of Technology, he has worked at the Royal Institute of Technology (Stockholm, Sweden) as an assistant professor, an associate professor, and a full professor. Prof. He's main research interest includes sub-wavelength photonics, optical sensing and communication, electromagnetic waves and applications. He has first-authored one monograph (Oxford University Press) and authored/co-authored over 700 papers in refereed international journals. Prof. He has served as General Chair (or Co-chair) for a number of international conferences, as well as in Steering Committee, Scientific Advisory Board or Technical Program Committee for numerous international congress/conferences and journals. Prof. He is a Fellow of IEEE, OSA (Optical Society of America) and SPIE (International Society for Optical Engineering). Prof. He serves as co-editor-in-chief of Progress In Electromagnetics Research (PIER), in editorial board of Laser & Photonics Reviews, Scientific Reports, and Electronics Letters.

Auditorium 1

13:30 to 17:30 **Technical Session - Wednesday**

13:30 to 14:00



Igor Feliciano da Costa







Igor graduated as a Technologist in Telecommunications Engineering, Electrical and Electronics Engineering, at Unicamp (2011), obtained a Master's degree in Telecommunications, Electrical and Electronics Engineering, from Inatel (2013), and a PhD in Microelectronics, Electrical and Electronics Engineering from UNIFEI (2016). His experience includes: a Visiting Research Fellow at DTU, Technical University of Denmark (2016), an RF and Antenna Research Collaborator at Embraer Defense & Security (2010-106), a Postdoctoral Scientist on RF and Antennas at Inatel (2017); and an RF Antenna Engineer at Antenna Company (2017-19). He went to ESSS in 2019 to be a Business Development (Latin America and Iberia region) and, since 2022 works as Business Development and CAE Technical Coordinator (Latin America and Iberia region) of ESSS.


14:00 to 14:45



John Dorigi

John Dorigi is a photonics application engineer at Keysight Technologies. He received his B.S. degree in engineering at University of Colorado, Boulder, and his M.S. and Ph.D. engineering degrees at Northwestern University in Evanston IL. His doctoral research focused on developing, modelling, and characterizing fiber optic sensors for materials testing. He is currently engaging with university research labs to explore new photonic application spaces. Current areas of focus include: photonic integrated circuits (PICs), quantum communication, and optical 6G wireless. John works with customers to investigate high speed electrical and optical measurements and is passionate about experimental lab work. He is a member of IEEE and has been with Hewlett Packard, Agilent, and Keysight Technologies since 1999.

