

**THE FIRST
ACADEMIC CONFERENCE
ON NATURAL SCIENCE FOR
MASTER AND PhD. STUDENTS
FROM
CAMBODIA – LAOS – VIETNAM**

Vientiane, Laos. 23 - 27 MARCH 2010

ABSTRACT & PROGRAM

HANOI - 2010

Organizers

National University of Laos (NUOL)

Royal University of Phnom Penh (RUPP)

Vietnam National University, Hanoi (VNU)

Vietnam National University, HO CHI MINH city (VNUH)

Vietnam Physical Society (VPS)

Vietnam Society of Optics & Spectroscopy (VSOS)

Institute of Materials Science (IMS, VAST)

Institute of Physics (IOP, VAST)

Sponsors

National University of Laos

Vietnam Academy of Science and Technology

Vietnam National University, HO CHI MINH city

Vietnam National University, HANOI

Vietnam Society of Optics & Spectroscopy

Institute of Physics, VAST

Co – Organizers

Conference President: Prof. Acad. Nguyen Van Hieu (VAST)

Prof. Dr. Somsy Gnophanxay, Vice President of NUOL, Laos PDR
(nophanxays@yahoo.com)

Prof. Dr. Hang Chanthon, Vice President of RUPP, Cambodia
(caradvchthon@online.com.kh)

Prof. Dr. Huynh Thanh Dat, Vice President of VNU, HCM,
Vietnam
(hdat@vnuhcm.edu.vn)

Prof. Dr. Nguyen T. Thuc Hien, Vice President of VSOS, VNU
Hanoi, Vietnam
(hienntt@vnu.edu.vn)

Prof. Dr. Nguyen Dai Hung, President of VSOS, Vietnam
(daihung@iop.vast.ac.vn)

Conference Secretariat

Prof. Dr. Vu Thi Bich

Institute of Physics,

10 Dao Tan Str. Ba Dinh, Hanoi, Vietnam

Phone: (84 4) 3756 2017; Fax: (84 4) 7669 050;

Email: clv10@iop.vast.ac.vn

BRIEF PROGRAMME

Date Time	Tuesday <i>March 23, 2010</i>	Wednesday <i>March 24, 2010</i>	Thursday <i>March 25, 2010</i>	Friday <i>March 26, 2010</i>	Saturday <i>March 27, 2010</i>
8:30 ÷ 12:00	<ul style="list-style-type: none"> - ARRIVING AT VIENTIANE, LAOS - Check in 	<ul style="list-style-type: none"> - Registration (7h:30-8h:03 AM) - Official Opening - PLENARY SESSION 	<ul style="list-style-type: none"> - PLENARY SESSION 	<ul style="list-style-type: none"> - ONE-DAY TOURS TO VANG VIENG (150 km from Vientiane) 	Return
		<i>Buffet Lunch</i>	<i>Buffet Lunch</i>		
13h:30÷ 17h	Registration	<ul style="list-style-type: none"> - PLENARY SESSION - POSTER 	<ul style="list-style-type: none"> - PLENARY SESSION - POSTER 	ONE-DAY TOURS TO VANG VIENG (150 km from Vientiane)	Return
18:30	WELCOME PARTY <i>(offered by NUOL)</i>	CONFERENCE PARTY <i>(offered by the Vietnam National University, Hanoi)</i>	CONFERENCE PARTY <i>(offered by the Vietnam National University, Ho Chi Minh City)</i>		Return

PROGRAM

Tuesday – March 23, 2010

- 10:00** Arriving at Vientiane. Check in.
- 17:00** Registration at NUOL
- 18:30** WELCOME PARTY (*offered by NUOL*).

