

PROGRAM

November 7, 2016 (Monday)

- 8: 00 - 8: 30** **Registration at the REED Hotel**
(Dinh Dien St., Dong Thanh W., Ninh Binh City).
- 8: 30 - 9: 30** **Official Opening** (Prof. Nguyen Dai Hung & Prof. Dinh Van Trung)
- Welcoming speech of the Governor of Ninh Binh City
 - Opening speech by Prof. Acad. Nguyen Van Hieu
(Conference President)
 - Speech by Prof. Dr. Huynh Thanh Dat
(President. Vietnam National University, Ho Chi Minh City).
 - Speech by Prof. Dr. Yeung Lak Lee
(Vice Director. Advanced Photonic Research Institute, GIST, Korea)
 - Speech by Prof. Dr. Bernard Bourguignon
(Director. Institute of Molecular Science in Orsay. CNRS, France).
 - Speech by Prof. Dr. Katsumi Midorikawa
(Director. RIKEN Center for Advanced Photonics, Japan).
 - Speech by Prof. Acad. Valentin A. Orlovich
(B.I. Stepanov Institute of Physics, NAS Belarus)

PLENARY SESSION

Chairperson:

Prof. Philippe Brechignac (*University of Paris 11, France*)

Prof. Dinh Van Trung (*Institute of Physics, VAST, Vietnam*)

PL-01

09:30 - 10:05

FAST AND SLOW DYNAMICS OF HYDROGEN ATOMS IN SMALL HYDROCARBON MOLECULES INDUCED BY FEW-CYCLE INTENSE LASER PULSES: MIGRATION OF HYDROGEN ATOMS AND PERIODICAL EJECTION OF H_3^+

Kaoru Yamanouchi

School of Science, University of Tokyo, Tokyo, Japan

PL-02

10:05 - 10:40

HIGH HARMONIC SPECTROSCOPY OF ATOMS AND MOLECULES

Chang Hee Nam.

Center for Relativistic Laser Science, Institute of Basic Science. Korea

10:40- 10:55 **Coffee break**

Chairperson:

Prof. Kohzo Hakuta (*University of Electro-Communication, Japan*)
Prof. Pham Van Hoi (*IMS, VAST, Vietnam*)

PL-03

10:55 - 11:30 **NONLINEAR OPTICS IN WAVEGUIDE ARRAYS AND
PHOTONIC NANOWIRES**

Tran Xuan Truong

Le Quy Don University, Hanoi, Vietnam

PL-04

11:30 - 12:05 **BIO-MEDICAL IMAGING BASED ON OPTICAL
INTERFEROMETER**

Tae Joong Eom

Advanced Photonic Research Institute (APRI), GIST, Korea

PL-05

12:05 - 12:40 **LINEAR AND ULTRAFAST INVESTIGATIONS OF A SINGLE
METAL NANOPARTICLE**

Natalia Del Fatti

University of Lyon I, LASIM, CNRS, France

12. 40 - 13.30 **LUNCH**

Chairperson:

Prof. Fabian Rotermund (*KAIST, Korea*)
Dr. Tran Xuan Truong (*Le Quy Don Uni., VN*)

PL-06

13:30 - 14:05 **PERTURBATIVE APPROACH IN THE EXTREM
ULTRAVIOLET REGION**

Lap Van Dao

Swinburne University of Technology, Melbourne, Australia

PL-07

14:05 - 14:40 **NONLINEAR OPTICAL VIBRATIONAL SPECTROSCOPY TO PROBE INTERACTIONS OF MOLECULES WITH NANOPARTICLES**

Aimeric Ouvrard, Abdoul Mouize Zakaria, Natalia Alyabyeva, Serge Carrez, Wanquan Zheng and Bernard Bourguignon*