14:45 to 15:15	 Rosane Palissari	<p>Bachelor's degree in Physics from the State University of Campinas (UNICAMP) (1984), Master's (1990) and Ph.D. (2007) in Physics from UNICAMP. She worked as a Research Professional at the Institute of Geosciences at UNICAMP, acquiring experience mainly in the area of SEM (Scanning Electron Microscopy). She participates as a contributor to the Chronology Group of the Dept. of Cosmic Rays and Chronology of the Gleb Wataghin Institute of Physics (IFGW) - UNICAMP, whose work emphasizes the area of Traces of Nuclear Particles. Currently, she works as a Professional for University Affairs, being Supervisor of the Operations area of the Specialized Technical Support Group (GATE), which includes the Multi-user Laboratory (LAMULT) of the IFGW, acquiring experience in the areas: AFM (Atomic Force Microscopy), FTIR (Fourier Transform Infrared Spectroscopy), XRD (X Ray Diffraction) and Raman Spectroscopy.</p>
15:15 to 15:30	 Luis H. Hecker de Carvalho	<p>Luis Hecker is an Electrical Engineer, M.Sc., with more than 15 years of experience in Optics and Photonics. He is currently working as Photonics Director and Site Leader of Lumentum in Brazil, leading high-performance R&amp;D engineering teams on the complete product development cycle of PICs, Devices, and Modules for high-capacity optical communications systems. Has 6 patents, 5 technology products currently in the market, and more than 90 papers published in leading journals and conferences in the field of photonics and optical communications.</p>
16:00 to 16:15	 Carmelo J. A. Bastos-Filho	<p>Carmelo J. A. Bastos Filho is Pro-Dean of Graduate Studies, Research and Innovation, and Associate Professor at the Polytechnic School of Pernambuco, University of Pernambuco (UPE). He is a professor at UPE. He was Chief Scientist of the Technological Park of Electro-electronics of the State of Pernambuco between 2016-2020. From 2020 to 2022, he was the director of innovation environments and higher education at the secretary of science, technology and innovation in Pernambuco. He is the coordinator of the Rota TIC Manguê Digital, a joint action with SUDENE and MDR. He is on the advisory board of ISI TICs SENAI. He is the coordinator of the specialization in Artificial Intelligence at UPE and deputy coordinator of the residency in data science for the automotive sector with Stelantis. He was coordinator of the Specialization Program / Technological Residency in IP Network Engineering at UPE / Alcatel-Lucent / FITec, vice-coordinator of the Specialization in Digital TV and Communications Networks at UPE. He was general coordinator of Graduate Studies at the University of Pernambuco in 2015. After finishing his doctorate, his thesis was chosen by CAPES as the best thesis in Brazil in the area of Engineering IV in 2005. He has published more than 300 complete articles. He has coordinated several research projects funded by CNPq/Universal, FACEPE, FINEP, CHESF (R&amp;D ANEEL), FITec, Alcatel-Lucent and Fiat-Chrysler.</p>
16:15 to 16:30	Darli Mello	Bio on Auditorium 2 - Tuesday's Technical Session slot
16:30 to 16:45	 Leonardo Didier Coelho	<p>Leonardo Didier Coelho graduated in Electrical Engineering in 2003 from the Federal University of Pernambuco. In 2005 and 2010 he received the title of master and doctor, respectively, from Technische Universität München, Munich, Germany. During his master's and doctoral thesis, he carried out several researches on modeling, simulation and optimization of optical communication systems. In 2006 and 2007 he worked on nonlinear phase noise in optical communication systems at the Fraunhofer Heinrich-Hertz-Institut in Berlin, Germany. He spent three months in 2009 at the Department of Photonic Engineering, Technical University of Denmark, Denmark, as a visiting researcher working with fiber optic parametric amplifiers. From 2011 to 2014, he worked at Infinera (formerly part of Nokia Siemens Networks and Coriant R&amp;D GmbH) in Munich, Germany. He is currently Professor at the Department of Electronics and Systems at the Federal University of Pernambuco. His main interests include optimization of optical communication systems, optical amplification, integrated photonics, fiber optic power supply and battery management systems. doctor Coelho received the Bund der Freunde der TU München prize for the best Doctoral Thesis in Electrical Eng. in 2011.</p>
16:45 to 17:00	 Helio Waldman	<p>Graduated in Electronic Engineering from Instituto Tecnológico de Aeronáutica (1966), Master's in Electrical Engineering - Stanford University (1968) and Ph.D. in Electrical Engineering - Stanford University (1971). He is currently a retired full professor at the Fundação Universidade Federal do ABC and at the State University of Campinas. He has experience in Electrical Engineering, with emphasis on Telecommunications, working mainly on the following topics: optical networks; optical communications; route allocation, spectrum and modulation format in elastic optical networks; optical spectrum management in fiber networks. He was the first Dean of Research at Unicamp in the 1980s, and at UFABC from its foundation until 2009. He was Dean of UFABC from 2010 to 2014, when he was compulsorily retired at the age of 70. He is currently coordinating a Fapesp thematic project on new strategies to face the threat of capacity exhaustion, within the scope of a program aimed at research associated with the Internet of the future, and collaborates with graduate programs at Unicamp and UFABC.</p>
17:00 to 17:15	 Raul C. Almeida Jr.	<p>Raul C. Almeida Jr. holds a degree in Electrical/Electronic Eng. from the UFPE (1999), a Master's degree in Electrical Eng. from Unicamp (2001) and a Ph.D. in Electrical Eng. from Unicamp (2004). In 2005 he was a postdoctoral fellow in the optical networks group at UFPE as a regional scientific development (DCR) fellow. From 2006- 2011 he was a Senior Research Officer at the University of Essex, UK. In 2012 he returned to the optical networks group at UFPE as a postdoctoral fellow and DCR fellow. Since 2012 he has been a professor at the Depart. of Electronics and Systems (UFPE), being an Associate Professor since 2020. He participated and collaborated with several research projects in England, financed by the Technology Strategy Board (TSB) and EPSRC (Eng. &amp; Physical Science Research Council), in partnership Brazil-Portugal (Capes-FCT), as a consultant in the Portuguese project Morfeus, and, in Brazil, funded by Facepe, Ericsson, PadTec, CNPq/Universal and FAPESP. He has experience in the area of Electrical Eng. and Computer Science with emphasis on telecom networks and systems, having worked mainly on: optical networks with wavelength, optical networks with switching bursts and packets, WDM, delay-line buffers, route and wavelength allocation under physical layer constraints and quality of service guarantees, analytical modeling, optimization, heuristics, evolutionary algorithms, application of machine learning techniques in networks, mathematical programming, numerical simulations, GMPLS, flat label routing, Internet of the future and elastic optical networks.</p>

