THE 9TH INTERNATIONAL CONFERENCE ON APPLIED & ENGINEERING PHYSICS (iCAEP-9)

HỘI NGHỊ TOÀN QUỐC LẦN THỨ 9 VỀ VẬT LÝ KỸ THUẬT VÀ ỨNG DỤNG

ABSTRACTS & PROGRAM

Khanh Hoa, Vietnam. September 30th – October 3rd, 2025

https://iop.vast.vn/caep/2025/index.php

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2025

CONTENTS

CONFERENCE INFORMATION

03
03
04
05
08
08
09
17
23
28
33
37
78
118
149

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ATek Vietnam Co., LTD



BRIEF PROGRAM

Session A: Engineering Physics

Session B: Applied Physics

Date Time	TUESDAY September 30 th , 2025	WEDNESDAY October 1 st , 2025	THURSDAY October 2 st , 2025	FRIDAY October 3 rd , 2025
8:30 - 12:00		Excursion	- REGISTRATION - OFFICIAL OPENING - PLENARY SESSION - SESSION 1A - SESSION 1B	- SESSION 3A - SESSION 3B
			\mathbf{L}_{1}	UNCH
13:30 - 17:30	REGISTRATION		- SESSION 2A - SESSION 2B - POSTER SESSION I	- SESSION 4A - SESSION 4B - POSTER SESSION II OFFICIAL CLOSING
18:30 - 20:30			Conference Banquet	

PROGRAM

SCIENTIFIC PROGRAM

	October 2 nd , 2025
	OPENING
	Venue: Hall A
08:00 - 08:30	Registration
08:30 – 09:15	Opening speech by Conference President- Prof. Nguyen Dai Hung
	Speech given by Leadership of Vietnam National University Ho Chi
	Minh City- Prof. Lam Quang Vinh
	Speech given by a Representative of Vietnam Academy of Science and
	Technology
	Speech given by Leadership of Institute des Sciences Moléculaires
	d'Orsay, CNRS, France - Prof. Thomas Pino
	Speech given by Leadership of University of the Philippines Diliman-
	Prof. Elmer S. Estacio
	Speech given by Leadership of Advanced Photonics Research
	Institute, Korea - Prof. Seong Ku Lee
	Speech given by Leadership of Institute of Physics - Prof. Dinh Van
	Trung
	CONFERENCE PHOTOGRAPH
	PLENARY SESSION
	Venue: Hall A
	men: Prof. Satoki Matsushita & Prof. Nguyen Dai Hung
PL-01	EXPLORATION OF LOW PRESSUE FLAMES TO PRODUCE
09:15 - 09:40	LABORATORY ANALOGUES OF INTERSTELLAR
	NANOGRAINS G. Clesmeent, Thomas Pino
	Institut des Sciences Moléculaires d'Orsay, France
DI 02	V.
PL-02	ISHE-BASED SPINTRONIC TERAHERTZ EMISSION IN Au,
09:40 - 10:05	Pt, Ag, AND Ti ON Pt METAL BI-LAYERS GROWN BY E-BEAM DEPOSITION
	Elmer Estacio, Ivan Verona, John Paul Ferrolino, Arvin Lester Jusi,
	Hannah Bardolaza, Christopher Que, Alvin Tapia, Armando
	Somintac, Arnel Salvador, Hideaki Kitahara, Masahiko Tani, and
	Pham Hong Minh
	University of the Philippines Diliman, Philippines
PL-03	STATUS OF RESEARCH AND DEVELOPMENT IN APRI
10:05 - 10:30	Seong Ku Lee
	Advanced Photonics Research Institute, GIST, Korea
10:30 - 10:45	COFFEE BREAK

SESSION A: ENGINEERING PHYSICS			
October 2 nd , 2025			
	SESSION 1A		
	Venue: Hall A		
	hairmen: Prof. In-Sang Yang & Prof. Nguyen The Toan		
A-01	MANIPULATION OF A QUANTUM DOT BASED SINGLE		
10:45 – 11:05	PHOTON SOURCE BY COUPLING TO POLYMERIC PHOTONIC STRUCTURES		
	(Invited talk)		
	Gia Long Ngo, Thi Huong Au, Jean-Pierre Hermier and Ngoc Diep Lai		
	Université Paris-Saclay, CentraleSupelec, France		
A-02	LOW-DIMENSIONAL STRUCTURES FOR EFFICIENT		
11:05-11:25	ENERGY CONVERSION		
11.05-11.25	(Invited talk)		
	Paweł Głuchowski, Dominika Czekanowska, Daniela Kujawa, Hugo		
	Salazar, Anna Grzegórska, Anna Zielińska Jurek, Ermelinda Falletta,		
	Melissa Greta Galloni, Vincenzo Fabbrizio, Qianqian Chen, Carsten		
	Blawert, Maria Serdechnova		
4.02	Polish Academy of Sciences, Poland		
A-03	TECHNOLOGICAL INSIGHTS INTO THE SCULPTABILITY		
11:25 – 11:45	AND DURABILITY OF THE PO NAGAR CHAM TOWERS (Invited talk)		
	Nguyen Quang Liem, Nguyen Thu Loan, Ung Thi Dieu Thuy, Philippe Colomban, Maria Luisa Saladino		
	Institute of Materials Science, VAST, Vietnam		
A-04	TAILORING PHYSICAL PROPERTIES OF TRANSITION		
11:45-12:05	METAL DICHALCOGENIDES THROUGH SUBSTITUTIONAL		
	ALLOYING (Invited talls)		
	(Invited talk) Nguyen Huu Lam, Jungdae Kim		
	University of Ulsan, Korea		
SESSION 2A			

9

Venue: Hall A

Chairmen: Prof. Suchart Kothan & Prof. Pham Hong Minh

A-05 13:30 - 13:50	MULTIPLE COMPONENTS OF THE SPIN-ROTATIONAL EXCITATIONS IN HEXAGONAL YMnO3 STUDIED BY RESONANCE RAMAN SPECTROSCOPY (Invited talk) Young-Jin Lee, Yeonju Park, Young Mee Jung, Je-Geun Park, In-Sang Yang Ewha Womans University, Korea
A-06 13:50 - 14:05	TERAHERTZ TIME-DOMAIN SPECTROSCOPY VIA CAVITY TUNING I. C. M. Verona, J. M. S. Arcilla, K. J. B. Fernandez, H. R. Bardolaza, A. K. G. Tapia ,E. S. Estacio University of the Philippines Diliman, Philippines
A-07 14:05 - 14:25	LIGHT-EMITTING DEVICES BASED ON NON-HERMITIAN TOPOLOGICAL SINGULARITIES IN PHOTONIC CRYSTALS (Invited talk)
	Hai Son Nguyen Université Claude Bernard Lyon, France
A-08	SYNTHESIS-DRIVEN GRAIN SIZE CONTROL FOR LFMR
14:25 - 14:45	AND TCR EFFECT IN MANGANITES
	(Invited talk)
	Kean Pah Lim, L.N. Lau, X.T. Hon, M.M. Awang Kechik, S.K. Chen, N.B. Ibrahim and A.H. Shaari <i>Universiti Putra Malaysia, Malaysia</i>
A-09	CRYSTAL GROWTH, LUMINESCENCE, AND
14:45 - 15:05	SCINTILLATION PROPERTIES OF Ba CO-DOPED CSi:Tl
	CRYSTAL SCINTILLATOR
	(Invited talk)
	Y. Tariwong, S. Kothan, H.J. Kim, N. D. Quang, A. Khan, M. Tungjai, Y. Ruangtaweep, N. Wantana, N. Intachai, J. Kaewkhao
	Chiang Mai University, Thailand
A-10	HYBRID HIGH-ENERGY RADIATION DETECTORS
15:05 - 15:20	UTILIZING Gd ³⁺ -DOPED BOROSILICATE GLASS
	SCINTILLATORS WITH PHOTOSENSITIVE TiO ₂ LAYER P. Mangthong, M. Kohout, C. S. Ponseca, Jr, Z. Hubička, J. Kaewkhao, S. Kothan, K.Kirdsiri, N. Srisittipokakun, J. Olejníček, M. Cadatal-Raduban Nakhon Pathom Rajabhat University, Thailand