Wednesday – March 24, 2010

- 07: 30 - 08: 30** Registration
- 08: 30 - 09: 00** Official Opening (*Dr. Nguyen Thanh Binh -VAST, Vietnam*)
- Opening Speech by **Prof. Acad. Nguyen Van Hieu**
(*Former President Vietnam Academy of Science and Technology, Honour President of the Vietnam Physical Society*).
 - Welcome Speech by **Prof. Dr. Somsy Gnophanxay**, Vice President of NUOL, Laos PDR
 - Welcome Speech by **Prof. Dr. Hang Chanthon**, Vice President of RUPP, Cambodia
 - Welcome Speech by **Prof. Dr. Huynh Thanh Dat**
Vice President of VNU, HCM, Vietnam

REPORT SESSION

Chairperson: Vu Xuan Quang - VAST, Vietnam

Somsathith Keophilavong - NUOL, Laos PDR

- O-01** NANOSTRUCTURED POROUS TiO₂ FILMS:
09:00 - 09:30 ELECTROCHROMIC PROPERTIES AND POTENTIAL
APPLICATION IN ENERGY-EFFICIENT WINDOWS
- Invited talk**
- Nguyen Nang Dinh, Nguyen Minh Quyen, Tran Thi Thao***
University of Engineering and Technology, VNU, Hanoi

O-02 **THE VERTICAL ALIGNMENT GROWTH OF ZNO NANOWIRES
ON GLASS SUBSTRATE BY OLLUTION METHOD**
09:30 – 09:50

***Tran Quang Trung¹; La Phan Phuong Ha²; Tran Viet Cuong^{1,3};
Van Hoang Luan^{1,3}, Duong Thi Thanh Truc¹***

^{1, 2} Chi Minh City University of Natural Sciences, VNUH, Vietnam

*³ Department of Chemical Engineering, University of Ulsan, Ulsan
680-749, South Korea*

O-03 **STRONG PHOTOLUMINESCENCE OF THE N-TYPE DOPED
AMORPHOUS SIC MATERIAL AFTER ANODIC ETCHING IN
09:50 – 10:10** **LOW HF-CONCENTRATION SOLUTION**

***Dao Tran Cao, Cao Tuan Anh, Nguyen Dinh Dung, Luong Truc
Quynh Ngan, Pham Thi Mai Hoa***

Institute of Materials Science, VAST, Vietnam

10:10 – 10:30 **COFFEE BREAK**

***Chairperson: Nguyen Nhu Dat – VAST, Vietnam
Vienthong Xayavong - NUOL, Laos PDR***

O-04 **DETERMINATION OF SOME OPTICAL PARAMETERS
10:30 – 10:50** **CHARACTERIZING HOMOGENISED FRESH MILK WITH
DOUBLE INTEGRATING SPHERE TECHNIQUE**

***Nguyen Tuan Anh, Dang Xuan Cu, Phung Quoc Bao,
Bach Gia Duong, Vu Anh Phi***

National Center for Technological Progress, Vietnam

O-05 **EFFECTS OF THE ARGON GAS FLOW RATE ON THE
10:50 - 11:10** **FORMATION AND PROPERTIES OF THE TiO₂ COATING IN
PLASMA SPRAYING PROCESS**

***Tran Quang Trung, Nguyen Thi Anh Tho, Tran Viet Cuong, Dang
Thanh Cong***

Ho Chi Minh City University of Technology, Vietnam

O-06 **THE THERMOLUMINESCENCE CHARACTERISTICS OF
11:10 – 11:30** **LIF(Mg,Cu,P) AFTER EXPOSING THE ALPHA RADIATION**

Nguyen Quang Mien and Trinh Nang Chung

Ho Chi Minh City University of Technology

- O-07**
11:13 – 11:50 **DEVELOPMENT OF A DIODE-PUMPED PASSIVELY MODE-LOCKED Nd:YVO₄ LASER OPERATED AT PULSE REPETITION RATES LOWER THAN 10 MHz**
Do Quoc Khanh, Nguyen Dinh Hoang, Nguyen Trong Nghia, Nguyen Van Hao, Dao Duy Thang, Phung Viet Tiep, Trinh Dinh Huy, Pham Long and Nguyen Dai Hung
Institute of Physics, VAST, Vietnam
- 11:50 – 13:30** **LUNCH**