17:15 to 17:30	 <p data-bbox="236 342 371 365">Nelson Fonseca</p>	<p data-bbox="531 73 1492 365">He holds a degree in Electrical Engineering from PUC-Rio (1984), a Master's in Master's in Computer Science from PUC-Rio (1987), a Master's in Master In Computer Engineering - University of Southern California (1993) and PhD in Computer Engineering - University of Southern California (1994). He is a Full Professor at Unicamp. He is a member of Unicamp's Institutional Development Evaluation Commission. He serves as Vice President of Conferences for the IEEE Communications Society. He created the IEEE Latin America on Communications conference, the IEEE Latin America Conference on Cloud Computing and Communications and was co-founder of series of symposiums at IEEE Globecom/ICC conferences Technical coordinator of over 15 conferences. He also created the IEEE ComSoc Student Competition Program. He is Senior Technical Editor for IEEE Communications Magazine and IEEE Systems Journal. He is a member of the advisory committee for the IEEE Communications Surveys and Tutorials and a member of the Steering Committee for the IEEE Transactions on Cloud Computing. He is a member of the editorial board of the journals Computer Networks, P2P Networking and Appl.cations, J. of Internet Services and Appl. and J. of the Brazilian Computer Society</p>
<b>Auditorium 2</b>		
14:00 to 17:30	<b>Technical Session - Wednesday</b>	
14:00 to 14:30	 <p data-bbox="236 716 371 739">Andreas Seifert</p>	<p data-bbox="531 521 1492 712">After his PhD in Physics, Andreas Seifert dedicated his career to optics and photonics. In brief: From space telescopes over optical microsystems to nanophotonics. First, he worked for many years in leadership positions in Optical Industry at Carl Zeiss, Germany, and from 2007 at the University of Freiburg, Germany, as Group Leader in the field of Microsystems Engineering, in particular Medical Optical Microsystems. In 2015 he joined CIC nanoGUNE as Ikerbasque Research Professor and Group Leader in Nanoengineering. Current research combines nanotechnology with photonics, primarily with applications in the fields of medical diagnostics, food control and environmental monitoring.</p>
16:00 to 16:30	 <p data-bbox="236 996 339 1019">Lion Augel</p>	<p data-bbox="531 768 1492 1025">Lion Augel is a Scientific Researcher at Fraunhofer IPMS, Germany. Education: BSc (2011) and MSc (2013) in Electric Engineering and Information Technology, and PhD (2019) in Microelectronics ("Plasmonic structures on Ge photodiodes for the integration of collinear biosensors"), at the University of Stuttgart. Skills: microelectronics, semiconductor manufacturing and optoelectronics. His interest in scientific work lies in the interaction of radiation and matter. In particular, he has developed semiconductor optics with its wide range of possible applications and developments as an exciting field of work. Research objectives: Group-IV Photonic Devices (design of nanophotonic structures; CMOS-compatible plasmonics, Fab-standard manufacturing technology; electrical and photonic simulation); and Applications (multi- and hyperspectral imaging; spectroscopy, photonic biosensing, photonic device metrology).</p>
16:30 to 17:00	 <p data-bbox="236 1281 339 1303">Niels Quack</p>	<p data-bbox="531 1075 1492 1303">Niels Quack is a Swiss and German engineer specialized in optical micro engineering. He studied engineering at EPFL and received his MSc degree in 2005. He then joined Jürg Dual's Institute for Mechanical Systems at ETH Zurich as a PhD student and graduated in 2010."In 2011, he worked as a postdoctoral researcher at Ming C. Wu's Integrated Photonics Laboratory at University of California, Berkeley. From 2014 to 2015, he was senior microelectromechanical systems engineer with Sercalo Microtechnology Inc. From 2015 to 2022 he was an SNSF Assistant Professor with the EPFL, and head of the Photonic Micro- and Nanosystems Laboratory at its school of engineering. Since January 2022 he is an Associate Professor in Micro- and Nanosystems at the University of Sydney, Faculty of Engineering/School of Aerospace, Mechanical and Mechatronic Engineering.</p>
<b>Auditorium 3</b>		
14:00 to 17:30	<b>Technical Session - Wednesday</b>	
14:00 to 14:30	 <p data-bbox="236 1666 371 1688">Rodrigo Szostak</p>	<p data-bbox="531 1438 1492 1695">Rodrigo Szostak got his bachelor's degree in Chemistry at UEPG (2014). Then, at Unicamp,; he got a master's degree in chemistry on perovskite solar cells (PSCs) ( 2016). After thathe kept studying PSCs but started to employ synchrotron radiation techniques to characterize the PSCs together with Dr. Hélio Tolentino, from Brazilian Synchrotron Light Laboratory (LNLS), which is part of the Brazilian Center for Research in Energy and Materials (CNPEM). Also, during his Ph.D., he spent one year at EPFL under professor Anders Hagfeldt working on perovskite solar cells devices. Rodrigo got his Ph.D in 2021 and joined to Dr. Tolentino at Carnauba beamline (Sirius/LNLS). His post-doctoral activities are focused on the development of in situ and operando experimental setups to characterize PSCs at Carnauba beamline. Rodrigo has experience in perovskite solar cells device preparation and characterization using synchrotron radiation through X-ray scattering (in situ GIWAXS) and nano-FTIR techniques.</p>
16:00 to 16:30	 <p data-bbox="236 1951 515 1973">Armando Albertazzi Gonçalves Jr</p>	<p data-bbox="531 1722 1492 2080">Graduated in Mechanical Engineering, at UFBA (1982), Master's (1984) and Ph.D. (1989) in Mechanical Engineering, at UFSC, and post-doctorate at the Illinois Institute of Technology (1991). He is a full professor at the Federal University of Santa Catarina, where he joined in June 1987. He is the author of the book Fundamentals of Scientific and Industrial Metrology (Ed. Manole 2008/2018). He was a member of the International Scientific Committee of about 40 congresses and president or vice-president of six of them. Since 2008 he has been a SPIE Fellow. He was coordinator of the Graduate Program in Scientific and Industrial Metrology in the periods 1996-2001, 2006-2011 and of the Graduate Program in Mechanical Engineering in the period 2013-2016. He assumed the Research Superintendence at UFSC from 2016 to 2022. He works in the area of optical metrology, with emphasis on the development and application of techniques and equipment for measuring the geometry and residual stresses of pipes and in the area of non-destructive testing with laser. Since the 1990s, he has been strongly involved in the oil and gas sector.</p>



