

List of posters

Please note that no posters have been submitted for topic 2 (Optoacoustic and thermoacoustic tomography) and topic 18 (Laser based IR thermography and ultrasound tomography)

- T1** = TOPIC 1 - SCANNING, IMAGING AND DEPTH PROFILING OF MATERIALS
- T3** = TOPIC 3 - PHOTOACOUSTIC AND PHOTOTHERMAL IMAGING IN BIOMEDICAL APPLICATIONS AND PHOTOTHERMAL THERAPY USING NANOPARTICLES
- T4** = TOPIC 4 - PHOTOACOUSTIC AND PHOTOTHERMAL IMAGING AND MICROSCOPY IN MATERIAL RESEARCH
- T5** = TOPIC 5 - ENVIRONMENTAL SENSORS AND APPLICATIONS
- T6** = TOPIC 6 - NON-DESTRUCTIVE TESTING AND INDUSTRIAL APPLICATIONS
- T7** = TOPIC 7 - SPECTROSCOPY, ANALYTICAL CHEMISTRY, NONLINEAR OPTICS AND PHOTOCHEMISTRY
- T8** = TOPIC 8 - STIMULATED AND SPONTANEOUS BRILLOUIN AND RAMAN SCATTERING (ACOUSTIC AND OPTICAL PHONONS)
- T9** = TOPIC 9 - ULTRAFast THERMO-ELASTIC PHENOMENA AND MOLECULAR DYNAMICS
- T10** = TOPIC 10 - THERMAL AND ELASTIC PROPERTIES ON NANO-SCALE AND IR MICRO-ANTENNAS
- T11** = TOPIC 11 - SEMICONDUCTORS, MEMS, NEMS AND PHONONIC BANDGAP MATERIALS
- T12** = TOPIC 12 - COMPLEX FLUIDS, PHASE TRANSITIONS AND GLASS TRANSITIONS
- T13** = TOPIC 13 - BIOLOGICAL MATERIALS, AGRICULTURAL AND FOOD SCIENCES
- T14** = TOPIC 14 - NEW INSTRUMENTATION AND METHODOLOGY
- T15** = TOPIC 15 - NONLINEAR EFFECTS, LARGE DEFORMATIONS AND SHOCK WAVE PHYSICS
- T16** = TOPIC 16 - DYNAMICS OF PHOTOINDUCED PROCESSES
- T17** = TOPIC 17 - NEW APPLICATIONS BASED ON PHOTOACOUSTIC AND PHOTOTHERMAL PHENOMENA
- T19** = TOPIC 19 - OTHER

TOPIC 1 - SCANNING, IMAGING AND DEPTH PROFILING OF MATERIALS

- PO-T1-1** **THERMAL IMAGING OF HOT SPOTS IN NANOSTRUCTURED MICROSTRIPES**
E. Saïdi¹, H. Diaf¹, J. Lesueur¹, A. Lionel¹, M. Mortier², J. Laberguerie-Egea²
¹ESPCI, PARIS, France
²ENSCP/CNRS, PARIS, France

- PO-T1-2** **PHOTOACOUSTIC DETECTION OF INHOMOGENEITIES IN TURBID MEDIA**
F. Ranea-Sandoval¹, P. Grondona², G.M. Bilmes³, H.O. Di Rocco¹, J.A. Pomarico¹, D. I. Iriarte¹
¹Universidad Nacional del Centro de la Provincia de Buenos Aires, TANDIL (BA), Argentina
²Universidad Nacional de Rosario, Rosario (Santa Fe), ROSARIO (SF), Argentina
³Centro de Investigaciones Ópticas (CONICET-CIC) and UN La Plata, LA PLATA, Argentina

- PO-T1-3** **FAST NUMERICAL ALGORITHM FOR THE RECONSTRUCTION OF THE IN-DEPTH ACOUSTIC IMPEDANCE DISTRIBUTION USING LASER-INDUCED UNIPOLAR ULTRASONIC PULSES**
A. Shtokolov¹, I. Pelivanov²
¹M.V. Lomonosov Moscow State University, MOSCOW, Russian Federation
²Physics Department of M.V. Lomonosov Moscow State University, MOSCOW, Russian Federation

- PO-T1-4** **CORRELATION BETWEEN THERMAL AND MECHANICAL PROPERTIES OF HARDENED STEELS TREATED BY NITRIDING PROCESS**
T. Ghrib, IPEIN Nabeul, EL FAHS, Tunisia
- PO-T1-5** **PHOTOACOUSTIC SCAN TECHNIQUE TO MEASURE THERMAL WAVE DIFFUSION AND REFLECTION ACROSS COATING INTERFACES**
J. Philip, O. Raghu, Cochin University of Science and Technology, COCHIN, India
- PO-T1-6** **CHARACTERIZATION OF FUNCTIONALLY GRADED COATING BY LASER ULTRASONICS**
Y. Pan¹, X. Song¹, Z. Zhong¹, B. Bonello²
¹Tongji University, SHANGHAI, China
²Université Pierre et Marie Curie, PARIS, France
- PO-T1-7** **PHOTOTHERMAL RADIOMETRIC TIME-DOMAIN INSPECTION OF SOLID SPECIMEN BY MOVING LINE HEAT SOURCE**
T. Hoshimiya, M. Suzuki, H. Endoh, Tohoku Gakuin University, TAGAJYO, Japan
- PO-T1-8** **DEPTH PROFIOMETRY OF DENTAL RESINS BY PHOTOTHERMAL RADIOMETRY**
A. Mandelis¹, J.J. Alvarado-Gil²
¹University of Toronto, TORONTO, Canada
²CINVESTAV-Unidad Merida, MERIDA, Mexico

TOPIC 3 - PHOTOACOUSTIC AND PHOTOTHERMAL IMAGING IN BIOMEDICAL APPLICATIONS AND PHOTOTHERMAL THERAPY USING NANOPARTICLES

- PO-T3-1** **MEASUREMENTS ON LIQUID SOLUTIONS USING LOW COST, LOW POWER, L.E.D. PHOTO-ACOUSTICS**
K. Williams, Kingston University, KINGSTON UPON THAMES, United Kingdom
- PO-T3-2** **THERMAL DIFFUSIVITY OF CALCIUM PHOSPHATE FOR BIOMEDICAL USE**
M. Mendez¹, L. Santamaria¹, A. Calderon², A. Cruz-Orea³
¹National Polytechnic Institute, MEXICO CITY, Mexico
²CICATAC-IPN, MEXICO CITY, Mexico
³CINVESTAV, MEXICO CITY, Mexico
- PO-T3-3** **THERMO-OPTICAL STUDY OF THE TIME-DEPENDENT AGING IN Cd/ZnS CORE-SHELL QUANTUM DOTS SOLUTION**
T. Catunda¹, V. Pilla², R. Cruz³
¹Inst. de Física de Sao Carlos, SAO CARLOS, SP, Brazil
²Unicastelo, SÃO PAULO, Brazil
³IFSC, SAO CARLOS, Brazil

TOPIC 4 - PHOTOACOUSTIC AND PHOTOTHERMAL IMAGING AND MICROSCOPY IN MATERIAL RESEARCH

- PO-T4-1** **NONDESTRUCTIVE EVALUATION OF TILTED SUBSURFACE DEFECTS BY PHOTOACOUSTIC MICROSCOPIC IMAGING**
H. Endoh, R. Katoh, D. Shiraisi, T. Hoshimiya, Tohoku Gakuin University, TAGAJYO, Japan
- PO-T4-2** **THE PHOTOACOUSTIC EFFECT IN THE SUPERFLUID HELIUM**
T. Salikhov, Tajik National University, DUSHANBE, Tajikistan
- PO-T4-3** **NOVEL APPROACHES TO MATERIAL EVALUATION OF THIN SURFACE LAYERS BY RESONANT ULTRASOUND SPECTROSCOPY**
M. Landa¹, P. Sedláček², H. Seiner³, M. Ruček², L. Bicanová², M. Janovská²
¹Institute of Thermomechanics ASCR, v.v.i., PRAGUE, Czech Republic
²IT ASCR, PRAGUE, Czech Republic
³IT ASCR, PRAGUE, Czech Republic

- PO-T4-4** **DETECTION OF SURFACE RESIDUAL, EXTERNAL AND TECHNOLOGICAL STRESSES IN VICKERS INDENTATED SOLIDS BY PHOTOACOUSTIC METHOD**
K.L. Muratikov, A.L. Glazov, Ioffe Physical-Technical Institute, SAINT PETERSBURG, Russian Federation
- PO-T4-5** **STRUCTURAL PHASE TRANSITIONS IMAGING IN SHAPE MEMORY ALLOYS BY PHOTOACOUSTIC MICROSCOPY**
K.L. Muratikov, A.L. Glazov, V.I. Nikolaev, S.A. Pulnev, Ioffe Physical-Technical Institute, SAINT PETERSBURG, Russian Federation