REPORT SESSION

Chairperson: Nguyen The Binh, VNU, Vietnam
Vathsana KHAMVONGSA, NUOL, Laos PDR

- O-08**
13:30 – 13:50 **INVESTIGATION OF PHOTONICS FOR FIBEROPTIC COMMUNICATIONS IN VIETNAM**
Invited talk
Pham Van Hoi
Institute of Materials Science, VAST, Vietnam
- O-09**
13:50 – 14:10 **FABRICATION OF POROUS LAYER ON THE NONDOPED AMORPHOUS SiC THIN FILM BY ANODIC ETCHING METHOD IN THE HF/H₂O/H₂O₂ SOLUTION**
Dao Tran Cao, Luong Truc Quynh Ngan, Cao Tuan Anh, Nguyen Dinh Dung, Pham Phu Thanh Son, Lam Duc Duong, Nguyen Thi Thu Ha, Pham Thi Mai Hoa
Institute of Materials Science, VAST, Vietnam
- O-10**
14:10 – 15:10 **INSTRUMENTATION OF THERMOLUMINESCENCE RADIATION DOSIMETRY AND THERMOLUMINESCENCE DATING**
Huynh Ky Hanh, Phan Tien Dung
Nhatrang Institute of Technology Research & Application-VAST, Vietnam
- 15:10 – 15:20** **COFFEE BREAK**

REPORT SESSION

Chairperson: Nguyen Nang Dinh - VNU, Vietnam

CHEY CHAN OEURN, RUPP, Cambodia

- O-11**
15:20 – 15:40 **STUDY ON SOME INFLUENCES ON THE TECHNICAL
PROCESS AND CHARACTERISTICS OF INFRARED
EMISSION COMPOSITIONS**
***Tran Minh Cong, Le Trong Thiep, Pham Quang Dinh, Bach
Nhat Hong***
Military Academy of Science and Technology, Vietnam
- O-12**
15:40 – 16:00 **OXYGEN DEPLETION AND RESISTANCE SWITCHING
IN Cr-DOPED SrTiO₃ THIN FILMS**
***Bach Thang Phan, Kim Ngoc Pham, Hoang Tuan Tong, Van
Viet Pham, Van Hieu Le, Tuan Tran¹ and Jaichan Lee***
University of Science - VNU – HCM, Vietnam
- O-13**
16:00 – 16:20 **SURFACE MODIFICATION AND FUNCTIONALIZATION
OF MULTISHELL CDSE QUANTUM DOTS FOR THE
FLUORESCENCE-BASED BIOSENSOR FOR THE
DETECTION OF ORGANOPHOSPHATE PESTICIDES**
***Vu Duc Chinh, Pheng Xiong, Do Van Dung, Nguyen Hai
Yen, Nguyen Xuan Nghia, Phan Tien Dung, Nguyen Van Hung,
Pham Thu Nga***
Institute of Materials Science, VAST, Vietnam

16:20 – 17:00 POSTER I

Chairperson: Nguyen Xuan Nghia - VAST, Vietnam
Somsavath LEUANGTAKOUN, NUOL, Laos PDR
Ing Heng, RUPP

- P-01 SOME RESULTS ON USING QUANTUM DOTS FOR BIOLABELING**
Chu Viet Ha, Tran Thanh Thuy, La Thi Huyen, Ung Thi Dieu Thuy
Institute of Physics, VAST, Vietnam
- P-02 COMPOSITE TiO_2 - SnO_2 FILMS PREPARED BY SOL-GEL WITH HIGH PHOTOCATALYTIC PERFORMANCE IN VISIBLE LIGHT**
Huynh Chi Cuong, H. T. Bich Lieu, Duong Ai Phuong, L. Quang. Vinh
University of Science - VNU – HCM, Vietnam
- P-03 SYNTHESIS AND OPTICAL PROPERTIES OF CdS / CdSe QUANTUM DOTS EMBEDDED IN TiO_2 THIN FILMS FOR PHOTONIC APPLICATIONS**
Lam Quang Vinh, Ha Thanh Tung, Huynh Thanh Dat
University of Science - VNU – HCM, Vietnam
- P-04 APPLYING AAS METHOD TO DETERMINE LEAD CONCENTRATIONS IN SOME SAMPLE SOILS AND SUGGESTING SOME WAYS TO REDUCE THE POLLUTION OF LEAD IN THE ENVIRONMENT**
Nguyen Truc Anh, Nguyen Thi Thu Thuy
In-service University Center of Can Tho city
- P-05 ACID BASED SYNTHESIS OF ERBIUM-DOPED COLLOIDAL SiO_2 MICROSPHERES**
Do Thuy Chi, Pham V. Hoi, Pham Thu Nga, Pham Thai Cuong, Bui Huy
P-06 Institute of Materials Science, VAST, Vietnam
- P-06 RAPID COMBUSTION SYNTHESIS OF NANOCRYSTALLINE PHOSPHORS MAl_2O_4 : Eu^{2+} , RE^{3+} (M: Ca, Sr, Ba) AND THEIR SPECTRAL CHARACTERISTICS NANOCRYSTALLINE**
Le Thi Thao Vien, Nguyen Thi Minh Phuong, Nguyen Manh Son
College of Sciences, Hue University, Viet nam