Institut des Sciences Moléculaires d'Orsay, Université Paris-Sud, Orsay

PL-08

14:40 - 15:15 **LiCaAlF₆ AND LiSrAlF₆ CRYSTALS AS SOLID-STATE VUV TO UV LASER MATERIALS**

Nobuhiko Sarukura

Institute for Laser Engineering, University of Osaka, Japan

15.15 - 15.30 **Coffee break**

Chairperson:

Prof. N. Sarukura (*University of Osaka, Japan*)

Dr. Pham Hong Minh (*IOP, VAST*)

PL-09

15:30 - 16:05 **SPECTROSCOPIC SIGNATURES OF MOLECULES AND GRAINS IN INTERSTELLAR SPACE: INPUT FROM HYDROCARBONATED NANOPARTICLES IN THE LABORATORY**

Philippe Brechignac

Institute of Molecular Science in Orsay, University Paris-11, CNRS, France

PL-10

16:05 - 16:40 **QUANTUM PHOTONICS WITH OPTICAL NANOFIBERS**

Kohzo Hakuta

Center for Photonic Innovations. University of Electro-Communication, Tokyo, Japan

PL-11

16:40 – 17:15 **FIVE-LEVEL CASCADE ATOMIC EIT MEDIUM: AN ANALYTICAL APPROACH AND PROSPECTS**

Dinh Xuan Khoa, Le Van Doai and Nguyen Huy Bang

Vinh University, 183 Le Duan Str., Vinh City, Vietnam

**Hội nghị Quang học - Quang phổ Toàn quốc lần 9
(HNQHQP-9)**

Hall C

November 8, 2016 (Tuesday)

Chairperson:

Prof. Dr. Dinh Xuan Khoa (Vinh University)

Dr. Phan Van Do (Thuyloi University)

C-01

**08: 30 – 08: 55 OPTICAL CHARACTERIZATIONS OF II-VI SEMICONDUCTOR
NANOPARTICLES PREPARED IN CITRATE AQUEOUS
SOLUTION**

(invited talk)

**Chu Viet Ha, Dinh Thi Ha, Nguyen Thi Lan, Trinh Duc Thanh Giang,
Ngo Van Hoang, Phung Van Vung, Nguyen Thi Lan Anh,
Tran Hong Nhung and Vu Thi Kim Lien**

Thai Nguyen University of Education, Luong Ngoc Quyen, Thainguyen

C-02

**08: 55 – 09: 10 EIT FOR A CONFIGURATION WITH THE FANO STRUCTURE
AND BROADBAND COUPLING LASER**

**Doan Quoc Khoa, Nguyen Thanh Truong, Chu Van Lanh,
Nguyen Thi Hong Sang, and Cao Long Van**

Quang Tri Teacher Training College, Dong Ha, Quang Tri.

C-03

**09: 10 – 09: 25 CONTROL BEAD LINKING TO DNA MOLECULE IN SPACE BY
LASER POWER CALIBRATION**

Bui Xuan Kien, Thai Dinh Trung, Ho Quang Quy, N. Van Thinh

Academy of Military Science and Technology, Hoang Sam, Ha Noi

C-04

09: 25 – 09: 45 THE FORMATION OF Cu NANOPARTICLES - INCORPORATED TiO₂ NANOTUBES SYNTHESIZED BY PHOTO-REDUCTION METHOD

Pham Van Viet, Yong Soo Kim, Cao Minh Thi and Le Van Hieu

University of Science, VNU HCM, 227 Nguyen Van Cu, Ho Chi Minh.