TOPIC 5 - ENVIRONMENTAL SENSORS AND APPLICATIONS

- PO-T5-1** **OPTICAL FIBER HYDROGEN SENSOR BASED ON PHOTOTHERMAL REFLECTANCE DETECTION TECHNIQUE**
A. Yurai, Osaka Sangyo University, OSAKA, Japan
- PO-T5-2** **PHOTOACOUSTIC DETECTION AND MONITORING OF POLLUTANT GASES FROM URBAN PUBLIC TRANSPORTS**
D.U. Schramm, C.G. Teodoro, M.S. Sthel, G. R. Lima, M.V. Rocha, J.R. Tavares, H. Vargas, UENF, CAMPOS DOS GOYTACAZES, Brazil
- PO-T5-3** **PHOTOACOUSTIC DETECTION OF GREENHOUSE GASES EMITTED BY ENGINES POWERED BY NATURAL GAS (GNV)**
D.U. Schramm, G. R. Lima, M.S. Sthel, D.U. Schramm, L. Campos, M.V. Rocha, J.R. Tavares, H. Vargas, UENF, CAMPOS DOS GOYTACAZES, Brazil
- PO-T5-4** **CHARACTERIZATION OF A PRECISE PHASE-READING CO₂ LASER-BASED PHOTOACOUSTIC SPECTROMETER**
V. Slezak¹, A. Peuriot², N. Zajarevich², M. González³, G. Santiago⁴
¹CITEFA-CONICET, VILLA MARTELLI, BUENOS AIRES, Argentina
²CEILAP CITEFA CONICET, BUENOS AIRES, Argentina
³Laboratorio Láser, Facultad de ingeniería, Universidad de Buenos Aires, BUENOS AIRES, Argentina
⁴Laboratorio Láser, Facultad de Ingeniería, Universidad de Buenos Aires, BUENOS AIRES, Argentina
- PO-T5-5** **A PHOTOACOUSTIC AEROSOL ABSORPTION SPECTROMETER WORKING FROM 420 NM TO 2200 NM**
C. Haisch, P. Menzenbach, R. Niessner, Technische Universität München, MUNICH, Germany
- PO-T5-6** **THERMAL PROPERTIES OF METALS ALLOY BY ELECTRICAL PYROELECTRIC (EPE) METHOD**
N. Bennaji¹, I. Mellouki², N. Yacoubi¹
¹IPEIN, TUNIS, Tunisia
²IPEIT, TUNIS, Tunisia

TOPIC 6 - NON-DESTRUCTIVE TESTING AND INDUSTRIAL APPLICATIONS

- PO-T6-1** **PHOTOPYROELECTRIC MEASUREMENTS OF THERMAL EFFUSIVITY AS A TOOL FOR BIODIESEL OILS STUDIES**
E. Corrêa da Silva¹, F. A. Léo Machado¹, E. Bernabé Zanelato¹, M.P. Pessanha de Castro¹, P.C. Muniz de Lacerda Miranda²
¹Universidade Estadual do Norte Fluminense Darcy Ribeiro, CAMPOS DOS GOYTACAZES - RJ, Brazil
²Instituto de Química Universidade Estadual de Campinas, CAMPINAS - SP, Brazil
- PO-T6-2** **DETERMINATION OF THE LIFE TIME OF EXCESS CARRIERS IN SILICON WITH PHOTOACOUSTIC AND PHOTOCURRENT METHODS**
M. Malinski¹, L. Chrobak²
¹Technical University of Koszalin, KOSZALIN, Poland
²Department of Electronics and Computer Science, KOSZALIN, Poland

- PO-T6-3** **MULTI-PARAMETER ESTIMATION STRATEGY IN PHOTOTHERMAL AND PHOTO-CARRIER CHARACTERIZATION OF MATERIALS**
B. Li, Institute of Optics and Electronics, CHENGDU, China
- PO-T6-4** **NONDESTRUCTIVE IMPLANTATION DOSE DETERMINATION OF ANNEALED SEMICONDUCTOR BY INFRARED ELLIPSOMETRY**
B. Li, X. Liu, Q. Huang, Institute of Optics and Electronics, CHENGDU, China
- PO-T6-5** **INFLUENCE OF PROBE BEAM RADIUS ON SIGNAL ANALYSIS OF MODULATED FREE CARRIER ABSORPTION TECHNIQUE**
B. Li, X. Liu, Q. Huang, Institute of Optics and Electronics, CHENGDU, China
- PO-T6-6** **ACCURATE CHARACTERIZATION OF WEAK ABSORPTANCE OF AN OPTICAL COMPONENT USING A PRECISE TEMPERATURE MODEL**
B. Li, Y. Wang, Institute of Optics and Electronics, CHENGDU, China
- PO-T6-7** **LASER OPTOACOUSTIC METHOD OF QUANTITATIVE EVALUATION OF POROSITY INFLUENCE ON LOCAL ELASTIC MODULI OF SiC REINFORCED METAL-MATRIX COMPOSITES**
N. Podymova¹, A. Karabutov², T. Chernyshova³, L. Kobeleva³
¹M.V. Lomonosov Moscow State University, MOSCOW, Russian Federation
²M.V. Lomonosov Moscow State University, MOSCOW, Russian Federation
³A.A. Baikov Institute of Metallurgy and Materials Science, MOSCOW, Russian Federation
- PO-T6-8** **EVALUATION OF MICROSTRUCTURE OF SEVERELY PLASTICALLY DEFORMED METALS BY LASER ULTRASOUND**
V. Kozhushko, G. Paltauf, H. Krenn, Karl-Franzens-Universitaet Graz, GRAZ, Austria
- PO-T6-9** **CHARACTERIZATION OF BRAZILIAN RED CERAMICS MICROSTRUCTURE USING PHOTOTHERMAL TECHNIQUES**
R.T. Faria Jr., L. Mota, H. Vargas, UENF, CAMPOS DOS GOYTACAZES, Brazil
- PO-T6-10** **THERMOGRAPHIC ANALYSIS IN FRACTURE TOUGHNESS TESTS**
S. Paoloni, Università di Roma „Tor Vergata“, ROMA, Italy
- PO-T6-11** **PHOTOTHERMAL RADIOMETRY MEASUREMENT OF KBR/CNTs COMPOSITES THERMAL CONDUCTIVITY**
M. Depriester¹, A. Hadj Sahraoui¹, P. Hus², F. Roussel³
¹LTPMC - ULCO, DUN KERQUE, France
²LTPMC-ULCO, DUNKERQUE, France
³LDSMM - USTL, VILLENEUVE D'ASCQ, France
- PO-T6-12** **PHOTOTHERMAL CHARACTERIZATION OF SOLID TWO-LAYER SPHERICAL STRUCTURES**
C. Wang, Soochow University, SUZHOU, China
- PO-T6-13** **THERMAL DIFFUSIVITY OF Al-Mg BASED METALLIC MATRIX COMPOUNDS REINFORCED WITH CERAMIC PARTICLES OF SiC, Al₂O₃ and TiB₂**
A. Cruz-Orea¹, J.E. Morales², R. Saavedra², C. Carrasco³
¹Centro de Investigación y de Estudios Avanzados del IPN, MEXICO CITY, Mexico
²Departamento de Física, Facultad de Ciencias Físicas y Matemáticas, CONCEPCIÓN, Chile
³Departamento de Ingeniería de Materiales, Facultad de Ingeniería, CONCEPCIÓN, Chile
- PO-T6-14** **LASER PHOTOTHERMAL RADIOMETRIC INSTRUMENT FOR INDUSTRIAL STEEL HARDNESS CASE DEPTH INSPECTION**
A. Mandelis¹, X. Guo²
¹University of Toronto, TORONTO, Canada
²University Toronto, Canada
- PO-T6-15** **PHOTOACOUSTIC STUDY ON TRANSPARENT CONDUCTIVE OXIDE LAYER REMOVAL IN THIN FILM SOLAR CELLS**
C.S. Jung¹, S.Y. Eom², E.H. Kwak¹, J.H. Lee¹, I.K. Lee³, C.J. Ahn³
¹Cheongju University, CHEONGJU, South-Korea
²Cheongju university, CHEONGJU, South-Korea
³Green Optics Co. Ltd., CHEONGWON, South-Korea

- PO-T6-16** **STUDY THE PROPERTIES OF ULTRASONIC WAVES TRAVELING ON THE SAMPLE WITH DEFECT BY LAZER-INTRODUCED TRANSIENT THERMAL GRATING METHOD**
D. Xu, Nanjing Univ., NANJING, China
- PO-T6-17** **NON-DESTRUCTIVE TESTING OF PHOTOVOLTAIC MODULES BY IR-IMAGING**
C. Buerhop¹, U. Hoyer²
¹Bavarian Center for Applied Energy Research (ZAE Bayern), ERLANGEN, Germany
²ZAE Bayern, ERLANGEN, Germany
- PO-T6-18** **CHARACTERIZING THE ELASTIC PROPERTIES OF ADHESIVE IN BONDED STRUCTURE BY LASER ULTRASONICS METHOD**
X. Xu¹, X. Liu¹, J. Cheng¹, J. Gao¹, G. Xu²
¹Institute of acoustics, NANJING, China
²Hangzhou Applied Acoustics Research Institute, HANZHOU, China
- PO-T6-19** **DETERMINATION OF THERMAL DIFFUSIVITY OF CERAMICS BY MEANS OF PBD**
W. Faubel¹, B. Dietrich²
¹Forschungszentrum Karlsruhe, EGGENSTEIN-LEOPOLDSHAFEN, Germany
²University Karlsruhe, KARLSRUHE, Germany
- PO-T6-20** **CHARACTERIZATION OF BURIED VERTICAL CRACKS BY LOCK-IN VIBROTHERMOGRAPHY**
A. Mendioroz¹, E. Apiñaniz², A. Salazar¹, P. Venegas³, I. Sáez de Ocáriz³
¹University of the Basque Country, BILBAO, Spain
²University of The Basque Country, BILBAO, Spain
³Centro de Tecnologías Aeronáuticas, MIÑANO, Spain
- PO-T6-21** **DETERMINATION OF THERMAL EFFUSIVITY OF THE KNbO₃ FERROELECTRIC CERAMIC BY INVERSE PHOTOPYROELECTRIC TECHNIQUE**
J.J.A. Flores-Cuautle, E. Suaste-Gómez, A. Cruz-Orea
CINVESTAV, MEXICO, Mexico
- PO-T6-22** **A SISTEMATIC ANALYSIS OF THE INFLUENCE OF THE SURROUNDING MEDIA IN THE PHOTOTHERMAL BEAM DEFLECTION SIGNAL**
F. Macedo, P. Prior, A. Gören, Universidade do Minho, BRAGA, Portugal
- PO-T6-23** **FERROELECTRIC THIN FILMS CHARACTERIZED BY PHOTOTHERMAL TECHNIQUES**
S. Trujillo¹, R. Medina-Esquivel¹, A. Bartesyte², C. Jimenez², P. Quintana¹, I. Oliva¹, J.J. Alvarado-Gil¹
¹CINVESTAV-Unidad Merida, MERIDA, Mexico
²LMGP, INPGrenoble Minatec, GRENOBLE, France
- PO-T6-24** **PHOTOACOUSTIC MEASUREMENT OF THERMAL PROPERTIES OF METAL OXIDES POLYSTYRENE COMPOSITE FILMS**
H. Talaat¹, T. El-Brolossy¹, S. Ibrahim²
¹Ain Shams University, CAIRO, Egypt
²King Faisal University, AL-AHSA, Saudi Arabia
- PO-T6-25** **SPUTTER DEPOSITION OF THIN FILMS ON SI SUBSTRATES ANALYZED BY MEANS OF MODULATED IR RADIOMETRY**
S. Chotikaprakhan¹, P. Kijamnajsuk², F. Vaz³, F. Macedo³, J. Gibkes², J. Pelz², B.K. Bein²
¹Kasetsart University, BANGKOK, Thailand
²Ruhr University, BOCHUM, Germany
³University of Minho, GUIMARAES, Portugal