- P-07 INVESTIGATION OF THE FABRICATION AND OPTICAL PROPERTIES OF CdSe/ZnSe/ZnS AND CdSe/CdS/ZnS MULTISHELL QUANTUM DOTS**
Nguyen Ngoc Hai, Vu Thi Hong Hanh, Do Van Dung, Vu Duc Chinh, Pheng Xiong, Nguyen Van Hung, Pham Thu Nga
Institute of Materials Science, VAST, Vietnam
- P-08 SYNTHESIS TiO₂ THIN FILM ON GLASS SUBSTRATE BY ELECTROSTATIC SPRAY METHOD**
Nguyen Cao Khang, Do Thi Nga, Phan Ngoc Minh and Nguyen V. Minh
Hanoi National University of Education, Hanoi, Vietnam
- P-09 FABRICATING, DOMINATING THE SIZE OF TiO₂ PARTICLES AND STUDYING THEIR PROPERTIES**
Nguyen Cao Khang, Kaisone Sonthikoumman, Phan Ngoc Minh and Nguyen van Minh
Hanoi National University of Education, Hanoi, Vietnam
- P-10 THE IMPACT OF NITROGEN AND TEMPERATURE SUBTRATE ON THE OPTICAL AND ELECTRICAL PROPERTIES OF P THIN FILM ZnO:(In,N) BY THE SPUTTERING MAGNETRON DC**
Duong Anh Quang, Le Vu Tuan Hung
University of Science - VNU – HCM, Vietnam
- P-11 KINETIC MONTE CARLO SIMULATION OF THIN FILM GROWTH OF PEROVSKITE STRUCTURE IN EARLY STAGE**
Luu Thanh Phuc, Nguyen Hong Phong, Le Vu Tuan Hung
University of Science - VNU – HCM, Vietnam
- P-12 RESEACHING AND MAKING ALPHA SOURCE U238,U234 ON ALUMINIUM FOIL FOR ALPHA SPECTROSCOPY USING ELECTROPLATE**
Pham Thuy Dung, Le Cong Hao, Chau Van Tao
National center for technology progress- Center for Optoelectronics (CFOC), Vietnam
- P-13 PREPARATION AND CHARACTERRIZATION OF SrTi_{1-x}Fe_xO₃ NANO-COMPOSITE FILMS BY THE PULSED LASER DEPOSITION**
Doan Thi Thuy Phuong, Kaisone Sonthikoumman and Nguyen Van Minh
Hanoi National University of Education, Hanoi, Vietnam