C-05

09: 40– 09: 55 FLUORESCENCE LINE NARROWING SPECTROSCOPY OF Eu³⁺ IN ALUMINOBORATE GLASS

**N T. Thanh, P V. Do , V T T. Ha, D T. Anh , V X. Quang,
V P. Tuyen and T. Hayakawa**

Institute of Materials Science, VAST, 18 Hoang Quoc Viet, Hanoi

C-06

09: 55 – 10: 10 SLOWING MULTIPLE-FREQUENCY LIGHT IN A FIVE-LEVEL CASCADE EIT MEDIUM IN THE PRESENCE OF SELF-KERR NONLINEARITY

**Le Van Doai, Nguyen Tuan Anh, Ding Xuan Khoa, Doan Hoai Son,
Nguyen Huy Bang**

HCMC University of food industry, 140 Le Trong Tan, HCM City,

C-07

10: 10 – 10: 25 PREPARATION OF SURFACE ENHANCED RAMAN SPECTROSCOPY (SERS) SUBSTRATES FOR PHARMACEUTICAL APPLICATIONS

Quang Dong Nguyen, The Binh Nguyen, Nhu Anh Nguyen

Thai Nguyen University of medicine and pharmacy, TNU, Thai Nguyen

10: 25 – 10: 40 Coffee break

Chairperson:

Prof. Dr. Vu Thi Kim Lien (*Thai Nguyen Uni.*)

Dr. Vu Duong (*IOP, VAST*)

C-08

10: 40 – 10: 55 STUDY ON LUMINESCENCE QUENCHING OF Sm^{3+} IONS IN K_2YF_5 SINGLE CRYSTAL

(invited talk)

Phan Van Do, Vu Phi Tuyen, Luong Duy Thanh

Thuyloi University, 175 Tay Son, Hanoi, Viet Nam

C-09

10: 55 – 11: 10 THE APPLICATION OF PENELOPE PROGRAM ON BREAST IMAGING

Nguyen Anh Duy, Ly Anh Tu

University of Technology VNU HCM, Ho Chi Minh City

C-10

11: 10 – 11: 25 INFLUENCE OF DOPPLER BROADENING ON CROSS-KERR NONLINEARITY OF A FOUR-LEVEL N-TYPE EIT MEDIUM

**Nguyen Thuy An, Vu Ngoc Sau, Le Van Doai,
Doan Hoai Son and Nguyen Huy Bang**

Vinh University, 183 Le Duan Str., Vinh City, Vietnam

C-11

11: 25– 11: 40 THE PHOTOLUMINESCENCE ENHANCEMENT OF Mn^{2+} IONS IN ZnS:Mn NANOPARTICLE IRRADIATED BY LASER RADIATION

**Dang Van Thai, Pham Van Ben, Bui Hong Van,
Nguyen Duc Long and Tran Minh Thi**

University of Science, VNU Hanoi, 334 Nguyen Trai, Hanoi, Vietnam

C-12

11: 40 – 11: 55 A LOW-COST WEB CAMERA BASED LASER BEAM PROFILER

**Nguyen Thanh Lam, Pham Van Nhi, Phan Thi Hoang Oanh,
Le Thi Quynh Anh**

University of Science, VNU HCMC, 227, Nguyen Van Cu, HCM

C-13

11: 55 – 12: 10 **DEPENDENCE OF FANO-LIKE GUIDED-MODE RESONANCES ON THE STRUCTURAL PARAMETERS OF PHOTONIC CRYSTAL SLABS**

Hoang Thu Trang, Ngo Quang Minh and Arnan Mitchel

Institute of Materials Science, VAST, 18 Hoang Quoc Viet, Hanoi

C-14

12: 10 – 12: 25 **GUIDING MODE CHARACTERISTICS OF HYBRID V-GROOVED SURFACE PLASMON WAVEGUIDE**

Nguyen Thanh Huong, Nguyen Van Chinh, and Chu Manh Hoang

ITIMS, Hanoi University of Science and Technology, Dai Co Viet, Hanoi

12: 30 – 13: 30 **LUNCH**

Chairperson:

Dr. Chu Van Lanh (Vinh University, VN)

Dr. Pham Hong Minh (Institute of Physics, VN)

13.30-17.30 **POSTER SESSION I**

Chairperson:

Prof. Dr. Nguyen Huy Bang (Vinh University)

Dr. Nguyen Thi Thanh Ngan (USTH)

