

3rd EU-Japan Flagship Workshop on Graphene & 2D Materials

Nov. 19th ~ 21st, 2018
 Conference Room, Nano-Spin Bld., Katahira Campus
 RIEC, Tohoku University, Sendai, Japan

Program (confirmed. as of Sept. 5th, 2018.)

Nov. 19th, 2018

Opening	9:00-9:10	Genearl Chair		
	9:10-9:20	Jari Kinaret	Director, Graphene Flagship	(Professor, Dept. Appl. Phys. Chalmers Univ. Tech., Sweden)
	9:20-9:30	Atsushi Kurobe	Research Supervisor, JST	(Chief Fellow, Toshiba Corp., Japan)
DEV-1	9:30-9:55	Daniel Neumaier	AMO, Germany	Graphene based electronic devices and integrated circuits for RF communication
	9:55-10:20	Kosuke Nagashio	Univ. Tokyo, Japan	Electrically inert interface in 2D heterostructure devices
	10:20-10:45	Takamasa Kawanago	Tokyo Tech., Japan	MoS2 FETs fabricated by adhesion lithography
	10:45-11:10	Ryo Nouchi	Osaka P. Univ., Japan	Surface chemical reactions on field-effect transistors based on two-dimensional materials
	11:10-11:35	Yifeng Fu	CUT, Sweden	Graphene-CNT hybrid material as potential thermal solution in electronics applications
	11:35-12:00	Taishi Takenobu	Nagoya Univ., Japan	Light-emitting devices of transition metal dichalcogenide monolayers

(LUNCH)

PHYS-1	1:30-1:55	Thomas Ihn	ETH Zurich, Switzerland	Gate-defined bilayer graphene constrictions and quantum dots
	1:55-2:20	Shuichi Murakami	Tokyo Tech., Japan	Topological insulators and topological phase transitions
	2:20-2:45	Bernard Placais	ENS-Paris, France	Phonon cooling pathways of hot electrons in graphene
	2:45-3:10	Tomoki Machida	Univ. Tokyo, Japan	Robotic assembly and quantum transport of van der Waals heterostructures
	3:10-3:35	Felix Casanova	CIC-Nanogune, Spain	Manipulating spin currents with graphene-based heterostructures

(BREAK)

MAT-1	4:00-4:25	Kenji Watanabe	NIMS, Japan	Deep UV photoluminescence microscopy system for exploring luminous properties of hexagonal boron nitride crystals
	4:25-4:50	Camila Coletti	IIT, Italy	Synthesizing 2D materials for optoelectronics: approaches and prospects
	4:50-5:15	Hiroki Ago	Kyushu Univ., Japan	Controlled CVD synthesis of high-quality 2D materials for electronic and photonic applications
	5:15-5:40	Christoph Stampfer	RWTH, Germany	Going beyond the intrinsic limit of graphene's carrier mobility
	5:40-6:05	Shintaro Sato	Fujitsu, Japan	Synthesis and application of graphene nanoribbons
	6:05-6:30	Hiroshi Nishihara	Univ. Tokyo, Japan	Synthesis and applications of coordination nanosheet (CONASH)

(WORKING DINNER)

Nov. 20th, 2018

PHYS-2	9:30-9:55	Ignacio Gutiérrez-Lezama	Univ. Geneva, Switzerland	Very large tunneling magnetoresistance in layered magnetic semiconductor CrI ₃
	9:55-10:20	Masashi Kawasaki	Univ. Tokyo, Japan	Magnetic heterostructures of topological insulator
	10:20-10:45	Saroj P. Dash	Chalmers Univ. Tech., Sweden	Spin transport in van der Waals heterostructures
	10:45-11:10	Sunao Shimizu	RIKEN, Japan	Electric field control of thermoelectric properties in layered two dimensional materials
	11:10-11:35	Sergio O. Valenzuela	ICN2, Spain	Enhanced spin-orbit interaction in graphene due to the proximity of metals and transition metal dichalcogenides (tentative)

(LUNCH)

DEV-2	1:00-1:25	Emmanuel Kymakis	Crete, Greece	Graphene and related 2D materials interfacial and device engineering for perovskite photovoltaics
	1:25-1:50	Toshiaki Kato	Tohoku Univ., Japan	Schottky solar cell using few-layered TMDs
	1:50-2:15	Jie Tang	NIMS, Japan	Graphene supercapacitors
	2:15-2:40	Arben Merkoci	ICN2, Spain	Graphene-based biosensors for diagnostics
	2:40-3:05	Yuhei Hayamizu	Tokyo Tech., Japan	Nano-bio sensing using graphene composite
	3:05-3:30	Kazuhiko Matsumoto	Osaka Univ., Japan	Sugar chain functionalized graphene FET for biological application

(BREAK)

MAT-2	4:00-4:25	Catherine Journet-Gautier	Lyon Univ., France	Polymer-derived boron nitride nanosheets
	4:25-4:50	Yasumitsu Miyata	Tokyo M. Univ., Japan	Growth of in-plane heterostructures based on layered chalcogenides
	4:50-5:15	Katsuaki Sugawara	Tohoku Univ., Japan	High-resolution ARPES study of atomic-layer transition-metal dichalcogenides
	5:15-5:40	Hanako Okuno	CEA, France	Structural investigation of 2D materials: From growth to controlled properties
	5:40-6:05	Paul V. Wiper	AIXTRON, UK	Advances in 2D materials production: from R&D to commercialization
	6:05-6:30	Kazu Suenaga	AIST, Japan	Atomic resolution analysis of 2D materials

(RECEPTION)

Nov. 21st, 2018

Focussed	9:00-9:25	Yoshihiro Iwasa	Univ. Tokyo	Rolling transition metal dichalcogenides to nanotubes
	9:25-9:50	Stephan Roche	ICN2, Spain	Modelling spintronics and valleytronics : Bulk & edge transport
	9:50-10:15	Taiichi Otsuji	Tohoku Univ.	Plasmon instabilities in 2DMs
	10:15-10:40	Riichiro Saito	Tohoku Univ.	Enhancement of electric field for measuring optical response in two-dimensional materials

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Round-Table Discussion	10:50-11:30	Francesco Bonaccorso	ITT, Italy	Energy applications and composites - Innovation challenges
Closing	11:30-12:30	Challenges of EU-JAPAN collaboration in advanced technologies		