- PO-T6-26 MODULATED IR RADIOMETRY AS A TOOL FOR THE THICKNESS CONTROL OF COATINGS**
F. Macedo¹, F. Vaz¹, R. Faria Junior², A.C. Fernandes¹, P. Kijamnajsuk³, S. Chotikaprakhan³, J. Gibkes⁴, B. Bein⁴
¹Universidade do Minho, BRAGA, Portugal
²Universidade Estadual do Norte Fluminense, RIO DE JANEIRO, Brazil
³Kasetsart University, BANGKOK, Thailand
⁴Ruhr-University, BOCHUM, Germany
- PO-T6-27 CHARACTERIZATION OF DIRT REFERENCE STANDARDS BY PHOTOACOUSTIC INDUCED BY LASER ABLATION**
G.M. Bilmes¹, D. Orzi², F. Liporace³, E. Morel⁴, J. Torga⁵, A. Roviglione⁶
¹Centro de Investigaciones Ópticas (CONICET-CIC) and UN La Plata, LA PLATA, Argentina
²CIOp and UNLP, LA PLATA, Argentina
³Laboratorio de Optoelectrónica y Metrología Aplicada, UTN Regional Delta, CAMPANA, Argentina
⁴Laboratorio de Optoelectrónica y Metrología Aplicada, UTN Delta, CAMPANA, Argentina
⁵Laboratorio de Optoelectrónica y Metrología Aplicada UTN Delta, CAMPANA, Argentina
⁶Facultad de Ingeniería, Universidad de Buenos Aires, BUENOS AIRES, Argentina
- PO-T6-28 LASER ABLATION THRESHOLDS OF SURFACE DIRT DETERMINED BY PHOTOACOUSTICS**
G.M. Bilmes¹, D. Orzi²
¹Centro de Investigaciones Ópticas (CONICET-CIC) and UN La Plata, LA PLATA, Argentina
²CIOp and UNLP, LA PLATA, Argentina
- PO-T6-29 LASER PHOTOTHERMAL NON-DESTRUCTIVE METROLOGY OF CRACKS IN UN-SINTERED POWDER METALLURGY MANUFACTURED AUTOMOTIVE TRANSMISSION SPROCKETS**
A. Mandelis, University of Toronto, TORONTO, Canada

TOPIC 7 - SPECTROSCOPY, ANALYTICAL CHEMISTRY, NONLINEAR OPTICS AND PHOTO-CHEMISTRY

- PO-T7-1 INFLUENCE OF INTERNAL REFLECTIONS OF LIGHT ON THE PHOTOACOUSTIC SIGNAL**
M. Malinski, KOSZALIN, Poland
- PO-T7-2 ACOUSTIC DETECTION OF LASER-INDUCED PLASMA FOR SIZE DETERMINATION OF NANOPARTICLES**
H. Jin, J. A. Son, J. W. Kim, E.M. Park, J.G. Choi, Yonsei University, SEOUL, South-Korea
- PO-T7-3 TERAHERTZ REFLECTION RESPONSE MEASUREMENT USING A PHONON POLARITON**
H. Inoue¹, K. Katayama¹, Q. Shen², T. Toyoda², K. Nelson³
¹Chuo univ., TOKYO, Japan
²The univ. of Electro-communications, TOKYO, Japan
³MIT, CAMBRIDGE, United States of America
- PO-T7-4 APPLICATION OF MIRAGE EFFECT TO METHANE DETECTION AT 2.3 μ M**
A. Hamdi¹, F. Genty², N. Yacoubi³, Y. Rouillard⁴, A. Vicet⁴
¹IES, MONTPELLIER, France
²SUPELEC, METZ, France
³IPEIN, NABEUL, Tunisia
⁴IES - Uinersité Montpellier 2, MONTPELLIER, France
- PO-T7-5 DETECTION OF NUCLEIC ACID BASES USING MICRO-HPLC WITH MULTI-COLOR EXCITED THERMAL LENS SPECTROSCOPY**
A. Nagashio, H. Katae, S. Hirashima, A. Harata, Kyushu university, KASUGA, Japan

- PO-T7-6** **CRYSTALLIZATION MONITORING BY THERMAL LENS SPECTROMETRY**
D.A. Nedosekin¹, E.S. Ryndina², M.A. Proskurnin², Yu.A. Vladimirov³
¹A.V.Shubnikov Institute of Crystallography of the Russian Academy of Sciences, MOSCOW, Russian Federation
²Analytical Chemistry Division, Chemistry Department, M.V. Lomonosov Moscow State, MOSCOW, Russian Federation
³A.V. Shubnikov Institute of Crystallography, Russian Academy of Sciences, MOSCOW, Russian Federation
- PO-T7-7** **COMPARISON BETWEEN PHOTOACOUSTIC AND CONVENTIONAL SPECTROMETRY FOR MEASUREMENTS OF MOLAR ABSORPTIVITY FOR PIGMENTS IN LIQUID SOLUTION**
J.A. Balderas-López, UPIBI-IPN, MÉXICO, D. F., Mexico
- PO-T7-8** **STUDY OF THE TiO₂ THIN FILMS ON Si SUBSTRATES BY PHOTOACOUSTIC ELASTIC BENDING METHOD**
D. Todorovic¹, M. Franko², U. Lavrencic _tangar², M. Rabasovic³, D. Markushev³
¹Institute for Multidisciplinary Researches, BELGRADE, Serbia
²Laboratory for Environmental Research, University of Nova Gorica, NOVA GORICA, Slovenia
³Institute of Physics, BELGRADE-ZEMUN, Serbia
- PO-T7-9** **PHOTOACOUSTIC AND PHOTOELECTROCHEMICAL SPECTRA OF CDS/CDSE QUANTUM DOT-ABSORBED NANOSTRUCTURED TiO₂ ELECTRODES**
T. Toyoda, The University of Electro-Communications, TOKYO, Japan
- PO-T7-10** **EFFECT OF RUTILE-TYPE CONTENT IN NANOSTRUCTURED ANATASE-TYPE TiO₂ ELECTRODE WITH CDSE QUANTUM DOTS ON PHOTOACOUSTIC AND PHOTOELECTROCHEMICAL SPECTREA**
T. Toyoda, The University of Electro-Communications, TOKYO, Japan
- PO-T7-11** **CRYSTAL GROWTH OF CDSE QUANTUM DOTS ABSORPBED ON NANOSTRUCTURED TiO₂ ELECTRODES WITH DIFFERENT MORPHOLOGIES CHARACTERIZED BY PHOTOACOUSTIC SPECTROSCOPY**
T. Toyoda, The University of Electro-Communications, TOKYO, Japan
- PO-T7-12** **PHOTOEXCITED CARRIER DYNAMICS OF NANOSTRUCTURED TiO₂ FILMS OF DIFFERENT CRYSTAL STRUCTURES TOGETHER WITH CDSE QUANTUM DOTS ADSORPTION**
T. Toyoda, The University of Electro-Communications, TOKYO, Japan
- PO-T7-13** **OPTICAL ABSORPTION SPECTRUM OF MATERIALS FOR BIOMEDICAL USE**
M. Mendez¹, L. Hernandez², A. Cruz-Orea³
¹National Polytechnic Institute, MEXICO CITY, Mexico
²National Polytechnic Institute, MEXICO CITY, Mexico
³CINVESTAV, MEXICO CITY, Mexico
- PO-T7-14** **INVESTIGATION OF OPTICAL PROPERTIES OF THE SULFOSALT NEW ABSORBER Sn₂Sb₂S₅ THIN FILMS USING THE PHOTOTHERMAL DEFLECTION SPECTROSCOPY**
I. Gaied¹, A. Gassoumi², M. Kanzari², N. Yacoubi¹
¹Institut Préparatoire aux Etudes d'Ingénieur de Nabeul (IPEIN), NABEUL, Tunisia
²Laboratoire de photovoltaïque et Matériaux Semiconducteurs ENIT BP 37 belvédère, TUNIS, Tunisia
- PO-T7-15** **INFLUENCE OF THE TRIETHANOLAMINE CONCENTRATION ON THE OPTICAL PROPERTIES OF TIN SULPHIDE THIN FILMS BY THE PHOTOTHERMAL DEFLECTION SPECTROSCOPY**
I. Gaied, Institut Préparatoire aux Etudes d'Ingénieur de Nabeul (IPEIN), NABEUL, Tunisia