15:20 - 15:35	COFFEE BREAK
A-11	REACTIVE SPUTTERING OF ZNO FILMS WITH ULTRAFAST
15:35 - 15:55	UV LUMINESCENCE: EFFECTS OF ECWR PLASMA
10.00 10.00	CONTROL
	(Invited talk)
	Jiří Olejníček, Marilou Cadatal-Raduban, Kota Hibino, Yuki
	Maruyama, Aneta Písaříková, Keito Shinohara, Toru Asaka, Lenka
	Lebedová, Michal Kohout, Zhang Jiaqi, Yugo Akabe, Makoto
	Nakajima, John A. Harrison, Rainer Hippler, Martin Čada, Nobuhiko
	Sarukura, Shingo Ono, Zdeněk Hubička, and Kohei Yamanoi
	Institute of Physics of the Czech Academy of Sciences, Prague, Czech
	Republic
A-12	SURFACE ATMOSPHERE MONITORING FOR AIR, DUST,
15:55 - 16:15	AND WIND WITH MINI-LIDAR
15:55 - 10:15	(Invited talk)
	Tatsuo Shiina
	Chiba University, Japan
A-13	FROM RADIATION TO CURRENT: A HYBRID APPROACH
16:15 - 16:35	TO RADIATION DETECTION
	(Invited talk) Merilay Cadatal Badyhan Vylsi Marayama Vata Hibina Michal
	Marilou Cadatal-Raduban, Yuki Maruyama, Kota Hibino, Michal Kohout, Kohei Yamanoi, Zdenek Hubička, Shingo Ono, Jiri Olejníček
	Unitec Institute of Technology, New Zealand
	Chilee Institute of Teenhology, Ivew Zealand
A-14	EXPLORING LUMINESCENCE IN PHOTONIC DEVICES
16:35 - 16:55	THROUGH DVXA AND DVME METHOD
10.55 10.55	(Invited talk)
	Mega Novita
	Universitas Persatuan Guru Republik Indonesia, Indonesia
A-15	INVESTIGATION OF THE EFFECTS OF LASER BEAM SPOT
16:55 - 17:15	RADIUS ON TERAHERTZ EMISSION CHARACTERISTICS
10.55 - 17.15	OF LOW-TEMPERATURE GROWN GALLIUM ARSENIDE
	DIPOLE AND BOWTIE PHOTOCONDUCTIVE ANTENNAS
	VIA FINITE ELEMENT ANALYSIS
	Arcturus Gabriel S. Mendenilla, Kenneth Alaba, Lourdes Nicole Dela
	Rosa, Ivan Cedrick Verona, Jose Mari Sebastian Arcilla, Hannah R.
	Bardolaza, and Elmer S. Estacio
	University of the Philippines Diliman, Philippines

A-16 17:15 - 17:30	EFFECT OF CONCENTRATION AL DOPING ON CHARACTERISTICS STRUCTURE AND THERMOELECTRIC PROPERTIES OF Mg2Sn THIN DEPOSITED BY SPUTTERING MALNETRON RF Thi Hai Yen Nguyen, Anh Khoi Tran, Phuong N. Nguyen, Hoai Phuong Pham, Hai Dang Ngo Dong Nai University, Vietnam
	October 3 rd , 2025
	SESSION 3A
	Venue: Hall A
A-17	hairmen: Prof. Chen Soo Kien & Prof. Hai Son Nguyen MULTI-DIMENSIONAL OPTICAL IMAGING WITH
08:30 - 08:50	POLARIZATION SENSITIVITY
	(Invited talk)
	Tae Joong Eom
	Korea Photonics Technology Institute, Korea
A-18	POTENTIAL INVESTIGATIONS ON CORRELATION
08:50 - 09:10	BETWEEN LOCAL STRUCTURAL AND SUPERCONDUCTING
	PROPERTIES OF MgB ₂ SUPERCONDUCTORS
	(Invited talk) Duc H. Tran, Tien Le, An T. Pham, Ha H. Pham, Nam H. Nguyen, Nhan
	T. T. Duong, Won-Nam Kang, Jeehoon Kim
	Vietnam National University - University of Science, Vietnam
A-19	EXPLORING TERAHERTZ-INDUCED BIOLOGICAL
09:10 - 09:30	RESPONSES WITH MULTI-FREQUENCY GYROTRONS
	(Invited talk)
	Yuusuke Yamaguchi, Makiko Kakikawa, Gakushi Tsuji, Yoshiyuki
	Konishi, Takayasu Kawasaki, Masafumi Fukunari and Yoshinori
	Tatematsu
	University of Fukui, Japan
A-20	ML-GUIDED OPTIMIZATION OF METAL OXIDE-
09:30- 09:50	DECORATED LASER-INDUCED GRAPHENE FOR ENERGY
	STORAGE
	(Invited talk)
	Ye Chan, Nann Mong Longe, Hnin Wut Yi University of Yangon, Myanmar, 11041
	Oneversity of Tungon, myanimi, 11071

<i>A-21</i> 9:50 - 10:05	OPTICAL CHARACTERIZATION IN THE TERAHERTZ REGION OF POLYLACTIC ACID (PLA) AND THERMOPLASTIC POLYURETHANE (TPU) USING TERAHERTZ TIME-DOMAIN SPECTROSCOPY (THZ- TDS) FOR WAVEGUIDING APPLICATIONS Joshua Omar P. Pestaño, Kenneth Alaba, Hannah R. Bardolaza, Tani Masahiko, Hideaki Kitahara, and Elmer S. Estacio University of the Philippines Diliman, Metro Manila, Philippines
A-22 10:05 – 10:20	FABRICATION OF THE SELF-POWERED GA ₂ O ₃ :SI/P-GAN HETEROJUNCTION UV PHOTODETECTORS Thi Kim Oanh Vu, Hai Bui Van, Nguyen Xuan Tu, Nguyen Van Kha, Bui Thi Thu Phuong, Nguyen Thi Minh Hien, and Eun Kyu Kim Institute of Physics, VAST, Vietnam
10:20 - 10:35	COFFEE BREAK
A-23	THERMAL DECOMPOSITION METHOD FOR
10:35 – 10:55	SYNTHESISING Y-123 DOPED WITH RARE-EARTH OXIDES
	(Er ₂ O ₃ , Nd ₂ O ₃ , AND Sm ₂ O ₃) FOR ENHANCED SUPERCONDUCTING PROPERTIES
	(Invited talk)
	Mohd Mustafa Awang Kechik, Siew Hong Yap, Arebat Ryad Alhadei Mohamed, Nur Afiqah Mohamed Indera Alim Sah, Hussien Baqiah, Thareiz Hakim Zailani, Soo Kien Chen, Kean Pah Lim, Muhammad Kashfi Shabdin, Abdul Halim Shaari, Mohd Hafiz Mohd Zaid, Mohd Khalis Abdul Karim, Syahrul Humaidi, Kar Ban Tan, Muralidhar Miryala Universiti Putra Malaysia
A-24	ADVANCING MEDICAL RADIATION SCIENCE:
10:55 – 11:15	MULTIDISCIPLINARY RESEARCH AT THE CENTER OF RADIATION RESEARCH AND MEDICAL IMAGING (CRMI), CHIANG MAI UNIVERSITY (Invited talk) N. Intachai, Y. Tariwong, K. T. Htun, M. Tungjai, H.J. Kim, J. Kaewkhao, S. Kothan
	Chiang Mai University, Thailand

