

International Conference on Nanoscience and Photonics for Medical Applications

28th - 30th December, 2022

Organized by

Department of Atomic and Molecular Physics, MAHE, Manipal

Venue: 3rd Floor, Dr. T.M.A Pai Halls, MAHE, Manipal – 576 104

PROGRAMME SCHEDULE

Day 1: 28th December, 2022 (Wednesday)					
08.00 AM - 08.45 AM	Registration				
08.45 AM - 09.15 AM	Inauguration				
08.45 AM - 08.50 AM	Welcome Address by Dr. Santhosh Chidangil Convener, ICNPMA - 2022				
08.50 AM - 08.55 AM	Overview of the Conference by Dr. T. Lazar Mathew Chairman, ICNPMA - 2022				
08.55 AM – 09.10 AM	Inauguration and Inaugural Address by Lt. Gen. (Dr.) M. D. Venkatesh Vice Chancellor, MAHE, Manipal				
09.10 AM - 09.15 AM	Vote of Thanks by Dr. Sajan D. George Co-Convener, ICNPMA - 2022				
Introduction of Keynote Speaker: Dr. Santhosh Chidangil					
09.15 AM – 10.15 AM	Keynote Address by Dr. Ammasi Periasamy University of Virginia, USA	Advanced Two-photon FLIM microscopy to Investigate the Change in Metabolism in Prostate Cancer Cells			
10.15 AM – 10.45 AM	Tea Break				
Session 1					
Session Chair: Prof. Somashekara Bhat					
10.45 AM – 11.25 AM	Plenary Lecture by Dr. G. K. Ananthasuresh IISC, Bangalore, India	Micromachinery for Mechano- diagnostics			
11.25 AM – 11.55 PM	Invited Lecture by Dr. Shean-Jen Chen NYCU, Taiwan	Deep Learning-Based 3D Micropatterned Multiphoton Stimulation & Light-Field Multiphoton Imaging			

11.55 PM –	Invited Lecture by Dr. N.S. Kumar	Role of Nano Science and Photonics				
12.25 PM	DEBEL, DRDO, Bangalore, India	for Medical Application				
12.25 PM -	Invited Lecture by Dr. Vidya	Uses of Lasers in Dentistry and Clinical				
12.55 PM	Saraswathi	Scenarios				
12 FF DN4	MCODS, MAHE, India					
12.55 PM – 02.00 PM	Lunch Break					
Session 2						
Session Chair: Pi	rof. Satheesh Kumar					
02.00 PM -	Plenary Lecture by Dr. Gin Jose University of LEEDS, U.K	Non-invasive biosensing with				
02.40 PM		photoluminescent ions embedded in				
	Invited Lecture by Dr. C. Murali	glass				
02.40 PM -	Krishna	Role of Raman theranostics in health				
03.10 PM	ACTREC, Mumbai	care				
03.10 PM -	Invited Lecture by Dr. Hemanth	Artificial intelligence assisted Raman				
03.40 PM	Noothalapati, Shimane University,	spectroscopy for reliable classification				
03.401101	Japan	of cancer cells				
03.40 PM -	Invited Lecture by Dr. K K Mahato	Scope of autofluorescence in				
04.10 PM	Manipal School of Life Sciences,	biomedical investigations: our				
04.10 PM -	MAHE, India	Manipal experience				
04.10 PM	Tea Break					
Session 3						
Session Chair: Pr	rof. Santhosh Chidangil					
04.40 PM -	Plenary Lecture by Dr. Valery V.	Optical clearing of tissues:				
05.20 PM	Tuchin	multimodality and in vivo applications				
03.2011	Saratov State University, Russia	matimodality and in vivo applications				
OF 20 DM	Plenary Lecture by Dr. Yury V.	Droothomics using loser spectroscopy				
05.20 PM – 06.00 PM	Kistenev	Breathomics using laser spectroscopy and machine learning				
00.00 PW	National Research Tomsk State University, Russia					
Day 2: 29 th Dece	mber, 2022 (Thursday)					
Session 4						
Session Chair: Pr	rof. Murukeshan Vadekkemadam					
09.00 AM –	Plenary Lecture by Dr. Ajayan Pulickel	Materials Design through				
09.40 AM	Rice University, U.S.A	NanoEngineering				
09.40 AM – 10.10 AM	Plenary Lecture by Dr. Samir Kumar	Transforming Business through Bio-				
	Pal	photonics Technology: Innovations,				
	S N Bose National Centre for Basic	Challenges and Digital Renovation in				
	Sciences, Kolkata	Healthcare				
10.10 AM –	Invited Lecture by Mr. Jagadesh	Lasers in Nanoscience & Photonics				
10.10 AM – 10.40 AM	Obulapuram	for Medical Applications				
251 10 7 1141	Laser Science, Chennai, India					

