

BRIEF SCIENTIFIC PROGRAM

	Tuesday, 22/10/2019
13:00 – 15:00	Get to Thai Nguyen
15:00 – 17:00	Registration
	Wednesday, 23/10/2019
08:00 – 09:00	Registration
08:30 – 09:15	Opening Ceremony Opening speech from Institute of Physics Opening speech from Vietnam National University HCM city Opening speech from International Centre of Physics
	Photo Session
09:15 – 10:15	Chair: Prof. Nguyen Dai Hung PL – 01 Dinh Van Trung 09:15 – 09:45 Introduction to Institute of Physics PL – 02 Pham Hong Duong 09:45 – 10:15 5S human centric lighting system
10:15 – 10:30	COFFEE BREAK
10:30 – 12:00	Chair: Prof. Elmer Estacio PL – 03 Jakrapong Kaewkhao 10:30 – 11:00 High density WO ₃ -Gd ₂ O ₃ -B ₂ O ₃ glass doped with Ln ³⁺ ion for photonic and radiation detection martial application PL – 04 Sib Krishna Ghoshal 11:00 – 11:30 Synergistic Effects of Erbium and Titania Nanoparticles Concoction on Improved Self-cleaning and Spectral Qualities of Amorphous Tellurite Host PL – 05 Elizabeth Ann Prieto 11:30 – 12:00 Terahertz emission enhancement in gaas on Si(100) in reflection and transmission excitation geometries
12:00 – 13:30	LUNCH BREAK
13:30 – 15:10	Chair: Prof. Jakrapong Kaewkhao I – 01 Melvin John F. Empizo 13:30 – 13:55 Effects of deuterium-ion plasma irradiation on the optical properties of bulk zinc oxide single crystals. I – 02 Nguyen Duc Ba 13:55 – 14:20 Application of liquid dielectric to development of cold atmospheric plasma jet I – 03 Marilou Cadatal Raduban 14:20 – 14:45 Development of detectors based on wide band gap fluorides I – 04 Meng-Hock Koh 14:45 – 15:10 New Skyrme Parametrization with Inclusion of Nuclear Tensor for Fission-Barrier

15:10 – 15:25

Calculations

COFFEE BREAK

15:25 – 16:45

Chair: Prof. Marilou Cadatal Raduban

- I – 06 Seoyong Shin** 15:25 – 15:50
Design of lens for led uniform illumination using freeform optics
- I – 07 Md Mokter Hossain** 15:50 – 16:15
High performance of toluen decomposition at low temperature over Pd/ZSM-5 coupled with a dielectric barrier discharge
- O – 01 Saud Shirjana** 16:15 – 16:30
Adsorption and plasma-catalytic oxidation of ethylene over zeolite-supported Palladium catalyst using corona discharge-coupled catalytic reactor
- O – 02 Bhattarai Roshan Mangal** 16:30 – 16:45
CoMoS@N-doped carbon nanocomposite as a high-performance anode material for lithium-ion batteries

18:00 – 20:30

Gala dinner

Thursday, 24/10/2019

8:00 – 10:15

Chair: Dr. Jacque Lynnn Gabayno

- I – 08 Jiri Olejnicek** 8:00 – 8:25
Co₃O₄ and TiO₂ films prepared by multi-plasma jet system with hot hollow cathode discharge
- O - 03 Ika Puspita** 8:25 – 8:40
Modified Structure Silica Optical Fiber for Detection of Edible Oils Adulterant
- O - 04 Mohd Syafiq Elias** 8:40 – 8:55
Graphene Film on Metal Catalyst Substrate Via Chemical Vapor Deposition
- O - 05 Maria Herminia Balgos** 8:55– 9:10
Locating the n^+ -GaAs/LT-GaAs interface using a cross-sectional scanning tunneling microscope
- O - 06 Thin Thin Kyu** 9:10 – 9:25
Characterization of Biochar Materials Manufactured from Agricultural Waste Biomass for Direct Carbon Fuel Cell (DCFC)
- O - 07 Nguyen Dinh Vinh** 9:25 – 9:40
Ultrasound-assisted preparation of activated carbon from sugarcane bagasse used for removal of Pb(II) from water
- O – 22 Nguyen Thanh Phuong** 9:40 – 9:55
Design and realization of led equipment apply in neonatal jaundice treatment
- O – 09 Bui Thi Thu Phuong** 9:55 – 10:10
Using soil hardener dhd-101 in building roads and making adobe bricks

10:15 – 10:30

COFFEE BREAK

10:30 – 11:55

Chair: Dr. Pham Hong Minh

- I – 09 Tran Minh Thai** 10:30 – 10:55
Application of low-level semiconductor laser in treatment of atherosclerosis of internal carotid artery in type 2 diabetes as hemiplegia after cerebrovascular accident
- O – 10 Nguyen Nhat Huy** 10:55 – 11:10
Nghiên cứu chế tạo vật liệu graphite ôxit dạng cầu gai từ lõi pin tái chế và ứng dụng làm