Thursday, August 3rd

UNICAMP Convention Center

Auditorium 3

09:00 to 12:30 **Plenary Session Thursday: 5th Webinar Brazilian Photonics Laboratories System SISFOTON - MCTI**

09:00 to 9:15



Felipe Silva Bellucci

PhD in Science and Technology of Materials from Unesp and PhD in Physical Sciences from Universidad de Valladolid - UVA/Spain. Performed Research internship at Post-Doctoral level at the Faculty of Engineering of Ilha Solteira - FEIS/UNESP (2014-2016), Research internship at Post-Doctoral level Nov/13 to Mar/14) and PhD internship PDEE/CAPES (Sep/10 to Aug/11) at the Facultad de Ciencias of the Universidad de Valladolid - UVA/Spain. He is a specialist in Science, Technology and Innovation Policy Management from the National School of Public Administration-ENAP (2017-18) and has an MBA in Innovation Management from the School of International Business and Entrepreneurship (Germany). He has experience in the areas of applied research, technological development, innovation and entrepreneurship and new technology-based businesses in Nanotechnology, Advanced Materials, Photonics and Technologies for Advanced Manufacturing, as well as a Specialist and MBA in Management and Public Policy in S,T&I. He currently occupies the permanent position of Full Technologist 3-III in Science, Technologies and Innovation (Law No. 8.691/93), General Coordinator of Enabling Technologies, of the Secretariat of Entrepreneurship and Innovation of the Ministry of Science, Technology and Innovations - MCTI in Brasilia/DF.

09:15 to 9:30



Vanderlei Bagnato

Vanderlei Salvador Bagnato simultaneously completed a Bachelor's Degree in Physics - USP, and Materials Engineering - UFSCar in 1981 and completed his PhD in Physics - Massachusetts Institute of Technology - MIT in 1987. He is currently a professor at the University of São Paulo. He was director of the Institute of Physics of São Carlos from 2018 to 2022. He has published around 700 articles in specialized journals. He has 29 book chapters and 7 published books. He has supervised more than 100 theses between masters and doctorates, in the areas of Physics, Dentistry and Medicine. He received several awards and honors. He works in the area of Atomic Physics and Applications of Optics in Health Sciences. He works with cold atoms, Bose-Einstein Condensates and photodynamic actions in cancer and microbiological control. He is a member of the Brazilian Academy of Sciences, The Academy of Sciences for the Developing World, the Vatican's Pontifical Academy of Sciences, and the National Academy of Sciences (USA). He coordinates a Research Center, in which basic and applied sciences coexist in harmony. It carries out various activities of Technological Innovation and science dissemination.

