# PROGRAM

## Wednesday–October 4, 2017

<table>
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<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>13:30-17:00</td>
<td>- Arrival and check in&lt;br&gt;- Registration at University of Da Lat&lt;br&gt;- The visit at DaLat Nuclear Research Institute will be organized (departure 2.00 pm)</td>
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## Thursday–October 5, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>07:30-08:30</td>
<td>Registration</td>
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<tr>
<td>08:00–08:30</td>
<td>Music performance</td>
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<tr>
<td>08:30-10:10</td>
<td><strong>Official Opening</strong> <em>(Prof. Tran Dai Lam, Prof. Lam Quang Vinh)</em>&lt;br&gt;- Welcoming Speech Prof. Dr. Nguyen Duc Hoa, Rector Da Lat University&lt;br&gt;- Speech by Prof. Dr. Huynh Thanh Dat, President VNU HCM,&lt;br&gt;- Opening speech Prof. Dr. Nguyen Dai Hung, Conference President, VSP&lt;br&gt;- Introduction of University of Yangon, Myanmar Prof. Khinkhin Win&lt;br&gt;- Introduction of University of Philippines, Philippines Prof. Elmer S.Estacio&lt;br&gt;- Introduction of Graduate University of Science &amp;Technology Prof. Tran Dai Lam&lt;br&gt;- CONFERENCE PHOTOGRAPH</td>
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<tr>
<td>10:10–10:30</td>
<td>COFFEE BREAK</td>
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REPORT SESSION

Chairperson: Dr. Anusara Srisrual (KMUTNB - Thailand)
Dr. Pham Hong Minh (IOP, VAST- Vietnam)

O-04
10:30 - 10:55
NUMERICAL INVESTIGATION OF THE ELECTRONIC BAND STRUCTURES OF THE ULTRAVIOLET LASER HOST CRYSTALS: LiCaAlF₆ AND LiSrAlF₆

(Invited Talk)

Marilou Cadatal-Raduban, Mui Viet Luong, Melvin John F. Empizo, Yuki Minami, Toshihiko Shimizu, Nobuhiko Sarukura, Minh Hong Pham, Hung Dai Nguyen, Yoshiyuki Kawazoe, Krista Grace Steenbergen, Peter Schwerdtfeger

Centre for Theoretical Chemistry and Physics, Institute of Natural and Mathematical Sciences, Massey University, New Zealand
Institute of Laser Engineering, Osaka University, Japan
Institute of Physics, Vietnam Academy of Science and Technology, Vietnam
Institute for Materials Research, Tohoku University, Japan
New Industry Creation Hatchery Center, Tohoku University, Japan

O-05
10:55 – 11:10
PLASMONIC ABSORBERS FOR ENERGY CONVERSION DEVICES

Thang Duy Dao, Kai Chen, Shatoshi Ishii, Anh Tung Doan, Tadaaki Nagao
International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), 1-1 Namiki, Tsukuba, Ibaraki 305-0044, Japan
Condensed Matter Physics, Graduate School of Science, Hokkaido University, Kita 8, Nishi 5, Kita-ku, Sapporo 060-0810, Japan.

O-06
11:10 – 11:25
FABRICATION OF POTENTIOMETRIC GLUCOSE BIOSENSOR BASED ZnO NANORODS

Sar Chamrong and Khun Kimleang
Faculty of Science, Royal University of Phnom Penh, Cambodia
O-07  MULTI-SHAPE SILVER NANOPARTICLES SYNTHESIZED BY PHOTOINDUCED METHOD UNDER THE IRADIATION OF GREEN LED

11:25 – 11:40

Nguyen Thi Bich Ngoc, Nguyen Thi Thai An, Nguyen Thi Hang Nga, Nguyen Trong Nghia, Nguyen Van Au, Vu Van Son, Tran Hong Nh Hung
Center for Quantum Electronics, Institute of Physics, 18 Hoang Quoc Viet, Hanoi, Vietnam; Institute of Research and Development, Duy Tan University, 182 Nguyen Van Linh, Danang, Vietnam

O-08  STUDY OF STORAGE CAPACITY OF HYDROGEN IN CLATHRATE HYDRATES BY RAMAN MICROSCOPIC SPECTROSCOPY

11:40-11:55

Nguyen The Thuong
Institute for Biomedical Physics, 109A Pasteur, Ben Nghe, Distr. 1, HCM

12:00 – 13:30  LUNCH

13:30 -17:00  POSTER I

Chairperson: Dr. Le Vu Tuan Hung (VNU, HCM - Vietnam)
Dr. Ngo Thi Hoai Thu (IOB, VAST - Vietnam)
Dr. Nguyen The Thuong (IBP, HCM - Vietnam)

REPORT SESSION

Chairperson: Dr. Chey Thavy (RUPP – Cambodia)
Dr. Mai Hong Hanh (VNU, Hanoi – Vietnam)

O-09  CATALYTIC OXIDATIVE CHEMICAL TREATMENT FOR THE REMOVAL OF ELEMENTAL MERCURY ON CARBON STEEL (SAE J429) SURFACE

13:30 – 13:55

(Wanted talk)

Wan Azelee Wan Abu Bakar and Farah Ilyana Khairuddin
Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors/Institutions</th>
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<tbody>
<tr>
<td>13:55</td>
<td>A DESIGN OF SIMPLE SUPER-CAPACITOR BY USING ACTIVATED CARBON</td>
<td>Sreng Soukeang and Chan Oeurn Chey. Faculty of Science, Royal University of Phnom Penh, Cambodia</td>
</tr>
<tr>
<td>14:10</td>
<td>EVALUATION OF HOT WATER EXTRACT MIXTURE FROM SEAWEEDS AS A SOURCE OF COSMETIC ADDITIVE</td>
<td>Ngo Thi Hoai Thu, Nguyen Cam Ha, Hoang Thi Lan Anh, Dang Diem Hong. Algal Biotechnology Department, Institute of Biotechnology, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet, Cau Giay, Ha Noi</td>
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<tr>
<td>14:25</td>
<td>PREPARATION AND PROPERTIES OF GRAPHENE QUANTUM DOT DECORATED TIO2 FOR PERSPECTIVE APPLICATION.</td>
<td>Pham Nam Thang, Vu Thi Hong Hanh, Le Xuan Hung, Phan Ngoc Hong, Vu Duc Chinh, Pham Thu Nga. Institute of Materials Science, VAST, Hanoi, Vietnam. Graduate University of Science and Technology, VAST, Hanoi, Vietnam. Institute of Research and Development, Duy Tan Univ., DaNang. Faculty of Physics, Thai Nguyen University of Education, Thai Nguyen</td>
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<tr>
<td>14:40</td>
<td>INFLUENCE OF PREPARATION METHOD OF TITANIA BASED BIMETALIC OXIDE ON PHOTOCATALYTIC DEGRADATION OF 1,2-DICHLOROBENZENE</td>
<td>Renugambaal Nadarajan, Wan Azelee Wan Abu Bakar. Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia</td>
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<tr>
<td>14:44</td>
<td>HIERARCHICAL STRUCTURE ANALYSIS OF GRAFT-TYPE POLYMER ELECTROLYTE MEMBRANES FOR FUEL CELL APPLICATION BY SMALL AND ULTRASMALL ANGLE X-RAY SCATTERING</td>
<td>Tran Duy Tap. Faculty of Materials Science and Materials Engineering, University of Science, Vietnam National University, Hochiminh City, Vietnam</td>
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<tr>
<td>15:10</td>
<td>COFFEE BREAK</td>
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REPORT SESSION

Chairperson: Dr. Meak Kamerane (RUPP - Cambodia)
Dr. Marilou C. Raduban (Massey Univ. New Zealand)

