SESSION C: OPTICS, LASER AND APPLICATIONS

November 28, 2012 (Wednesday)

<u>Chairperson: Prof. Dr. Ho Quang Quy (Academy of Military Sci. & Tech, Hanoi)</u> <u>Dr. Tran Quoc Tien(IMS, VAST)</u>

(C-13) 08:30 - 08:55	DESIGN AND SIMULATION OF THE DIAL LIDAR SYSTEM FOR MEASURING TROPOSPHERIC OZONE
	(Invited talk)
	Pham Minh Tien and Dinh Van Trung
	Ho Chi Minh City Institute of Physics, VAST
(C-14) 08:55 - 09:20	APPLICATION OF COLLIMATION TECHNOLOGY USING INFRARED IN THE HIGH-ACHIEVEMENT SHOOTING SIMULATOR
	(Invited talk)
	Pham Chi Hieu, Giang Manh Khoi, Vũ Văn Liệu, Trần Xuân Thinh
	Center for Technology Development and Transfer, Hanoi
(C-15)	
09:20 - 09:35	DESIGN OF A VARIABLE MAGNIFICATION TELESCOPE
	Ha Nguyen Binh, Pham Hong Tuan, Nguyen Ngoc Tu, Nguyen Tuan Vu
	National Center for Technology Progress- NACENTEC.
(C-16) 09:35 - 09:50	LUMINESCENCE DATING OF ARCHAEOLOGICAL MATERIALS – DETERMINATION OF ANNUAL DOSE USING HIGH RESOLUTION GAMMA SPECTROMETRY
	Bui Huu Thai, Le Hong Khiem
	College of Military Aviation oficers, Nha Trang, Khanh Hoa
(<i>C-17</i>) 09:50 - 10:05	MEASURING ON SIX EFFECTIVE PARAMETERS OF BIO- OPTICAL MATERIALS USING STOKES PARAMETERS
	Pham Thi Thu Hien and Huynh Quang Linh
	Ho Chi Minh City University of Technology, HCM
(C-18) 10:05 - 10:20	SIMULATION OF THE THERMAL QUENCHING EFFECT IN THERMOLUMINESCENCE STUDY
	Bui Thi Bich Hanh, Le Hong Khiem, Le Thi Quynh Hương
	Nha Trang Pedagogic College, Nha Trang, Khanh HOa

(C-19) 10:20 - 10:35 MOLECULAR CONSTANTS OF THE 21P STATE IN NaLi MOLECULE Le Canh Trung, Nguyen Tien Dung, Phan Van Thuan, Dinh Xuan Khoa, Nguyen Huy Bang Vinh University

10:35 – 10:45 Coffee Break

<u>Chairperson: Prof. Dr. Trinh Dinh Chien (VNU Hanoi)</u> <u>Prof. Dr. Ta Van Tuan (NACENTECH, Hanoi)</u>

(C-20)

10:45 - 11:10

1:10 BISTABILITY CHARACTERISTICS OF THE REFLECTED SIGNAL THROUGH A SYMETRIC NONLINEAR MICHELSON INTERFEROMETER

(Invited talk)

Nguyen Manh An and Nguyen Van Hoa

Hong Duc University, Thanh HOa City

(C-21)

11:10 - 11:35 SOME MEDICAL IMAGING APPLICATIONS USING IRRADIATION OF NEAR INFRARED LED ON LIVING TISSUE

(Invited talk)

Huynh Quang Linh, Tran Van Tien, Nguyen Kim Chung, Nguyen Van Hung, Pham Thi Hai Mien

Ho Chi Minh City University of Technology, HCM city

(C-22) 11:35- 11:50

- 11:50 DEVELOPMENT OF A RAYLEIGH LIDAR SYSTEM FOR STUDYING CHARACTERISTICS OF STRATOSPHERIC LAYER ABOVE HANOI

Nguyen Xuan Tuan, Dinh Van Trung, Dam Trung Thong, Bui Van Hai

Institute of Physics. VAST

(C-23)

11:50-11:05 Q-SWITCH ACTIVE Nd:YVO₄ LASER WITH FAST CHOPPER MODULATION

Do Quoc Khanh, Nguyen Dinh Hoang, Dinh Van Trung, Nguyen Van Hao, and Nguyen Dai Hung

Institute of physics, VAST, HaNoi

(C-24) **11:05- 12:20**

20 THE NON- UNIFORMITY OF THE INFRARED IMAGING SYSTEMS USING FPA AND SOME ITS CORRECTION TECHNIQUES

Minh Nguyen Quang, Thanh Nguyen Van, Thi Nguyen Ba

National Center for Technology Progress, Hanoi

(*C*-25) **12:20 -12:35**

CONTROLLING ABSORPTION AND DISPERSION OF THE FIVE-LEVEL CASCADE SCHEME IN RUBIDIUM ATOMS BASED ON ELECTROMAGNETICALLY INDUCED TRANSPARENCY

Pham Van Trong, Le Van Đoai, Le Nguyen Mai Anh, Nguyen Huy Bang and Dinh Xuan Khoa

Vinh University

12:35-13:30 Lunch Buffer

<u>Chairperson:Prof. Dr. Pham Hong Tuan (NACENTECH, Hanoi)</u> <u>Dr. Le Hoang Hai (Le Quy Don Uni., Hanoi)</u>

(C-26

13:30 – 13:55 SIMULATION THE DYNAMIC OF THE DIELECTRIC NANO-PARTICLE IN OPTICAL TWEEZER USING COUNTER-PROPAGATING PULSES

(Invited talk)

Quang Quy Ho, Dinh Hai Hoang and Mai Van Luu

Pedagogical University Nghean, Vinh City, Nghe An

(C-27)

13:55 – 14:20 SELF-QUENCHING CAVITY IN PICOSECOND LASER PULSE GENERATION BY NOBLE METALLIC NANO-PARTICLES

(Invited talk)

N.T.H. Lien, N.T.M. An, V. Duong, D.Q. Hoa,

Institute of Physic, VAST, Hanoi

(*C*-28) **14:20 – 14:35**

THE APPLICATION OF LOW POWER SEMICONDUCTOR LASER THERAPY FOR THE REHABILITATE INJURED LIVER OF DIABETICS TYPE II

Tran Minh Thai, Can Van Be, Ngo Thi Thien Hoa, Tran Thien Hau

University of Technology, Hochiminh City

(C-29)

14:35 – 14:50 AUTO FLUORESCENCE OF TUMOUR LIVER AND NORMAL LIVER TISSUE

Nguyen Dinh Hoang, Nguyen Thi Khanh Van and Nguyen Thanh Binh Institute of physics, VAST

(C-30)	
14:50 - 15:05	DETERMINATION OF ATMOSPHERIC AEROSOL EXTINTION PROFILES WITH A RAMAN LIDAR SYSTEM OVER HANOI
	Bui Van Hai, Dinh Van Trung, Nguyen Xuan Tuan, Nguyen Dinh Hoang, Dam Trung Thong and Nguyen Thanh Binh
	Institute of physics, VAST
(C-31)	
15:05 - 15:20	INVESTIGATION OF EIT ENHANCED KERR NONLINEARITY IN THE FIVE-LEVEL CASCADE SCHEME OF RB85 COLD ATOMS
	Le Van Doai, Pham Van Trong, Dinh Xuan Khoa and Nguyen Huy Bang
	Vinh University

15:20 – 15:35 Coffee Break

<u>Chairperson: Prof. Dr. Nguyen Manh An (Hongduc Uni. Thanh Hoa)</u> <u>Prof. Dr. Do quang Hoa (IOP, VAST)</u>

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