

SESSION A: PHOTONICS AND APPLICATIONS
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<i>November 28, 2012 (Wednesday)</i>

Chairperson: Prof. Dr. Carole Diederichs (ENS Paris. France)

Dr. Nguyen Hai Son (IOP, VietNam)

- (A-12)
08:30 – 08: 55 **SHAPING LIGHT WITH PLASMONIC STRUCTURES AND METAMATERIALS**
(Invited talk)
Yuri Kivshar
Nonlinear Physics Centre Research School of Physics and Engineering, The Australian National University. Australia
- (A-13)
08:55 – 09: 20 **PLASMONS IN ATONOMIC-SCALE/NANOSCALE OBJECTS AND THEIR APPLICATIONS**
(Invited talk)
Tadaaki NAGAO
International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), Tsukuba. JAPAN
- (A-14)
09: 20 – 09: 45 **SCATTERING CROSS SECTION FOR METAMATERIALS**
(Invited talk)
Chia-Chu Chen
National Cheng-Kung University. Tainan, Taiwan.
- (A-15)
09: 45 – 10: 00 **PREPARATION AND CHARATERIZATION OF SILICA-GOLD CORE-SHELL (SiO₂@Au) NANOPARTICLES**
T. Ha Lien Nghiem, Tuyet Ngan Le, T. Hue Do, Hong Nhung Tran
Institute of Physics, VAST. VN
- (A-16)
10: 00 – 10: 15 **SURFACE ENHANCED RAMAN SCATTERING ON AU-AG ALLOY NANOPARTICLES**
Quang Dong Nguyen, Duc Dung Nguyen and The Binh Nguyen
Department of Physics, University of Science, VNU Hanoi, Vietnam
- (A-17)
10: 15 – 10: 30 **ACCURATE POTENTIAL ENERGY FOR THE 21II STATE OF NALI BY THE INVERTED PERTURBATION APPROACH**
N. Tien Dung, Le Canh Trung, Dinh Xuan Khoa, Nguyen Huy Bang*, Szczepkowski, W. Jastrzebski and P. Kowalczyk,
* Vinh University, Vinh, Vietnam
IOP, Polish Academy of Science, Poland.
- 10:30 – 10: 45** **Coffee Break**

Chairperson: Dr. Philippe Zeitoun (ENSTA, EPT France)

Dr. Nghiem Thi Ha Lien (IOP, VAST)

- (A- 18)
10: 45 – 11: 10 **CORRELATIVE DYNAMIC FLUORESCENCE MICROSCOPY TO ASSESS ANTIBIOTIC ACTIVITY IN BIOFILMS**
(Invited talk)
S. Daddi Oubekka, R. Briandet, K. Steenkeste and M.-P. Fontaine-Aupart
Institut des Sciences Moléculaires d'Orsay, Univ. Paris-Sud, Orsay. France
- (A-19)
11: 10 – 11: 35 **NANOSCALE ONE-SHOT MICROSCOPIC SURFACE PROFILOMETRY EMPLOYING DOUBLE-WAVELENGTH STIMULTANEOUS PHASE SHIFTING INTERFEROMETRY**
(Invited talk)
Liang Chia Chen, Phan Van Tiep, Abraham Mario Tapilouw, Shyh-Tsong Lin, Sheng-Lih Yeh, Pham Hong Tuan
National Taiwan University, Taipei. Taiwan
- (A- 20)
11: 35 – 11: 50 **ULTRAFAST OPTICAL AND X-RAY ABSORPTION STUDIES OF AQUEOUS IODIDE**
Van-Thai Pham*, Thomas J. Penfold, Renske M. van der Veen, Frederico Lima, Amal El Nahhas, Steve L. Johnson, Paul Beaud, Rafael Abela, Christian Bressler, Ivano Tavernelli, Christopher J. Milne and Majed Chergui
* Institute of Physics, VAST, Hanoi, Vietnam
Ecole Polytechnique de Lausanne. Switzerland
- (A-21)
11: 50 – 12: 05 **THE SENSITIVE DETECTION OF NITRIC OXIDE ADDRESSING ITS STRONG ELECTRONIC BAND BY FARADAY MODULATION SPECTROSCOPY**
Lemthong Lathdavong*, Jie Shao, Jonas Westberg, and O.Axnex
* Faculty of Science, Department of Physics, National University of Laos
Department of Physics, Umeå University, Sweden
- (A-22)
12: 05 – 12: 20 **VACUUM-ULTRAVIOLET FLUORESCENCE OF Nd³⁺:LuLiF₄ ARISING FROM THE 290-nm EXCITATION IS DUE TO TWO-PHOTON ABSORPTION**
Pham Hong Minh*, Kohei Yamanoi, Yuki Minami, Ryosuke Nishi, Yuki Shinzato, Mizuki Tsuboi, Luong Viet Mui, Tomoharu Nakazato, Toshihiko Shimizu, Nobuhiko Sarukura, Marilou Cadatal-Raduban, Yuui Yokota, Akira Yoshikawa
* Institute of Physics, VAST, Hanoi. Vietnam
Institute of Laser Engineering, Osaka University, Osaka. Japan
- (A-23)
12: 20 – 12: 35 **LUMINESCENCE CHARACTERISTICS OF TRIVALENT PRASEODYMINUM ION IN APLF GLASS**

Kohei Takeda, M. Tsuboi, M. Kouno, T. Nakazato, T. Shimizu, M. Cadatal-Raduban, K. Yamanoi, K. Sakai, R. Nishi, Y. Minami, Y. Arikawa, N. Sarukura, et al.