**O-15**
**15:25-15:50**
EFFECT OF SOLDER TYPE ON RELIABILITY OF IC PACKAGE
(Invited talk)

Anusara Srisrual
IMI, Faculty of Applied Science, KMUTNB, 1518 Pracharat 1 Road, Wongsawang, Bangsue, Bangkok, 10800, Thailand

**O-16**
**15:50-16:05**
DEVELOPMENT AND FIELD TESTING OF A COST-EFFECTIVE 150W SINGLE-AXIS SOLAR TRACKING SYSTEM USING A REAL-TIME LABVIEW DAQ MONITORING MODULE

Lemthong Lathdavong, Kongsin Xayali and Young Joo Song
Department of Physics, Faculty of Natural Science, National University of Laos

**O-17**
**16:05-16:20**
HYDROTHERMAL CARBONIZATION OF PALM OIL BIOMASS: INFLUENCE OF PROCESS PARAMETER

Maridah Mohd Amin, Umer Rashid, Yun Hin Taufiq-Yap, Amran Salleh, Tan Yin Phing
Institute of Advance Technology, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia
Catalysis Science and Technology Research Centre, Faculty of Science, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia
Faculty of Engineering, Universiti Putra Malaysia, Selangor, Malaysia
Faculty of Science, Universiti Putra Malaysia, Selangor, Malaysia

**O-18**
**16:20-16:35**
ZnO NANORODS FOR NON-ENZYMATIC FLUORESCENT SENSING OF GLUCOSE

Hong Hanh Mai, Phuong Thao Do, Trong Duc Tran, Hoang Huong Vu, Chi Hieu Hoang, The Binh Nguyen
Department of Quantum Optics, Faculty of Physics, VNU University of Science, 334 Nguyen Trai, Thanh Xuan, Hanoi, Vietnam
O-19 16:35-16:50 DEGRADATION METHYLENE BLUE IN WEST WATER BY USING PHOTO-CATALYSIS OF ZINC OXIDE NANOWIRES

Hun Saruon, Chey Thavy and Chan Oeurn Chey
Faculty of Science, Royal University of Phnom Penh, Cambodia

O-20 16:50-17:05 A METHOD FOR THEORETICAL AND EXPERIMENTAL STUDIES OF THERMODYNAMIC PARAMETERS AND XAFS OF HCP CRYSTALS. APPLICATION TO METALLIC ZINC.

Cu Sy Thang, Nguyen Van Hung, Nguyen Bao Trung, Nguyen Cong Toan
Institute of Geological Sciences (IGS), Viet Nam Academy of Science and Technology (VAST), 18 Hoang Quoc Viet, Cau Giay, Ha Noi, Viet Nam.
Department of Physics, VNU Ha Noi University of Science, Ha Noi, Viet Nam
Graduate University of Science and Technology - GUST, VAST, 18 Hoang Quoc Viet, Cau Giay, Ha Noi, Viet Nam

18:00 - 20:00 MEETING OF THE ASEAN ORGANIZING COMMITTEE
POSTER I

P-01 PHOTO-DYNAMIC PROPERTY STUDIES OF THE CdSe QUANTUM DOTS IN INTRA – CELLULAR MEDIA
Nguyen Thanh Binh, Nguyen Dinh Cong, Pham Hong Minh, Marilou Cadatal-Raduban, Do Thi Thao, Vu Thi Bich
Institute of Physics, VAST
Centre for Theoretical Chemistry and Physics, Institute of Natural and Mathematical Sciences, Massey University, Albany, Auckland 0632, New Zealand
Institute of Bio-Technology, VAST
Duy Tan University, Danang City, Vietnam

P-02 FEMTOSECOND LASER INDUCED PERIODIC SURFACE STRUCTURES ON POLYIMIDE
S.Y. Kok, S.S. Yap, C.H. Nee and T.Y. Tou
Faculty of Engineering, Multimedia University, Cyberjaya 63100, Selangor, Malaysia

P-03 INFLUENCES OF SPONTANEOUSLY GENERATED COHERENCE AND RELATIVE PHASE ON GROUP VELOCITY IN A THREE-LEVEL ATOMIC MEDIUM: ANALYTICAL APPROACH
Le Nguyen Mai Anh, Dinh Xuan Khoa, Le Van Doai, Nguyen Huy Bang
Vinh University, 182 Le Duan Street, Vinh City, Vietnam.
Nong Lam University, Ho Chi Minh city, Vietnam

P-04 DETERMINATION OF THE EFFECTIVE POTENTIAL CURVE FOR THE 2\(^1\Pi\) STATE OF NaLi
Nguyen Tien Dung, Dinh Xuan Khoa, Vu Ngoc Sau, Luong Thi Yen Nga, Lam Trung Hieu and Nguyen Huy Bang
Vinh University, 182 Le Duan Str., Vinh City, Nghe An

P-05 EFFECT OF RAMAN SCATTERING AND HIGHER ÕDER DISPERSION ON SUPERCONTINUUM SPECTRUM
Do Thanh Thuy, Dinh Xuan Khoa, Nguyen Thanh Vinh, Bui Dinh Thuan and Cao Van Long
Military Technical Academy, Hanoi, Vietnam
P-06 CO₂ HYDROGENATION TO CH₄ FUEL GAS OVER NICKEL CATALYST SUPPORTED ON SANTA BARBARA AMORPHOUS

Nguyen Phung Anh, Luu Cam Loc, Nguyen Truong Giang, Phan Quoc Dai, Nguyen Thi Thuy Van, Nguyen Tri, Hoang Tien Cuong

Institute of Chemical Technology – VAST, 01 Mac Dinh Chi Str., Ho Chi Minh City, Vietnam
University of Technology – VNU-HCM, 268 Ly Thuong Kiet Str., Ho Chi Minh City, Vietnam

P-07 CONTROLLING GROUP VELOCITY OF LIGHT IN A DOPPLER BROADENED FIVE-LEVEL EIT MEDIUM

Nguyen Tuan Anh, Doan Hoai Son, Le Van Doai and Nguyen Huy Bang

Vinh University, Vietnam
Ha Tinh University, Vietnam
Ho Chi Minh University of Food Industry, Vietnam

P-08 INFLUENCES OF SPONTANEOUSLY GENERATED COHERENCE AND PHASE ON OPTICAL BISTABILITY IN A THREE-LEVEL EIT MEDIUM: ANALYTICAL APPROACH

Le Thi Minh Phuong, Dinh Xuan Khoa, Le Van Doai, Nguyen Huy Bang

Vinh University, 182 Le Duan street, Vinh City, Vietnam
Sai Gon University, 273 An Duong Vuong, Ho Chi Minh City

P-09 SUBCRITICAL VERSUS SUPERCritical BIFURCATION CHARACTERISTICS OF SYMMETRY BREAKING IN NONLINEAR DOUBLE-CHANNELS SYSTEMS

Nguyen Duy Cuong, Dinh Xuan Khoa, Cao Long Van, M. TrippeNbachand Bui Dinh Thuan, Do Thanh Thuy

Vinh University, 182 Le Duan Street, Vinh City, Vietnam.
Industrial University of Vinh, 26 Nguyen Thai Hoc Street, Vinh City, Vietnam.
University of Zielona Góra, ul. Licealna 9, 65-417 Zielona Góra, Poland.
Institute of Theoretical Physics, Physics Department, Warsaw University, Hoża 69, PL-00-681 Warsaw, Poland.
Soltan Institute for Nuclear Studies, Hoża 69, PL-00-681 Warsaw, Poland.