09:30 to 9:45



Lauro June Queiroz Maia

Bachelor in Physics from UFMS (2000), Master in Applied Physics from IFSC-USP (2003) and PhD in Cotutela regime in Applied Physics by IFSC-USP and in Physics of Materials and Nanostructures by the Université Joseph Fourier/France (Current Université Grenoble Alpes-UGA) (2006). He held a Post-Doctoral Internship at IQ-UNESP. From June/2017 to May/2018 he carried out a Senior Internship (Post-Doctoral Internship) at the Ecole Polytechnique Montréal/Université de Montréal, in the Departments of Physical Engineering and Electrical Engineering, under the supervision of Prof. doctor Raman Kashyap for the study of oxide materials for laser cooling. He is currently Associate Professor IV at the Institute of Physics at the Federal University of Goiás. Since April/2021 he is the Director of the Institute of Physics at UFG. From January to March/2020 and from November to December/2021 he carried out scientific and technological research activities at the Institut Néel of the CNRS de Grenoble in France, as an Invited Professor at the Université Grenoble Alpes. He has experience in Physics and Materials Science and Engineering, with emphasis on Optical and Spectroscopic Properties of Condensed Matter, acting on the following topics: thin films, waveguides, optical nanothermometry, nanostructured particles, clay, advanced ceramics, structural ceramics, glasses and glass-ceramics, photoluminescent emission, optical spectroscopy, 2nd harmonic generation (GSH), thermal analysis, X-ray diffraction, scanning and transmission electron microscopy and AFM, vibrational infrared and Raman spectroscopies, method of polymeric precursors and sol-gel process.

09:45 to 10:00



Anderson Rodrigues Lima Caires




Graduated in Bachelor of Physics from the Federal University of Mato Grosso do Sul (1999), did a Direct Doctorate in Physics from the University of São Paulo (2004) and Post-Doctorate in Plant Physiology at University of Essex, UK (2011). He is an associate professor IV at the Federal University of Mato Grosso do Sul, working for a period as a senior visiting professor at the University of Essex, UK (2019 - 2020). Leader of the Optics and Photonics Group (GOF) and coordinator of the Optics and Photonics Laboratory (LOft), recently accredited to the National System of Photonics Laboratories (SISFOTON-MCTI). Member of the National Institute of Science and Technology (INCT) of Basic Optics and Applied to Life Sciences, in which LOft is also associated. He has experience in the area of Optical Spectroscopy and Materials, working mainly on the following topics: Photoinactivation of Microorganisms, Development of Materials and Methods for Environmental Assessment and Optical Characterization of Biological Systems, Biofuels and Materials.


10:00 to 10:15







Moisés Felipe Teixeira

He currently works as a research engineer at the SENAI Laser Innovation Institute in Joinville, Santa Catarina. He specializes in laser surface treatment, such as: localized heat treatment, coating (Laser Cladding) and surface modification with the addition of an alloying element (Laser Alloying). He is a Materials Engineer graduated from UFSC, with a Masters in Science and Materials Engineering also from UFSC, with a dissertation in the area of reducing wear through the Laser Alloying process, in partnership with the Fraunhofer IPT Institute in Aachen, Germany. He holds a PhD from UFSC in Materials Science and Engineering with a work topic in the area of reducing wear on grinding hammers through laser coating. He is also CEO and co-founder of the company Nanogreen Desenvolvimento Ltda.

