

SESSION C: PHOTONIC APPLICATIONS

August 16, 2006 (Wednesday)

Chairperson: Prof. Nguyen Van Den (VNU Ho Chi Minh)

(C-01)
08: 00 - 8: 20

INFRARED POLARIZATION SPECTROSCOPY OF PHENANTHRENE

Le Thanh Tu, Erik W. Thulstrup, Duong Ai Phuong (College of Natural Sciences, Ho Chi Minh, Vietnam)

(C-02)
08: 20 - 8: 40

FT-IR, FT-RAMAN SPECTRA AND AB INITIO-RHF, DFT-B3LYP CALCULATIONS OF URIC ACID

Nguyen Hoang Truc, Le Van Truc, Huynh Thanh Dat, Nguyen Van Den (Pedagogic College of Ho Chi Minh, Vietnam)

(C-03)
08: 40 - 09: 00

IDENTIFICATION OF SOME SEAWEED PHYCOCOLLOIDS BY USING OF FTIR, FT-RAMAN AND ¹³C NMR

Tran Thi Thanh Van, Vo Mai Nhu Hieu, Bui Minh Ly (IMS, VAST, NhaTrang)

(C-04)
09: 00 - 09: 20

INVESTIGATION OF ON-LINE ARSENIC SPECIATION ANALYSIS BY HYPHENATED TECHNIQUE HPLC-UV-HG-AAS

Nguyen Dinh Thuat, Bui Minh Ly, Ngo Quoc Bui, Le Lan Anh et al. (IMS, VAST, Nha Trang, Vietnam)

(C-05)
09: 20 - 09: 40

DESIGN AND CONSTRUCTION OF THE 3D COMPUTER

Pham Hoang Minh, Nguyen Duc Thanh, Pham Hong Duong (IMS, VAST)

09: 40 - 09: 55

Coffee Break

Chairperson: Prof. Nguyen The Khoi (VNU Hanoi)

(C-06)
09: 55 - 10: 15

DOSIMETRIC AND OTICAL CHARACTERISTICS OF THERMOLUMINESCENT MATERIAL Li₂B₄O₇: Cu

Ngo Quang Thanh, Nguyen Trong Thanh, Vu Xuan Quang, Nguyen The Khoi (IMS, VAST, Vietnam)

(C-07)
10: 15 - 10: 35

THERMOLUMINESCENT CHARACTERS OF CaSO₄: Dy SINTERED DOSIMETER FOR RADIATION DOSIMETRY

Le Van Tuat, Nguyen Van Tao, Nguyen Van Suu, Ngo Quang Thanh (University of HUE, Vietnam)

(C-08) 10: 35 - 10: 55	TL_ SOFTWARE FOR SIMULATION AND KINETIC ANALYSIS OF THE THERMOLUMINESCENCE GLOW CURVES <i>Vinh Hao, Tong Van Tuat, Ngo Van Tam (Nha Trang IMS, VAST Vietnam)</i>
(C-09) 10: 55 - 11: 15	THE RESEARCH, DESIGN, AND MANUFACTURE OF HIGH TEMPERATURE CONTROLLER FOR SYSTEM MAKING LUMINESCENT POWDER SAMPLES ZnS: Cu,Mn BY CERAMIC METHOD WITH SMALL CONSUMPTION OF POWER <i>Nguyen Duy Tien, Pham Van Ben (College of Natural Sciences, Hanoi)</i>
(C-10) 11: 15 - 11: 35	SOME THERMOLUMINESCENCE DATING IN GO THAP SITE <i>Nguyen Quang Mien and Bui Van Loat (Institute of Archaeology, Hanoi)</i>
Buffet Lunch	
<u>Chairperson: Prof. Chu Dinh Thuy (IPE, VAST)</u>	
(C-11) 13: 30 - 13: 50	SOME RESULTS DEVELOPED FROM THE SIMULATION OF LASER RADIATION PROPAGATION WITH DIFFERENT WAVELENGTH IN AEROSOL OF DIFFERENT WIDTHS, DENSITY, SIZE DISTRIBUTION. <i>Pham Vu Thinh, Tran Thi Phuc, Doan Tung Anh (Military Center for Science, Engineering and Technology, Hanoi, Vietnam)</i>
(C-12) 13: 50 - 14: 10	THE APPLICATION DIODE LASER IN STUDY AEROSOL OF MEDIUM AND ACHIEVE RESULTS <i>Ha Cong Nguyen, Vu Van Luc, Tran Thi Phuc, Luong Vu Hai Nam (Military Center for Science, Engineering and Technology, Hanoi, Vietnam)</i>
(C-13) 14: 10 - 14: 30	THE STUDY ON THE EXTINCTION PROPERTIES OF THE LASER BEAM <i>Bui Thi Thanh Lan, Chu Dinh Thuy, Le Hong Khiem (University of Mining and Geology, Hanoi, Vietnam)</i>
(C-14) 14: 30 - 14: 50	SIMULATION AND INVESTIGATION OF TISSUE OPTICAL ALBEDO BY MONTE CARLO METHOD <i>Huynh Quang Linh, Huynh Thi Thu Thuy, Truong Thi Minh Uyen (College of Technology, Ho Chi Minh, Vietnam)</i>
(C-15) 14: 50 - 15: 10	ÁP DỤNG PHƯƠNG PHÁP MÔ PHỎNG MONTE CARLO ĐỂ XÁC ĐỊNH ĐẶC TÍNH QUANG CỦA MẪU NƯỚC <i>Nguyen Tuan Anh, Dang Xuan Cu (Nacentech, MST, Vietnam)</i>
15: 10 - 15: 25	Coffet Break