P-10 THERMAL LOCAL TRANSLATION REMOTE CONTROL WITH SINGLE GOLD NANOCRESCENT

Xuan Hoa Vu, Nguyen Vu Anh Tuyet, Nguyen Vu Anh Nguyet, Pham Thi Thu Ha and Emmanuel Fort

Thai Nguyen University of Science (TNUS), Thai Nguyen City, Vietnam
Centre d’Imageries Plasmoniques Appliquées, Institut Langevin ESPCI ParisTech, CNRS UMR 7587, & INSERM ERL U979,1 rue Jussieu, 75231 Paris Cedex 05, France


**P-11**  
FINITE DIFFERENCE METHOD TO DETERMINE LATERAL LOAD BEARING CAPACITY OF PILE BY TAKEN INTO ACCOUNT SOIL AND PILE INTERACTION  

*Dang Hong Lam, Tran Ngoc Tuyen*  
Faculty of Civil engineering, University of Transport and Communication, No.3 Cau Giay Street, Lang Thuong Ward, Dong Da District, Hanoi, Vietnam  
Faculty of Engineering and Technology, Hatinh University, No.447 Road 26-3, Hatinh, Vietnam

**P-12**  
DETERMINATION OF FAULTS IN THE MEKONG DELTA USING MAGNETIC DATA  

*Nguyen Hong Hai*  
An Giang University  
VNU HCM – University of Science

**P-13**  
MAXIMIZING THE ROBUSTNESS OF DATA ANALYSIS IN MULTICHANNEL ANALYSIS OF SURFACE WAVE  

*Nguyen Nhat Kim Ngan, Truong Phuc Thinh, Nguyen Thanh Van, Vo Manh Khuong*  
Geophysics Department, University of Science, HCM National University, 227 Nguyen Van Cu, District 5, Ho Chi Minh City  
East Sea Star Software company, 22D8 Saigon Pearl, HCM City

**P-14**  
DEFINING THE CHARACTERISTICS OF SOIL ENVIRONMENT USING MULTICHANNEL ANALYSIS OF SURFACE WAVE AND ELECTRIC IMAGING METHOD  

*Nguyen Nhat Kim Ngan, Vo Minh Triet, Nguyen Van Thuan*  
Geophysics Department, University of Science, HCM National University, 227 Nguyen Van Cu, District 5, Ho Chi Minh City

**P-15**  
THE UPHILL DIFFUSION AND DIFFUSION BARRIER IN SINGLE COMPONENT SYSTEMS  

*Vu Ba Dung, Ho Quynh Anh, Tong Ba Tuan and Dinh Van Thien*  
Hanoi University of Mining and Geology, Viet Nam

**P-16**  
THE EXPERIMENT SINGLE UPHILL DIFFUSION OF GLYCEROL IN WATER  

*Vu Ba Dung, Tong Ba Tuan, Ho Quynh Anhand Dinh Van Thien*  
Hanoi University of Mining and Geology, Viet Nam
**P-17** CONTROL THE TRAPPED PARTICLES IN ACOUSTO-OPTICAL TWEEZERS BY ACOUSTIC FREQUENCY

Nguyen Van Thinh, Nguyen Mạnh Thang, Nguyen Thu Loan, Thai Doan Thanh, Quy Ho Quang
University of Bac lieu, 178 Vo Thi Sau, Bac Lieu.
Academy of Military Science & Technology, 17 Hoang Sam, Cau Giay, Hanoi
Tran Nguyen Han College of Haiphong
Faculty of Electric Technology & Electronics, Food industry University of HCM City, 140 Le Trong Tan, Tan Phu, HCM City.

**P-18** SHIFTED-LOCALIZED SURFACE PLASMON RESONANCE ABSORPTION BASED CONTROL THE SYNTHESIS OF SILVER NANOPARTICLES BY PHOTOCHEMICAL METHOD

Pham Thi My Hanh, Pham Thanh Binh, Dang Duc Toan, Pham Van Dai, Do Thuy Chi, Bui Huy, Ngo Quang Minh, Pham Van Hoi
Institute of Materials Science, VAST, 18 Hoang Quoc Viet Rd, Cau Giay Dist, Hanoi, Vietnam
Thai Nguyen University of Education, 20 Luong Ngoc Quyen Rd, Thai Nguyen City, Vietnam

**P-19** ISOLATION STUDY OF THE GmNFYB GENE INVOLVED IN DROUGHT – STRESSED RESPONSES

Nguyen Thi Thu Nga, Nguyen Thi Tuyet
Faculty of Biology, TNU - University of Education, Thai Nguyen city, 20 Luong Ngoc Quyen Street, Thai Nguyen City, Vietnam

**P-20** STUDY OF OPTICS CREATING A LASER GAUSSIAN BEAM FOR OPTICAL TWEEZERS

Doan Quoc Tuan, Nguyen Thu Cam, Quy Ho Quang
Center for Standards, Measurement and Quality
Institute of Applied Physics/ Academy of Military Science and Technology
Faculty of Electric Technology & Electronics, Food industry University of HCM City

**P-21** CLASSIFICATION AND DETECTION OF ELECTROENCEPHALOGRAPHY WAVES

Hanh Thi Hong Nguyen, Tuan Van Huynh
Faculty of Physics and Engineering Physics, University of Science, Vietnam
National University, Ho Chi Minh City, Viet Nam
P-22 SYNTHESIS AND CHARACTERIZATION OF CESIUM TIN IODIDE PEROVSKITE THIN FILMS AS HOLE TRANSPORT MATERIALS
Lien Thi Dao Thach, Thanh Tien Nguyen, Dong Chung Nguyen, Oanh Thi Tu Nguyen, Hieu Si Nguyen, Chung Vu Hoang, Chi Ha Le, Long Duy Pham
Institute of Materials Science, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet Street, Hanoi, Vietnam
University of Science and Technology of Hanoi (USTH), 18 Hoang Quoc Viet Street, Hanoi, Vietnam.

P-23 THE OPTICAL AND ELECTRICAL PROPERTIES OF P-TYPE Cu2O:N THIN FILMS PREPARED BY REACTIVE DC MAGNETRON SPUTTERING
Nguyen Huu Ke, Luong Xuan Toan Nguyen, Kieu Loan Phan Thi, Dao Anh Tuan, Cao Vinh Tran, Le Vu Tuan Hung
Department of Applied Physics, University of Science, VNU-HCM
Laboratory of Advanced Materials, University of Science, VNU-HCM
227 Nguyen Van Cu Street, Award 4, District 5, Ho Chi Minh City, Vietnam

P-24 ASSESSMENT OF OIL CONTAMINATED WASTEWATER TREATMENT BY MICROBIAL BIOFILM ATTACHED ON COCONUT FIBER IN 2000 LITER-SYSTEM
Do Van Tuan, Le Thi Nhi Cong, Vu Ngoc Huy, Cung Thi Ngoc Mai, Hoang Phuong Ha
Graduate University of Science & Technology, VAST, Viet Nam
Son La college, Son La, Viet Nam
Institute of Biotechnology, VAST, 18 Hoang Quoc Viet, Ha Noi, Viet Nam

P-25 STUDY ON STERILIZING PLANT MATERIALS AND EFFECTS OF CYTOKININ, 2,4-D ON SHOOT FORMATION OF “YELLOW ALDER” (TURNERA ULMIFOLIA L.)
Pham Thi Thanh Nhan, Phan Thi Thuy
School of Biology, Thai Nguyen Univ. of Education, ThaiNguyen, Vietnam
School of Biology, ThaiNguyen Univ. of Education, ThaiNguyen, Vietnam

P-26 METABOLITES WITH ANTIMICROBIAL ACTIVITY FROM MARINE FUNGUS ASPERGILLUS FLOCCULOSUS ISOLATED IN NHA TRANG BAY, VIETNAM
Phan Thi Hoai Trinh, Ngo Thi Duy Ngoc, Vo Thi Dieu Trang, Phi Quyet Tien, Bui Minh Ly, Tran Thi Thanh Van
Nhatrang Institute of Technology Research and Application, VAST
Graduate University of Science and Technology, VAST, Institute of Biotechnology, VAST, 18 Hoang Quoc Viet, Cau Giay, Ha Noi
P-27 TRANSFORMATION ZmDREB2.7 GENE ISOLATED FROM LOCAL MAIZE VARIETY – TE VANG 1 INTO NICOTIANA TABACUM