10:15 to 10:30	 <p>Marcelo Nalin</p>	<p>He holds a degree in Chemistry from the Unesp (1995), a Master's degree in Chemistry from Unesp (1998), a PhD in Chemistry - Universidade de Rennes I (2002) and a PhD in Chemistry from the Instituto de Química Unesp (2002). He held a postdoctoral degree at the Université de Paris Sud (2002-2003) and a postdoctoral degree at the Gleb Wataglin Institute of Physics at the State University of Campinas (2004-2007). He developed a Young Researcher project with the Department of Physics at the Faculty of Sciences at UNESP in Bauru (2007-2009). He was an adjunct professor at the Department of Chemistry at UFSCar in São Carlos, SP from August 2009 to May 2013. He carried out an internship as a visiting researcher at ICMCB at the University of Bordeaux, France from 08/2019 to 07/2020. He has been a member of the Coordination of the Chemistry area at FAPESP since August 2022. He is currently a Professor MS5.3 at the Institute of Chemistry at UNESP in Araraquara, SP. He has experience in the areas of Chemistry and Physics, with emphasis on Inorganic Chemistry, working mainly on the following subjects: glasses and glass-ceramics with applications in photonics and magneto-optical materials, photonic crystals and photosensitive materials.</p>
11:00 to 11:15	 <p>Débora M. B. Pereira Milori</p>	<p>Graduated, master's and doctorate in Physics from the Institute of Physics of São Carlos - University of São Paulo (USP), with specialization in optical techniques and photonics. Since 2001 she has been a researcher at Embrapa Instrumentação, São Carlos/SP, where she is also, currently, the Deputy Head of Technology Transfer, which includes an agenda of innovation and business with private companies. Her research area at Embrapa is optics and photonics applied to agriculture and the environment, and, in 2021, she had approved, under her coordination, the first National Laboratory of Agro-photonics, supported by the Ministry of Science, Technology and Innovation, within of the SIFOTON initiative. She works with the development of methods, sensors and equipment for soil, plant, fertilizer and food analysis. Along these lines, she highlights her unprecedented work, worldwide, in the development of an automated method and equipment using optical emission spectroscopy with laser-induced plasma - LIBS - for the quantification of carbon, nutrients and contaminants in the soil, as well as the development of portable systems for the early diagnosis of diseases in plants in the field. During her research activities she established several international cooperations with institutions in Europe and USA. She has around 500 published works, 130 of which in indexed international journals with more than 4500 citations. Within the scope of acting as Head of Technology Transfer, she was decisive in increasing the portfolio of projects in open innovation and/or in partnership with private companies; in four years the number of this type of project increased from 25% to more than 65% of Embrapa Instrumentação's projects. Also noteworthy is her work supporting the development of startups, in articulation with investors and Venture Capitals.</p>
11:15 to 11:30	 <p>Newton C. Frateschi</p>	<p>Professor Newton C. Frateschi is a professor at the Institute of Physics Gleb Wataglin from the State University of Campinas (IFGW UNICAMP). He was the executive director of the Inova Unicamp Innovation Agency from 2017 to 2021. He was director of the IFGW-UNICAMP from 2014 to 2017 and deputy director of the same institute from 2010 to 2014. Nanotechnologies at Unicamp from 2005 to 2010. From 2001 to 2003, Frateschi served as a senior designer in optoelectronics in the advanced technology group for photonic devices at T-Networks Inc., in Pennsylvania, United States. He holds a Master's and PhD in Electronic Engineering from the University of Southern California and a Bachelor's and Master's in Physics from IFGW Unicamp. Frateschi is also a level 1 researcher at CNPq - National Council for Scientific and Technological Development, leading the IFGW's Device Research Laboratory (LPD). He is the author and co-author of several scientific papers and several patents, mainly in the fields of optoelectronics and photonics.</p>
11:30 to 11:45	 <p>Anderson Stevens L. Gomes</p>	<p>Anderson S. L. Gomes completed his Graduation (Licenciatura, 1978) and Masters in Physics (1982) at the Physics Department of the Federal University of Pernambuco. He held a Ph.D. in Physics at the Imperial College of Science, Technology and Medicine, University of London (1986), and a postdoctoral degree at Brown University (1992). He is a Full Professor at the Department of Physics at UFPE, where he has been a permanent professor since 1990. He is a permanent member of the Physics and Dentistry PG programs (UFPE) and collaborator of the Materials Science PG program, UNIVASF. His scientific activities are in the area of nanophotonics, biophotonics, non-linear optics and optical communications. He is co-author of more than 300 scientific papers (H Factor: 36 Web of Science; Google Scholar H Index 47) and has supervised 39 master's theses and 20 doctoral theses. He is a Fellow of OPTICA (formerly OSA), where he was President of the International Council (2011-2012). He acts as a referee for several international journals in his field of knowledge (Optics Letters, Optics Express, Physical Review, J. of Biomedical Optics, Electronics Letters, etc). He is associate editor of the journal Light: Science and Applications (Nature Group) from 2019-2025. He is Full Member (since 2015) and Vice-President for NE and ES (2022-2025) of the Brazilian Academy of Sciences and elected Fellow of The World Academy of Science (TWAS). For more details on the lines of research, see <a href="http://www.andersongomes.com">www.andersongomes.com</a></p>
11:45 to 12:00	 <p>Maria José Pontes</p>	<p>She holds a degree in Physics from the State University of Campinas (1985), a Master's degree in Physics from the Gleb Wataglin Institute of Physics (1989) and a PhD in Electrical Engineering from the Faculty of Electrical and Computing Engineering (1996) - UNICAMP. She has worked in several Science and Technology Institutions, in Undergraduate and Postgraduate Teaching, Research, supervision and guidance of students. This is the case of CEFET/PR, today the Federal Technological University of Paraná (UTFPR) and the Military Institute of Engineering (IME). She also worked at Optiwave Corporation Inc., Ottawa-Canada in the development of software products for the design of amplifiers and optical systems. She is currently Associate Professor IV at the Department of Electrical Engineering at the Federal University of Espírito Santo. She was Director of Technological Innovation, the Nucleus of Technological Innovation at UFES. She chaired the Brazilian Society of Microwaves and Optoelectronics-SBMO for two consecutive terms. She currently works in the Division of Cooperation Agreements of the Secretariat for International Relations-SRI at UFES. She has been working in recent years on the modeling and practical implementation of fiber devices, working mainly on the following topics: optical amplifiers, plasmonic effect and fiber sensors, fiber nonlinearities, application of devices in WDM networks, high-rate systems.</p>