A-25	THE OVERVIEWS OF HIGH-FREQUENCY AND ULTRA-
11:15 - 11:35	LOW-TEMPERATURES ELECTRON SPIN RESONANCE
11.13 - 11.33	SYSTEMS FIR-UF
	(Invited talk)
	Yuya Ishikawa, Yutaka Fujii
	University of Fukui, Japan
A-26	RAPID HYDROGEN RELEASE FROM AMMONIA BY
11:35 - 11:55	CRACKING REACTION IN A ROTATING GLIDING ARC
	PLASMA UNDER ATMOSPHERIC CONDITIONS
	(Invited talk)
	Quoc Oai Vu, Duc Ba Nguyen, Duc Trung Vo and Young Sun Mok
	Jeju National University, Korea
A-27	LOW TEMPERATURE THERMOELECTRIC PROPERTIES IN
11:55 - 12:10	ULTRATHIN BI ₂ TE ₃ FILMS
	Nguyen Trung Kien, Bui Huyen Trang, Nguyen Minh Duc, Dinh Thi
	Hien, Pham Thi Hong, Nguyen Tran Thuat and Nguyen Quoc Hung
	Nano and Energy Center, Fauculty of Physics, VNU University of
	Science
12:10 - 13:30	LUNCU
12.10 - 13.30	LUNCH
12.10 - 13.30	SESSION 4A
12.10 - 13.30	
	SESSION 4A
	SESSION 4A Venue: Hall A Chairmen: Prof. Elmer Estacio & Prof. Duc Hai Tran DEVELOPMENT OF BROADBAND HIGH-RESOLUTION GAS
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A-28	SESSION 4A Venue: Hall A Chairmen: Prof. Elmer Estacio & Prof. Duc Hai Tran DEVELOPMENT OF BROADBAND HIGH-RESOLUTION GAS
A-28	SESSION 4A Venue: Hall A Chairmen: Prof. Elmer Estacio & Prof. Duc Hai Tran DEVELOPMENT OF BROADBAND HIGH-RESOLUTION GAS SPECTROSCOPY SYSTEM USING HETERODYNE
A-28	SESSION 4A Venue: Hall A Chairmen: Prof. Elmer Estacio & Prof. Duc Hai Tran DEVELOPMENT OF BROADBAND HIGH-RESOLUTION GAS SPECTROSCOPY SYSTEM USING HETERODYNE DETECTION
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A-28 13:30 - 13:50	SESSION 4A Venue: Hall A Chairmen: Prof. Elmer Estacio & Prof. Duc Hai Tran DEVELOPMENT OF BROADBAND HIGH-RESOLUTION GAS SPECTROSCOPY SYSTEM USING HETERODYNE DETECTION (Invited talk) Takashi Furuya, Hideaki Kitahara, and Masahiko Tani University of Fukui, Fukui, Bunkyo 3-9-1, Japan EX-SITU ROUTE FOR ENHANCING CRITICAL CURRENT DENSITY OF MAGNESIUM DIBORIDE SUPERCONDUCTOR
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A-30	EXPERIMENTAL STUDY ON THE GENERATION AND
14:10 - 14:30	PROPAGATION OF HIGH-ORDER MICRO-OPTICAL
	VORTEX BEAM USING LEAD-BISMUTH-GALLIUM-GLASS
	NANOSTRUCTURED MASKS
	(Invited talk)
	Hue Thi Nguyen, Minh Khai cao, Thanh Tung Nguyen, Bien Chu Van,
	Bau Le Viet, Hai Tran Thi, Rafal Kasztelanicc, and Ryszard Buczynskic
	Hong Duc University, Vietnam
A-31	HIGH-DENSITY Sm ³⁺ -DOPED GLASS SCINTILLATOR FOR X-
14:30 - 14:50	RAY IMAGING APPLICATIONS
	(Invited talk)
	N. Intachai, N. Wantana, F. Khrongchaiyapum, P. Pakawanit, N.
	Chanlek, P. Kanjanaboos, H.J. Kim, S. Kothan, J. Kaewkhao
	Chiang Mai University, Thailand
A-32	FLUORINE-MODIFIED GRAPHENE-CONTAINING FILM
14:50 - 15:05	FOR SERS SENSING: PREPARATION AND
	CHARACTERIZATION BY RAMAN SPECTROSCOPY
	Huy Duc Le, Hien Thi Minh Nguyen, H. Bandarenka, V. Vartic, K.Z.
	Mamatkulov, G.M. Arzumanyan
	Joint Institute for Nuclear Research, Dubna, Russia
A-33	TWO-DIMENSIONAL RYDBERG EXCITONS IN OUT-OF-
15:05 - 15:20	PLANE MAGNETIC FIELDS
	Hoang Ngoc Cam, Nguyen Nhu Dat, and Hieu T. Nguyen-Truong
	Institute of Physics, VAST, Vietnam
15:20 - 15:35	COFFEE BREAK
A-34	PHYSICAL AND MECHANICAL PROPERTIES OF
15:35 - 15:55	GEOPOLYMER FROM RICE HUSK ASH AND FLY ASH (Invited talk)
	Sengthong Bounyavong; Keositthiphone Chanthala; Nyphonh
	Volachack; Phouvanh Souksomvang, Sackxay Sompasert; Lemthong
	Lathdavong
	National University of Laos, Laos
A-35	INVESTIGATION OF THE BARRIER HEIGHT EFFECT ON
15:55 - 16:10	THE CARRIER LIFETIME OF InxGa1-xAs/As MULTI-
	QUANTUM WELLS VIA OPTICAL PUMP TERAHERTZ PROBE SPECTROSCOPY
	Lourdes Nicole Dela Rosa, Vince Paul Juguilona, Deborah Anne Lumantas-Coladesa Karim Omambac, Gerald Angelo Catindiga, Inhee

	Maeng, Chul Kang, Hannah Bardolaza, Armando Somintac, Arnel Salvador, Chul-Sik Kee, and Elmer Estacio University of the Philippines Diliman, Philippines
A-36 16:10 - 16:25	3D-PRINTED PHASE PLATE FOR FLIP-MODE TERAHERTZ BEAM
	Kenneth Alaba, Ivan Cedrick Verona, Kristiene Joy Fernandez, Jose Mari Sebastian Arcilla, Lourdes Nicole Dela Rosa, Hannah R. Bardolaza, Rayko Ivanov Stantchev, Nathaniel P. Hermosa II, and Elmer S. Estacio University of the Philippines, Diliman, Philippines
<i>A-37</i> 16:25 - 16:45	INVESTIGATION OF ANOMALOUS AND TOPOLOGICAL
10.23 - 10.43	HALL EFFECTS (AHE/THE) USING CRYOGENIC MAGNETIC FORCE MICROSCOPY (Invited talk) Yeonkyu Lee, Chanyoung Lee, Jinyoung Yun, Shyam Raj Karullithodi, Sang-Eon Lee, Luis Balicas, Ionela Lindfors-Vrejoiu, Jeehoon Kim Pohang University of Science and Technology, Korea
A-38 16:45 - 17:00	PREPARATION OF A MULTILAYERED STRUCTURE FE ₃ O ₄ /AL ₂ O ₃ BY SELECTIVE REDUCTION IN CO GAS APPLIED TO REMOVE THE HAZARDOUS ORGANIC COMPOUNDS
	Ha An Quoc Than, Quoc Huy Thi, Phuc Nguyen Ly, Dung Phuong Ngoc Vu, Ha Nguyen Vu Minh, Long Do Nguyen Truong, Thien Huu Pham
A-39	Institute of Advanced Technology, VAST, Vietnam QUANTUM PLASMONIC-GRATING ENHANCED
17:15 – 17:30	TOPOLOGICAL HETEROJUNCTION FOR BROADBAND
	PHOTODETECTION
	Vaithinathan Karthikeyan Hong Kong Metropolitan University