Chairperson: Dr. Dang Xuan Cu (Nacentech, MST)

(C-16)
15: 25 - 15: 45

MULTIPOLE SEMICONDUCTOR-LASER EQUIPMENT WITH WAVELENGTH 650 nm AND ITS APPLICATION IN WOUND HEALING TREATMENT AT CENTRAL MILITARY HOSPITAL 108

Nguyen Trong Luu, Nguyen thi Phuong Chi and Le Phuoc Lam (Central Military Hospital 108, Hanoi, Vietnam)

(C-17)
15: 45 - 16: 05

BUILDING A LASER PUMPED-FLUORESCENCE SPECTROMETRY SYSTEM BASED ON SPECTROGRAPH GDM-1000

Nguyen The Binh, Nguyen Anh Tuan, Nguyen Van Hao, Duong Vu Truong, Pham Quoc Trieu (College of Natural Sciences, Hanoi, Vietnam)

(C-18)
16: 05 - 16: 25

WAVEMETER BASED ON LITTROW GRATING CONFIGURATION

Do Quang Hoa, Vu Duong, Dang Duc Manh, Totaro Imasaka (IPE, VAST)

(C-19)
16: 25 - 16: 45

PHASE-SPACE TOMOGRAPHY: METHOD OF EXTRACTING INFORMATION FROM PARTIALLY COHERENT WAVEFIELDS

Vo Trong Nghia, CQ Tran, Tran Quang Trung, K.A.Nugent (College of Natural Sciences, Ho Chi Minh, Vietnam)

(C-20)
16: 45 - 17: 05

EVALUATE KUBELKA-MUNK THEORY IN OFFSET PRINTING

Nguyen Trong Khoa, Dinh Son Thach (Laboratory for Nano-Technology, Ho Chi Minh, Vietnam)

August 17, 2006 (Thursday)

Chairperson: Prof. Do Van Xe (University of CanTho)

(C-21)
08: 00 - 08: 30

PROBLEM IN TEACHING - LEARNING SPECTROSCOPY FOR THE PHYSICS STUDENTS OF EDUCATIONAL SCHOOL IN MEKONG DELTA

(Invited talk)

Nguyen Thi Thu Thuy, Nguyen Hong Nhung, Le Thanh Binh (Pedagogic College, University of CanTho)

(C-22)
08: 30 - 08: 50

DESIGN AND FABRICATION OF SOME EQUIPMENTS FOR TEACHING GEOMETRICAL OPTICS AND MECHANIC IN PHYSICS AT HIGH SCHOOL

Nguyen Manh Thao, Ngo Mai Thanh, Pham Hong Hung and Dang Thuy Nga (Pedagogic College, HaNoi)