12:00 to 12:15	 Wagner de Rossi   Denise Maria Zezell	<p>Completed his doctorate in Nuclear Technology USP in 1995. He is currently a supervisor at USP, senior technologist III of the National Nuclear Energy Commission and head of the Center for Lasers and Applications at IPEN. He has published 63 articles in specialized journals and 210 papers in annals of events. He has 9 book chapters and 1 book published. He has 15 technological products, 31 processes or techniques, 4 of which are registered, in addition to 7 other technical production items. He participated in dozens of events abroad and in Brazil. Among completed or ongoing supervision are 25 master's dissertations, 8 doctoral theses and 4 post-doctoral supervisions, in addition to having supervised 5 scientific initiation works in the areas of Physics, Mechanical Engineering and Materials and Metallurgical Engineering. He has received 5 awards and/or honors. Between 1982 and 2020, he participated in 34 research and technological development projects, of which he coordinated 12. He currently participates in 8 technological development projects, coordinating 6 of these. He is the coordinator of a FAPESP thematic project that has the participation of 18 doctors and 15 postgraduate students from IPEN and 05 other partner institutions. He works in the field of lasers, specializing in manufacturing processes. He provides technical consultancy and teaches courses on industrial laser processes to companies. Currently, he develops micromachining processes with ultrashort laser pulses, with which he is producing opto-microfluidic systems for applications in the areas of chemistry, biochemistry and health.</p> <p>OPTICA FELLOW since 2022. Bachelor in Physics (1984), MSc in Physics (1987) and PhD in Sciences from Unicamp (1991). Postdoc at the International Center for Theoretical Physics - Trieste, Italy (1992) and at IPEN /CNEN-SP (1992-1995). She has been a full researcher at CNEN since 1995, where she was Manager of the Lasers and Applications Center in 2008. From 2009 to 2013 she was the Coordinator of the Professional Master Program in Lasers in Dentistry at IPEN, together with School of Dentistry- (USP). She was the creator and since 2019 is the Dean of the Professional Master Course in Radiation Technology in Health Sciences, IPEN. Since 2017, she has been appointed OPTICA Traveling Lecturer, a member of Education Commission from CNEN. Member of the Deliberative Council of the Brazilian Photonics Society (2021-current) and its Newsletter editor for Biophotonics (2018-2019). Since 2020 is member of the Committee of Photonics (MCTI). Since 2023 she coordinates a CNPq INCT INTERAS (Radiation Technology in Health Science). Works in the following fields: Physics, Biophotonics ( Optical and Spectroscopic Properties of biological tissues mainly by micro-FTIR and fluorescence, infrared thermography, aiming at the development of new diagnostic and therapeutic processes for clinical applications of lasers in dentistry and medicine). She has been dedicated to the search for biomarkers to determine the effects of ionizing radiation on biological tissues as well as to study the early diagnosis of skin and breast tumors by vibrational spectroscopy (FTIR optical biopsy).</p>
12:15 to 12:30	 João Batista Rosolem	<p>Graduation, master's degree and doctorate in Electrical Engineering in 1986, 1990 and 2005, respectively, obtained at SEL-EESC-USP. In 1988 he carried out the experimental part of his MSc's work at CPQD and developed a pioneering system of bidirectional transmission and multiplexing by optical fibers, which was employed by many Brazilian telecom companies. From 1993-96, already as a CPQD's researcher, he led the development and transfer of EDFA's technology. From 1997 to 2005 he participated in the development of DWDM systems, concomitantly with the use of EDFAs for metropolitan and long distance systems. All these technologies were transferred to Brazilian companies. Since his PhD he has coordinated and led a team of researchers of the Laboratory of Optical Sensing and Monitoring (LSMO), at CPQD, aiming developing innovating devices and sensing systems applied to electricity, oil and gas, railway systems, mining, and security. He has published 50 articles in specialized journals, 5 chapters in books and 177 works in annals of events, authored and co-authored of 53 patent applications, of which 5 patents have already been granted abroad and 30 in Brazil. He has co-supervised 5 PhD students and 3 Master's students at Unicamp, USP and INPE. He received 23 awards and/or honors. He is a TPC member of OFS, OWPT and IMOC. He is a CNPq DT-1D scholarship holder and a member of the CNPq Advisory Committee for Technological Training and Innovation in DT scholarships. Since 2021 he has been coordinator of the Sisfóton-MCTI Integrator Laboratory.</p>
<b>Auditorium 1</b>		
14:00 to 17:30	<b>Technical Session - Thursday</b>	
14:00 to 14:30	 Gustavo Wiederhecker	<p>Gustavo Wiederhecker holds an Associate Professor position at the University of Campinas, his research laboratory targets at harnessing nonlinear optical phenomena within microphotonic devices, with emphasis in the interaction between light and mechanical waves. He has been elected an affiliate member of the Brazilian Academy of Sciences for the 2019-2024 term. Before joining University of Campinas in 2011, he earned his B.Sc and Ph.D degrees in Physics from the same University and has been a postdoctoral fellow at Cornell University from 2008-2011. His Ph.D thesis has been awarded with the "Grande Prêmio CAPES José Leite Lopes" on 2009.</p>
16:00 to 16:30	 Thiago Alegre	<p>Thiago Alegre is a professor at the Department of Applied Physics at the Gleb Wataghin Institute of Physics at the State University of Campinas (Unicamp) since 2011, where he leads a research group on classical and quantum interactions between light and acoustic waves in micro- and nanostructured. He is currently the IFGW Undergraduate Coordinator (2021) and previously was Associate Undergraduate Coordinator at the same institution between 2019-2021. He was elected an affiliate member of the Brazilian Academy of Sciences for the 2019-2024 term and Member of the Editorial Advisory Board of the APL Photonics magazine (AIP) since 2019. Doctor of Science (2008) and Bachelor of Physics from the State University of Campinas (2003), Postdoctoral fellow at the California Institute of Technology (Caltech) (2011) and in 2020 he received the title of Livre Docência from Unicamp. Between 2014 and 2018 he coordinated the LIEF extension laboratory aimed at dissemination and education in basic science. He is also a member of the Brazilian Society of Physics, the Brazilian Society of Photonics and the Optical Society of America.</p>