SESSION B: APPLIED PHYSICS		
October 2 nd , 2025		
	SESSION 1B	
	Venue: Hall B	
	airmen: Prof. Mega Novita & Prof. Nguyen Luong Quang	
B-01	EXPLORING NOVEL APPLICATIONS OF GYROTRONS: THZ VORTEX BEAM GENERATION, THZ DISCHARGES, AND	
10:45 – 11:05	VISIBLE-LIGHT EMISSION FROM CARBON FIBER.	
	(Invited talk)	
	Masafumi Fukunari	
	University of Fukui, Japan	
B-02	CRYSTAL SCINTILLATORS FOR RADIATION DETECTION	
	(Invited talk)	
11:05-11:25	Hong Joo Kim	
	Kyungpook National University, Korea	
B-03	CYBER-PHYSICAL SYSTEMS: WHERE PHYSICS MEETS	
11:25 – 11:45	REAL_TIME INTELLIGENCE	
11.25	(Invited talk)	
	Jocelyn F. Villaverde	
	Mapua University, Philippines	
B-04	NEW RESULTS ON THE BLACK HOLE SHADOW IMAGING	
11:45 – 12:05	(Invited talk)	
	Satoki Matsushita	
	Institute of Astronomy and Astrophysics, Academia Sinica, Taiwan,	
	China	
12:05- 13:30	LUNCH	
	SESSION 2B	
	Venue: Hall B	
Chai	irmen: Prof. Jakrapong Kaewkhao & Prof. Pham Van Hoi	
B-05	AUTOMOTIVE INNOVATION DRIVEN BY PHOTONICS AND OPTOMECHATRONICS: THE EVOLUTION OF	
13:30 - 13:50	AUTOMOTIVE HEADLIGHT TECHNOLOGY: FROM	
	DESIGN-DRIVEN INNOVATION TO SENSOR-FUSED	
	SYSTEMS (Invited talk)	
	Jae Young, Joo	

	Korea Photonics Technology Institute, Mobility Lighting Center
<i>B-06</i> 13:50 - 14:10	RECENT DEVELOPMENT ON GLASS SCINTILLATOR AND POSSIBLE APPLICATION (Invited talk) Jakrapong Kaewkhao Nakhon Pathom Rajabhat University, Thailand
<i>B-07</i> 14:10 - 14:30	OBSERVATIONAL STUDY OF PLANET FORMATION AROUND YOUNG STARS WITH THE ATACAMA LARGE MILLIMETER/SUBMILLIMETER ARRAY (Invited talk) Shigehisa Takakuwa, and eDisk Team Kagoshima University, Japan
<i>B-08</i> 14:30 - 14:50	ATOMIC LAYER SCALE ANALYSIS IN NEXT-GENERATION APPLIED MATERIALS AND AN INTRODUCTION TO NOVEL EDC SCANNING IMAGING (Invited talk) Kyuwook Ihm Pohang Accelerator Laboratory, Postech, Korea
<i>B-09</i> 14:50 - 15:05	THE NICA ACCELERATOR COMPLEX AS A PLATFORM FOR APPLIED RESEARCH Slivin Aleksei, Syresin E., Filatov G., Agapov A, Butenko A., Tuzikov A., Galimov A, Kolesnikov S, Tyulkin V, Tikhomirov A, Baldin A, Khariyuyzov P, Chetverikov S, Korovkin D, Safonov A, Kulevoy T, Titarenko Y, Chumakov A, Bobrovskiy D, Pechenkin A, Soloviev S, Kubankin A, Podorozhnyi D, Kovalev I, Karmanov D, Tkachev P, Kurganov A Joint Institute for Nuclear Research, Dubna, Russian
<i>B-10</i> 15:05 - 15:20	
15:20 - 15:35	COFFEE BREAK
<i>B-11</i> 15:35 - 15:55	
<i>B-12</i> 15:55 - 16:15	PHYSICS INSIGHTS IN A COMPREHENSIVE DRUG DESIGN PIPELINE AT THE KEY LABORATORY FOR MULTISCALE SIMULATION OF COMPLEX SYSTEMS (Invited talk)

	Nguyen The Toan
	Vietnam National University - University of Science, Vietnam
B-13	ALUMINUM THIN FILMS: DEPOSITION, STRUCTURE,
16:15 - 16:35	RESISTIVITY, CRITICAL TEMPERATURE, KINETIC
	INDUCTANCE, TUNNEL JUNCTIONS
	(Invited talk)
	Mikhail. Tarasov, A. Chekushkin, M. Strelkov, D. Zhogov, A.
	Lomonosov, A. Gunbina, R. Kozulin, A. Tatarintsev, A. Lomov
	Kotelnikov Institute of Radio Engineering and Electronics of Russian Academy of Sciences, Russia
<i>B-14</i> 16:35 - 16:50	
10:35 - 10:50	Andrey Baginyan, Arseniy Chechetkin
	Joint Institute for Nuclear Research, Dubna, Russian
B-15	APPLIED AND ENGINEERING PHYSICS ON SCANNING XRF
16:50 – 17:10	FOR ANCIENT MURAL PAINTING INVESTIGATION
	(Invited talk)
	Somchai Tancharakorn, Wutthikrai Busayaporna, Waraporn
	Tanthanucha, Jureerat Pradabsria
	Synchrotron Light Research Institute, Thailand
B-16	
17:10 - 17:25	AND FIRST RESULTS OBTAINED AT HIGH RESOLUTION FOURIER DIFFRACTOMETER FACILITY
	C. V. Hai, V. I. Bodnarchuck, A. A. Bogdzell, O. Daulbaev, V. M.
	Milkov, M. M. Podlesnyy
	Joint Institute for Nuclear Research, Dubna, Russian
	October 3 rd , 2025
	SESSION 3B
	Venue: Hall B
Chairme	en: Prof. Jacque Lynn F Gabayno & Prof. Nguyen Hoang Nam
B-17	BIM STANDARDIZATION FOR DAYLIGHT LOUVER SYSTEM
08:30 - 08:50	(Invited talk) Meeryoung Cho, Intae Kim
	Korea Photonics Technology Institute, Gwangju, Korea
B-18	
08:50 - 09:10	ENVIRONMENTAL CONTROL TECHNIQUES FOR SMART AGRICULTURE IN VIETNAM
	(Invited talk)
	Tran Quoc Tien, Tong Quang Cong, Vu Thi Nghiem, Nguyen Manh
	Hieu, Vu Hoang, Kieu Ngoc Minh, Pham Van Truong, Le Anh Tua,
	Pham Hong Duong, Pham Bich Ngoc, Do Tien Phat, Chu Hoang Ha,

