

**The Second Japan – Philippines Terahertz Research Workshop  
(June 14 – 16, 2019, University of Fukui)**

**Organized by  
Research Center for Development of Far-Infrared Region, University of Fukui (FIR UF)  
Molecular Photoscience Research Center, Kobe University (MPRC KU)  
National Institute of Philippines, University of the Philippines Diliman (NIP UPD)  
College of Science, De La Salle University (DLSU)  
University of the Philippines Los Banos (UPLB)**

**DAY 0 : June 14, 2019 Friday (Colloquium Room of FIR UF on 5F)**

Time	Event
17:00 – 18:00 (60)	Registration
18:00 – 20:00 (2h)	Evening Reception and Discussion Meeting

**DAY 1 : June 15, 2019 Saturday (Colloquium Room of FIR UF on 5F)**

Time	Title	Speaker	Affiliation/Position
8:30 – 9:00 (30)	Registration		
9:00 – 9:10 (15)	Opening Remarks	Keisuke Tominaga Masahiko Tani	MPRC KU, Japan (Workshop Chair) FIR UF, Japan (Program Chair)
9:15 – 10:05 (50)	Recent Advances in THz Molecular Science (Invited, Tutorial lecture)	Keisuke Tominaga	MPRC KU, Japan (Professor)
10:05 – 10:20 (15)	Break		
10:20 – 10:50 (30)	A Tunable Microwave Bandpass Filter and Reflector Designed in a Microfluidic Metasurface Platform (Invited)	Romeric Pobre	DLSU, Philippines (Professor)
10:50 – 11:10 (20)	Terahertz Emission Enhancement of Silicon Nanowire-Coated Gallium Arsenide Photoconductive Antenna (Contributed)	Neil Irvin Cabello	NIP UPD, Philippines (PhD Student)
11:10 – 11:30 (20)	Improved Terahertz Emission from a Photoconductive Antenna Based on LT-GaAs with an n-GaAs Buffer Layer (Contributed)	Maria Angela Faustino	NIP UPD, Philippines (PhD Student)
11:30 – 11:45(15)	Group Photo		
11:45 – 13:15(90)	Lunch Time		
13:15 – 14:05 (50)	Emission and Detection of Terahertz Electromagnetic Radiation via Ultrafast Optical Excitation of Semiconductors (Invited, Tutorial lecture)	Elmer Estacio	NIP UPD, Philippines (Professor)

14:05 – 14:35 (30)	Metal-coated <100>-cut GaAs Coupled to Tapered Parallel-Plate Waveguide for Cherenkov-Phase-Matched Terahertz Detection: Influence of Crystal Thickness <b>(Invited)</b>	Ramon delos Santos	Ateneo de Manila University, Philippines (Assistant Professor)
14:35 – 14:50 (15)	Break		
14:50 – 15:10 (20)	Conductivity and Carrier Density of Polyaniline Containing Polymer-Clay Composite Studied by Terahertz Time-Domain Spectroscopy <b>(Contributed)</b>	Lou Serafin Lozada	UPLB, Philippines (Assistant Professor), MPRC KU, Japan (PhD student)
15:10 – 15:30 (20)	Interpretations of Low Frequency Responses in Hydrated Casein – An Update on Casein Hydration Research <b>(Contributed)</b>	Dustin Loren Almanza	UPLB, Philippines (Assistant professor of UPLB)
15:30 – 15:50 (20)	Photoconductivity of LT-GaAs Layers Grown on Silicon Substrates <b>(Contributed)</b>	Jessica Afalla	FIR UF, Japan (Post-doc researcher)
15:50 – 16:10 (20)	Spintronic Terahertz Generation Using Optimized Metallic Bilayers of Fe/Pt <b>(Contributed)</b>	Valynn Mag-usara	FIR UF, Japan(Post-doc researcher)
16:10 – 16:30 (20)	Investigation for Efficient Terahertz Emission of Fe/Pt Spintronic Bilayer: Wavelength Dependence and Antenna Structure <b>(Contributed)</b>	Miezel Talara	FIR UF, Japan (PhD Student)
16:30 – 16:45 (15)	Break		
16:45 – 18:00 (75)	Lab Tour		
18:00 – 18:30	Break		
18:30 – 20:30 (2h)	Dinner Meeting		

**DAY 2 : June 16, 2019 Sunday (Colloquium Room of FIR UF on 5F)**

Time	Title	Speaker	Affiliation (Position)
9:00 – 9:50 (50)	Fundamentals and Advances in THz-TDS <b>(Invited, Tutorial lecture)</b>	Masahiko Tani	FIR UF, Japan (Professor)
9:50 – 10:20 (30)	Theoretical Studies on THz Spectra <b>(Invited)</b>	Melanie David	DLSU, Philippines (Associate Professor)
10:20 – 10:50 (30)	Structural and Electronic Origin of Subband-gap	Clare Escano	FIR UF, Japan (Associate Professor)

	Excitation in GaAs using First-principles Methods (Invited)		
10:50 – 11:05 (15)	Break		
11:05 – 11:25 (20)	Photoconductive Antenna on a Modulation-Doped GaAs/AlGaAs Heterostructure Substrate (Contributed)	Victor DC Vistro	NIP UPD, Philippines (MS Student)
11:25 – 11:45 (20)	Optical and Terahertz Characterization of Epitaxially Lifted i-GaAs/n-GaAs Thin films on Silicon (Contributed)	Anthony Montecillo	NIP UPD, Philippines (PhD Student)
11:45 – 12:00 (15)	Closing remarks from the representatives of co-organizing institutes		
12:00 – 13:30 (90)	Lunch Time		
13:30 – 18:00 (4h30)	Organizing Committee Meeting  Excursion around Fukui		
18:00 – 18:30	Break		
18:30 – 20:30 (2h)	Dinner Meeting		