C-15

13: 30 – 13: 55 **INFLUENCES OF SPONTANEOUSLY GENERATED COHERENCE AND RELATIVE PHASE ON PULSE PROPAGATION IN A THREE-LEVEL CASCADE MEDIUM WITH INCOHERENT PUMPING**

(invited talk)

Dinh Xuan Khoa, Hoang Minh Dong, Le Van Doai, Nguyen Huy Bang*

Vinh University, Vinh City, Vietnam

C-16

13: 55 – 14: 10 SYNTHESIS OF BLACK PHOSPHORUS - PRECURSOR OF PHOSPHORENE MATERIAL

**Huynh Tran My Hoa, Bui Thi Tuyet Nhung, Nguyen Anh Duy,
Huynh Tri Phong, Tran Quang Trung**

University of Science, VNU, HCMC, Ho Chi Minh City

C-17

14: 10 – 14: 25 SELF- SIMILARITY IN TRANSIENT BACKWARD STIMULATED RAMAN SCATTERING

Nguyen Manh Thang, Thai Doan Thanh

*Academy of Military Science and Technology, Hanoi, Vietnam, 17,
Hoang Sam, Ha Noi*

C-18

**14: 25 – 14:40 EFFECT OF MOS₂ LAYER THICKNESS ON VISIBLE-
PHOTOCATALYTIC ACTIVITY OF MOS₂/TiO₂
HETEROSTRUCTURE THIN FILM**

**Hang Nguyen Thai Phung, Van Nguyen Khanh Tran, Nga Thi Kim Le,
Phuong Ai Duong, and Hung Vu Tuan Le**

Tay Nguyen University - 567 Le Duan, Buon Ma Thuot city, DakLak

C-19

**14: 40 – 15:05 SUPERCONTINUUM GENERATION IN NONLINEAR SOFT
GLASS PHOTONIC CRYSTAL FIBERS INFILTRATED WITH
LIQUIDS**

T. D. Thanh, K. D. Xuan, V. Thanh Nguyen, T. Bui Dinh*, V. Cao Long

Faculty of Physics and Technology, Vinh University, Nghe An, Vietnam

C-20

**15: 05 – 15:20 PLASMONIC NANOSTRUCTURES BASED ON MONOLAYER OF
CLOSE-PACKAGED SILICA NANOPARTICLES**

**Nguyen Van Minh, Do Thi Hue, Nguyen Ngoc Son, Nghiem Thi Ha Lien
and Chu Manh Hoang**

International Training Ins. for Mat. Science, HUST

15: 20 – 15: 35 Coffee break

Chairperson:

Prof. Nguyen Manh An (Hong Duc University)

Dr. Le Vu Tuan Hung (HCM University of Sciences)

C-21

15: 35 – 16: 00 DEVELOPMENT OF XY NANOPositionING STAGE WITH INTEGRATED CAPACITIVE SENSOR FOR SINGLE MOLECULE FLUORESCENCE MEASUREMENTS

(invited talk)

Dinh Van Trung, Nguyen Thi Thanh Bao

Institute of Physics, VAST, 10 Daotai, Badih, Hanoi

C-22

16: 00 – 16: 15 EFFECTS OF PUMP ON CHARACTERISTICS OF MODES IN RANDOM LASER

Nguyen Van Phu, Dinh Van Hoang

Vinh University, 187 Le Duan, Vinh, Nghe An

C-23

16: 15 – 16: 30 EVALUATION OF PERFORMANCE OF THE LASER BEAM PROFILER THROUGH BEAM RADIUS BASED z-SCAN MEASUREMENT

Nguyen Thanh Lam, Chau Huy, Do Ngoc Thuc, Pham Van Nhi, Duong Ai Phuong, Le Thi Quynh Anh