	Chu Thi Thu Ha, Do Thi Gam, Vu Ngoc Hai, Nguyen Thanh Phuong,
	Shin Seoyong
	Institute of Materials Science, VAST, Vietnam
<i>B-19</i> 09:10 - 09:30	SPECTRAL LINE SURVEYS OF CARBON STARS AND STARFORMING REGIONS WITH A ULTRA-WIDEBAND, HIGH-SENSITIVITY Q-BAND RECEIVER, EQ (Invited talk) Fumitaka Nakamura, Kotomi Taniguchi (NAOJ), Chau-Ching Chiong, Sheng-Yuan Liu (ASIAA), Quang Nguyen Luong (SAGI/Sacley) and eQ team. National Astronomical Observatory of Japan, Japan
B-20	•
09:30 - 09:50	ĐẾN ĐĂNG KÝ SÁNG CHẾ ĐỘC QUYỀN
	(Invited talk) Phạm Văn Hội, Phạm Thanh Bình, Nguyễn Thúy Vân
	Viện Khoa học Vật liệu, Viện Hàn lâm Khoa học và Công nghệ Việt Nam
D 41	
B-21	ENHANCING INDOOR PLANT PHYSIOLOGY WITH FIBER OPTIC DAYLIGHTING
9:50 - 10:05	Kamaruddin Hafiz Muhammad
	Fakulty of Science, Universiti Teknologi Malaysia
	SVNTHESIS AND APPLICATION OF DRUMLLIKE 7nO/Ag
B-22	SYNTHESIS AND APPLICATION OF DRUM-LIKE ZnO/Ag HYBRID MATERIAL FOR CHLORPYRIFOS-ETHYL
B-22 10:05 – 10:20	HYBRID MATERIAL FOR CHLORPYRIFOS-ETHYL DETECTION
	HYBRID MATERIAL FOR CHLORPYRIFOS-ETHYL DETECTION Pham Thi Nga, Vu Xuan Hoa, Pham Thi Thu Ha, Tran Thu Trang,
	HYBRID MATERIAL FOR CHLORPYRIFOS-ETHYL DETECTION Pham Thi Nga, Vu Xuan Hoa, Pham Thi Thu Ha, Tran Thu Trang, Nguyen Trọng Nghia, Nguyen Duc Toan, Lai Tong Anh Kiet, Ngo Thi Lan, Nguyen Vu Anh Tuyet, Do Duc Nguyen, Hoang Duy Long, Ngo
	HYBRID MATERIAL FOR CHLORPYRIFOS-ETHYL DETECTION Pham Thi Nga, Vu Xuan Hoa, Pham Thi Thu Ha, Tran Thu Trang, Nguyen Trọng Nghia, Nguyen Duc Toan, Lai Tong Anh Kiet, Ngo Thi Lan, Nguyen Vu Anh Tuyet, Do Duc Nguyen, Hoang Duy Long, Ngo To Uyen, Nguyen Dac Dien
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10:05 - 10:20 10:20 - 10:35	HYBRID MATERIAL FOR CHLORPYRIFOS-ETHYL DETECTION Pham Thi Nga, Vu Xuan Hoa, Pham Thi Thu Ha, Tran Thu Trang, Nguyen Trọng Nghia, Nguyen Duc Toan, Lai Tong Anh Kiet, Ngo Thi Lan, Nguyen Vu Anh Tuyet, Do Duc Nguyen, Hoang Duy Long, Ngo To Uyen, Nguyen Dac Dien TNU-University of Sciences, Vietnam COFFEE BREAK Si PHOTONICS APPLIED TO MINIATURIZED MMWAVE-OVER-FIBER ANTENNA-IN-PACKAGE
10:05 - 10:20 10:20 - 10:35 <i>B-23</i>	HYBRID MATERIAL FOR CHLORPYRIFOS-ETHYL DETECTION Pham Thi Nga, Vu Xuan Hoa, Pham Thi Thu Ha, Tran Thu Trang, Nguyen Trọng Nghia, Nguyen Duc Toan, Lai Tong Anh Kiet, Ngo Thi Lan, Nguyen Vu Anh Tuyet, Do Duc Nguyen, Hoang Duy Long, Ngo To Uyen, Nguyen Dac Dien TNU-University of Sciences, Vietnam COFFEE BREAK Si PHOTONICS APPLIED TO MINIATURIZED MMWAVE-OVER-FIBER ANTENNA-IN-PACKAGE (Invited talk)
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10:05 - 10:20 10:20 - 10:35 B-23 10:35 - 10:55	HYBRID MATERIAL FOR CHLORPYRIFOS-ETHYL DETECTION Pham Thi Nga, Vu Xuan Hoa, Pham Thi Thu Ha, Tran Thu Trang, Nguyen Trọng Nghia, Nguyen Duc Toan, Lai Tong Anh Kiet, Ngo Thi Lan, Nguyen Vu Anh Tuyet, Do Duc Nguyen, Hoang Duy Long, Ngo To Uyen, Nguyen Dac Dien TNU-University of Sciences, Vietnam COFFEE BREAK Si PHOTONICS APPLIED TO MINIATURIZED MMWAVE-OVER-FIBER ANTENNA-IN-PACKAGE (Invited talk) Ming-Chang M. Lee, Kai-Ming Feng, and Jenny Yi-Chun Liu National Tsing-Hua University, Taiwan, China IMPLEMENTING MODEL CONTROL PROTOCOLS IN
10:05 - 10:20 10:20 - 10:35 B-23 10:35 - 10:55	HYBRID MATERIAL FOR CHLORPYRIFOS-ETHYL DETECTION Pham Thi Nga, Vu Xuan Hoa, Pham Thi Thu Ha, Tran Thu Trang, Nguyen Trọng Nghia, Nguyen Duc Toan, Lai Tong Anh Kiet, Ngo Thi Lan, Nguyen Vu Anh Tuyet, Do Duc Nguyen, Hoang Duy Long, Ngo To Uyen, Nguyen Dac Dien TNU-University of Sciences, Vietnam COFFEE BREAK Si PHOTONICS APPLIED TO MINIATURIZED MMWAVE-OVER-FIBER ANTENNA-IN-PACKAGE (Invited talk) Ming-Chang M. Lee, Kai-Ming Feng, and Jenny Yi-Chun Liu National Tsing-Hua University, Taiwan, China IMPLEMENTING MODEL CONTROL PROTOCOLS IN WIRELESS SENSOR NETWORKS: A FOUNDATIONAL

	Mapua University, Philippines
<i>B-25</i> 11:10 - 11:30	INTRODUCTION TO THE DEVELOPMENT OF LIDAR SENSOR FOR AUTONOMOUS DRIVING (Invited talk) Nan Ei YU Gwangju Institute of Science and Technolgy, Korea
B-26	DEVELOPMENT OF A TUNABLE MONOCHROMATIC X- RAY SOURCE FOR PIXELATED SEMICONDUCTOR
11:30 - 11:45	DETECTOR CALIBRATION Truong Hoai Bao Phi Institute of Physics, VAST, Vietnam
B-27	JINR DLNP LINEAR ELECTRON ACCELERATOR
11:45-12:00	(LINAC): STATUS OF THE COMMISSIONING AND
	OUTLOOK Nordrin M.A. Voheta V.V. Acceta M.E. Afenesiav A.V. Deultwo
	Nozdrin M.A., Kobets V.V., Acosta M.E., Afanasiev A.V., Brukva A.E., Bunyatov K.S., Garanzha N.I., Demin D.L., Dyatlov A.S.,
	Zhuravlev P.P., Nadgerieva S.D., Skrypnik A.V., Stankus A.S.,
	Trifonov A.N., Ulankin A.A., Shabratov V.G., Shokin D.S., Yunenko
	K.E., Glagolev V.V. Joint Institute for Nuclear Research, Dubna, Russia
11:55 - 13:30	T TINIOTT
11:33 - 13:30	LUNCH CECCION AD
11.33 - 13.30	SESSION 4B
	SESSION 4B Venue: Hall B Chairmen: Prof. Hong Joo Kim & Prof Tran Quoc Tien PM10 DISPERSION USING DIGITAL ELEVATION MODEL AND PHYSICAL SOLAR MODEL V3 FOR REMOTE AIR QUALITY MONITORING
B-28	SESSION 4B Venue: Hall B Chairmen: Prof. Hong Joo Kim & Prof Tran Quoc Tien PM10 DISPERSION USING DIGITAL ELEVATION MODEL AND PHYSICAL SOLAR MODEL V3 FOR REMOTE AIR
B-28	SESSION 4B Venue: Hall B Chairmen: Prof. Hong Joo Kim & Prof Tran Quoc Tien PM10 DISPERSION USING DIGITAL ELEVATION MODEL AND PHYSICAL SOLAR MODEL V3 FOR REMOTE AIR QUALITY MONITORING (Invited talk) Kristofer R Sano, Cris Edward F. Monjardin, Jacque Lynn F Gabayno