(C-23) 08: 50 - 09: 10	AN ALL SOLID LASER KIT FOR EDUCATION AND TRAINING ON PHOTONICS AND LASERS IN UNIVERSITIES <i>Do Quoc Khanh, Nguyen Trong Nghia, Pham Long, <u>Trinh Dinh Huy</u>, Philippe Brechignac, N. The Binh, Nguyen Dai Hung (IPE, VAST, Vietnam)</i>
(C-24) 09: 10 - 09: 30	DESIGNING A VIRTUAL LABORATORY IN PHOTOREFLECTANCE <i><u>Nguyen Thi Ngoc Ha</u>, Truong Kim Hieu, Tran Duy Hoa (College of Natural Sciences, HoChi Minh, Vietnam)</i>
(C-25) 09: 30 - 09: 45	SIMULATION AND LOCK-IN PHASE ANALYSIS IN PHOTOREFLECTANCE MODULATION SPECTROSCOPY OF GAAS, INP AND HETEROJUNCTION STRUCTURE. $\text{Al}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}/\text{GaAs}$ <i>Pham thanh Tam, Nguyen Thi Ngoc Ha, Truong Kim Hieu (College of Natural Sciences, HoChi Minh, Vietnam)</i>
(C-26) 09: 45 - 10: 00	PHOTOLUMINESCENCE AND PHOTOREFLECTANCE INVESTIGATION OF HETEROJUNCTION STRUCTURE $\text{Ga}_{1-x}\text{Al}_x\text{As}(\text{n}^+)/\text{GaAs}(\text{p}^-)/\text{GaAs}(\text{p}^+)$ <i><u>Huynh Sa Hoang</u>, Truong Kim Hieu, Le Hong Vu, Vuong trung Kien (College of Natural Sciences, HoChi Minh, Vietnam)</i>
10: 00 - 10: 15	Coffee Break
<u>Chairperson: Prof. Huynh Thanh Dat (VNU Ho Chi Minh)</u>	
(C-27) 10: 15 - 10: 35	BISTABILITY OF ALTERNATING NANO-PLATES OF NONLINEAR MATERIALS <i><u>Vu Ngoc Sau</u>, Ho Quang Quy, Nguyen Thi Thanh Tam, Truong Thi Anh Dao (Military Center for Science, Engineering and Technology, Hanoi, Vietnam)</i>
(C-28) 10: 35 - 10: 55	THE BISTABILITY OF FABRY-PEROT ETALON EMBEDDED DICHLOROETHANE <i><u>Ho Quang Quy</u>, Tran Ba Chu, Nguyen Van Hoa (Military Center for Science, Engineering and Technology, Hanoi, Vietnam)</i>
(C-29) 10: 55 - 11: 15	KHÔI PHỤC THIẾT BỊ LASER CO_2 Y TẾ, THỰC NGHIỆM VÀ KHẢ NĂNG ỨNG DỤNG <i><u>Hoang Duc Manh</u>, Vu Huu Khanh (Military Center for Sciences, Engineering and Technology, Hanoi, Vietnam)</i>
(C-30) 11: 15 - 11: 35	NGHIÊN CỨU THIẾT KẾ HỆ QUANG HỌC THAY ĐỔI TRƯỜNG NHÌN CHO THIẾT BỊ ẢNH NHIỆT Ở VÙNG PHỔ 8 - 12μm <i><u>Dang Ngoc Son</u>, Tran The Anh, Nguyen Duc Thang (Military Center for Sciences, Engineering and Technology, Hanoi, Vietnam)</i>

Buffet Lunch

Chairperson: Prof. Duong Ai Phuong (VNU Ho Chi Minh)

- (C-31)
13: 30 - 13: 50 **FABRICATION OF TEMPERATURE SENSORS BASED ON FIBER BRAGG GRATING**
Tran Thi Tam, Tran Thanh Cong, Vu Doan Mien, Tran Anh Vu, Do Ngoc Chung, Dang Quoc Trung (College of Technology, VNUH, Hanoi, Vietnam)
- (C-32)
13: 50 - 14: 10 **STRAIN SENSORS USING FIBER BRAGG GRATING TECHNOLOGY**
Tran Anh Vu, Dang Quoc Trung, Le Huu Minh, Do Ngoc Chung, Tran Thi Tam (IMS, VAST, Vietnam)
- (C-33)
14: 10 - 14: 30 **IMPROVEMENT OF TEMPERATURE SENSITIVITY OF FIBER-BRAGG-GRATING SENSORS USING LARGE THERMAL EXPANSION COEFFICIENT MATERIAL SUBSTRATES**
Nguyen Thu Trang, Do Thanh Huu, Pham Van Hoi, Pham Thanh Binh, Ha Xuan Vinh, Chu Thi Thu Ha (College of Technology, VNUH, Hanoi, Vietnam)
- (C-34)
14: 30 - 14: 50 **COATINGS FOR PLASTIC LENSES**
Pham Hong Tuan, Dang Xuan Cu, Nguyen Tuan Vu (Nacentech, MST, Vietnam)
- (C-35)
14: 50 - 15: 10 **CROSSTALK EFFECT ON THE BASIC OF THREE WAVE GUIDES**
Mai Hong Hanh and Dinh Van Hoang (College of Natural Sciences, Hanoi, Vietnam)
- (C-36)
15: 10 - 15: 30 **COSMETIC LASER SURGERY AT THE MILITARY CENTRAL HOSPITAL 108: RECENT RESULTS AND PROSPECTS**
Nguyen The Hung, Pham Huu Nghi, Do Thien Dan, Le Huy Tuan, Le Huu Minh, Pham Long
- 15: 30 -** **Coffee Break**

Closing meeting at the Plenary Session