University of Science, VNU HCMC, 227, Nguyen Van Cu, HCM

C-24

16: 30 – 16: 45 NON- ENZYMATIC FLUORESCENT GLUCOSE BIOSENSOR BASED ON ZnO NANORODS

Mai Hong Hanh, Pham Van Thanh, Sai Cong Doanh, Nguyen Viet Tuyen, Hoang Chi Hieu, Nguyen The Binh

University of Science, VNU Hanoi, 334 Nguyen Trai, Ha Noi

C-25

16: 45 – 17: 05 FABRICATION OF LARGE OPTICAL MIRRORS FOR LIDAR MEASUREMENTS

Pham Dong Bang, Dinh Van Trung, Tran Ngoc Hung, Duong Tien Tho
Institute of Physics, VAST, 10 Dao Tan, Ba Dinh, Ha Noi

C-26

17: 05-17:25 INFLUENCES OF SPONTANEOUSLY GENERATED COHERENCE AND RELATIVE PHASE ON OPTICAL PROPERTIES OF A THREE-LEVEL CASCADE ATOMIC SYSTEM

Le Nguyen Mai Anh, Vo Long Bien, Nguyen Tien Dung, Le Van Doai, and Nguyen Huy Bang

Nong Lam University, Thu Duc District, Ho Chi Minh City

Hội nghị Quang học - Quang phổ Toàn quốc lần 9 (HNQHQP-9)

Hall C

November 9, 2016 (Wednesday)

Chairperson:

Dr. Le Thi Quynh Anh (VNU HCMC)

Dr. Nguyen Trong Thanh (IMS, VAST)

C-27

**08: 30 – 08: 55 DEVELOPMENT OF A PUMP-PROBE SPECTROSCOPY SYSTEM
AND APPLICATIONS TO STUDY PHOTODYNAMIC
PROPERTIES OF NANO MATERIALS**

(invited talk)

N. Thanh Binh, N. D. Cong, P.H. Minh, D.Q. Khanh, V. T. Bich,

Institute of Physics, VAST, 10 Daotian, Badinh, Hanoi

C-28

**08: 55 – 09: 10 INVESTIGATION OF THE EFFECT OF DOPING ON STRUCTURE
AND CHARACTERISTICS OF P-TYPE SnO THIN FILMS
FABRICATED BY REACTIVE DC MAGNETRON SPUTTERING
AND APPIED FOR THE COLLECTED HOLE LAYER OF THE
AMORPHOUS SILICON THIN FILM SOLAR CELLS**

**Pham Hoai Phuong, Nguyen Cong Doan, Ngo Minh Tri,
Tran Quang Trung**

University of Science - VNU HCMC, 227 Nguyen Van Cu, HCM

C-29

**09: 10 – 09: 25 SATURATED ABSORPTION SPECTRUM AND DISPERSIVE
PROPERTIES OF Rb MEDIUM**

**Le Canh Trung, Phan Van Thuan, Luong Thi Yen Nga, Le Van Doai,
Dinh Xuan Khoa, and Nguyen Huy Bang**

Vinh University, 182 Le Duan street, Vinh City, Nghe An

C-30

09: 25 – 09: 45 DEVELOPMENT OF DEFLECTOMETRY METHOD FOR TESTING LARGE ASPHERIC MIRROR

Duong Tien Tho, Tran Ngoc Hung, Dinh Van Trung, Pham Dong Bang

Institute of Physics, VAST, 10 Daotian, Bading, Hanoi

C-31

09: 40– 09: 55 GUIDED-MODE RESONANCES IN PHOTONIC CRYSTAL SLABS FOR RED FILTER APPLICATIONS

Nguyen Van An, Ngo Quang Minh, Pham Van Hoi

Institute of Materials Science, VAST, Hanoi, Vietnam

C-32

09: 55 – 10: 10 INVESTIGATION ON RAMAN SPECTRA OF BORO-TELLURITE GLASSES DOPED Dy³⁺

Vu Phi Tuyen, Nguyen Xuan Ca, Phan Van Do, Luong Duy Thanh

Graduate University of Science and Technology, VAST, 18 Hoang Quoc Viet, Cau giay, Hanoi