Huynh Thi Thu Hue, Nguyen Thuy Linh, Luu Han Ly, Pham Thi Hang, Nguyen Hai Ha, Ha Hong Hanh, Le Thi Thu Hien, Nong Van Hai
Institute of Genome Research, Vietnam Academy of Science and Technology

P-28 AGROBACTERIUM –MEDIATED SOYBEAN TRANSFORMATION WITH GENE RELATED TO DROUGHT TOLERANCE

Lo Thanh Son, Nguyen Thi Ngoc Lan, Vu Thi Thu Thuy, Nguyen Thi Hai Yen, Chu Hoang Mau
Tay Bac University, Quyet Tam Ward, Son La city, Vietnam;
Thai Nguyen University of Education, 20 Luong Ngoc Quyen Road, Thai Nguyen city, Vietnam
Thai Nguyen University of Sciences, Tan Thinh Ward, Thai Nguyen, Vietnam

P-29 IDENTIFICATION OF PARIS SPECIES FROM SAPA AND PULUONG IN VIET NAM USING DNA BARCODES

Vu Thi Thu Thuy, Nguyen Thi Ngoc Lan, Hoang Phu Hiep, Tran Thi Hong, Nguyen Thi Thu Nga, Sy Danh Thuong, Nguyen Huu Quan, Chu Hoang Mau
Thai Nguyen University of Education; 20 Luong Ngoc Quyen Road, Thai Nguyen city, Vietnam

P-30 PURIFICATION AND PROPERTIES OF PROTEASE FROM LECANICILLIUM LECANII

Nguyen Huu Quan, Chu Hoang Mau, Tu Quang Tan
Thai Nguyen University of Education, 20 Luong Ngoc Quyen road, Thai Nguyen city, Vietnam

P-31 ISOLATION AND CHARACTERIZATION OF ENDOPHYTIC ACTINOBACTERIA FROM CINNAMOMUM CASSIA PRESL IN VIETNAM

Vu Thi Hanh Nguyen, Chu Ky Son, Nguyen Quang Huy, Phi Quyet Tien
Institute of Biotechnology, Vietnam Academy of Science and Technology
School of Biotechnology and Food Technology, Hanoi University of Science and Technology
University of Science and Technology of Hanoi
P-32 IN VITRO ANTI-PLATELET AGGREGATION ACTIVITY OF DIFFERENT FRACTIONS OF CANNA EDULIS KER

Le Hong Luyen, Nguyen Thi Van Anh, Vu Thi Thom, Duong Thi Ly Huong
Department of Pharmacological, Medical and Agronomical Biotechnology; University of Science and Technology of Hanoi; 18 Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam
School of Medicine and Pharmacy; Vietnam National University; 144 Xuan Thuy, Cau Giay, Hanoi, Vietnam

P-33 PHENOL DEGRADATION OF SEVERAL BIOFILM-FORMING PHOTOSYNTHETIC PURPLE BACTERIAL STRAINS ISOLATED IN VIETNAM

Le Thi Nhi Cong, Nguyen Thi Minh Nguyet, Do Thi Lien, Vu Ngoc Huy, Nguyen Binh Hieu, Dong Van Quyen
Institute of Biotechnology, VAST, 18 Hoang Quoc Viet, Cau Giay, Hanoi
Graduate University of Science and Technology, VAST, 18 Hoang Quoc Viet, Cau Giay, Hanoi
Hanoi Pedagogical University 2, Xuan Hoa, Phuc Yen, Vinh Phuc
Vietnam Institute of Dietary Supplements, 80 Tran Thai Tong, Hanoi

P-34 DETERMINATION THE AMMONIUM SEPARATING IN GROUND WATER BY USING POLYURETHANE-DERIVED CARRIER WITH MICROBIAL FILM TECHNIQUE

Ngan H.T, Khanh D.D, Ha N.T
Department of Environmental Chemistry, Institute of Chemistry, Vietnam
Academic of Science and Technology

P-35 RESEARCH INTO EFFECT OF SEVERAL PHLEGMATICNESSES ON VACCUM STABILITY OF COMPOSITION OF RDX, TNT, AND ALUMINUM BY USING THE STABIL

Nguyen Van Khuong, Ngo Van Giao, Nguyen Tran Hung, Bui Dinh Phong
Institute of Chemistry and Materials, Academy of Military Science and Technology, 17 Hoang Sam Street, Cau Giay District, Hanoi, Vietnam

P-36 SEVERAL INITIAL RESULTS OF RESEARCHING INTO THERMOBARIC COMPOSITIONS IN VIETNAM

Tran Quang Phat, Ngo Van Giao, Ninh Duc Ha, Nguyen Khac Phuong Hoa
Institute of Chemistry and Materials, Academy of Military Science and Technology, 17 Hoang Sam Street, Cau Giay District, Hanoi, Vietnam
P-37 SYNTHESIS OF REDUCED GRAPHENE OXIDE/ TiO$_2$ (rGO/TiO$_2$) BY PHOTO-CATALYTIC EXPERIMENTS IN DIFFERENT SOLVENTS

Pham Hoang Tuyen, Nguyen Tuyet Phuong
Faculty of Chemistry, University of Science
Vietnam National University Ho Chi Minh City

P-38 VALIDATION OF ELISA IN DETERMINATION OF URINE COTININE AS BIOMARKER FOR SECONDHAND SMOKE EXPOSURE

R. Isah, DA Bruzon
Philippine Ambulatory Pediatric Association, Inc., Pasay City, Philippines
Institute of Chemistry, College of Science, University of the Philippines

P-39 PREPARATION COLLAGEN-WOUND DRESSING FROM SKIN AND TENDON BOVINE BY RECOMBINANT COLLAGENSE FROM LYSINIBCILLUS SPHAERICUS VN3

Bach T. M. Hoa and Nguyen P. Nhue
Department of Fermentation Technology, Institute of Biotechnology, VAST, 18 Hoang Quoc Viet, Cau Giay, Ha Noi, Vietnam

P-40 BIOLOGICAL CHARACTERISTICS AND BIOSYNTHESIS OF EXOPOLYSACCHARIDES (EPS) FROM CORDYCEPS MILITARIS FNA5 USING SUBMERGED FERMENTATION

Pham Thanh Huyen, Nguyen Duc Thang, Nguyen Van The, Nguyen Phuong Nhue, Dang Thi Thuy Duong, Hoang Thi Yen, Bui Van Ngoc, Phi Quyet Tien
Institute of Biotechnology, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet, Cau Giay

P-41 CURRENT PHYSICAL AND CHEMICAL OCEANOGRAPHIC PROPERTIES OF THE BOLINAO CHANNEL

Narvarte, B.C., Bangot C.G., Bautista, D., Decapia, R., Dumalagan, E., Lim, R.T., Purganan, D.J
Marine Science Institute, University of the Philippines, Diliman 1101, Quezon City, Philippines

P-42 SYNTHESIS AND CHARACTERISTICS OF THE NITRATE CELLULOSES FROM ACACIA CELLULOSE

Khai Minh Doan, Nhan Duc Phan, Hoanh Dac Trinh
Le Quy Don Technical University
Institute of Military Science and Technology
REPORT SESSION

Chairperson: Prof. Dr. Elmer S. Estacio (Univ. Philippines)
Dr. Nguyen Manh Thang (AMST - Vietnam)

O-21 08:30-08:55
MULTI-WINDOW ELECTROMAGNETICALLY INDUCED TRANSPARENCY AND RELATED APPLICATIONS
(Invited Talk)
Dinh Xuan Khoa, Le Van Doai and Nguyen Huy Bang*
Vinh University, 183 Le Duan Str., Vinh City, Vietnam

