



**WINTER COLLEGE ON
MICRO AND NANO PHOTONICS FOR LIFE SCIENCES
11-22 February 2008**

Venue: ICTP Main Building
Co-sponsored by: ICO, OSA, SPIE, EOS and OWLS
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LAMP poster session II

Tuesday, 19 February 2008, 18:00-19:30

- | (board n.) | Title | Author, affiliation |
|------------|--|---------------------|
| (23) | <i>The role of soliton in the electrical conductivity of DNA in the Metal-DNA-Metal structure</i>
Tahereh Ghane , Ferdowsi University of Mashhad, Mashhad, Islamic Republic of Iran | |
| (24) | <i>Study about digital holography and diffractive element</i>
Mona Mihailescu , University 'Politehnica' of Bucharest, Bucharest, Romania | |
| (25) | <i>Transformation of a laser Gaussian beam into vortex beams using a fork-shaped hologram</i>
Suzana Topuzoski , University Kiril I Metodij, Skopje, the Former Yugoslav Rep. of Macedonia | |
| (26) | <i>Highly Excited states of Group II-B elements</i>
Nadeem Ali , National Institute of Lasers and Optronics, Islamabad, Pakistan | |
| (27) | <i>Fluorescence correlation spectroscopy measurements near an interface</i>
Laura Cecilia Estrada , Universidad de Buenos Aires, Buenos Aires, Argentina | |
| (28) | <i>Raman spectroscopy applied to the study of fluorinated polymers</i>
Stefano Radice , Solvay Solexis, Milan, Italy | |
| (29) | <i>Capturing protein on surfaces: an AFM approach</i>
Barbara Sanavio , S.I.S.S.A., Trieste, Italy | |
| (30) | <i>Observation of strong coupling in GaN micro cavities</i>
Ahmed Yahya Alyamani , King Abdulaziz City For Science and Technology, Riyadh, Saudi Arabia | |
| (31) | <i>Isotope shift Determination using CARS techniques</i>
Abdul Kader Jazmati , Atomic Energy Commission of Syria, Damascus, Syrian Arab Republic | |



- (32) *3D-observation of cytomixis in mother pollen cells of Nicotiana tabacum L*
Arseniya Alexandrovna Shelemba Chepurnova, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russian Federation
- (33) *Study on Liquid Crystalline phases in DNA*
Joanna Olesiak, Wroclaw University of Technology, Wroclaw, Poland
- (34) *Monte Carlo simulations to study photon migration in turbid media*
Tahani Salaheldin Mohamed Shatir, University of Khartoum, Khartoum, Sudan
- (35) *Synthesis of Highly Luminescent Nanocrystals for Biological Labeling*
Reyhaneh Nazarian, Sharif University of Technology, Tehran, Islamic Republic of Iran
- (36) *Cavitation Induced by Continuous Wave Laser*
Enrique Rodriguez Aboytes, Instituto Nacional de Astrofisica, Puebla, Mexico
- (37) *TIRF- Total Internal Reflection Fluorescence: New Prospects for Point of Care Diagnostics*
Franziska Curdt, Fraunhofer-Institute Fuer Physikalische Messtechnik, Freiburg Im Breisgau, Germany
- (38) *A simple method to synthesize silver nanoparticles by photo-reduction*
Flavia Rodrigues De Oliveira Silva, Escola Politecnica da Universidade de Sao Paulo, Sao Paulo, Brazil
- (39) *The optical Rankine vortex and anomalous circulation of light*
Raul Ignacio Hernandez Aranda, Instituto Tecnologico y de Estudios Superiores de Monterrey, Monterrey, Mexico
- (40) *Experimental Study of the Optical Trapping in Near-Field*
Juan Pablo Vite Frias, Centro de Investigacion Cientifica y Educacion Superior de Ensenada, Ensenada, Mexico
- (41) *Enhanced nonlinear response of nano-structured SOI measured by reflection Z-scan with a femto-laser*
A. Petris^a, V. I. Vlad^a
F. Pettazzi^b, E. Fazio^b, M. Bertolotti^b
C. Peroz^c, Y. Chen^c
^a National Institute for Laser, Plasma and Radiation Physics, Bucharest, Romania
^b Univ. "La Sapienza", Dipartimento di Energetica, Roma, Italy
^c Lab. de Photonique et de Nanostruct., Group Nanotech. & Microfluidics CNRS, Marcoussis, France
- (42) *Imaging of Human Hair with Scanning Near-field Infrared Microscopy (SNIM) and Confocal Raman Microscopy*
Alla Kress, Ruhr-University, Physical Chemistry II, Bochum, Germany



- (43) *Optical trap for 3D manipulation of live cells using telescopic lens*
Ruby Raheem, The University of Edinburgh, Edinburgh, U.K.
- (44) *Effect of LaF₃ passivation on the photoluminescence property of porous silicon*
Abu Bakar Md. Ismail, University of Rajshahi, Rajshahi, Bangladesh
- (45) *Experimental studies and theoretical reconstruction of laser beam propagation in soft tissue phantoms*
Claudia P. Valdes, E. Solarte, Y. Banguero, B. Cabrera, Universidad del Valle, Cali, Colombia
- (46) *Nanoscale imaging of structured samples for NLO by SNOM and AFM*
Petronela Doia, V.I. Vlad, and A. Petris, National Institute for Laser, Plasma and Radiation Physics, Bucharest, Romania



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