- P-14 CRYSTAL STRUCTURE OF VANADIUM PENTOXIDE THIN FILMS ON THE TRANSPARENT ELECTRODES**
Le Van Hieu, Nguyen Duc Hao, Pham Van Viet
University of Science - VNU – HCM, Vietnam
- P-15 A METHOD TO CALCULATE TRACKING ACCURACY FOR TRAJECTORY MEASURING- TRACKING DOPPLER RADAR SYSTEM OF PROJECTILES**
Bui Tuan Anh, Dao Hoa Viet and Tran Duc Trung
Academy of Military Science and Technology, Ha Noi, Viet Nam
- P-16 INCREASING THERMAL CONDUCTIVITY OF THERMAL PASTE USING CARBON NANOTUBES**
Bui Hung Thang, Phan Ngoc Hong, Pham Van Trinh, Nguyen Van Tu, Nguyen Van Chuc and Phan Ngoc Minh
Institute of Materials Science, VAST, Vietnam
- P-17 APPLICATION OF NANO POLYANILINE/MULTI-WALLED CARBON NANOTUBES FOR PROTECTIVE PAINT**
Bui Hung Thang, Pham Van Trinh, Duong Ngoc Vinh, Dao Duc Khang and Phan Ngoc Minh
Institute of Materials Science, VAST, Vietnam
- P-18 FABRICATION OF Cu MATRIX MATERIAL REINFORCED BY FUNCTIONALIZED CNTs**
Pham Van Trinh, Bui Hung Thang, Tran Tien Dat, Duong Ngoc Vinh, Nguyen Van Tu, Phan Ngoc Minh
Institute of Materials Science, VAST, Vietnam
- P-19 STUDY AND PREPARATION THE CNTs/PANI COMPOSITE AS ANODE MATERIAL FOR ELECTROCHEMICAL ENERGY SOURCE**
Duong Ngoc Vinh, Bui Hung Thang, Pham Van Trinh, Dao Duc Khang, Phan Ngoc Minh
Institute of Materials Science, VAST, Vietnam
- P-20 STUDY TO MANUFACTURE THE DEVICE FOR DISCOVERING MAGNETIC FLOW**
Nguyen Tuan Hung, Pham Quoc Trieu
National Office of Intellectual Property of Vietnam

P-21 THE HOME MADE METAL DETECTING DEVICE AND APPLICATION

Luu Tien Manh, Pham Quoc Trieu

National Institute of Labour Protection, Vietnam

P-22 FABRICATION OF METAL NANOPARTICLES BY LASER ABLATION

Nguyen Thanh Dinh, Nguyen Quang Dong, Trinh Thi Hue, Vu Thi Khanh Thu, Pham Thi Thanh Van, Duong Thi Nguyet, Nguyen The Binh

College of Science, VNU Hanoi, Vietnam

P-23 HIGH-POWER SECURE MICROWAVE COMMUNICATION DEVICE

Dang Thi Thanh Thuy, and Bach Gia Duong

College of Science VNU Hanoi, Vietnam

18:30

CONFERENCE PARTY

Thursday – March 25, 2010

REPORT SESSION

Chairperson: Le Vu Tuan Hung - VNUH, Vietnam

Hang Sim, RUPP, Cambodia

- O-14**
08:30 – 09:00 **PROBLEM OF SUSTAINABLE ENERGY AND THE TECHNOLOGICAL SOLUTIONS OF SOLAR POWER SATELLITE SYSTEM FOR SOLAR ENERGY RECEIVING, CONVERTING, AND TRANSMITTING IN FORM OF THE HIGH POWER MICROWAVE AND/OR LASER BEAM FROM THE SPACE ORBIT TO THE EARTH'S SURFACE (REVIEW)**
Invited talk
Dao Khac An
Institute of Materials Science, VAST, Vietnam
- O-15**
09:00 – 09:20 **IMPROVE ACCURACY OF TRANSMISSION IN AIRCRAFT GUNS**
Le Duc Hanh, Bui Ngoc Hoi, Nguyen Lac Hong
Academy of Military Science and Technology, Hanoi, Vietnam
- O-16**
09:20 – 09:40 **THE USING OF SPECTRAL METHODS TO INVESTIGATE ALUMINA AMORPHOUS THIN FILM AND ITS PHASE TRANSITION**
Giang van Phuc, Le Van Hieu, Huynh Thanh Dat
AnGiang University , AnGiang, Vietnam
- O-17**
09:40 – 10:00 **DETERMINING EXCITED SPECTRUM OF SOME HARMFUL ALGAE IN DO SON COAST, HAI PHONG CITY**
Nguyen Tuan Anh, Bui Thi Thanh Lan
National Center for Technological Progress, Vietnam
- O-18**
10: 00 – 10:20 **COMBINING FREQUENCY MODULATION AND SINGLE SIDE BAND MODULATION TO DESIGN AN UNDERWATER REMOTE CONTROL SYSTEM.**
Chu Xuan Quang, Le Minh Ngoc, Vu Hai Lang, Nguyen T. Thuy
Academy of Military Science and Technology, Hanoi, Vietnam
- 10: 00 – 10:20** **COFFEE BREAK**