- PO-T7-16** **NUMERICAL ANALYSIS OF TRANSMISSION AND ABSORPTION PHOTOACOUSTIC SPECTRA OF SILICON**
M. Malinski¹, L. Chrobak²
¹Technical University of Koszalin, KOSZALIN, Poland
²Department of Electronics and Computer Science, KOSZALIN, Poland
- PO-T7-17** **PHOTOACOUSTIC AND PHOTOLUMINESCENT CHARACTERIZATION OF CO-DOPED BLENDS OF PC/PMMA WITH RARE EARTH Tb(1-x)Eu(x)**
A. Bento¹, D. Velasco², M. Mauricio², A. Rubira², A. Medina¹, M. Baesso¹
¹UEM - Univ estadual de Maringá, MARINGÁ, Brazil
²Univ Estadual de Maringá, MARINGÁ, Brazil
- PO-T7-18** **DIRECT DETECTION OF GRADIENT-ELUTED NON-LABELED AMINO ACIDS USING MICRO-HPLC WITH ULTRAVIOLET THERMAL LENSING**
A. Harata, H. Katae, S. Hirashima, Kyushu University, FUKUOKA, Japan
- PO-T7-19** **THERMAL LENS DETERMINATION OF PROTEINS, CELLS, AND BACTERIAL CULTURES**
M.A. Proskurnin¹, D. Volkov¹, K. Tishchenko¹, D. Nedosekin¹, B. Zuev², Y. Vladimirov³, V. Zharov⁴
¹Moscow State University, MOSCOW, Russian Federation
²Vernadskii Institute of Geochemistry and Analytical Chemistry, MOSCOW, Russian Federation
³A.V. Shubnikov Institute of Crystallography, Russian Academy of Sciences, MOSCOW, Russian Federation
⁴Phillips Classic Laser and Nanomedicine Laboratories, UAMS, LITTLE ROCK, United States of America
- PO-T7-20** **PHOTOACOUSTIC MEASUREMENTS OF EXCITONS IN CdSe NANORODS**
H. Talaat¹, H. Awad¹, T. Abdallah¹, M. Mohamed², K. Easawi³, S. Negm³
¹Ain Shams University, CAIRO, Egypt
²NILES, CAIRO, Egypt
³Benha University, CAIRO, Egypt
- PO-T7-21** **CHARACTERIZATION OF PbSe NANOCRYSTALS USING PHOTOACOUSTIC FT-IR SPECTROSCOPY**
H. Talaat¹, A. Shehata¹, K. Easawi², M. Mohamed³, T. Abdallah¹, S. Negm²
¹Ain Shams University, CAIRO, Egypt
²Benha University, CAIRO, Egypt
³NILES, CAIRO, Egypt
- PO-T7-22** **CHARACTERIZATION OF CORE/SHELL (Ag/CdSe) NANOSTRUCTURE USING PHOTOACOUSTIC SPECTROSCOPY**
H. Talaat¹, A. Okasha², M. Mohamed³, T. Abdallah¹, A. Basily², S. Negm⁴
¹Ain Shams University, CAIRO, Egypt
²National Research Centre, CAIRO, Egypt
³NILES, CAIRO, Egypt
⁴Benha University, CAIRO, Egypt
- PO-T7-23** **USE OF THE PHOTOACOUSTIC SPECTROSCOPY FOR CHARACTERIZATION OF MAGNETIC FLUID BASED MAMONA OIL**
L. Silveira, Universidade Federal de Rondônia, JI-PARANÁ, Brazil
- PO-T7-24** **INSTABILITY OF MAGNETIC COLLOID OF COPAIBA OIL**
J.G. Santos, Unirversidade Federal de Rondônia, JI PARANA, Brazil
- PO-T7-25** **SPECTROFOTOMETRIC STUDY OF WATER HIDROGEOCHEMISTRY URUPÁ'S MICROBASIN IN JI-PARANA RONDÔNIA BRAZIL**
J.G. Santos, Unirversidade Federal de Rondônia, JI PARANA, Brazil
- PO-T7-26** **DETERMINATION OF DRUG CONTENT IN SEMISOLID FORMULATIONS BY NON-INVASIVE SPECTROSCOPIC METHODS: FTIR - ATR, - PAS, PDS, RAMAN**
W. Faubel¹, B. Gotter², S. Heissler¹
¹Forschungszentrum Karlsruhe, EGGENSTEIN-LEOPOLDSHAFEN, Germany
²Martin-Luther-University, HALLE, Germany

- PO-T7-27** **DETERMINATION OF THE LASER BEAM SPATIAL PROFILE BY PULSED PHOTOACOUSTICS**
D. Markushev, Institute of Physics, BELGRADE-ZEMUN, Serbia
- PO-T7-28** **STUDY OF GLASSY DOPED SYSTEM: DIFFUSION TIME AND NON-RADIATIVE RELAXATION TIME OBTAINED FROM COMBINED MODEL THERMAL DIFFUSION WITH THERMAL EXPANSION**
A. Bento¹, N. SouzaFilho², A. Nogueira², A. Novatski², A. Medina¹, M. Baesso¹, H. Vargas³
¹UEM - Univ estadual de Maringá, MARINGÁ, Brazil
²Univ Estadual de Maringá, MARINGÁ, Brazil
³Universidade Estadual do Norte Fluminense, CAMPOS DOS GOYTACAZES, Brazil
- PO-T7-29** **ELECTRONIC AND THERMAL CONTRIBUTIONS TO THE NONLINEAR REFRACTIVE INDEX VERSUS TEMPERATURE OF LASER MATERIALS**
C. Jacinto¹, W. F. Silva¹, A. Benayas², A. Ródenas³, L. R. Freitas⁴, D. Jaque³, T. Catunda⁵
¹Universidade Federal de Alagoas, MACEIÓ-AL, Brazil
²Universidad Autónoma de Madrid, MADRID, Spain
³Universidad Autónoma de Madrid, MADRID, Spain
⁴IFSC, Universidade de São Paulo, SÃO CARLOS, Brazil
⁵IFSC-Universidade de São Paulo, SÃO CARLOS, Spain
- PO-T7-30** **MICROSTRUCTURATION INDUCED DIFFERENCES IN THE THERMO-OPTICAL AND LUMINESCENCE PROPERTIES OF ND:YAG FINE GRAIN CERAMICS AND CRYSTALS**
C. Jacinto¹, A. Benayas², W. F. Silva¹, T. Catunda³, D. Jaque⁴
¹Universidade Federal de Alagoas, MACEIÓ-AL, Brazil
²Universidad Autónoma de Madrid, MADRID, Spain
³IFSC-Universidade de São Paulo, SÃO CARLOS, Spain
⁴Universidad Autónoma de Madrid, MADRID, Spain
- PO-T7-31** **FINITE ELEMENT ANALYSIS PREDICTS FEATURES IN PHOTOTHERMAL SPECTROSCOPY SIGNALS**
S. Bialkowski, P.R. Joshi, O.O. Dada, Utah State University, LOGAN, United States of America

TOPIC 8 - STIMULATED AND SPONTANEOUS BRILLOUIN AND RAMAN SCATTERING (ACOUSTIC AND OPTICAL PHONONS)

- PO-T8-1** **ACOUSTIC WAVES IN LAYERED MEDIA: COMPARATIVE STUDY OF RAMAN SCATTERING AND REFLECTION DELAY TIME**
E.H. El Boudouti¹, Y. El Hassouani², B. Djafari-Rouhani³
¹Faculté des Sciences, OUJDA, Morocco
²Laboratoire de Mécanique Physique, Université de Bordeaux 1, CNRS-UMR 5469, TALENCE, France
³Institut d'Electronique, de Microélectronique et de Nanotechnologie, CNRS 8520, VILLENEUVE D'ASCQ, France
- PO-T8-2** **THE INFLUENCE OF TEMPERATURE ON RAMAN MODES IN LEAD NITRATE CRYSTAL**
P. Zverev, A.M. Prokhorov General Physics Institute Russian Academy of Sciences, MOSCOW, Russian Federation

TOPIC 9 - ULTRAFAST THERMO-ELASTIC PHENOMENA AND MOLECULAR DYNAMICS
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- PO-T9-1** **EFFECTS OF THE SURROUNDING MEDIUM ON THE PHOTOEXCITED ELECTRON AND PHONON DYNAMICS OF Au NANOPARTICLES CHARACTERIZED USING TRANSIENT GRATING TECHNIQUE**
Q. Shen¹, K. Katayama², T. Sawada³, T. Toyoda¹
¹The University of Electro-Communications, TOKYO, Japan
²Chuo University, TOKYO, Japan
³Japan Science and Technology Agency, TOKYO, Japan
- PO-T9-2** **HIGH FREQUENCY ACOUSTIC PULSE USING SEMICONDUCTOR QUANTUM DOTS**
P.-A. Mante, A. Devos, A. Le Louarn, CNRS-IEMN, LILLE, France
- PO-T9-3** **PICOSECOND MEASUREMENTS IN MO/SI SUPERLATTICES**
L. Belliard¹, B. Perrin², A. Huynh³, A. Michel⁴, G. Abadias⁴, C. Jaouen⁴
¹Université Pierre et Marie Curie, PARIS, France
²CNRS, PARIS, France
³Université Pierre et Marie Curie, PARIS, France
⁴Université Poitiers, POITIERS, France