C-33

10: 10 – 10: 25 A STUDY ON DIRECT COUPLING BETWEEN PHOTONIC AND WEDGE SURFACE PLASMON WAVEGUIDES

Nguyen Van Chinh, Nguyen Thanh Huong, and Chu Manh Hoang

Hanoi University of Science and Technology, No. 1, Dai Co Viet, Hanoi

10: 25 – 10: 40 Coffee break

Chairperson:

Prof. Nguyen The Binh (VNU Hanoi, VN)

Dr. Tran Quoc Tien (IMS, VAST, VN)

10.40- 17.30 POSTER SESSION II

Chairperson:

Dr. Tran Ngoc (*Quang Binh University*)

Dr. Mai Van Luu (*Vinh University*)

C-34

10: 40 – 10: 55 TREATMENT RESULT OF HYPERTENSION IN TYPE 2 DIABETES PATIENTS BY LOW POWER SEMICONDUCTOR LASER

(invited talk)

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

Ho Chi Minh City University of Technology - VNU HCMC,

C-35

10: 55 – 11: 10 DESIGNING A PHASE MASK TO ATHERMALIZE THE INFRARED OBJECTIVES

Nguyen Quang Hiep, Hoang Anh Tu

Military Technical Academy, 236 Hoang Quoc Viet, Ha Noi, Viet Nam

C-36

11: 10 – 11: 25 INFLUENCE OF THE SYNTHESIS PARAMETERS ON THE STRUCTURE AND OPTICAL PROPERTIES OF NaYF₄:Er NANOPARTICLES

Cao Thi My Dung, Nguyen Van Thon, Le Van Hieu, Tran Thi Thanh Van

University of Science, VNU, HCMC, 227 Nguyen Van Cu, HCM city

C-37

11: 25– 11: 40 DEVELOPMENT OF A PASSIVELY Q-SWITCHED HIGH POWER PULSED ND:YAG LASER FOR LIDAR MEASUREMENTS OF HIGH ATMOSPHERE

Bui Van Hai, Dinh Van Trung, N. Minh Tien, Tran Ngoc Hung,

Institute of Physics, VAST, 10 Dao Tan, Badinh, Hanoi

C-38

11: 40 – 11: 55 RESEARCHING, DESIGNING AND DEVELOPING A CONFIGURATION USING EFFICIENTLY SOLAR POWER FOR OFFSHORE FISHING EXPLOITING VESSELS

Tran Tien Phuc

Nha Trang University, 02 Nguyen Dinh Chieu Nha Trang City

C-39

11: 55 – 12: 10 CW Er-DOPED FIBER RING LASER: NUMERIAL MODELLING AND SOME EXPERIMENTAL RESULTS

Duong Chi Dung, Phan Nguyen Nhue, Le Hoang Hai

Military Technical Academy, 236 Hoang Quoc Viet, Ha Noi, Viet Nam

C-40

12: 10 – 12: 25 DISPERSIVE AND ABSORPTIVE PROPERTIES OF A DOPPLER BROADENED MULTI-WINDOW EIT MEDIUM: DIRECT MEASUREMENTS AND THEORETICAL ANALYSIS

Le Canh Trung, Phan Van Thuan, Le Van Doai, Dinh Xuan Khoa and Nguyen Huy Bang

Vinh University, 182 Le Duan street, Vinh City, Nghe An

12.30-13.30 LUNCH

Chairperson:

Prof. Nguyen Xuan Nghia (IOP, VAST)

Prof. Nguyen Van Phu (Vinh University)

C-41

13: 30 – 13: 55 ROBUSTNESS OF ENTANGLEMENT IN A KERR-LIKE COUPLER EXCITED BY A SERIES OF UTRA-SHORT EXTERNAL PULSES

(invited talk)