REPORT SESSION

Chairperson: Pham Quoc Trieu – VNU, Vietnam

Sonexay XAYHEUNGSY, NUOL, Laos PDR

- O-19** **THE SELF – ABSORPTION CORRECTIONS FOR MARINE**
10:30 – 10:50 **SEDIMENT SAMPLE IN GAMMA – RAY**
 SPECTROMETRY
Tran Thien Thanh, Laurent Ferreux, Marie Christine Lépy,
Chau Van Tao
University of Science - VNU – HCM, Vietnam
- O-20** **MICROWAVE TREATMENT-A RAPID AND EFFICIENT**
10:50 – 11:00 **WAY TO PREPARE GRAPHITE OXIDE BY MODIFIED**
 HUMMERS METHOD
Tran Quang Trung, Huynh Tran My Hoa, Tran Viet Cuong, Le
Thi Thanh, Tran Vinh Son, Dang Thanh Cong
University of Science - VNU – HCM, Vietnam
- O-21** **LARGE-AREA ULTRATHIN FILMS OF THERMO-**
11:00 – 11:22 **REDUCED GRAPHENE OXIDE AS A TRANSPARENT AND**
 ELECTRONIC MATERIAL
Tran Quang Trung, Le Thi Thanh, Tran Viet Cuong, Nguyen
Duy Khanh, Dang Thanh Cong
University of Science - VNU – HCM, Vietnam
- O-22** **STUDY AND DESIGN RF SWITCH MEMS**
11:20 – 11:40 *Nguyen Van Toan, Nguyen Tu Tin, Dong Van Cuong, Bui Van*
 Quang, Vu The Dang, Truong Cong Duan and Nguyen Van
 Hieu
University of Science - VNU – HCM, Vietnam
- 11:40 – 13:30** **LUNCH**

REPORT SESSION

Chairperson: Pham Van Hoi - VAST, Vietnam

Nguyen Thi Thu Thuy, Univ. of Cantho, Vietnam

O-23
13:30 – 13:50 **DESIGNING, PRODUCING COMPUTER ASSISTED
EXPERIMENTS AND PROGRAMMING SUITABLE
SOFTWARE TO SUPPORT TEACHING SOME
KNOWLEDGE OF MAGNETIC FIELD AND
ELECTROMAGNETIC INDUCTION IN THE
CURRICULUM OF THE POLYTECHNIC COLLEGE
VEIN-CHAN, LAOS**

Khamsoulin Chanthavong

Vientiane Polytechnic College, Laos

O-24
13:50 – 14:10 **SYNTHESIS, OPTICAL PROPERTIES AND
BIOAPPLICATIONS OF ORMOSIL NANOPARTICLES**
*Vu Thi Thuy Duong, Chu Viet Ha, Tran Thanh Thuy, Nguyen
Thi Van, Pham Minh Tan*

Institute of Physics, VAST, Vietnam

O-25
14:10 – 14:30 **OPTIMIZATION OF ENDOGLUCANASE PRODUCTION
BY *ASPERGILLUS NIGER* VTCC-F021**

Thi Hoa Pham, Dinh Thi Ouyen, Ngoc Minh Nghiem,

Institute of Biotechnology, VAST, Vietnam

O-26
14:30 – 14:50 **PARTIAL PURIFICATION AND PROPERTIES OF A
XYLANASE FROM *ASPERGILLUS ORYZAE* DSM1863**

Thi Tuyen Do, Dinh Thi Ouyen

Institute of Biotechnology, VAST, Vietnam

14:50 – 15:00 **COFFEE BREAK**

Chairperson: Vu Nhu Cuong – VNU, Vietnam

Tran Thi Tam – VNU, Vietnam

TEANG PANG - RUPP, Cambodia

**P-24 A RESEARCH ON UNTI – VIBRATION METHOD FOR WORKER
OPERATING JACKHAMMERS**

Nguyen Anh Tuan , Trieu Quoc Loc, Nguyen Van Khang

National Institute of Labour Protection

**P-25 PHOTOLUMINESCENCE OF $\text{CePO}_4\text{:Tb}^{3+}$ NANO PARTICLES
SYNTHESIZED FROM $(\text{NH}_4)_2\text{HPO}_4$ BY HYDROTHERMAL
METHOD**