Auditorium 2		
14:00 to 17:30	<b>Technical Session - Thursday</b>	
14:00 to 14:30	 <p>Rafael Figueiredo</p>	<p>Tecnologist in telecommunications, master and doctor in electrical engineering, all titles obtained at the State University of Campinas (UNICAMP), where he also did postdoctoral work, under the supervision of Prof. doctor Evandro Conforti. He is currently an Executive MBA student in Strategic and Economic Business Management at FGV. He is a member of Optica (formerly OSA), a senior member of the IEEE, a founding member of the FEEC-UNICAMP Postgraduate Association (APOGEEU) and a founding member of the Brazilian Society of Optics and Photonics (SBFoton). Since 2016 he has been a researcher at CPQD, where he acts as technical project coordinator and leader of the Optical Communications technology platform. He is also a part-time Wine Sommelier and a full-time father.</p>
16:00 to 17:30	 <p>Felipe Rudge Barbosa</p>	<p>He holds a bachelor's degree (B.Sc.) in Physics from the Pontifical Catholic University of Rio de Janeiro (1976), a Master's degree in Physics (M.Sc.) from the State University of Campinas (1979) and a PhD (Ph.D.) in Electrical Engineering from the State University of Campinas (1992). He is a collaborating professor at the Faculty of Electrical and Computer Engineering, State University of Campinas (FEEC-Unicamp); and senior researcher at INCT-Namitec, at the Information Technology Center - MCT/CTI, in Campinas SP. He has extensive experience in academic and business environments, in the areas of Electrical Engineering and Condensed Matter Physics, with emphasis on Lasers, Optical Fibers and their applications, and Telecommunications Systems. He works in R&amp;D and technological innovation, with teaching and consulting activities as a specialist in Optical Communications systems, Optical Metropolitan Networks and access, photonic switching, semiconductor devices, optical and optoelectronic components, and opto-mechanics of precision. He has dozens of papers published in conferences and national and international journals. He is a member of SBF, SBRT, member and advisor of SBMO, consultant to ITU-T, and member of OSA and IEEE ComSoc. He received two professional awards. Currently CNPq DTI-1 scholarship holder.</p>
Auditorium 3		
14:00 to 17:30	<b>Technical Session - Thursday</b>	
14:00 to 14:30	 <p>Cícero Martelli</p>	<p>He holds a degree in Electrical Industrial Engineering (2002) and a Master's degree in Industrial Informatics with an emphasis on opto-electronics (2003) from the Federal Technological University of Paraná. In 2008 she completed a PhD in Engineering at the Interdisciplinary Photonics Laboratories / Optical Fiber Technology Center and School of Electrical and Information Engineering at the University of Sydney. She is interested in the following areas: optical fibers, optical devices for communication, optical sensors, high power lasers, fiber optic lasers, laser light material processing, non-linear optics, electro-optical coupling and molecular self-assembly".</p>
16:00 to 16:30	 <p>Álvaro José Damião</p>	<p>Completed his doctorate in Physics at Unicamp. He was Senior Researcher III at IEAv, where he was Head of the Optical Components Manufacturing Workshop, having also been head of the Photonics Division. Permanent professor of the graduate program in Space Sciences and Technologies (ITA). He works in the area of Physics, with emphasis on Optics. He works in the field of instrumentation, with an emphasis on applications in optics and metrology. In the area of materials, he maintains joint work with other institutions, in the field of lasers and dentistry. The development and production of precision optical components, including the deposition and characterization of coatings, is his main activity. He was Quality Manager at IEAv-CTA and responsible for the Optical Surface Measurement Laboratory, which was Accredited by CGCRE. He was coordinator of the Area of Applied Physics and Mathematics of the graduate at ITA, from October 2013 to April 2016.</p>