10.40 AM -	Tea Break				
11.10 AM Session 5					
Session Chair: Dr. Gin Jose					
11.10 AM – 11.50 PM	Invited Lecture by Dr. Renu John IIT Hyderabad, India	Quantification of elastic properties of biological tissues through Optical Techniques			
11.50 AM – 12.20 PM	Invited Lecture by Dr. Sudesh Sivarasu University of Cape Town, South Africa	Frugal Biodesign Innovation is NOT Jugaad - An assessment through LifeCycle Management Lens			
12.20 PM – 12.50 PM	Invited Lecture by Dr. Arun Maiya MCHP, MAHE, India	Advances in the Field of Photobiomodulation in Clinical Practice			
12.50 PM – 02.00 PM	Lunch Break				
Session 6					
Session Chair: P	Session Chair: Prof. Sameerkumar Pal				
02.00 PM – 02.40 PM	Plenary Lecture by Dr. V. M. Murukeshan NTU, Singapore	Advanced diagnostic multi-scale bioimaging and its applications			
02.40 PM – 03.10 PM	Invited Lecture by Dr. Bidhan Pramanick IIT Goa, India	Electrochemical detection of biomolecules: A strong tool to detect glucose to COVID			
03.10 PM – 03.40 PM	Invited Lecture by Mr. Manjunatha Maiya Philips, MAHE	Philips-MAHE Experiential Platform to drive Healthcare Innovation			
03.40 PM – 04.10 PM	Plenary Lecture by Dr. Simona Badilescu Concordia University, Canada	Interactions of nanomaterials with biosystems: Applications in nanomedicine			
04.10 PM - 04.30 PM	Tea Break				
Session 7					
Session Chair: D	r. Murali Krishna Chilakapathi				
04.30 PM – 06.30 PM	Poster Presentation	Poster Presentation			
Day 3: 30 th Dece	ember, 2022 (Friday)				
Session 8					
Session Chair: P	rof. T Pradeep				
09.00 AM – 09.40 AM	Plenary Lecture by Dr. G U Kulkarni Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore Nanomaterial based devices for medical applications – Examples for our Laboratory				
09.40 AM – 10.20 AM	Plenary Lecture by Dr. M. M. Nayak IISC Bangalore, India MEMS Sensor Packaging and Biomedical devices				

			Lecture by Dr. V. Sudhakar Bangalore, India	Developmental Initiatives / efforts of DRDO/ADA for making Indigenous Bio Medical Devices
10.50 AN 11.20 AN		Tea Break		
Session	9			
Session	Chair: Dr.	T. Laza	r Mathew	
11.20 AN	M –	Plenary Lecture by Dr. T. Pradeep		Affordable clean water using
12.00 PN	VI	IIT Mad	dras, Chennai, India	advanced materials
12.00 PM – 01.00 PM Poster		Poster	Presentation	
	01.00 PM – 02.00 PM		Break	
Session	10			
Session	Chair: Dr.	Sajan D	George	
02.00 PN			Lecture by Dr. Joseph Mathew	Microneedle-based Vaccine delivery:
02.40 PM		PGIMER, Chandigarh, India		Theme for a dream
			Lecture by Dr. Naresh Mani, AHE, India	Do-It-Yourself microfluidic devices for sensing applications
03.10 PM - Sivara 03.40 PM Sree 6		Sivarar Sree Go	Lecture by Dr. Sreekanth K. man okulam Medical College & ch Foundation, Trivandrum	Predictive Biomarkers of brain lesions characterized through Magnetic Resonance Spectroscopy
03 45 PM-		Valedio	ctory Function	
03.45 PM – 03.50 PM			Welcome Address by Dr. Santhosh Chidangil Convener, ICNPMA - 2022	
03.50 PM – 04.00 PM			Address by Chief Guest Dr. Narayana Sabhahit Pro Vice Chancellor (Technology & Science), MAHE, Manipal	
04.00 PM – 04.02 PM			Award Presentation by Chief Guest Dr. Narayana Sabhahit Pro Vice Chancellor (Technology & Science), MAHE, Manipal	
04.02 PM – 04.07 PM			Concluding Remarks by Dr. T. Lazar Mathew Chairman, ICNPMA - 2022	
04.07 PM – 04.10 PM			Vote of Thanks by Dr. Sajan D. George Co-Convener, ICNPMA - 2022	
	04.10 PM – 04.25 PM		Oral Presentations	(5 minutes X 3 Presentations) by best poster awardees
04.25 PM – 05.00 PM High To		High Te	ea	