O-22 08:55-09:10
MULTIPLE-PLANE PHASE RETRIEVAL: PRINCIPLES, APPLICATIONS AND TECHNIQUES

Percival Almoro
University of the Philippines, Philippines

O-23 09:10-09:25
COHERENT RAMAN SCATTERING INTERACTION IN GAS-FILLED HOLLOW CORE PHOTONIC CRYSTAL FIBRES (PCFs)

Thai Doan Thanh, Nguyen Manh Thang
Ho Chi Minh city University of Food Industry, 140 Le Trong Tan, Tan Phu, Ho Chi Minh City, Vietnam
Academy of Military Science and Technology, No.17 Hoang Sam Street, Cau Giay, Hanoi, Vietnam

O-24 09:25-09:40
CONTROLLING CROSS-KERR NONLINEARITY OF A SIX-LEVEL INVERTED Y-TYPE ATOMIC MEDIUM

Nguyen Le Thuy An, Vu Ngoc Sau, Le Van Doai, and Nguyen Huy Bang
Vinh University, 182 Le Duan Street, Vinh City, Vietnam

O-25 09:40-09:55
DOUBLE CARBON-DOPED BORON-NITRIDE QUANTUM DOTS AS EFFICIENT BIFUNCTIONAL METAL-FREE CATALYSTS FOR OXYGEN REDUCTION REACTION AND HYDROGEN EVOLUTION REACTION: A THEORETICAL STUDY

Nguyen Thi Bich Duyen, Tran Nguyen Lan
Ho Chi Minh City Institute of Physics, VAST, Ho Chi Minh City, Vietnam
O-26 09:55-10:10  POPULATION DISTRIBUTION OF VIBRATIONAL LEVELS OF THE $3\Pi$ STATE OF NaLi

Nguyen Tien Dung, Vu Ngoc Sau, Luong Thi Yen Nga
Vinh University, 182 Le Duan Str., Vinh City, Nghe An

10:10-10:25  COFFEE BREAK

O-27 10:25-10:50  APPLICATION OF 2D-ERT AND SEISMIC REFRACTION FOR DELINEATION OF GYPSUM AT NADONE VILLAGE, THAKHEK DISTRICT, KHAMMOUANE PROVINCE, LAO PDR

(Invited Talk)

Sounthone Singsoupho; Viengthong Xayavong; Sackxay Sompasert, Thiengsamone Xouansoundao; Tripob Bhongsuwan
Department of Physics, Faculty of Science, National University of Laos, P.O. Box: 7322 Vientiane Capital, Lao PDR
Geophysics Research Center, Department of Physics, Faculty of Science, Prince of Songkla University, 90112 Hatyai, Thailand

O-28 10:50-11:05  METHANATION ACTIVITY USING BOX-BEHNKEN DESIGN THROUGH GADOLINIUM OXIDE CATALYSTS

Salmiah Jamal Mat Rosid, Wan Azelee Wan Abu Bakar
Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia

O-29 11:05-11:20  INERTIAL MANIFOLDS AND ASYMPTOTIC BEHAVIOR OF EVOLUTION EQUATIONS IN ADMISSIBLE SPACES

Xuan Quang Bui
Department of Mathematics, Haiphong University, 171 Phan Dang Luu, Kien An, Haiphong, Vietnam
O-30  11:20-11:35
DETECTING THE EDGE OF GEOLOGICAL STRUCTURE IN GRAVITY DATA BY SECOND DERIVATIVE IN THE GRADIENT DIRECTION

Nguyen Hong Hai
An Giang University
VNU HCM – University of Science

O-31  11:35-11:50
DETERMINATION OF NATURALLY OCCURRING RADIONUCLIDES IN SOIL BY IN SITU GAMMA SPECTROMETRY

Truong Huu Ngan Thy, Huynh Thi Yen Hong, Dang Thi Thao My, Ma Thi Ngoc Trang, Vu Ngoc Ba, Truong Thi Hong Loan
Nuclear Technique Laboratory, University of Science, 227 Nguyen Van Cu, Ward 4, District 5, HCMC, Vietnam

12:00-13:30  LUNCH

12:00-16:30  POSTER II

Chairperson:  Dr. Vu Ba Dung (Hanoi Univ. of Mining & Geology)
Dr. Nguyen Hai Ha (Institute of Genome Research)
Dr. Vu Thi Thu Thuy (Thai Nguyen Univ. of Education)
POSTER II

**P-43**
SYNTHESIS AND SOME CHARACTERISTICS OF THE NITRATE CELLULOSES FROM ACACIA CELLULOSE

*Khai Minh Doan, Nhan Duc Phan, Hoanh Dac Trinh*

*Le Quy Don Technical University, 236 – Hoang Quoc Viet - Hanoi*
*Institute of Military Science and Technology, 17 HoangSam, CauGiay, Hanoi*

**P-44**
RESEARCH INTO EFFECT OF PHLEGMATICNESS, TEMPERATURE AND CONCENTRATION OF PHLEGMATICNESS ON DISTRIBUTIVE AREA OF THIS SUBSTANCE IN ONE-BASE PROPELLANT

*Pham Quang Hieu, Pham Van Toai, Chu Chien Huu*
*Institute of propellants and explosives, 192 Duc Giang Str, Long Bien District, Hanoi, Vietnam*
*Institute of Chemistry and Materials, 17 Hoang Sam Street, Cau Giay District, Hanoi, Vietnam*

**P-45**
DEVELOPMENT OF GOLD NANOPARTICLES MODIFIED SCREEN-PRINTED CARBON ELECTRODE FOR LABELL FREE IMPEDIMETRIC BIOSENSOR APPLICATIONS

*Truong TN Lien*
*School of Engineering Physics, Hanoi University of Science and Technology, No 1 Dai Co Viet, Hai Ba Trung, Hanoi, Vietnam*

**P-46**
DEVELOPMENT OF CENTRIFUGAL MICROFLUIDIC TECHNOLOGY FOR ULTRA LOW-VOLUME QCM-BASED BIOSENSING SYSTEM

*Phi Van Toan, Yoshiaki Ukita and Truong TN Lien*
*School of Engineering Physics, Hanoi University of Science and Technology (HUST), Vietnam*
*Department of Interdisciplinary Research, Graduate School of University of Yamanashi, Japan*
INFLUENCE OF PERIOD ON THE EXTRAORDINARY TRANSMISSION THROUGH ARRAY OF MICROHOLES IN THIN ALUMINUM FILM


Lebedev Physical Institute, Leninskiy prospect 53, 119991 Moscow, Russia
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute), Kashirskoe shosse 31, 115409 Moscow, Russia
ITMO University, Kronverkskiy prospect 49, 197101 St. Petersburg, Russia
Moscow Institute of Physics and Technology, 9 Institutskiy Pereulok, 141701 Dolgoprudny, Moscow Region, Russia
Ha Tinh University, Ha Tinh, 447, 26/3 street, Dai Nai ward, Ha Tinh city, Viet Nam
Institute of Physics, 10 Dao Tan, Str. Ba Dinh, Hanoi, Viet Nam

CALCULATE SEDIMENT STRANPORT AND BED TOPOGRAPHY VARIATIONS AT CU LAO DUNG (SOC TRANG PROVINCE) BY USING DELFT 3D MODEL

Nguyen Hoang Phong, Vo Luong Hong Phuoc
Oceanology, Meterology and Hydrology Department, Faculty of Physics and Engineering Physics, University of Science.

