

**Indo-UK Workshop on
Photonics for Health, Atmosphere, Safety and Education
(PHASE 2020)
10-14 January 2020
IIT Gandhinagar**

Part A	Day 1: 10 Jan 2020, Friday		Venue: AB 5/203
Time	Speaker	Title of talk	
08:30 - 09:30	Registration		
09:35–09:55	Dr Arup Lal Chakraborty	Welcome and introduction to the event and participants	
10:00 -10:15	Prof Ken Grattan	About City Uni and an overview of the RAE workshop	
10:20-10:35	Tea Break		
10:40 – 11:30	Dr Manik Pradhan	Cavity ring-down spectroscopy and applications	
11:35 - 12:30	Piue, Chandan, Varsha, Prashant	Visit to the Photonic Sensors Lab (AB 5/106,AB5/202,AB5/203).	
12:35 - 14:00	Lunch break	AB 5/201	
14:05-15:00	Prof Ken Grattan	Fiber Bragg grating sensors - principles and case studies	
15:05 - 16:00	Dr Arup Lal Chakraborty	Tunable diode laser spectroscopy for interdisciplinary research	
16:05 - 16:30	Tea break		
19:00-21:30		Special Workshop Dinner Venue: Fountain area near Jashubhai Auditorium	

Part A	Day 2: 11 Jan 2020, Saturday		Venue: AB 5/203
Time	Speaker	Title of talk	
09:10 - 09:30	Piue Ghosh	Gold nanostructures and their applications	
9:35-9:55	Chandan Kumar Jha	A fiber Bragg grating-embedded glove to measure the flexure of several fingers	
10:00 - 10:50	Dr Michael Lengden	Photoacoustic spectroscopy for industrial sensing applications	

10:50 - 11:10	Tea Break	
11:10 - 12:00	Dr Krishna Kanti Dey	In pursuit of motion at the nanoscale
12:00 - 13:30	Lunch break	
13:35-14:25	Dr Chinmay Ghoroi	The Centre for Safety Engineering @ IITGN Aerosol-based fire extinguishing technology
14:30-16:00	Piue, Prashant	Lab session on TDLS-based gas sensing Venue AB 5/202 Activites: 2004nm VCSEL, 1530 nm DFB:
14:30-16:00	Chandan	Lab session on FBG-based physical sensing Venue AB 5/202 Activity: Pulse from wrist: Voice signal:
	Piue, Varsha	Synthesis of gold nanoparticle and its characterisation
16:05 - 16:25	Tea break	
16:30 - 18:30	Piue, Prashant	Lab session on TDLS-based gas sensing Venue AB 5/202 Activites: 2004nm VCSEL, 1530 nm DFB:
	Chandan	Lab session on FBG-based physical sensing Venue AB 5/202 Activity: Pulse from wrist: Voice signal:
	Piue, Varsha	Synthesis of gold nanoparticle and its characterisation

Part B	Day 3: 13 Jan 2020, Monday		Venue: AB 5/203
Time	Speaker	Title of talk	
09:00 - 09:50	Prof Campbell Booth	Operation and Protection of Future Electric Power Systems	
09:55- 10:45	Prof B M Azizur Rahman	Modelling of waveguide structures for sensing	
10:45-11:00	Tea Break		
11:05-11:55	Dr Goutam Samanta	Structured beam coherent sources from visible to far-IR wavelengths	

12:00- 12:50	Dr Ralf Bauer	Optical microsystems and their applications in imaging systems
12:55-14:30	Lunch break	
14:35-15:15	Dr Ralf Bauer	Introduction to the lab session on 3D-printed microscopes Venue (AB 5/202)
15:20-16:00	Dr Ralf Bauer, Spyridon Bakas, Mark Donnachie	Lab session 1 on assembly & characterisation of 3D-printed microscope Venue (AB 5/202)
16:00 - 16:15	Tea break	
16:20 - 19:00	Dr Ralf Bauer, Spyridon Bakas, Mark Donnachie	Lab session 2 on assembly & characterisation of 3D-printed microscope Venue (AB5/202)

Part B	Day 4: 14 Jan 2020, Tuesday		Venue: AB 5/203
Time	Speaker	Title of talk	
9:00-9:50	Dr Saumyakanti Khatua	Plasmon-enhanced physical and chemical processes	
09:55 - 10:15	Spyridon Bakas	Miniaturisation of lightsheet microscopy	
10:15-10:30	Tea Break		
10:35 – 10:55	Mark Donnachie	MEMS in photoacoustic microscopy systems	
11:00-12:30	Dr Ralf Bauer, Spyridon Bakas, Mark Donnachie	Lab sessions Venue (AB 5/202)	
12:30-14:00	Lunch break		
14:00-16:00	Dr Ralf Bauer, Spyridon Bakas, Mark Donnachie	Lab session 1 on autofocus development for 3D-printed microscope Venue (AB 5/202)	
16:00 - 16:30	Coffee break		
16:30 - 18:30	Dr Ralf Bauer, Spyridon Bakas, Mark Donnachie	Lab session 2 on autofocus development for 3D-printed microscope Venue (AB 5/202)	