	V.V.Glagolev, M.I.Gostkin, D.L.Demin, V.V.Kobets, M.A.Nozdrin, S.V.Shvidkiy, K.S.Bunyatov, E.A.Yakushev, A.S.Zhemchugov <i>Joint Institute for Nuclear Research, Dubna, Russia</i>
<i>B-31</i> 14:25 - 14:45	THE SPATIAL INHOMOGENEITY OF THE PBL OBSERVED BY VEHICLE-BASED DOPPLER WIND LIDAR DURING ASIA- AQ-TAIWAN (Invited talk) Wei-Nai Chen, Fujung Tsai, Ming-Tung Chuang National Taiwan Ocean University, Taiwan, China
<i>B-32</i> 14:45 - 15:05	MICROSCALE LEDS – FABRICATION AND THEIR USE IN PHOTOTHERAPY (Invited talk) Hoang-Duy Nguyen and Hieu Pham Trung Nguyen
P. 00	Institute of Advanced Technology, VAST, Viet Nam
<i>B-33</i> 15:05 - 15:20	NEUTRON ACTIVATION ANALYSIS IN LONG-PERIOD STUDY OF MUSSEL CONTENT FOR SOUTH AFRICA AND RUSSIA Pave Nekhoroshkov, Jacques Bezuidenhout, Rikus le Roux, Inga Zinicovscaia, Nikita Yushin Joint Institute for Nuclear Research, Dubna, Russia
15:20 - 15:35	COFFEE BREAK
<i>B-34</i> 15:35 - 15:55	
	DEVELOPMENT OF WOUND HEALING TECHNIQUES USING STEM-CELL SPRAY GUN AND BIO- NANOMEMBRANES (Invited talk) Nguyen Hoang Nam, Luu Manh Quynh, Pham Van Thanh, Phi Thi Huong, Phi Thi Huong, Hoang Van Huy, Nguyen Tien Dat, Do Dieu Linh, Than Thi Trang Uyen, Do Xuan Hai, Hoang Thi My Nhung

<i>B-37</i> 16:35 - 16:55	EFFECTIVENESS OF PAINT COATING ON ROOF TILES IN REDUCING TEMPERATURE (Invited talk) Sigit Ristanto, Slamet Supriyadi, Bayu Arie Wibawa Universitas PGRI Semarang, Indonesia
B-38	
16:55- 17:15	
	(Invited talk)
	Wutthikrai Busayaporn, Somchai Tancharakorna, Waraporn Tanthanucha, Jureerat Pradabsria
	Synchrotron Light Research Institute, Thailand
B-39	ADVANCED RESEARCH AND INNOVATIONS AT THE V.P.
17:15- 17:30	DZHELEPOV LABORATORY OF NUCLEAR PROBLEMS,
	JINR
	Karen Bunyatov, Vladimir Glagolev
	Joint Institute for Nuclear Research, Dubna, Russia

	POSTER SESSION I	
	October 2 nd , 2025	
	14:30-17:00	
	Chairmen: Prof. Joo Jae-Young & Dr. Pham Van Duong	
PI-01	MULTIFUNCTIONAL THIN FILM FOR ENHANCING ICEPHOBIC AND WATER HARVESTING Vu Thi Hong Hanh, Do Thuy Chi, Duong Thi Ha, Giap Thi Thuy Trang, Dang Van Sang, Thanh-Binh Nguyen Thai Nguyen University of Education, Vietnam	
PI-02	STUDY OF SPECTRUM MODELING FOR IMPROVING THE COLOR RENDERING INDEX OF COOL WHITE LIGHT SPECTRUM OF WHITE LEDS AT CCT OF 7500 K Vo-Hoang-Phuc Nguyen, Thanh-Nhan Huynh, Chi-Linh Nguyen, Nguyet-Thuan Phan, Van-Tuan Huynh, Huynh-Tuan-Anh Nguyen, Quang-Khoi Nguyen VNUHCM-University of Science, Vietnam	
PI-03	ALGORITHM FOR NUMERICAL CALCULATION OPTIMUM ON SPEED MANAGEMENT OF NONLINEAR OBJECTS Nguyen Trung Thanh Academy of Military Science and Technology, Vietnam	
PI-04	SYNTHESIS OF FEW-LAYER MoS ₂ DOPING REES BY CVD: STRUCTURAL AND OPTICAL CHARACTERIZATION VIA RAMAN SPECTROSCOPY Huy Duc Le, Hien Thi Minh Nguyen, Victoria Vartic, Kahramon Mamatkulov, Grigory Arzumanyan Institute of Physics, VAST Joint Institute for Nuclear Research, Dubna, Russia.	
PI-05	DESIGN AND OPTIMIZATION OF A COMPACT VARIABLE-DIVERGENCE GALILEAN OPTICAL SYSTEM FOR ELECTRO-OPTICAL DEVICE DETECTION Pham Thanh Quang, Tran Quoc Tuan, Ho Quang Quy Academy of Military Science and Technology, Vietnam	
PI-06	TỔNG HỢP XANH VÀ TÍNH CHẤT QUANG NHIỆT CỦA CHẤT LỎNG NANO CHỨA VẬT LIỆU LAI GO VÀ HẠT NANO ĐỒNG Nguyễn Thị Ngọc Mai, Phạm Thế Tân, Đỗ Tuấn, Bùi Hùng Thắng, Phan Ngọc Minh, Trịnh Thị Lình, Trần Thu Trang, Phạm Văn Trinh và Nguyễn Văn Hảo Đại học Thái Nguyên, Việt Nam	
	DESIGN AND OPTIMIZATION OF A COMPACT VARIABLE DIVERGENCE GALILEAN OPTICAL SYSTEM FOR ELECTRO-OPTICAL DEVICE DETECTION Pham Thanh Quang, Tran Quoc Tuan, Ho Quang Quy Academy of Military Science and Technology, Vietnam TÔNG HỢP XANH VÀ TÍNH CHẤT QUANG NHIỆT CỦA CHẤT LỎNG NANO CHỨA VẬT LIỆU LAI GO VÀ HẠT NANO ĐỒNG Nguyễn Thị Ngọc Mai, Phạm Thế Tân, Đỗ Tuấn, Bùi Hùng Thắng, Pha Ngọc Minh, Trịnh Thị Lình, Trần Thu Trang, Phạm Văn Trinh v	

PI-07	NGHIÊN CỬU CHẾ TẠO VẬT LIỆU HYDROGEL TRÊN NỀN HYDROXYAPATITE TÍCH HỢP VỚI HẠT NANO OXIT SẮT TỪ Fe ₃ O ₄ LÀM MỰC IN 3D ĐỊNH HƯỚNG ỨNG DỤNG TRONG TÁI TẠO MÔ XƯƠNG VÀ ĐIỀU TRỊ UNG THƯ XƯƠNG Mai Thị Thu Trang, Phan Kế Sơn, Đồng Thị Nhâm, Phạm Hồng Nam, Hà Phương Thư, Đỗ Thị Anh Thư Viện khoa học vật liệu, VAST, Việt Nam
PI-08	DESIGN OF COLLIMATING AND BEAM-EXPANDING AFOCAL SYSTEMS ENHANCED BY NONLINEAR ASPHERICAL LENSES Pham Thanh Quang, Nguyen Manh Thang, Ho Quang Quy Institute of Defence Equipment, Academy of Military Science and Technology
PI-09	DESIGN OF AN UNDERWATER OBSERVATION SYSTEM BASED ON THE RANGE-GATED LASER IMAGING TECHNOLOGY Tran Thu Trang, Le Van Hoang, Nguyen Hong Hanh Institute of Defence Equipment, Academy of Military Science and Technology
PI-10	TRACKING THE ISOMERIZATION PROCESS OF HCN BY HHG SPECTRUM SIMULATIONS Hai Thi Huynh, Doan-An Trieu, Ngoc Loan Phan Ho Chi Minh City University of Technology and Education, Vietnam
PI-11	ELECTRONIC STRUCTURE, AND OPTICAL AND MAGNETIC PROPERTIES OF EU-DOPED TIO ₂ T. L. Phan, T. H. Nguyen, B. D. Tu, and H. N. Nhat VNU University of Engineering and Technology, Viet Nam
PI-12	INVESTIGATION OF CATALYTIC PEROXIDASE-MIMICKING BEHAVIOR OF GOLD NANOPARTICLES Nguyen Vu Anh Tuyet, Tran Thu Trang, Vu Xuan Hoa, Pham Thi Thu Ha, Lai Tong Anh Kiet, Do Duc Nguyen, Hoang Duy Long, Pham Thi Nga, Nguyen Dac Dien, Hoang Ngoc Kim Chau, Tran Hai Nam, Nguyen Tien Dong, Tran Quang Huy TNU-University of Sciences, Vietnam
PI-13	RONG BIỂN VIỆT NAM: SỐ HÓA DỮ LIỆU TỪ MẪU TIÊU BẢN PHỤC VỤ HỆ THỐNG TRA CỨU KHOA HỌC TRÊN ĐIỆN THOẠI Võ Tấn Thông, Đoàn Phan Thảo Tiên, Trương Anh Khoa, Nguyễn Hoàng, Ngô Thị Nhung, Nguyễn Thành Nghiêm và Phan Minh Phương Viện Hải dương học, VAST, Việt Nam