Institute of Laser Engineering, Osaka University, Suita, Osaka. Japan.

12: 35 – 13:30

Buffet Lunch

SESSION A: PHOTONICS AND APPLICATIONS

Chairperson: Prof. Dr. Sylvia Turrell (Lille Uni., France)

Dr. Lam Quang Vinh (VNU HoChiMinh)

(A-24)
13: 30 – 13: 55

COHERENT ULTRA-FAST X-RAY IMAGING, APPLICATION TO THE STUDY OF MAGNETIC NANO-SYSTEMS

(Invited talk)

Ph. Zeitoun, B. Vodungbo, G. Lambert, J. Luning

Laboratoire d'Optique Appliquée, ENSTA, Ecole Polytechnique, Palaiseau. France

(A-25)
13: 55 – 14: 20

IN SITU STUDY BY VIBRATIONAL SFG AND FLUORESCENCE CONFOCAL MICROSCOPY OF THE COMPETITION BETWEEN PROTEIN ADSORPTION AND BACTERIAL ADHESION ONTO SURFACE-GRAFTED ODT BRUSHES

(Invited talk)

E. Bulard, M-P. Fontaine-Aupart, H. Dubost, W. Zheng, M-N. Bellon-Fontaine, J-M. Herry and B. Bourquignon

Institut des Sciences Moléculaires d'Orsay, Univ Paris-Sud, Orsay. France.

(A-26)
14: 20 – 14: 35

LOW-COHERENT LIGHT SOURCE SAVART SHEARING INTERFEROMETER FOR SLOPE CONTOUR MEASUREMENTS

Memq-Chi Wei and Shyh-Tsong Lin

National Taipei University of Technology, Taipei. Taiwan

(A-27)
14: 35 - 14: 50

MEASURING THE TEMPERATURE IN THE ENVELOPE OF RED SUPERGIANT USING HIGH RESOLUTION SPECTROSCOPY OF MOLECULAR EMISSION BANDS

Dinh Van Trung

IOP, VAST

(A-28)
14: 50 - 15: 05

INVESTIGATION ON BANDWIDTH OF TUNABLE BANDPASS FILTER IN LINEAR MULTIWAVELENGTH BEFL

Amilia Mansoor, Marinah Othman, Hairul A. Abdul Rashid, Zulfadzli Yusoff

Multimedia University Jalan Multimedia, Cyberjaya, Selangor. Malaysia.

(A- 29) 15: 05 – 15: 20	SCANNING WHITE LIGHT NEWTON INTERFEROMETER FOR PLANE OPTICAL SURFACE MEASUREMENTS <u>Chung-HengLin and Shyh-Tsong Lin</u> National Taipei University of Technology (NTUT), Taipei. Taiwan
15:20 – 15- 35	Coffee Break <u>Chairperson: Dr. Doseok Kim (Sogan Uni., Korea)</u> <u>Dr. Thomas Pino (Paris 11 Uni., France)</u>
(A- 30) 15: 35 – 15: 50	MODELIZATION OF PLASMA-BASED SEEDED SOFT-X-RAY LASERS <u>Eduardo Oliva and Philippe Zeitoun</u> Laboratoire d'Optique Appliquée, ENSTA Paristech, Ecole Polytechnique Paristech, CNRS, Palaiseau. France
(A- 31) 15: 50 – 16: 05	COMPREHENSIVE LITERATURE REVIEW IN NANO-SCALE SUPER-RESOLUTION USING OPTICAL METHODS <u>Liang-Chia Chen*</u>, Minh-Quan Le, Shih-Tsong Lin, Sheng-Lih Yeh, Pham Hong Tuan, Hsiao-Hui Wu, Chia-Cheng Kuo National Taipei University of Technology (NTUT), Taipei. Taiwan
(A- 32) 16: 05 – 16: 20	IMPACT OF EXTINCTION RATIO IN LINEAR OPTICAL SAMPLING <u>Trung-Hien Nguyen</u>, Fausto Gomez-Agis, Mathilde Gay, Laurent Bramerie, Jean-Claude Simon and Olivier Sentieys CNRS Foton (UMR 6082), ENSSAT, Lannion Cedex. France
(A- 33) 16: 20 – 16: 35	INVESTIGATION OF SPECTRAL CHARACTERISTICS IN BROADBAND AND NARROWBAND LASER EMISSIONS FROM DIODE-PUMPED Cr:LiSAF LASERS USING MULTI-WAVELENGTH RATE EQUATIONS <i>Nguyen Van Hao, Pham Hong Minh, Do Q. Khanh et al.</i> IOP, VAST
16: 35 – 17: 30	POSTER I