Dinh Xuan Loc, Do Hung Manh, Tran Kim Anh and Le Quoc Minh

Institute of Materials Science, VAST, Vietnam

**P-26 IMPLEMENTATION OF THE DIGITAL LOCK-IN AMPLIFIER
FOR LOW SIGNAL MEASUREMENT**

Nguyen Anh Duc, Pham Quoc Trieu

College of Science VNU Hanoi, Vietnam

P-27 OPTIMIZING PHASED-ARRAY ANTENNA

Le Quang Thao, Nguyen Van Hai

College of Science VNU Hanoi, Vietnam

**P-28 GAMMA-GAMMA COINCIDENCE MEASUREMENT SETUP
FOR NEUTRON ACTIVATION ANALYSIS AND NUCLEAR
STRUCTURE STUDIES**

***Nguyen An Son, Pham Dinh Khang, Nguyen Xuan Hai, Vuong Huu
Tan, Nguyen Van Kien, Ho Huu Thang, Nguyen Nhi Dien***

University of Dalat, Vietnam

**P-29 STUDY OF AN ELECTROCHEMICAL DNA SENSOR FOR
DETECTION OF ESCHERICHIA COLI**

Nguyen Tien Dai, Kim Thi Phuong Oanh and Nong Van Hai

Institute of Materials Science, VAST, Vietnam

- P-30** **ON THE SIMULTANEOUS DIFFUSION OF MULTI-SPICES AND SIMULATION OF THE DYNAMIC DIFFUSION PROCESSES OF DOPANTS ATOM AND POINT DEFECT IN NANO SIZED SILICON MATERIAL**
Vu Ba Dung, Dao Khac An and Nguyen Ngoc Long
Ha noi Mining and Geology University
- P-31** **COMPATIBLE INVESTIGATION OF THE COMPLEX DIFFUSION PROBLEM BASED ON FICK THEORY, IRREVERSIBLE THERMODYNAMIC THEORY AND GENERAL FORCE LAW**
Vu Ba Dung, Dao Khac An and Nguyen Ngoc Long
Ha noi Mining and Geology University
- P-32** **DEPENDENCE OF PHOTOELECTRONIC CAPACITY ON CdS LAYER THICKNESS ON TiO₂ THIN FILM SUBSTRATES**
Dang Tran Chien, Pham Duy Long, Pham Van Hoi, Le Ha Chi
Institute of Materials Science, VAST, Vietnam
- P-33** **SYNTHESIS OF DIAMOND FILMS ON COPPER SUBSTRATES USING MICROWAVE PLASMA CHEMICAL VAPOUR DEPOSITION**
Tran Tien Dat, Pham Van Trinh, Bui Hung Thang, Dang Tran Chien, Phan Ngoc Minh
Institute of Materials Science, VAST, Vietnam
- P-34** **THE μ M-DISPLACEMENT SENSOR AND APPLICATION**
Nguyen Huu Cuong, Pham Quoc Trieu*
- P-35** **PREPARATION SETUP A TCSPC SYSTEMS FOR LIFE-TIME MEASUREMENT**
Dao Duy Thang, Nguyen Dinh Hoang, Phung Viet Tiep, Nguyen Thanh Binh and Dinh Van Trung
Institute of Physics, VAST, Vietnam
- P-36** **MEASUREMENT OF Bi-Po DECAY IN THORIUM DECAY CHAIN**
Doan Thi Hien, Tran Duy Tap, Vo Hong Hai, Masaharu Nomachi, Tran Thien Thanh
University of Science, VNU, HCM, Vietnam