PI-14	ENHANCED RADIATION PRESSURE ON A GRAPHENE LAYER INSERTED INSIDE AN EMPTY OPTICAL MICROCAVITY Le Tri Dat, Luong Hoang Sang, Vinh N.T. Pham, Nguyen Duy Vy Dong Nai Technology University, Vietnam
PI-15	FEASIBILITY ANALYSIS OF A PULSE LASER ALTIMETER FOR SEA SURFACE RANGING IN FOG AND SMOKE Nguyen Duc Tung Academy of Military Science and Technology, Vietnam
PI-16	AN EFFICIENT METHOD FOR IRRADIANCE MODELING OF ULTRAVIOLET LIGHT-EMITTING DIODES Quang-Khoi Nguyen, Thao-Ngoc Nguyen, Vo-Diem-My Pham (1,2), Chi-Linh Nguyen, Thanh-Nhan Huynh, Van-Tuan Huynh, Nguyet-Thuan Phan, Huynh-Tuan Anh Nguyen VNUHCM-University of Science, Vietnam
PI-17	COMBINED EFFECT OF DNA REPAIR INHIBITORS IN ENHANCEMENT OF RADIOSENSITIVITY OF THE CELL BY INDUCING DNA DOUBLE-STRAND BREAKS Pham Thi Duyen, A.V. Boreyko, V.N. Chausov, R.A. Kozhina, E.A. Kuzmina, D.D. Shamina, S.I. Tiounchik Joint institute for nuclear research, Dubna, Russia
PI-18	EFFECT OF pH ON THE MOLECULAR PROPERTIES OF MESO SILVER PARTICLES FOR SERS DETECTION OF 2-NAPHTHALENETHIOL Nguyen Thi Hang Nga, Nguyen Thi Bich Ngoc, Nguyen Thi Thuy, Nguyen Trong Nghia, Nguyen Duc Toan, Doan Cat Cong, Nghiem Thi Ha Lien, Vu Duong Thuyloi University, Hanoi, Vietnam
PI-19	MỘT SỐ KẾT QUẢ NGHIÊN CỨU ĐIỀU KHIỂN MODULE LA BÀN ỨNG DỤNG TRONG ỐNG NHÒM KỸ THUẬT SỐ ĐA NĂNG Lê Văn Thế Viện Khoa học và Công nghệ Quân sự
PI-20	CHEMICAL AND PHYSICAL PROPERTIES ANALYSIS OF NATURAL DOLOMITE VANG VIENG, LAO PDR Keositthiphone Chanthala; Sengthong Bounyavong; Sounthone Singsoupho; Sackxay Sompaserth; Khamla Khanthavy, Lemthong Lathdavong National University of Laos
PI-21	STUDY OF THE OPTICAL MODEL OF A RED LED EMITTING AN ASYMMETRIC EMISSION BAND

	Quang-Khanh Nguyen, Minh-Triet Nguyen, Thi-Hanh-Thu Vu, Chi- Linh Nguyen, Thanh-Nhan Huynh, Van-Tuan Huynh, Nguyet-Thuan Phan, Huynh-Tuan Anh Nguyen, Quang-Khoi Nguyen VNUHCM-University of Science
PI-22	Ce ³⁺ /Dy ³⁺ CO-DOPED BOROPHOSPHATE GLASS SCINTILLATORS FOR HIGH-PERFORMANCE X-RAY IMAGING F. Khrongchaiyaphum, N. Wantana, P. Pakawanit, C. Phoovasawat, N. Chanthima, N. Intachai, S. Kothan, H. J. Kim, J. Kaewkhao Center of Excellence in Glass Technology and Materials Science (CEGM), Nakhon Pathom Rajabhat University, Thailand
PI-23	CAMOUFLAGE DESIGN FOR GROUND VEHICLES BASED ON VISUAL PERCEPTION AND BACKGROUND CHARACTERISTICS Nguyen Anh Tuan Academy of Military Science and Technology
PI-24	DESIGN OF A SINGLE FREEFORM SURFACE IMAGING SYSTEM FOR NEAR-EYE DISPLAYS USING RADIAL BASIS FUNCTIONS Vo Quang Sang Le Quy Don Technical University
PI-25	A STUDY ON BUILDING MULTISPECTRAL IMAGING MODEL FOR CAMOUFLAGE DETECTION USING EMISSION SPECTRA ANALYSIS Le Van Hoang Academy of Military Science and Technology, Vietnam
PI-26	MEMORY CHARACTERISTICS OF LTPS MNNOS NON-VOLATILE MEMORY DEVICES WITH OPTIMIZED TUNNELING AND BLOCKING LAYERS FOR AMOLED DISPLAY APPLICATIONS Nguyen Trong Tan Academy of Military Science and Technology, Vietnam
PI-27	A COMBINED APPROACH USING K-MEANS ++ AND CLUSTERING EVALUATION METRICS FOR COLOR PALETTE EXTRACTION FROM UAV IMAGERY Nguyen Thanh Lam, Vu Huu Khanh Academy of Military Science and Technology, Vietnam
PI-28	PHYSICALS AND MECHANICAL PROPERTIES OF GEOPOLYMER FROM RICE HUSH ASH AND FLY ASH Sengthong Bounyavong, Keositthiphone Chanthala, Nyphonh Volachacka, Phouvanh Souksomvanga, Sackxay Sompaserta, Lemthong Lathdavonga National University of Laos

POSTER SESSION II		
	October 3 rd , 2025	
	14:30 – 17:00	
	Chairmen: Prof. Nan Ei Yu & Dr. Nguyen Thi Minh Hien	
PII-01	DESIGN OF A HIGH-PRESSURE FLAT CIRCULAR OPTICAL WINDOW FOR UNDERWATER OBSERVATION DEVICES Le Van Hoang Academy of Military Science and Technology, Vietnam	
PII-02	THE EFFECT OF CHANNEL LENGTH ON ELECTRICAL CHARACTERISTICS AND THE IMPROVING SHORT CHANNEL NONVOLATILE MEMORY DEVICES ON THE GLASS BY SELF-ALIGNED OFFSET GATED STRUCTURE Nguyen Trong Tan, Đang Ngoc Son Institute of Defence Equipment, Academy of Military Science and Technology	
PII-03	INVESTIGATION OF MAGNETORESISTANCE ANOMALIES IN CRSBSE ₃ USING LOW-TEMPERATURE VECTOR- MAGNET MFM Chanyoung Lee, SungWoo Hong, Beomtak Kang, Yeonkyu Lee, Jinyoung Yun, Junsung Kim,Jeehoon Kim Pohang University of Science and Technology, Korea	
PII-04	RESEARCH ON THE EFFECT OF SURFACE TEMPERATURE ON THE EMISSIVITY OF THERMAL CAMOUFLAGE FABRICS Tong Minh Hoa, Bui Dinh Bao Institute of Defence Equipment/Academy of Military Science and Technology	
PII-05	RESEARCH RESULTS ON THE FABRICATION OF DIELECTRIC THIN FILMS FOR NVM DEVICES USING PLASMA CVD SYSTEM Nguyen Trong Tan Institute of Defence Equipment, Academy of Military Science and Technology	
PII-06	FABRICATION OF A MULTIDIRECTIONAL VIBRATION ENERGY HARVESTER BASED ON TRIBOELECTRIC NANOGENERATORS Nguyen Van Toan, Do Duc Tam, Pham Duc Thanh, Vu Tuan Phong, Nguyen Thanh Nam Le Quy Don Technical University, Vietnam	
PII-07	EFFECTS OF PARTICLE SIZE ON LOCALIZED SURFACE PLASMON RESONANCES IN SPHERICAL SILVER NANOPARTICLES Nguyen Thanh Lam	