TOPIC 10 - THERMAL AND ELASTIC PROPERTIES ON NANO-SCALE AND IR MICRO-ANTENNAS
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- PO-T10-1** **INVESTIGATION OF THERMAL PROPERTIES OF SULFOSALT SnSb₂S₄ THIN FILMS BY THE PHOTOTHERMAL DEFLECTION TECHNIQUE**
I. Gaied¹, A. Gassoumi², M. Kanzari², N. Yacoubi¹
¹Institut Préparatoire aux Etudes d'Ingénieur de Nabeul (IPEIN), NABEUL, Tunisia
²Laboratoire de photovoltaïque et Matériaux Semiconducteurs ENIT BP 37 belvédère, TUNIS, Tunisia
- PO-T10-2** **INTERFACE RESISTANCE IN COPPER COATED CARBON DETERMINED BY FREQUENCY DEPENDENT PHOTOTHERMAL MEASUREMENTS**
J. Pelzl¹, P. Kijamnajsuk², F. Giuliani³, M. Chirtoc⁴, N. Horny⁴, J. Gibkes¹, S. Chotikaprakhan⁵, B. Bein¹
¹Ruhr-University, BOCHUM, Germany
²Ruhr-Universität, BOCHUM, Germany
³Linköping University, LINKÖPING, Sweden
⁴University Reims, REIMS, France
⁵Kasetsart University, BANGKOK, Thailand
- PO-T10-3** **STUDY OF THE EFFECTS OF UV IRRADIATION ON RHODAMINE R6G DYE SOLUTIONS, CONTAINING TiO₂ NANOPARTICLES, BY USING PHOTOTHERMAL TECHNIQUES**
A. Cruz-Orea¹, S.A. Lozano², J.L. Jiménez Pérez², J.F. Sánchez Ramírez², C.J. Da Silva³, F. Sanchez-Sinencio¹, R. Saavedra⁴, G. López-Bueno⁵
¹Centro de Investigación y de Estudios Avanzados del IPN, MEXICO CITY, Mexico
²CICATA-IPN, Legaria 694, Col. Irrigacion, C.P.11500, MEXICO CITY, Mexico
³Universidad Federal de Alagoas, UFAL, Campus A.C. Simões, BR. 104 Km. 14, TABULEIRO DOS MARTINS, MACEIO, AL, Brazil
⁴Facultad de Ciencias Físicas y Matemáticas, Universidad de Concepción, CONCEPCIÓN, Chile
⁵ESIA-Ticomán-Instituto Politécnico Nacional, MEXICO CITY, Mexico
- PO-T10-4** **PHOTOTHERMAL CHARACTERIZATION OF METALLIC OPALS**
R. Li Voti¹, G. Leahu², L. Di Dio³, C. Sibilìa², M. Bertolotti², A. Altube⁴, A. Blanco⁴, C. Lopez⁴
¹Sapienza Università di Roma, ROMA, Italy
²Dipartimento di Energetica - Sapienza Università di Roma, ROMA, Italy
³Dipartimento di Energetica - Sapienza Università di Roma, ROMA, Italy
⁴Institute de Ciencia de materiales de Madrid, MADRID, Spain

TOPIC 11 - SEMICONDUCTORS, MEMS, NEMS AND PHONONIC BANDGAP MATERIALS

- PO-T11-1** **PULSED PHOTOTHERMAL TECHNIQUES: EFFECTIVE THERMAL PARAMETERS OF LAYERED FILMS**
G. Gurevich, CINVESTAV-I.P.N., MEXICO D.F. 07000, Mexico
- PO-T11-2** **SEMI-INFINITE PHOTOCARRIER RADIOMETRIC MODEL FOR THE CHARACTERIZATION OF SEMICONDUCTOR WAFERS**
B. Li, X. Liu, Institute of Optics and Electronics, CHENGDU, China
- PO-T11-3** **ION IMPLANTATION DOSE DEPENDENCE OF PHOTOCARRIER RADIOMETRY OF THERMALLY ANNEALED SILICON WAFERS**
B. Li, X. Liu, Q. Huang, Institute of Optics and Electronics, CHENGDU, China
- PO-T11-4** **ANALYSIS OF MODULATED FREE-CARRIER ABSORPTION MEASUREMENT OF ELECTRONIC TRANSPORT PROPERTIES OF SILICON WAFERS**
B. Li¹, W. Li²
¹Institute of Optics and Electronics, CHENGDU, China
²Institute of Optics and Electronics, Chinese Academy of Sciences, CHENGDU, China
- PO-T11-5** **DETERMINATION OF LAYERS AND INTERFACES THERMAL PARAMETERS IN SILICON-ON-DIAMOND STRUCTURES BY THE PHOTOTHERMAL METHOD**
A. Klokov, P.N.Lebedev Physical Institute RAS, MOSCOW, Russian Federation
- PO-T11-6** **OPTICAL PROPERTIES OF STARCH CAPPED CDS NANOPARTICLES**
P. Rodríguez, G. González, S.A. Tomás, O. Zelaya, CINVESTAV-IPN, MEXICO CITY, Mexico
- PO-T11-7** **PHOTOTHERMAL AND PL INVESTIGATION OF DOPED THIN LAYER SEMICONDUCTOR**
S. Abroug, Photothermal laboratory IPEIN, NABEUL, Tunisia
- PO-T11-8** **COMPARISON BETWEEN DIFFERENT PHOTOTHERMAL DEFLECTION METHODS TO DETERMINE THERMAL PROPERTIES OF BULK SEMICONDUCTORS SAMPLES**
I. Gaied, Institut Préparatoire aux Etudes d'Ingénieur de Nabeul (IPEIN), NABEUL, Tunisia
- PO-T11-9** **INVESTIGATION OF THERMAL AND OPTICAL PROPERTIES OF THIN WO₃ FILMS BY THE PHOTOTHERMAL DEFLECTION TECHNIQUE**
I. Gaied¹, S. Dabbous², T. Ben Nasrallah², N. Yacoubi¹
¹Institut Préparatoire aux Etudes d'Ingénieur de Nabeul (IPEIN), NABEUL, Tunisia
²Unité de Physique des Dispositifs à Semiconducteur Faculté des Sciences de Tunis, TUNIS, Tunisia
- PO-T11-10** **PHOTOTHERMAL DYNAMIC ELASTIC BENDING IN A SEMICONDUCTING CIRCULAR PLATE INDUCED BY A FOCUSED LASER BEAM**
S. Galovic, The Vinca Institute of Nuclear Sciences, BELGRADE, Serbia
- PO-T11-11** **PHOTOEXCITED CARRIER DYNAMICS OF ZnO NANOSTRUCTURED FILMS CHARACTERIZED USING TRANSIENT GRATING TECHNIQUE**
Q. Shen¹, K. Katayama², T. Sawada³, T. Toyoda¹
¹The University of Electro-Communications, TOKYO, Japan
²Chuo University, TOKYO, Japan
³Japan Science and Technology Agency, TOKYO, Japan
- PO-T11-12** **MEASUREMENTS OF THE URBACH TAIL FOR A2B6 MIXED CRYSTALS BY PHOTOTHERMAL METHOD**
J. Zakrzewski¹, M. Malinski², K. Strzalkowski¹, F. Firszt¹, S. Legowski¹, H. Meczynska¹
¹Uniwersytet Mikołaja Kopernika, TORUN, Poland
²Technical University of Koszalin, KOSZALIN, Poland

- PO-T11-13 THE PHOTOACOUSTIC TECHNIQUE APPLIED TO THE STUDY OF THE CRYSTALLINE QUALITY AND INTERFACE OF InAs(1-x)Sb(x) EPITAXIAL LAYERS GROWN ON GaSb**
 J.G. Mendoza-Alvarez¹, M.L. Gomez-Herrera², P. Rodriguez-Fragoso³, I. Riech⁴, Y.E. Bravo-Garcia⁵, A. Cruz-Orea³, F. Sanchez-Sinencio⁶, J.L. Herrera-Perez⁵
¹Cinestav-IPN, MEXICO DF, Mexico
²Fac.Ingenieria-Univ.Aut.Queretaro, QUERETARO, Mexico
³Physics Dept.-Cinestav-IPN, MEXICO DF, Mexico
⁴Fac.Ing.Fisica-Univ.Aut.Yucatan, MERIDA, Mexico
⁵CICATA-IPN. Unidad Legaria, MEXICO DF, Mexico
⁶Centro Latinoamericano de Fisica, RIO DE JANEIRO, Brazil
- PO-T11-14 PHOTOTHERMAL CHARACTERIZATION OF VANADIUM DIOXIDE PHOTONIC CRYSTAL**
R. Li Voti¹, G. Leahu², L. Di Dio³, C. Sibilìa², M. Bertolotti², D. Kurdyukov⁴, V. Golubev⁴
¹Sapienza Università di Roma, ROMA, Italy
²Dipartimento di Energetica - Sapienza Università di Roma, ROMA, Italy
³Dipartimento di Energetica - Sapienza Università di Roma, ROMA, Italy
⁴Ioffe Physical-Technical Institute of the Russian Academy of Sciences, S.PETERSBURG, Russian Federation
- PO-T11-15 POLARIZATION PROPERTIES OF THE RESONANT ELASTIC MODES IN 1D PHONONIC CRYSTALS**
F. Ramos-Mendieta, B. Manzanares-Martínez, L. Castro-Arce, Universidad de Sonora, HERMOSILLO, SONORA, Mexico
- PO-T11-16 INFRARED PHOTOCARRIER RADIOMETRY, MODULATED PHOTOVOLTAGE AND ELECTRICAL CHARACTERISTICS OF POLYCRISTALLINE Si SOLAR CELLS**
A. Mandelis, University of Toronto, TORONTO, Canada