GENERATION OF MAXIMALLY ENTANGLEMENT OUTPUT STATE BY A NONLINEAR QUANTUM SCISSORS INTERACT WITH TWO EXTERNAL FIELDS

Luong Thi Tu Oanh, Nguyen Thi Hong Sang, Chu Van Lanh, Doan Quoc Khoa
Vinh University, 182 Le Duan, Vinh, Viet Nam
Quang Tri Teacher Training College, Quang Tri, Viet Nam

OPTIMIZATION OF PURIFICATION OF ARTIFICIAL HEMAGGLUTININ OF A/H5N1 VIRUS FROM PLANT

Van Thi Pham, Hoang Trong Phan, Ulrike Gresch, Hoa Thanh Le, Ngoc Bich Pham, Udo Conrad, Ha Hoang Chu and Trang Huyen Vu
Institute of Biotechnology (IBT), Academic of Science and technology Vietnam (VAST), Hanoi, Vietnam
Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany
Graduate University of Science and technology (GUST), VAST, Hanoi, Vietnam
P-51
REMOVAL OF AMOXYCILLIN IN AQUEOUS SOLUTION USING MODIFIED ACTIVED CARBON
Ha Nguyen Nu My, Cam Bui Duy, Trung Do Quang, Ngoc Nguyen Hong, Le Tong Cam
Ha Tinh university, Ha Tinh
Ha Noi University of Science - Vietnam National University, Hanoi

P-52
THE USE OF DNA BARCODING IN IDENTIFICATION OF Sarcandra SAMPLES COLLECTED IN LANG SON, VIET NAM
Nguyen Thi Hai Yen, Chu Hoang Mau
Thai Nguyen University of Sciences; Tan Thinh Ward, Thai Nguyen City, Viet Nam
Thai Nguyen University of Education; 20 Luong Ngoc Quyen Road, Thai Nguyen city, Vietnam

P-53
TERAHERTZ EMISSION CHARACTERISTICS OF DOPED GaAs AND InAs UNDER 650 mT EXTERNAL MAGNETIC FIELD
Alexander De Los Reyes, Lorenzo Lopez, Jr., Joselito Muldera, Ramon Delos Santos, Hannah Bardolaza, Elizabeth Ann Prieto, Armando Somintac, Arnel Salvador, Masahiko Tani and Elmer Estacio
National Institute of Physics, University of the Philippines Diliman, Quezon City, Philippines
Material Science and Engineering Program, University of the Philippines Diliman, Quezon City, Philippines
Research Center for Development of Far-Infrared Region, University of Fukui 910-8507, Japan

P-54
ENHANCEMENT OF VISIBLE AND TERAHERTZ EMISSION IN NANOSTRUCTURED SILICON
Neil Irvin Cabello, Philippe Tingzon, Kerr Cervantes, Arven Cafe, Joybelle Lopez, Arvin Mabilangan, Alexander De Los Reyes, Maria Angela Faustino, Lorenzo Lopez Jr., Joselito Muldera, Dinh Cong Nguyen, Xuan Tu Nguyen, Hong Minh Pham, Thanh Binh Nguyen, Arnel Salvador, Armando Somintac, Elmer Estacio
Condensed Matter Physics Laboratory, National Institute of Physics, University of the Philippines, Diliman, Quezon City, Philippines
De La Salle University, De La Salle University, 2401 Taft Avenue, Manila, Philippines
Institute of Physics, Vietnam Academy of Science and Technology, 10 Dao Tan, Ba Dinh, Hanoi, Vietnam
ISOLATION AND CHARACTERIZATION OF AN ISOLATED ENTOMOPATHOGENIC FUNGUS IN THAI NGUYEN

Nguyen Thị Thanh Nga, Hoang Quynh Trang, Trinh Ngoc Hoang, Nguyen Thị Kim Cuc
Department of Biotechnology, Thai Nguyen University of Sciences, Tan Thinh Ward, Thai Nguyen, Viet Nam

STUDIES ON THERMAL DECOMPOSITION BEHAVIOR OF PETN AND POLYMER-BONDED EXPLOSIVES BASED ON PETN USING THERMAL METHODS

Nguyen Trung Toan, Phan Duc Nhan, Vo Hoang Phuong
Le Quy Don Technical University, 236, Hoang Quoc Viet, Hanoi, Vietnam
Institute of Military Science and Technology, 17, Hoang Sam, Hanoi, Vietnam

AGROBACTERIUM – MEDIA TRANSFORMATION OF CRY3CA1 GENE INTO KB1 SWEET POTATO

Vu Thị Lan, Pham Bich Ngoc, Le Tran Binh
Falcuty of Biotechnology, Thainguyen University of Science, Thainguyen University, Vietnam
Institute of Biotechnology, VAST

ASSESSMENT OF NATURAL RAIOACTIVITY IN SURFACE SOIL OF THOULAKHOM DISTRICT IN VIETIANE PROVINCE, LAO PDR

Sonexay Xayheungsy, Le Hong Khiem
Faculty of Science, The National University of Laos, Lao PDR
Institute of Physics, Vietnam Academy of Science and Technology, 10 DaoTan, Ba Dinh, Hanoi, VietNam
Graduate University of Science and Technology, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet, Cau Giay, Hanoi, VietNam

OPTICAL SPECTRAL STUDIES OF Tb\(^{3+}\) AND Sm\(^{3+}\) IONS CO-DOPED IN ALKALI BORATE GLASSES

Hoang Sy Tai, Tran Ngoc
Faculty Natural of Sciences, Quang Binh University, Viet Nam
**P-60**  
**EFFECT OF DISSOLVED IONS ON STRUCTURE OF LANGMUIR MONOLAYER/WATER INTERFACE PROBED BY SUM-FREQUENCY VIBRATIONAL SPECTROSCOPY**

Nguyen Thi Hue, Nguyen The Binh, Nguyen Anh Tuan  
Department of Physics, VNU University of Science, Vietnam  
Hung Vuong University, Phu Tho province, Vietnam

**P-61**  
**SCREENING ENDOPHYTIC YEAST IN MUSA SAPIENTUM (TIEU HONG BANANA) FOR APPLICATION IN POSTHARVEST BANANA**

Chu Thanh Binh, Do Thi Thu Hong, Ngo Cao Cuong, Nguyen Phuong Hue  
Vietnam - Russian Tropical Center, 63 Nguyen Văn Huyen Str., Hanoi  
Institute of Biotechnology, VAST, 18 Hoang Quoc Viet Str., Hanoi

**P-62**  
**ACOUSTIC ECHO CANCELLATION USING NEURAL NETWORK**

Tung Duc-Minh Nguyen, Tuan Van Huynh  
Department of Physics and Computer Science, Faculty of Physics and Engineering Physics, University of Science, VNU-HCM, 227 Nguyen Van Cu St., Dist. 5, Ho Chi Minh city, Vietnam

**P-63**  
**NORMAL FAMILIES OF MEROMORPHIC MAPPINGS**

Nguyen Thi Thu Hang  
Department of Mathematics, Hai Phong University, 171 Phan Dang Luu – Kien An – Hai Phong – Vietnam

**P-64**  
**THE EFFECT OF ZEROVALENT COBALT NANOPARTICLE ON THE GROWTH, PHOTOSYNTHETIC PARAMETERS OF SOYBEAN GLYCINE MAX (L.) MERR. “DT26” AT DIFFERENT STAGES**

Phan Hoang Tuan, Hoang Thi Lan Anh, Luu Thi Tam, Ngo Thi Hoai Thu, Dang Diem Hong  
Institute of Biotechnology, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam  
University of Science - University of Thai Nguyen, Thai Nguyen, Vietnam

**P-65**  
**ESTIMATE HADRONIC PROCESS FROM PARTONIC AT HADRONS COLLIDERS**

Chi Linh Nguyen  
Faculty of Physics and Engineering Physics, University of Science, 227 Nguyen Van Cu Str. District 5, Ho Chi Minh City
P-66 RESEARCHING ANATOMICAL CHARACTERISTICS AND ANTIBACTERIAL ACTIVITY OF Capparis dongvanensis Sy, B.H. Quang & D.V. Hai

Nguyen Phuong Thao, Nguyen Huu Quan, Pham Van Kang, Sy Danh Thuong
Faculty of Biology, Thainguyen University of Education, ThaiNguyen City, Vietnam
Faculty of Chemistry, Thainguyen University of Education, ThaiNguyen City, Vietnam

P-67 SEGMENTATION OF TYMPANIC MEMBRANE USING POLARIZED IMAGING

Tran Van Tien, Le Thanh Tung, Nguyen Hai Dang, Bui Mai Quynh Linh, Ngo Ngoc Uyen, Phan Ngoc Khuong Cat, Huynh Quang Linh
Department of Applied Physics, Faculty of Applied Science, Ho Chi Minh City University of Technology, VNU-HCM

P-68 STUDY ON CHROMATOGRAM LAYER METHODS FOR DETERMINATION ANTIMICROBIAL ACTIVITY OF MARINE BACTERIA EXTRACTS.