	Institute of Defence Equipment, Academy of Military Science and Technology
PII-08	AERODYNAMIC PASSIVE METHOD FOR DRAG REDUCTION OF A CIRCULAR CYLINDER Do Xuan Doanh Academy of Military Science and Technology, Vietnam
PII-09	HYDROGEN CYANIDE DETECTION BY M ₂ CO ₂ (M = Sc, Ti, V) MXENES Tung Thanh Nguyen, Phat Tan Nguyen, Thong Nguyen Minh Le Institute for Advanced Study in Technology, Ton Duc Thang University, Vietnam
PII-10	DETERMINATION OF SPECULAR REFLECTION PROPERTIES OF THE SEA SURFACE FOR OPTICAL OIL SPILL DETECTION Nguyen Duc Tung Academy of Military Science and Technology, Vietnam
PII-11	STUDY ON THE OPTICAL SYSTEM CONFIGURATION FOR THE DESIGN AND FABRICATION OF A GUIDANCE AND CONTROL ASSEMBLY FOR A TUBE-LAUNCHED AERIAL PLATFORM Bui Dinh Bao, Hoang Van Phong, Le Ngoc Cuong, Ha Nguyen Binh Le Quy Don Technical University
PII-12	THEORETICAL ANALYSIS OF THE FLOW STRUCTURE IN COMPRESSIBLE COUETTE-TAYLOR VORTICES Do Xuan Doanh, Do Ngoc Lam, Tong Minh Hoa Academy of Military Science and Technology, Vietnam
PII-13	EXCITATION POWER-DEPENDENT COMPETITION BETWEEN EXCITON RECOMBINATION CHANNELS IN QUASI-TYPE I CDSE NANOTETRAPODS Le Ba Hai, Nguyen Thi Luyen, Nguyen Thị Thuy Lieu, Nguyen Thi Minh Hien, Nguyen Xuan Nghia Khanh Hoa Physics Sub-Association, Viet Nam
PII-14	HIGH-MOBILITY GALLIUM-DOPED ZNO THIN FILMS VIA DC MAGNETRON SPUTTERING AT ELEVATED SUBSTRATE TEMPERATURES Liem Quang Tran, Giau Thi Nguyen, Nghi Duc Bui, Quan Thoai Ngoc Nguyen, Tham Ngoc Ly, Dung Van Hoang Tam Bang Thi Dao, Anh Tuan Thanh Pham, Phuong Tuyet Nguyen, Vinh Cao Tran, Truong Huu Nguyena Laboratory of Advanced Materials, University of Science, Ho Chi Minh City, Vietnam
PII-15	GROWTH AND THERMOELECTRIC TRANSPORT PROPERTIES OF Bl ₂ TE ₃ -SB ₂ TE ₃ SUPERLATTICES Thi Huong Nguyen, The Long Phan

	Department of Physics, Nha Trang University, Vietnam
PII-16	RAMAN SPECTROSCOPY FOR METHANOL DETECTION: 1D VS 2D CNN PERFORMANCE EVALUATION Dinh Thai Tuan, Vu Duong VNU Hanoi University of Science, Viet Nam
PII-17	APPLICATION OF MACHINE LEARNING IN THE RECOGNITION OF KNEE INJURIES BASED ON INERTIAL SENSOR DATA Nguyen Thuy Trang, Pham Thi Duyen, Le Binh Minh, Nguyen Trong Hieu, Vu Tien Dung, Nguyen Quang Linh, Nguyen Anh Duong, Nguyen Xuan Tu and Vu Duong University of Science, Vietnam National University Hanoi
PII-18	MỘT SỐ KẾT QUẢ NGHIÊN CỨU ĐIỀU KHIỂN TÍN HIỆU ẢNH NHIỆT TRÊN CƠ SỞ TỐI ƯU HỆ QUANG Lê Văn Thế Viện Khoa học và Công nghệ Quân sự
PII-19	MỘT SỐ KẾT QUẢ ĐÁNH GIÁ, THỬ NGHIỆM DỰA TRÊN MÔ HÌNH CRF TRONG BÀI TOÁN TRÍCH RÚT THÔNG TIN Lê Văn Thế Viện Khoa học và Công nghệ Quân sự
PII-20	PRODUCTION CAPABILITY OF MEDICAL RADIONUCLIDES AT THE LINAC ACCELERATOR Ayagoz Baimukhanova, Elena Kurakina, Atanas Velichkov, Dimitr Karaivanov, Hamad Alshoubaki, Gazimagomed Magomedov, Jurabek Khushvaktov, Dmitry Filosofov Joint Institute for Nuclear Research, Russia
PII-21	IMPACT OF NONLINEAR MATERIAL PROPERTIES ON KERR-BASED ASPHERICAL LENS PERFORMANCE Pham Thanh Quang, Mai Nguyet Cong, Ho Quang Quy Academy of Military Science and Technology
PII-22	APPLICATION OF FPGA TECHNOLOGY TO THE DESIGN AND DEVELOPMENT OF AN ADAPTIVE INTERFACE MODULE (MAI) FOR THE PASSIVE RADAR SYSTEM Nguyen Trung Thanh Academy of Military Science and Technology, Vietnam
PII-23	EMODELING FLUE GAS DISPERSION FROM THE SERAPHIN WASTE TO ENERGY PLANT USING AERMOD: OPERATIONAL SCENARIO ANALYSIS Nguyen Thị Thuy Hang, Ngo Tra Mai, Khuat Thi Hong, Nguyen Thi Hoa, Nguyen Thi Minh Hien, Nghiem Van Khanh, Nguyen Thi Thao Institute of Physic, VAST, Vietnam
PII-24	A COMPARATIVE STUDY ON REDUCING FOCAL LENGTH THERMAL SENSITIVITY (ΔF/F) IN LWIR OPTICAL SYSTEMS WITH GERMANIUM AND CHALCOGENIDE MATERIALS

	Le Ngoc Cuong, Hoang Van Phong, Pham Thanh Quang Academy of Military Science and Technology, Vietnam
PII-25	DETECTION OF CLOTRIMAZOLE ANTIBIOTIC USING SERS SENSORS SYNTHESIZED BY LASER TECHNIQUE Tran Trong Duc, Nguyen Minh Chien, Nguyen Thi Huong Giang, Nguyen The Binh VNU University of Science
PII-26	EVALUATING MWIR SIGNATURE SUPPRESSION BY MULTILAYER CAMOUFLAGE SYSTEMS ON GROUND VEHICLES Nguyen Anh Tuan Academy of Military Science and Technology, Vietnam
PII-27	SYNTHESIS AND APPLICATION OF TRANSPARENT CONDUCTIVE ZNO THIN FILMS CO-DOPED WITH GALLIUM AND FLUORINE AS ELECTRODES IN DYE-SENSITIZED SOLAR CELLS (DSSCS) Quan Thoai Ngoc Nguyen, Thien Quoc Luong, Nghi Duc Bui, Truc Thanh Thi Dang, Tam Bang Thi Dao, Dung Hoang Van, Vinh Cao Tran, Phuong Tuyet Nguyen, Truong Huu Nguyen. Academy of Military Science and Technology, Vietnam
PII-28	STUDY ON AERODYNAMIC DRAG REDUCTION FOR THE CESSNA 172 AIRCRAFT Do Xuan Doanh Academy of Military Science and Technology, Vietnam
PII-29	EFFECT OF ANNEALING-INDUCED LOCAL ASYMMETRY ON THE PHOTOLUMINESCENCE OF EU ³⁺ -DOPED TELLURO-SILICATE GLASSES W. Wongwan, P. Yasaka, W. Busayaporn, N. Intachai, S. Kothan, and J. Kaewkhao Nakhon Pathom Rajabhat University, Thailand
PII-30	REAL-TIME, LABEL-FREE MONITORING OF SINGLE-CELL PROGRESSION Saw Lin Oo Department of Physics & Universities' Research Centre, University of Yangon, Myanmar