TOPIC 12 - COMPLEX FLUIDS, PHASE TRANSITIONS AND GLASS TRANSITIONS

- PO-T12-1 PHASE TRANSITION STUDY IN MAGNETO CALORIC MATERIAL FROM A MAGNETO-GENERATED ACOUSTIC SIGNAL**
A. Bento, W. Szpak, A. Medina, M. Baesso, UEM - Univ estadual de Maringá, MARINGÁ, Brazil
- PO-T12-2 THERMAL DIFFUSION IN NANOFUIDS: NEW FINDINGS ON THE INFLUENCE OF PARTICLE SIZE**
J. Philip, M.R. Nisha, Cochin University of Science and Technology, COCHIN, India
- PO-T12-3 PHOTOPYROELECTRIC INVESTIGATION OF LIQUID CRYSTAL/POLYMER MIXTURES**
S. Longuemart¹, A. Daoudi¹, D. Dadarlat², S. Delenclos¹, A. Hadj Sahraoui¹
¹LTPMC, DUNKERQUE, France
²National R&D Institute for Isotopic and Molecular Technologies, CLUJ-NAPOCA, Romania
- PO-T12-4 STUDY OF TiO₂ THIN FILMS BY LASER PULSED PHOTOACOUSTIC**
A. Pérez¹, R. Castañeda², C. Oliva², A. Esparza²
¹Universidad Nacional Autónoma de México, MEXICO, D.F, Mexico
²Universidad Nacional Autónoma de México, MEXICO, D.F, Mexico
- PO-T12-5 KINETICS OF PHASE TRANSFORMATION IN COMPLEX FLUIDS ON THE BASE OF POLYMER PARTICLES-LIQUID CRYSTAL**
D. Ibragimov¹, M. Bayramov², R. Imamaliyev²
¹Institute of Physics, BAKU, Azerbaijan
²Baku State University, BAKU, Azerbaijan
- PO-T12-6** *(in Book of Abstracts: TU-PA-2A-1)*
TEMPERATURE DEPENDENCE OF THERMAL, STRUCTURAL, AND ACOUSTIC RELAXATION OF GLASS FORMING LIQUIDS STUDIED BY SURFACE ACOUSTIC WAVE CHARACTERIZATION, USING AN ALL-OPTICAL METHOD.
R. Salenbien, R. Côte, C. Glorieux, KULeuven, HEVERLEE, Belgium

TOPIC 13 - BIOLOGICAL MATERIALS, AGRICULTURAL AND FOOD SCIENCES

- PO-T13-1** **PHOTOACOUSTIC ANALYSIS OF THE SOLUBILIZATION KINETICS OF PULMONARY SECRETIONS FROM CYSTIC FIBROSIS PATIENTS (SECRETOR AND NON SECRETOR PHENOTYPES)**
P.R. Barja, UNIVAP, SAO JOSE DOS CAMPOS, Brazil
- PO-T13-2** **PHOTOACOUSTIC STUDY OF THE PENETRATION KINETICS OF NIMESULID INTO HUMAN SKIN**
P.R. Barja, D.J.D.V. Veloso, UNIVAP, SAO JOSE DOS CAMPOS, Brazil
- PO-T13-3** **DIELECTRIC CONSTANT, THERMAL CONDUCTIVITY AND DIFFUSIVITY OF LOW TRANS INTERESTERIFIED FATS**
A.M. Mansanares¹, E.C. Silva², M.L. Albuquerque³, M.E. Soffner³, D.F.S. Becker-Almeida⁴, L.A.G. Gonçalves⁴
¹Campinas State University, CAMPINAS (SP), Brazil
²Laboratório de Ciências Físicas, UENF, CAMPOS DOS GOYTACAZES (RJ), Brazil
³Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, CAMPINAS (SP), Brazil
⁴Faculdade de Engenharia de Alimentos, Universidade Estadual de Campinas, CAMPINAS (SP), Brazil
- PO-T13-4** **PHOTOACOUSTIC TECHNIQUE APPLIED TO DETECTION OF ETHYLENE EMISSION IN PASSION FRUITS EDIBLE COATED**
M.G. Da Silva, G. Alves, W. Dos Santos, W. Waldman, J. Oliveira, H. Vargas, UENF, CAMPOS DOS GOYTACAZES, Brazil
- PO-T13-5** **NATURAL ZEOLITES AND ZEOLITE CONCENTRATE AS NITROGEN FERTILIZER HOLDER: EFFICIENCY COMPARATIVE STUDY**
M. Baptista-Filho¹, F. Luna², J. Polidoro³, M. Monte⁴, F. Souza-Barros⁵, A. Miklos⁶, M. Da Silva², H. Vargas²
¹Universidade Estadual do Norte Fluminense, CAMPOS DOS GOYTACAZES, Brazil
²UENF, CAMPOS DOS GOYTACAZES, Brazil
³EMBRAPA, RIO DE JANEIRO, Brazil
⁴CETEM, RIO DE JANEIRO, Brazil
⁵UFRJ, RIO DE JANEIRO, Brazil
⁶FIB, STUTTGART, Brazil
- PO-T13-6** **ABSORPTION SPECTROSCOPY OF ANIMAL AND VEGETABLE OIL**
L. Silveira, Universidade Federal de Rondônia, JI-PARANÁ, Brazil
- PO-T13-7** **PHOTOTHERMAL CHARACTERIZATION OF HYDROXYAPATITE COATINGS ON ROUGH Ti ALLOY SUBSTRATES USED FOR ORTHOPAEDIC PROSTHESES**
M. Chirtoac¹, J.S. Antoniow², H. Bnhayoune³, R. Drevet³, N. Horny⁴, P. Grosselet⁴
¹Universite de Reims Champagne Ardenne, REIMS, France
²Lab. Thermophysique, GRESPI, Univ. Reims, REIMS, France
³INSERM UMR-S 926, Univ. Reims, REIMS, France
⁴GRESPI, Univ. Reims, REIMS, France
- PO-T13-8** **SPECTROPHOTOMETRY OF THE EXTRACT OF SEED CUPUACU**
L. Silveira, Universidade Federal de Rondônia, JI-PARANÁ, Brazil
- PO-T13-9** **TOTAL CAROTENOID CONTENT OF DRIED PASTA: THE PHOTOACOUSTIC SPECTROSCOPY VERSUS FEW OTHER METHODS**
D.D. Bicanic¹, O. Doka², G. Vegvari³, J.G. Buijnsters⁴, R. Spruijt¹, T.S. Marenjak⁵
¹Wageningen University, WAGENINGEN, Croatia
²University of West Hungary, MOSONMAGYAROVAR, Hungary
³Corvinus University, BUDAPEST, Hungary
⁴Radboud University, Faculty of Sciences, NIJMEGEN, The Netherlands
⁵Faculty of Veterinary Medicine, Zagreb University, ZAGREB, Croatia
- PO-T13-10** **SPECTROSCOPIC MAGNETIC FLUID BASED OF BABACU**
J.G. Santos, Universidade Federal de Rondônia, JI PARANA, Brazil

- PO-T13-11** **AQUEOUS EXTRACT CURATELLA AMERICAN AND SCHINUS TEREBINTHIFOLIUS**
J.G. Santos, Unirversidade Federal de Rondônia, JI PARANA, Brazil
- PO-T13-12** **QUANTIFICATION OF LYCOPENE IN PROCESSED TOMATO-BASED PRODUCTS USING LIGHT-EMITTING DEVICE AND THE OPTOTHERMAL DETECTOR**
D.D. Bicanic¹, H. Skenderovic², K. Markovic³, L. Pichler⁴, G. Pichler⁵, O. Doka⁶
¹Wageningen University, WAGENINGEN, The Netherlands
²Institute of Physics, ZAGREB, Croatia
³Faculty of Food Technology and Biotechnology University of Zagreb, ZAGREB, The Netherlands
⁴Institute of Physics, ZAGREB, Croatia
⁵Institute of Physics, ZAGREB, Croatia
⁶University of West Hungary, MOSONMAGYAROVAR, Hungary
- PO-T13-13** **SOLVENT EFFECTS IN TLS DETERMINATION OF BETA-LACTOGLOBULIN**
M. Franko, A. Cevdek, University of Nova Gorica, NOVA GORICA, Slovenia
- PO-T13-14** **NATURAL AND LASER INDUCED CAVITATION IN CORN STEMS: ON THE MECHANISMS OF ACOUSTIC EMISSIONS**
G.M. Bilmes¹, E. Fernández², R. Fernández²
¹Centro de Investigaciones Ópticas (CONICET-CIC) and UN La Plata, LA PLATA, Argentina
²IFEVA - Facultad de Agronomía Universidad de Buenos Aires and CONICET, BUENOS AIRES, Argentina