- P-37 FABRICATION AND CHARACTERISTIC OF PLANAR OPTICAL AND ACTIVE OPTICAL WAVEGUIDE FOR TELECOMMUNICATION**
Tran Thi Cham, Bui Huy, Pham Van Hoi
Institute of Materials Science, VAST, Vietnamese
- P-38 OPTICAL INTERFERENCE FILTER BASED ON POROUS SILICON**
Bui Huy, Pham Van Hoi, Nguyen Thuy Van, Pham Duy Long, Do The Anh and Do Thuy Chi
Institute of Materials Science, VAST, Vietnamese
- P-39 REPARATION ALPHA SOURCE U^{234} , U^{238} FOR ALPHA SPECTROSCOPY BY ELECTROPLATING USING ISOPROPYL ALCOHOL**
Le Cong Hao, Luu Xuan Tinh, Chau Van Tao, Nguyen Van Dong, Ho Nha Nghi, Pham Thuy Dung, Nguyen Thanh Liem.
University of Science VNU,HCM, Vietnam
- P-40 CHARACTERIZATION OF HIGH-POWER DIODE LASER BARS FOR PUMPING SOLID-STATE LASERS**
Giang Manh Khoi, Do Xuan Tien
National Center for Technology Progress - NACENTECH, Hanoi, Vietnam
- P-41 CHARACTERISTICS OF A DIODE END – PUMPED PASSIVELY Q-SWITCHED SOLID-STATE Cr^{3+} :LiSAF LASER**
Nguyen Dinh Hoang, Dao Duy Thang, Nguyen Van Hao, and Nguyen Dai Hung
Institute of Physics, VAST,Vietnam
- P-42 NANOSECOND ENERGY-TRANSFER BINARY DYE LASERS**
Phung Viet Tiep, Nguyen Dinh Hoang, Nguyen Trong Nghia, Dao Duy Thang and Nguyen Dai Hung
Center for Quantum Electronics, Institute of Physics, VAST, Hanoi, Vietnam
- P-43 MODE-LOCKED $Nd:YVO_4$ LASER – INDUCED TWO PHOTON FLUORESCENCE OF BIOMEDICAL FLUOROPHORES**
Trinh Dinh Huy,Nguyen Trong Nghia, Nguyen Thanh Binh, Do Quoc Khanh, Nguyen Dai Hung
Institute of Physics, VAST, Vietnam

- P-44** **PREPARATION ALPHA SOURCE U^{234} , U^{238} FOR ALPHA SPECTROSCOPY BY ELECTROPLATING USING ISOPROPYL ALCOHOL**
Le Cong Hao, Luu Xuan Tinh, Chau Van Tao, Nguyen Van Dong, Ho Nha Nghi, Pham Thuy Dung, Nguyen Thanh Liem
University of Science VNU, HCM, Vietnam
- P-45** **STRUCTURAL STUDY OF CARRRAGEENAN EXTRACTED FROM RED SEAWEED EUCHEUMA DENTICULATUM**
Thanh T. Thu Thuy, Tran T. Thanh Van, Phan Minh Phuong, Bui Minh Ly
Institute of Chemistry, VAST, Vietnam
- P-46** **STUDY ON LUMINESECENCE MATERIALS AT NITRA**
Bui The Huy, Ha Xuan Vinh, Tong V. Tuat, Vinh Hao, Ngo Van Tam
Nha Trang Institute of Technology Research and Application, VAST, Vietnam
- P-47** **RESEARCH AND DEVELOPMENT OF DIODE-PUMPED SOLID-STATE Nd^{3+} : DOPED LASERS**
Nguyen Trong Nghia, Do Quoc Khanh, Nguyen Dinh Hoang and Nguyen Dai Hung
Institute of Physics, VAST, Vietnam
- P-48** **DEVELOPMENT OF MUON MEASUREMENT SYSTEM USING PLASTIC SCINTILLATORS**
Nguyen Hoang Thoai Vi, Nguyen Qui Dao, Tran thien Thanh and Vo Hong Hai, Tran Thien Thanh
University of Science, VNU, HCM, Vietnam
- P-49** **SPECTRO-TEMPORAL EVOLUTION AND TRANSIENT RESONATOR IN SOLID-STATE Cr^{3+} : LiSAF LASER EMISSIONS**
*Nguyen Van Hao**, *Nguyen Dinh Hoang, Phung Viet Tiep, Do Quoc Khanh and Nguyen Dai Hung.*
*Institute of Physics, Viet Nam. * Thai Nguyen University of Science*

16:00 – 17:00 CLOSING MEETING

18:30 CONFERENCE PARTY.

ABSTRACT