Dung Nguyen Thi, An Nguyen Manh, Hoa Nguyen Van

Hong Duc University, 565 Quang Trung Rd., Thanh Hoa City

C-42

13: 55 – 14: 10 EXPERIMENTAL RESEARCH OF THRESHOLD CONTRAST OF A CCD CAMERA

Le Duy Tuan, Duong Chi Dung, Pham Van Quan

Military Technical Academy, 236 Hoang Quoc Viet, Ha Noi, Viet Nam

C-43

14: 10 – 14: 25 OPTICAL BISTABILITY DUE TO SELF-KERR NONLINEARITY OF A THREE-LEVEL EIT MEDIUM UNDER DOPPLER BROADENING

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

Sai Gon University, 273 An Duong Vuong, Ho Chi Minh City

C-44

14: 25 – 14:40 DETECTION OF SUDAN IN CHILI SAUCE BY SURFACE-ENHANCED RAMAN SCATTERING TECHNIQUE

**Cao Tuan Anh, Kieu Ngoc Minh, Luong Truc Quynh Ngan,
Dao Tran Cao, Le Van Vu, Trinh Phi Hiep**

Tan Trao University, Trungmon Commune, Yenson, Tuyen Quang

C-45

14: 40 – 15:05 LIGHT EXTRACTION EFFICIENCY OF III-NITRIDE NANOWIRE BASED LED AT RED WAVELENGTH

Tran Quang Thuan, Phan Van Dat, Huynh Quoc Khuong, Vo Trong Nghia, Dinh Son Thach, Nguyen Pham Trung Hieu, Pham Tan Thi

Posts and Communications Institute of Technology, Ho Chi Minh City

C-46

15: 05 – 15:20 DEVELOPMENT OF THE PYROMETER MODEL FOR REMOTE MEASUREMENT OF AN EXPLOSION TEMPERATURE

Nguyen Minh Hue, Le Duy Hoan, Duong Chi Dung

Military Technical Academy, 236 Hoang Quoc Viet, Ha Noi, Viet Nam

15: 20 – 15: 35 Coffee break

Chairperson:

Prof. Dr. Ho Quang Quy (*Academy of Military Science and Technology*)

Dr. Do Quoc Khanh (*IOP, VAST*)

C-47

15: 35 – 16: 00 OPTICAL SPECTRAL STUDIES OF Ce³⁺ AND Sm³⁺ IONS CO-DOPED IN ALKALI BORATE GLASSES

(invited talk)

Tran Ngoc, Tran Thi Hoai Giang

Quang Binh University, 312 Ly Thuong Kiet, Dong Hoi City, Quang Binh

C-48

16: 00 – 16: 15 STUDY OF ATMOSPHERIC STRUCTURE OF TROPOSPHERE AND STRATOSPHERE IN HANOI USING LIDAR TECHNIQUES

Nguyen Xuan Tuan, Dinh Van Trung, Bui Van Hai

Institute of Physics, VAST, 10 DaoTan, BaDinh, Hanoi

C-49

16: 15 – 16: 30 SOME MATTERS OF LENS CENTERING

Bui Dinh Bao, Le Duy Tuan, Latyev S.M.

Military Technical Academy, 236 Hoang Quoc Viet, Ha Noi, Viet Nam

C-50

16: 30 – 16: 45 SYSTEMATIC DEPENDENCE OF THE OPTICAL SECOND HARMONIC GENERATION INTENSITY ON THE DESIGNED PARAMETERS OF Cr NANOHOLES

**Ngo Khoa Quang, Yoshihiro Miyauchi, Goro Mizutani,
Martin D. Charlton, Ruiqi Chen, Stuart Boden and Harvey Rutt**

Hue College of Science, Hue University, 77 Nguyen Hue, Hue city

**17: 00 – 17: 30 OFFICIAL CLOSING
PLENARY SESSION (HALL C)**