Tran Nguyen Ha Vy, Nguyen Thi Thuan, Vo Mai Nhu Hieu and Tran Thi Thanh Van
Chemical Analysis and Technology Development Department, Nha Trang Institute of Technology Research and Application, VAST, 02 Hung Vuong-Nha Trang-Khanh Hoa-Vietnam

P-69 EFFECT OF OXYGEN DEFECTS ON THE ELECTRONIC STRUCTURE AND THERMOELECTRIC PROPERTY OF BISMUTH OXIDE SELENIDE

Tran Van Quang
Department of Physics, University of Transport and Communications, No. 3, Lang Thuong, Hanoi, Vietnam

P-70 NON-LINEAR MARGINAL AND GENERALIZED LINEAR MIXED REGRESSION MODELS OF AIDS INCIDENCE IN BANGKOK

Pianpool Kirdwichai
King Mongkut’s University of Technology North Bangkok
COMPARING ANALYTICAL AND NUMERICAL SOLUTIONS IN IDENTIFICATION OF THE BUCKLING CAPACITY OF AXIALLY LOADED CASTELLATED STEEL COLUMNS

Tran Ngoc Tuyen, Dang Hong Lam
Faculty of Engineering and Technology, Hatinh University; No. 447 Road 26-3, Hatinh, Vietnam
Faculty of Civil Engineering, University of Transport and Communication, No. 3 Cau Giay Street, Dong Da District, Hanoi, Vietnam

INTERPRETATION OF THE GROUND PENETRATING RADAR DATA USING THE WAVELET TRANSFORM MODULUS MAXIMA

Duong Quoc Chanh Tin, Duong Hieu Dau, Nguyen Thanh Van, Nguyen Van Thuan
Can Tho University, Campus 2, 3/2, Ninh Kieu, Can Tho
University of Science, VNU HoChiMinh City

THE RESPONSE AND EFFICIENCY OF n-TYPE HPGe DETECTOR USING MONTE CARLO SIMULATION

Huynh Thi Yen Hong, Truong Huu Ngan Thy, Dang Thi Thao My, Vu Ngoc Ba, Truong Thi Hong Loan
Nuclear Technique Laboratory, University of Science, 227 Nguyen Van Cu, Ward 4, District 5, HCMC, Vietnam

ELECTROENCEPHALOGRAPHY ANALYSIS USING NEURAL NETWORK

Ngan Vuong Thuy Nguyen, Tuan Van Huynh
Physics and Computer Science Dept., Physics and Engineering Physics Faculty, University of Science, VNU-HCM, 227 Nguyen Van Cu Str., Dist. 5, Ho Chi Minh city, Vietnam

DETERMINATION OF NATURAL RADIOACTIVITY AND PUBLIC DOSE ASSESSMENT IN SOIL SAMPLES KHAMMOUANE PROVINCE, LAOS

Somsavath Leuangtakoun, Bui Van Loat, Bui Thi Hong, Vu Thi Kim Duyen, Khong Nam Khang, SouonthoneSingsoupho
Faculty of Physics, VNU University of Science, Hanoi, Vietnam
National University of Laos, Dongdok Vientiane, Laos
Centre for Env. Tre.a. Tech., Ministry of Defence, Hanoi, Vietnam
Military Institute of Medical Radiology and Oncology
ELECTROCHEMICAL FABRICATION OF PLASMONIC NANOCOMPOSITE BASED ON GOLD-GRAFHENE OXIDE AND SILVER-GRAFHENE OXIDE CLUSTERS.

Tran Thu Hien, Nguyen Thi Thu Thuy, Nguyen Thanh Liem, Pham Hong Minh, S A Tikhomirov, O V Buganov and Do Hoang Tung

Institute of Physics, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam
B I Stepanov Institute of Physics, National Academy of Sciences of Belarus, 68 Prospekt Nezavisimosti, 220072 Minsk, Republic of Belarus

PREPARATION OF PLASMONIC TiO$_2$-Ag AND TiO$_2$-Au NANO COMPOSITE MATERIALS BY PLASMA – LIQUID INTERACTION METHOD

Nguyen Thi Song Thuong, Nguyen Thi Thu Thuy, Nguyen Thanh Liem, Pham Hong Minh, Pham Van Duong, S.A. Tikhomirov, O.V. Buganov and Do Hoang Tung

Institute of Physics, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam
B I Stepanov Institute of Physics, National Academy of Sciences of Belarus, 68 Prospekt Nezavisimosti, 220072 Minsk, Republic of Belarus

HIGH-EXTRACTION EFFICIENCY, SIDE-PUMPED DIAMOND-CUT Ce: LiCAF ULTRAVIOLET LASER OSCILLATOR AND AMPLIFIER

Pham Van Duong, Nguyen Xuan Tu, Bui T. Thuy Duong, Nguyen Van Diep, Pham Hong Minh, Marilou Cadatal-Raduban, Nguyen Van Phu and Nobuhiko Sarukura

Institute of Physics, VAST, 10 Dao Tan, Ba Dinh, Hanoi, Vietnam
Centre for Theoretical Chemistry and Physics, Institute of Natural and Mathematical Sciences, Massey University, New Zealand
Vinh University, Nghe An Province, Vietnam
Institute of Laser Engineering, Osaka University 2-6 Yamadaoka, Suita Osaka 565-0871 Japan

DEVELOPMENT OF A LASER PULSE AMPLIFIER BASED ON CHIRPED PULSE AMPLIFICATION TECHNIQUE FOR ULTRASHORT TITAN-SAPPHIRE LASER PULSES

Pham Huy Thong, Nguyen Xuan Tu, Pham Van Duong, Nguyen Thanh Dan, Pham Hong Minh, Buganov Oleg and S.A. Tikhomirov

Center for Quantum Electronic, Institute of Physics, Vietnam Academy of Science and Technology. 18 Hoang Quoc Viet, Cau Giay, Hanoi
B.I. Stepanov Institute of Physics, National Academy of Science of Belarus
THE FORMATION OF REDUCED GRAPHEN OXIDE FROM GRAPHITE BY MODIFIED HUMMERS PROCESS

Nguyen Chi Thang, Ha Xuan Vinh
Nhatrang Institute of Technology Research & Application, Viet Nam Academy of Science and Technology (VAST)

ISOLATION AND SCREENING PYRUVATE- PRODUCING MODERATELY HALOPHILIC BACTERIA FROM SALTERS IN NAM DINH PROVINCE

Hoang Thi Lan Anh, Ngo Thi Hoai Thu, Hoang Thi Huong Quynh, Dang Diem Hong
Algal Biotechnology Department, Institute of Biotechnology, VAST, 18 Hoang Quoc Viet, Cau Giay, Ha Noi