TOPIC 14 - NEW INSTRUMENTATION AND METHODOLOGY

- PO-T14-1** **IN-SITU THERMOPROPERTIES MEASUREMENT OF PD FILM DEPOSITED ON OPTICAL FIBER PREPARED FOR PHOTOTHERMAL REFLECTANCE DETECTION**
A. Yurai, Osaka Sangyo University, OSAKA, Japan
- PO-T14-2** **CALORIMETRIC INVESTIGATIONS OF LIQUIDS BY COMBINED FRONT PHOTOPYROELECTRIC DETECTION CONFIGURATION (FPPE) AND THERMAL-WAVE RESONATOR CAVITY (TWRC) METHOD**
M. Streza¹, D. Dadarlat², M.N. Pop², V. Tosa², S. Delenclos³, S. Longuemart³, A.H. Sahraoui³
¹National Institute for Research and Development of Isotopic and Molecular Tech., CLUJ-NAPOCA, Romania
²NIRDIMT Cluj-Napoca, CLUJ-NAPOCA, Romania
³Universite du Littoral, DUNKERQUE, France
- PO-T14-3** **THERMAL DIFFUSIVITY MEASUREMENT BY PHOTOTHERMAL RADIOMETRY UNDER RANDOM EXCITATION AND PARAMETRIC ANALYSIS**
J.L. Bodnar¹, P. Gossel¹, S. Brahim²
¹University of Reims, REIMS, France
²Université, REIMS, France
- PO-T14-4** **PHOTONIC CRYSTAL LASER FOR PHOTOACOUSTIC SPECTROSCOPY**
M. Wolff¹, S. Gebhardt²
¹Hamburg University of Applied Sciences, HAMBURG, Germany
²PAS-Analytik GmbH, HAMBURG, Germany
- PO-T14-5** **A SINGLE NANOPARTICLE DETECTION: VIRTUAL PHOTOTHERMAL EXPERIMENT**
D.A. Nedosekin¹, M.A. Proskurnin², V.P. Zharov³, Yu.A. Vladimirov⁴
¹A.V.Shubnikov Institute of Crystallography of the Russian Academy of Sciences, MOSCOW, Russian Federation
²Analytical Chemistry Division, Chemistry Department, M.V. Lomonosov Moscow State, MOSCOW, Russian Federation
³Philips Classic Laser Laboratories, University of Arkansas for Medical Sciences, LITTLE-ROCK, United States of America
⁴Faculty of Basic Medicine, M.V. Lomonosov Moscow State University, MOSCOW, Russian Federation

- PO-T14-6 DEPTH PROFILING OF THERMOPHYSICAL PARAMETERS OF CURVED SOLIDS USING PHOTOTHERMAL TECHNIQUE**
C. Wang, Soochow University, SUZHOU, China
- PO-T14-7 GAS CELL PHOTOACOUSTIC DETECTION OF ULTRASOUND ABSORPTION**
U. Netzelmann, Fraunhofer IZFP, SAARBRÜCKEN, Germany
- PO-T14-8 MODEL OF RESONANT ACOUSTIC SPECTROSCOPY OF INTERACTION OF HIGH POWER SINGLE-MODE LASER RADIATION WITH CRYSTALS**
D. Myasnikov¹, A.V. Doronkin¹, A.V. Konyashkin², O.A. Ryabushkin²
¹NTO „IRE-Polus“, FRYAZINO, Russian Federation
²IRE RAS, FRYAZINO, Russian Federation
- PO-T14-9 PHOTOACOUSTIC INVESTIGATION OF QCL MODULATION TECHNIQUES**
M. Wolff, M. Germer, Hamburg University of Applied Sciences, HAMBURG, Germany
- PO-T14-10 PHOTOPYROELECTRIC DETECTION BASED ON PLZT CERAMIC**
J.J.A. Flores-Cuautle, E. Suaste-Gómez, A. Cruz-Orea, CINVESTAV, MEXICO, Mexico
- PO-T14-11 DEVELOPMENT OF A PHOTOTHERMAL DOUBLE BEAM LASER SCANNING SYSTEM**
W. Faubel¹, S. Heissler¹, B. Gotter²
¹Forschungszentrum Karlsruhe, EGGENSTEIN-LEOPOLDSHAFEN, Germany
²Martin-Luther-University, HALLE, Germany
- PO-T14-12 FOURFOLD ELECTROSTATIC DEFLECTION FOR IN BEAM MASS SELECTION OF NANOCLOUDS PRODUCED WITH A LASER VAPORIZATION SOURCE**
C. Romero¹, K. Lauwaet², D. N. Ilevlev³, P. Lievens²
¹KULeuven, HEVERLEE, Belgium
²K.U. Leuven, LEUVEN, Belgium
³Teer Coatings Ltd, WORCESTERSHIRE, United Kingdom
- PO-T14-13 RESONANT ACOUSTIC SPECTROSCOPY OF THE INTERACTION OF THE SINGLE-MODE HIGH-POWER LASER RADIATION WITH CRYSTALS**
A.V. Konyashkin¹, A.V. Doronkin², V.A. Tyrtshnyy², D.V. Myasnikov¹, O.A. Ryabushkin³
¹NTO „IRE-Polus“, FRYAZINO, Russian Federation
²Moscow Institute of Physics and Technology, DOLGOPRUDNY, Russian Federation
³Institute of Radio-engineering and Electronics of RAS, FRYAZINO, Russian Federation
- PO-T14-14 3-OMEGA MEASUREMENTS OF THERMAL CONDUCTIVITIES OF MATERIALS DESIGNED FOR LOW THERMAL RESISTANCES**
P.-O. Chapuis¹, M. Schmidt¹, N. Kehagias¹, J. Cuffe¹, M. Prunnila², J. Ahopelto², C.M. Sotomayor Torres¹
¹Institut Català de Nanotecnologia (ICN-CIN2), BELLATERRA (BARCELONA), Spain
²VTT Micro and Nanoelectronics, ESPOO, Finland
- PO-T14-15 THERMAL WAVE INTERFEROMETRY OF GAS-LIQUID USING OF-TWRC TECHNIQUE**
A.B. Zakaria, M. Noroozi, Z.A. Sulaiman, Z.A. Wahab, M.M. Moxsin, Universiti Putra Malaysia, SERDANG, Malaysia
- PO-T14-16 FREQUENCY-DOMAIN PHOTOTHERMOACOUSTIC IMAGING WITH A CW LASER AND NON-LINEAR FREQUENCY MODULATION CHIRPS**
A. Mandelis, University of Toronto, TORONTO, Canada

TOPIC 15 - NONLINEAR EFFECTS, LARGE DEFORMATIONS AND SHOCK WAVE PHYSICS
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- PO-T15-1 THEORY OF THE SECOND HARMONIC OF THE PHOTOACOUSTIC SIGNAL OF THE OPAQUE SOLIDS**
T. Salikhov, Tajik National University, DUSHANBE, Tajikistan

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- PO-T16-1 POLYMER-MATRIX SILVER NANOCOMPOSITES: SYNTHESIS AND INVESTIGATION BY THERMAL LENSING**
 D.A. Nedosekin¹, M.V. Galkin², E.V. Ageeva², N.A. Gavrilenko³, M.A. Proskurnin²
¹A.V.Shubnikov Institute of Crystallography of the Russian Academy of Sciences, MOSCOW, Russian Federation
²Analytical Chemistry Division, Chemistry Department, M.V. Lomonosov Moscow State, MOSCOW, Russian Federation
³Tomsk Polytechnic University, TOMSK, Russian Federation
- PO-T16-2 CONICAL DIFFRACTION DUE TO THERMALLY SELF-INDUCED PHASE MODULATION FOR THERMO-OPTICAL CHARACTERIZATION**
 V. Pilla¹, M. Gesualdi², E. Munin³
¹Universidade Camilo Castelo Branco- UNICASTELO, SÃO PAULO, Brazil
²UFABC, SAO PAULO, Brazil
³UNICASTELO, SÃO JOSE DOS CAMPOS, Brazil
- PO-T16-3 INVESTIGATION OF REAL-TIME PHOTO-INDUCED CHEMICAL REACTION USING THERMAL LENS SPECTROSCOPY**
 N.A. Astrath¹, F.B.G Astrath², J. Shen², K.H. Michaelian³, C. Fairbridge³, L.C. Malacarne⁴, P.R.B. Pedreira⁴, M.L. Baesso⁴
¹National Research Council Canada, VANCOUVER, Canada
²National Research Council Canada - IFCI, VANCOUVER, Canada
³CanmetENERGY, Natural Resources Canada, DEVON, Canada
⁴Universidade Estadual de Maringá, MARINGÁ, Brazil

TOPIC 17 - NEW APPLICATIONS BASED ON PHOTOACOUSTIC AND PHOTOTHERMAL PHENOMENA
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- PO-T17-1 LASER OPTOACOUSTIC NONDESTRUCTIVE METHOD OF THICKNESS MEASUREMENT OF SUBSURFACE DAMAGED LAYER IN MACHINED SILICON WAFERS**
 N. Podymova¹, A. Karabutov²
¹M.V. Lomonosov Moscow State University, MOSCOW, Russian Federation
²M.V.Lomonosov Moscow State University, MOSCOW, Russian Federation
- PO-T17-2 THERMAL EFFUSIVITY MEASUREMENTS OF GRANULAR MATERIALS WITH PHOTOACOUSTIC TECHNIQUES AND THE RELATIONSHIP WITH GRANULAR SIZE**
 J.A. Balderas-López, Y.M. Gómez y Gómez, M.E. Bautista-Ramírez, UPIBI-IPN, MÉXICO, D. F., Mexico
- PO-T17-3 SELF-NORMALIZED PHOTOACOUSTIC TECHNIQUE FOR OPTICAL CHARACTERIZATION OF GREEN BIOPOLYMERS BASED ON GUMS OF GELANA**
 J.A. Balderas-López, I.S. Martínez-López, M. León-Martínez, J. Yañez-Fernández, UPIBI-IPN, MÉXICO, D. F., Mexico
- PO-T17-4 OPEN PHOTOACOUSTIC CELL APPLIED TO THE STUDY OF PHOTOSYNTHESIS IN MAIZE SEEDLINGS IRRADIATED WITH LASER**
 C. Hernández Aguilar¹, A. Cruz Orea², J. Valcarcel M.³, A. Domínguez Pacheco¹, R. Zepeda Bautista¹
¹IPN - ESIME zacatenco - SEPI, MÉXICO CITY, Mexico
²CINVESTAV IPN, MÉXICO CITY, Mexico
³Universidad Sur colombiana, A.A., COLOMBIA NEIVA, Colombia
- PO-T17-5 PHOTOPYROELECTRIC MEASUREMENT OF THERMAL CONDUCTION IN HDPE-CeO2 COMPOSITES**
 J. Philip¹, S. Uma¹, P.S. Anjana², M.T. Sebastian²
¹Cochin University of Science and Technology, COCHIN, India
²NIIST, TRIVANDRUM 695 019, India