	vật liệu hấp phụ xử lý thuốc nhuộm đỏ 120 trong môi trường nước O – 11 Trinh Ngoc Dieu 11:10 – 11:25 Kết quả nghiên cứu bước đầu sử dụng từ trường cường độ cao trong phương pháp giảm rễ và chiết cành cây hồng ăn quả không hạt Gia Thanh O – 12 To Van Chieu 11:25 – 11:40 Phát triển công nghệ mới và Chế tạo thiết bị lưu trữ năng lượng với dung lượng cao vượt trội O – 13 Pham Dong Bang 11:40 – 11:55 Chế tạo gương quang học khẩu độ lớn sử dụng trong hệ đo lidar: các kết quả mới
12:00 – 13:30	LUNCH BREAK
13:30 – 15:10	Chair: Dr. Meng Hock Koh
	I – 10 Mohd Sanusi Mohamad Syazwan 13:30 – 13:55 Ligand field parameters evaluation of Samarium activated BaSO₄-TeO₂-B₂O₃ glasses for laser applications. O – 14 Nuanthip Wantana 13:55 – 14:10 The near-infrared luminescence of Nd³⁺-doped tungsten gadolinium borate glasses for photonic material applications O – 15 Pham Huu Kien 14:10 – 14:25 The structural transition under compression and structural heterogeneity for liquid SiO₂ system O – 16 Phan Van Cuong 14:25 – 14:40 X-ray luminescence comparison of photonic nanomaterials: CdSeS, LaF₃:Ce³⁺/CdSeS, and CsPbI₃ O – 23 Nguyen Nang Dinh 14:40 – 14:55 Using cross-polarization scheme microscope for photoluminescent application to point-of-care diagnostics O – 18 Dinh Van Trung 14:55 – 15:10 Proportional and Integral feedback control of a XY nanopositioning device
15:10 – 15:25	COFFEE BREAK
15:25 – 16:25	Chair: Prof. Pham Hong Duong
	O – 19 Dang Nguyen Ngoc An 15:25 – 15:50 3d reconstruction of absorbing structure in biological tissue from single 2d near infrared transillumination image - blood vessel phantom study O – 20 Huynh Truc Phuong 15:40 – 15:55 Determination of the concentration of Fe, Se and Zn elements in nails of Vietnamese women with breast cancer using k₀-INAA method O – 08 Tran Manh Cuong 15:55 – 16:10 Multiband metamaterial absorber creating by connecting inductance rings in the structure O – 17 Duong Thi Giang 16:10 – 16:25 Design and fabrication of led blackboard washing luminaire combined with linear freeform lens
18:00 – 20:30	Gala dinner
	Friday, 25/10/2019
8:00 – 09:45	Chair: Prof. Yin Maung Maung

	I – 11 Eakgapon Kaewnuam 8:00 – 8:30 Judd-ofelt analysis and infrared laser potential of lithium bismuth aluminium borate glass doped with Er^{3+} O – 24 Dang Nguyen Ngoc An 8:30 – 8:45 Development of diagnostic device using near infrared light - preliminary research O – 25 Nguyen Quoc Chien 8:45 – 9:00 Optimal design of a multimode-interference for application in photonics interconnects O – 26 Nguyen Tuan Tai 9:00– 9:15 Simulation design of a micro-heater for application in integrated microsystems O – 29 Bui Van Hai 9:15 – 9:30 Resolving the bistatic lidar images in range for measurment of the lower atmosphere in Hanoi O – 28 Nguyen Van Thanh 9:30 – 9:45 Study on effect of technical parameters in liquid nitriding process to the structure and mechanical properties of AISI 420 stainless steel O – 27 Huynh Dinh Chuong 9:45 – 10:00 A semi-empirical approach based on virtual point detector concept to calculate the efficiency of nai(tl) detector for measurements of point source on the detector's symmetry axis
10:00 – 10:15	COFFEE BREAK
10:15 – 11:30	Chair: Prof. Juniastel Rajagukguk
	O – 30 Le Quang Vuong 10:15 – 10:30 Validation of coincidence summing corrections computed by the etna software and mcnpcp code O – 31 Min Maung Maung 10:30 – 10:45 Modification and nanostructural characterization of Myanmar coal O – 32 Ulwiyatus Sa'adah 10:45 – 11:00 Preparation of Electrospinning Polyacrylonitrile/Titanium Dioxide Nanofibers and Their Optical Properties as a Candidate Material For Natural Dye Sensitized Solar Cells O – 33 Viengthong Xayavong 11:00 – 11:15 Study the possibility of applying the advanced 2d multi-electrode electrical exploration method to find groundwater in vientiane province, Laos O – 34 Tran Minh Thai 11:15 – 11:30 Application of low-level laser in treatment fatty blood disease
12:00 – 13:30	LUNCH BREAK
15:15 – 15:30	COFFEE BREAK
15:30 – 16:25	Poster session Chair: Prof. Anusara Srisrual, Prof. Elizabeth Ann Prieto
16:25 – 18:05	Plenary Session Chair: Prof. Nguyen Dai Hung PL – 06 Jongseok Lee 16:25 – 16:50 Research opportunities in GIST with high excellence PL – 07 Satoshi Mayama 16:50 – 17:15 Internship and PhD research at Sokendai and Inter-University research institute in Japan PL – 08 Le Hong Khiem 17:15 – 17:40 Research opportunities in Dubna PL – 09 Dinh Van Trung 17:40 – 18:05

18:30 – 20:30

Introduction to International Centre of Physics under the auspices of UNESCO
Closing Ceremony

Farewell party

Saturday, 26/10/2019

08:00 – 16:00

Thai Nguyen tour