INFLUENCE OF SURFACE PLASMON EFFECT FROM GOLD NANOPARTICLES ON FLUORESCENCE EMISSION OF Cy3 DYE

Chu Viet Ha, Le Thuy Linh, Nguyen Thi Bich Ngoc, Tran Hong Hung
Thai Nguyen University of Education, Thai Nguyen, Vietnam
Institue of Physics, VAST, Hanoi, Vietnam

EFFECT OF ANNEALED TIMES ON STRUCTURAL, OPTICAL AND COMPOSITIONAL PROPERTIES ON THE CZTSSe

Dao Tuan Anh, Phan Thi Kieu Loan, Nguyen Huu Ke, Le Vu Tuan Hung
Faculty of Physics and Engineering Physics, University of Science, Vietnam Natoinal University Ho Chi Minh city, 227 Nguyen Van Cu St., Ward 4, District 5, Ho Chi Minh City, Vietnam

APPLICATION OF THE COLLECTIVE MODEL TO DETERMINE SOME VIBRATIONAL BANDS OF \(^{40}\)La NUCLEUS

Nguyen Duc Hoa, Nguyen An Son, Le Viet Huy, Pham Ngoc Son
Dalat University, Dalat city, Lam Dong Province, Vietnam
Nuclear Research Institute, Lam Dong Province, Vietnam

MEASUREMENT OF IN-PHANTOM THERMAL NEUTRON FLUX DISTRIBUTION IN DALAT RESEARCH REACTOR BORON NEUTRON CAPTURE THERAPY BEAM LINE

Pham Dang Quyet, Pham Ngoc Son and Trinh Thi Tu Anh
Nuclear Engineering Department, Dalat University, Vietnam Center for Nuclear Physics and Elec., Nuclear Research Institute, Vietnam
P-86  CALCULATION AND SIMULATION OF THE TWO-PHASE FLOW AND 3D VOID-FRACTION DISTRIBUTION IN THE BFBT EXPERIMENTS USING ANSYS FLUENTCODE

Nguyen Thi Minh Sang and Nguyen Minh Tuan
Dalat University, 01 Phu Dong ThienVuong, Dalat
Nuclear Research Institute, 01 Nguyen Tu Luc, Dalat

P-87  STUDY ON THE EFFECTS OF METAL LAYER THICKNESS ON RESPONSE FUNCTIONS OF BONNER SPHERE EXTENDED SPECTROMETER BY MCNP CALCULATION

Mai Nguyen Trong Nhan, Trinh Thi Tu Anh
Department of Nuclear Engineering, Ulsan National Institute of Science and Technology, Republic of Korea
The Research Management and International Cooperation Department, Dalat University, Vietnam

P-88  EFFICIENCY CALCULATION FOR PLASTIC SCINTILLATOR IN IN-SITU BETA MEASUREMENT SYSTEM USING MCNP6

Mai Nguyen Trong Nhan, Trinh Thi Tu Anh
Department of Nuclear Engineering, Ulsan National Institute of Science and Technology, Republic of Korea
The Research Management and International Cooperation Department, Dalat University, Vietnam
REPORT SESSION

Chairperson: Dr. Lemthong Lathdavong (National Univ. of Laos)

Dr. Khun Kimlean (RUPP – Cambodia)

O-32 13:30-13:55
TERAHERTZ CHARACTERISTICS OF GaAs - BASED SEMICONDUCTOR MATERIALS: CURRENT RESEARCH IN NATIONAL INSTITUTE OF PHYSICS UNIVERSITY OF THE PHILIPPINES

(Invited Talk)

Elmer S. Estacio
National Institute of Physics, University of the Philippines-Diliman, Quezon City

O-33 13:55-14:10
NARROW LINEWIDTH TUNABLE PICOSECOND PULSES FROM TRANSIENT CAVITY CE:LICAF LASER

Pham Hong Minh, Pham Van Duong, Nguyen Xuan Tu, Nguyen Van Diep, Marilou Cadatal-Raduban, Nobuhiko Sarukura
Institute of Physics, VAST, 10 Dao Tan, Ba Dinh, Hanoi, Vietnam
Centre for Theoretical Chemistry and Physics, Institute of Natural and Mathematical Sciences, Massey University, Albany, New Zealand
Institute of Laser Engineering, Osaka University, Japan

O-34 14:10-14:25
MEASURING VISCOSITY OF A LIQUID BY ANALYZING BROWNIAN MOTION OF MICRO-SIZED PARTICLES IN AN OPTICAL TWEEZERS

Phan Van Thuan, Lam Trung Hieu, Dinh Xuan Khoa, Nguyen Huy Bang
Vinh University, 182 Le Duan Street, Vinh City, Vietnam

O-35 14:25-14:40
A STUDY OF ENZYME-LESS ELECTROCHEMICAL REACTION BASED ON DIRECT PLASMON CATALYSIS FOR GLUCOSE DETECTION.

Binh-Minh Nguyen; Ngoc-Thanh Phung; Ngoc-Nga Dau; Thi-Thu Nguyen; Van-Quynh Nguyen
University of Science and Technology of Hanoi (USTH) – Vietnam Academy Science and Technology, Hanoi
Hanoi National Univ. of Education, 136 XuanThuy, CauGiay, Hanoi
INFLUENCE OF HYDROCHLORIC ACIDS TOWARDS MWCNT-TNT HYBRID DISPERSITY

Ihsan Wan Azelee, Pei Sean Goh, Woei Jye Lau, Ahmad Fauzi Ismail
Advanced Membrane Technology Research Centre, Faculty of Petroleum and Renewable Energy Engineering, Universiti Teknologi Malaysia, 81310 Johor, Malaysia

MEASUREMENT OF DISPERSION IN A DOPPLER BROADENED ATOMIC MEDIUM UNDER OPTICALLY SATURATED EXCITATION

Nguyen Van Ai, Le Canh Trung, Phan Van Thuan, Dinh Xuan Khoa and Nguyen Huy Bang
Vinh University, 182 Le Duan street, Vinh City, Vietnam

REPORT SESSION

Chairperson: Prof. W.A. Wan Abu Bakar (UTM - Malaysia)
Dr. Tran Duy Tap (VNU HCM - Vietnam)

INFLUENCE OF EUPATORIUM FORTUNEI TURCZ EXTRACTS ON THE GROWTH OF LEMNA MINOR AND SPIRODELA POLYRHIZA

(Invited Talk)

Pham Thanh Nga, Pham Huu Dien, Pham Thi Van, Nguyen Van Quyen, Le Thi Phuong Quynh, Nguyen Tien Dat, Duong Thi Thuy and Dang Dinh Kim
Hanoi National Univ. of Education, Ha Noi Viet Nam
Graduate University of Science and Technology
Institute of Natural Products Chemistry, VAST
Institute of Marine Biochemistry, VAST
Institute of Environmental Technology, VAST
PRELIMINARY STUDY THE EFFECT OF COPPER OXIDE NANOPARTICLES LOADINGS ON POLYSULFONE MEMBRANES FOR WASTEWATER TREATMENT

Sarina Mat Rosid, Muhamad Qaikal Ahmad Zam Zam Azla and Hasrinah Hasbullah
Faculty of Chemical and Energy Engineering, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia

IMPROVE THE DIAGNOSTIC PERFORMANCE OF PSORIASIS WITH SCALING IMAGING

Tran Van Tien, Nguyen Ngo Minh Tri, Tran Diem Truc, Nguyen An Duy, Phan Ngoc Khuong Cat, Huynh Quang Linh
Department of Applied Physics, Faculty of Applied Science, Ho Chi Minh City University of Technology, VNU-HCM

OFFICIAL CLOSING
PLENARY SESSION

CONFERENCE PARTY
TOURS TO HISTORICAL & CULTURAL RELIC
IN DA LAT CITY

12:00 LUNCH
ABSTRACT