- PO-T17-6 GASEOUS CONTAMINANT DETECTOR IN COMPRESSED AIR SYSTEMS USING PHOTOACOUSTIC SPECTROSCOPY**
N. Lopes¹, R. Frese¹, M. Andresen², T. Fink³, H.G. Rubahn¹
¹Mads Clausen Institute, Univ. of Sønderborg, SØNDERBORG, Denmark
²PAJ Systemteknik, SØNDERBORG, Denmark
³PAJ Systemteknik, SØNDERBORG, Denmark
- PO-T17-7 CHARACTERIZATION OF SEEDS WITH DIFFERENT COLOR BY PHOTOPYROELECTRIC MICROSCOPY**
A. Dominguez Pacheco¹, C. Hernández Aguilar¹, A. Cruz Orea², R. Rosalba Zepeda Bautista³, F. Sánchez Sinéncio²
¹IPN - ESIME zacatenco - SEPI, MÉXICO CITY, Mexico
²CINVESTAV IPN, MÉXICO CITY, Mexico
³IPN-ESIME zacatenco-SEPI, MEXICO CITY, Mexico
- PO-T17-8 CHARACTERIZATION OF SEEDS WITH DIFFERENT MOISTURE CONTENT BY PHOTOACOUSTIC MICROSCOPY**
A. Dominguez Pacheco¹, C. Hernández Aguilar¹, A. Cruz Orea², E. Martínez Ortiz¹, F. Sánchez Sinéncio²
¹IPN - ESIME zacatenco - SEPI, MÉXICO CITY, Mexico
²CINVESTAV IPN, MÉXICO CITY, Mexico
- PO-T17-9 STUDY OF THE OPTICAL ABSORPTION COEFFICIENT OF MAIZE SEEDS FROM VALLEY OF MEXICO**
C. Hernández Aguilar¹, A. Cruz Orea², A. Domínguez Pacheco¹, R. Zepeda Bautista¹, F. Sánchez Sinéncio²
¹IPN - ESIME zacatenco - SEPI, MÉXICO CITY, Mexico
²CINVESTAV IPN, MÉXICO CITY, Mexico
- PO-T17-10 STUDY OF OPTICAL ABSORPTION SPECTRUM OF LIQUID CHLOROPHYLLS BY PHOTOACOUSTIC SPECTROSCOPY**
C. Hernández Aguilar¹, A. Cruz Orea², A. Domínguez Pacheco¹, A. Carballo Carballo³, R. Zepeda Bautista¹
¹IPN - ESIME zacatenco - SEPI, MÉXICO CITY, Mexico
²CINVESTAV IPN, MÉXICO CITY, Mexico
³COLPOS Edo. Mexico, MÉXICO TEXCOCO, Mexico
- PO-T17-11 ANNEALING TEMPERATURE EFFECT ON THERMOPHYSICAL PROPERTIES OF CuInS₂ USING PHOTOPYROELECTRIC TECHNIQUE**
I. Abdellaziz¹, I. Mellouki², M. Ben Rabeh³, M. Kanzari³, N. Yacoubi²
¹INSAT, RADÉS TUNIS, Tunisia
²IPEIN, TUNIS, Tunisia
³ENIT, TUNIS, Tunisia
- PO-T17-12 THERMAL PROPERTIES OF MAIZE KERNEL AND NIXTAMAL BY PHOTOTHERMAL TECHNIQUES**
A. Dominguez Pacheco¹, R. Rosalba Zepeda Bautista², C. Hernández Aguilar¹, A. Cruz Orea³, I. Peón Escalante¹, E. San Martín Martínez⁴
¹IPN - ESIME zacatenco - SEPI, MÉXICO CITY, Mexico
²IPN-ESIME zacatenco-SEPI, MEXICO CITY, Mexico
³CINVESTAV IPN, MÉXICO CITY, Mexico
⁴CICATA-IPN, MÉXICO CITY, Mexico
- PO-T17-13 THERMO-OPTICAL PROPERTIES OF WATER SOLUTIONS OF BLUE AND RED METHYLENE BY THERMAL-LENS SPECTROSCOPY, THERMAL WAVE RESONATOR CAVITY AND UV-VIS SPECTROSCOPY**
J.A. Balderas-López¹, O. Gómez-Guzmán², A. Galindo Maldonado³, J.M. Yañez-Limón⁴
¹UPIBI-IPN, MÉXICO, D. F., Mexico
²Instituto Tecnológico de Querétaro, QUERÉTARO, Mexico
³Instituto Tecnológico de Querétaro, QUERÉTARO, Mexico
⁴CINVESTAV-Querétaro, QUERÉTARO, Mexico

- PO-T17-14 LASER CLEANING MONITORING BY PHOTOACOUSTIC**
M. Villagrán-Muniz¹, C. Aldama-Reyna², E. Mejia-Urriarte¹, Z. Ramirez-Maldonado¹,
M. Villagrán-Muniz¹
¹UNAM, MÉXICO D.F., Mexico
²UNT, TRUJILLO, Peru
- PO-T17-15 PHOTOACOUSTIC RESPONSE OF LiNbO₃:Nd³⁺:MgO SINGLE-CRYSTALS EXCITED IN OPTICAL CENTRES OF Nd AND Nd-Mg**
R. Quispe Siccha¹, M. Villagran Muniz², J. Hernández Alcántara³, E. Camarillo García³, P. Molina⁴, J. García Solés⁵, M. Navarrete Montesinos⁶, H. Del Castillo Gonzales³, I. Camarillo⁷, H. Murrieta³
¹Centro de ciencias aplicadas de desarrollo y tecnología, MEXICO, Mexico
²Centro de ciencias aplicadas de desarrollo y tecnología, MEXICO, Mexico
³Instituto de Física, MEXICO, Mexico
⁴Física de Materiales, MADRID, Spain
⁵Física de Materiales, MADRID, Spain
⁶Instituto de Ingeniería, MEXICO, Mexico
⁷Departamento de Física, IZTAPALAPA, Mexico
- PO-T17-16 PHOTOTHERMAL CHARACTERIZATION OF ELASTOMERS**
J. Alvarado-Gil, D. Macias, R. Medina-Esquivel, Cinvestav-Unidad Merida, MERIDA, Mexico
- PO-T17-17 PHOTOTHERMAL WAVE PHENOMENA BASED ON HYPERBOLIC HEAT TRANSPORT**
J. Alvarado-Gil, J. Ordonez-Miranda, Cinvestav-Unidad Merida, MERIDA, Mexico
- PO-T17-18 THIN FILM ADHESION CHARACTERISATION BY SURFACE ACOUSTIC WAVE SPECTROSCOPY**
C. Glorieux¹, X. Luo², R. Salenbien², T. Van der Donck², J.P. Celis², M. Wevers²
¹ATF-K.U. Leuven, HEVERLEE, Belgium
²K.U. Leuven, HEVERLEE, Belgium
- PO-T17-19 FOURIER TRANSFORM INFRARED PHOTOACOUSTIC SPECTROSCOPY FOR DISCRIMINATION OF TRANSGENIC AND CONVENTIONAL SOYBEAN SEEDS**
S.M. Lima¹, L.H.C. Andrade¹, A.R.L. Caires², Y.R. Suárez¹, M.R.O. Teixeira³
¹Universidade Estadual de Mato Grosso do Sul, DOURADOS, Brazil
²Universidade Federal da Grande Dourados, DOURADOS, Brazil
³EMBRAPA, DOURADOS, Brazil

TOPIC 19 - OTHER

- PO-T19-1 THERMAL PROPERTIES OF CALCIUM PHOSPHATES BY HOT WIRE TECHNIQUE**
M. Mendez¹, A. Cruz-Orea², A. Calderon³
¹National Polytechnic Institute, MEXICO CITY, Mexico
²CINVESTAV, MEXICO CITY, Mexico
³CICATAC-IPN, MEXICO CITY, Mexico
- PO-T19-2 SENSITIVITY OPTIMIZATION OF A CANTILEVER-ENHANCED PHOTOACOUSTIC DETECTOR**
J. Saarela, J. Toivonen, A. Manninen, T. Sorvajärvi, R. Hernberg, Tampere University of Technology, TAMPERE, Finland
- PO-T19-3 CHARACTERIZATION OF RAW MATERIAL PRODUCT OF THE REGION OF CERAMIC JI-PARANA RONDONIA BRAZIL**
J.G. Santos, Unirversidade Federal de Rondônia, JI PARANA, Brazil
- PO-T19-4 COMPARISON OF THERMAL WAVES EXCITED BY THE PHOTOTHERMAL AND THE PELTIER EFFECT**
J. Leys, C. Glorieux, J. Thoen, Katholieke Universiteit Leuven, LEUVEN, Belgium

**PO-T19-5 PHOTOTHERMAL TRANSFORMATION OF THE BESSEL LIGHT BEAM IN
GYROTROPIC SUPERLATTICES**

G.S. Mityurich¹, A.N. Serdyukov²

¹Belarusian Trade-Economical University, GOMEL, Belarus, Republic of

²Gomel State University, GOMEL, Republic of Belarus

**PO-T19-6 EXCITING OF A PHOTODEFLECTION SIGNAL BY THE BESSEL LIGHT BEAM IN
MAGNETOACTIVE MEDIA WITH INNER STRESSES**

G.S. Mityurich¹, R.M. Burbelo², A.G. Kuzmich², A.N. Serdyukov³

¹Belarusian Trade-Economical University, GOMEL, Republic of Belarus

²Kiev National University named Taras Shevchenko, KIEV, Ukraine

³Gomel State University, GOMEL, Republic of Belarus