

IALMS NEWSLETTER

December 2012

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Report On Laser Florence 2012

As each year, Laser Florence 2012 has had a good success and new data were presented to the scientific community, for prompt transfer to clinical practice. New data shown in Laser Florence 2012 are listed below:

1. Follow-up of patients with traumatic spinal cord lesions treated with LASER therapy. This procedure was started almost nine years ago. So far 168 patients have been treated. Of these nearly all have shown consistent improvement of sensory and motor functions below the level of lesion. Some have acquired anal sphincter and sexual function. 8 of them have been able to start walking again. Others have shown partial improvement. Only 4 were completely unsuccessful. 35 patients have stopped treatment for various reasons (i.e. impatience or very slow improvements).
2. LASER therapy on stem cells taken from the bone marrow. It is possible with this method to promote obtain stem cells which differentiate in to adipose and connective cells, nerves, tendons and so on. It is not necessary to obtain cells in vitro adding other substances such as growth factors. Treated of Traumatic spinal cord lesion with LASER irradiated stem cells has been started.
3. New LASERs have been used in the treatment of traumatic sport lesions, epicondylitis, bursitis, sprains and in pain due to acute and chronic fibromyalgia. The mechanisms of action of these LASERs have been clarified.
4. LASER therapy in infections, particularly those resistant to antibiotics (i.e. Skin and mouth staphylococcus infection as well as onychomycosis).
5. New technologies of LASER guided microsurgery guided by GPS system for the treatment of cervical, dorsal and lumbar hernias without scalp tissue incision and in day-hospital.

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6. Combined LASER and pulsed light therapy of cheloids and hypertrophic scars. patients with extensive face scarring and cheloids resulting from third degree burns have been treated with success.

7 New techniques with diagnostic LASER for the early diagnosis of pancreatic cancer and intestinal cancer have been shown.

Please find below the final program of our annual congress. The IALMS member could read the abstracts book online, on the web.site of our journal "Laser in Medical Sciences".

PLENARY LECTURE - Room A - November 9th, 2012

Chairman: C. Enwemeka, M.L. Pascu, E. Sykova

09:00	IN MEMORY OF ISAAC KAPLAN	A. Baruchin, MD, PhD <i>Askelon University, Israel</i>
09:30	DEVELOPMENTS IN PHOTOBIO-MODULATION FOR BACTERIAL ERADICATION	Chukuka S. Enwemeka, PhD, FACS <i>Professor and Dean, College of Health Sciences University of Wisconsin—Milwaukee, USA</i>
10:00	THE EVOLUTION'S POWER LASER THERAPY IN THE TREATMENT OF SPORTS INJURIES	P.F. Parra <i>University of Pisa, Visiting Professor in Physical Science Montecatini Terme, Italy</i>
10:30	THE BENEFITS OF HIGH PERFORMANCE LASER BEAMS IN THE TREATMENT OF MUSCULOSKELETAL ISSUES	¹ V. Navratil, ³ Hajkova S., ² Koci P., ⁴ Vranova J., ^{1,3} Navratil L., ¹ Efremova Y. <i>¹Czech Technical Univ.in Prague, Faculty of Biomedical Engineering in Kladno, Czech Rep. ²Physiotherapy Clinic Rehamedica, Zacler, Czech Republic ³THERAP-TILIA Prague, Clinical Dept Faculty of Biomedical Eng. in Kladno, Czech Rep ⁴Charles University in Prague, Third Faculty of Medicine, Czech Republic</i>
11:00	MECHANISMS OF PHOTOBIO-MODULATION FOR TISSUE REPAIR, PAIN CONTROL AND BACTERIAL ERADICATION	Chukuka S. Enwemeka, PT, PhD, FACS <i>University Distinguished Professor and Dean, College of Health Sciences, University of Wisconsin—Milwaukee, USA</i>

11:30 - COFFEE-BREAK

Chairman: L. Longo, L. Navratil, P. Ramdawon

11,45	STEM CELLS IN REGENERATIVE MEDICINE: PRECLINICAL AND CLINICAL STUDIES	Eva Sykova <i>Institute of Experimental Medicine, Academy of Sciences of the Czech Republic, Videnska 1083, 14220 Prague 4, Czech Republic</i>
12,15	LIGHT SUPPORTS DIFFERENTIATION OF ADIPOCYTES FROM HUMAN MESENCHYMAL STEM CELLS	Xingjia Wu ¹ , Leonardo Longo ² , Juanita J. Anders ¹ <i>¹Uniformed Services University of the Health Sciences, Bethesda, USA ²Institute Laser Medicine, Florence, Italy</i>
12:45	LASER METHODS USED TO FIGHT MULTIPLE DRUG RESISTANCE TO TREATMENT	M.L. Pascu ^{1,2,*} , A. Militaru ^{1,2} , M. Boni ^{1,2} , T. Alexandru ^{1,2} , V. Nastasa ^{1,2} , I. R. Andrei ¹ <i>¹ National Inst. for Laser, Plasma and Radiation Phys, Laser Dept, Magurele, Romania² Physics Faculty, University of Bucharest, Romania</i>

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13:15	PHOTO-ELECTROMAGNETIC TREATMENT OF DIABETES	FIELD	Pretidev Ramdawon, MD, PhD, DSc <i>International Center of Info-Energetic Laser Medicine - Republic of Mauritius</i>
13:45	LASER THERAPY OF SPINAL CORD INJURIES : 9 YEARS OF PERSONAL EXPERIENCES		L. Longo, MD <i>Institute Laser Medicine, Firenze - Italy</i>
14:00 - LUNCH			

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LASER DIAGNOSIS AND SURGERY Room A – November 9th, 2012 Chairmen: A. Baruchin, M. Barton, J. Vaitkus		
15:00	PHOTODIAGNOSIS BY AUTOFLUORESCENCE AND VIBRATIONAL SPECTROSCOPY	J.Vaitkus¹, A.Vaitkuvienė¹, V.Gėgžna¹, D.Varanius¹, V.Aleksa², J.Pozela³ ¹ Institute of Applied Research, Vilnius University ² Dept of Gen. Physics & Spectroscopy, Fac. of Physics, Vilnius Univ, ³ Physics and Technol. Sciences Research Center, Vilnius, Lithuania
15:15	NON CONTACT ASSESSMENT OF MUSCLE ACTIVITY: LASER DOPPLER MYOGRAPHY	L. Scalise, S. Casaccia, P. Marchionni, I. Ercoli, E. P. Tomasini Dipartimento di Ingegneria Industriale e Scienze Matematiche, Università Politecnica delle Marche - Ancona University, Italy
15:30	PHOTOCHEMICAL TISSUE BONDING OF PERIPHERAL NERVES USING LASER-ACTIVATED ADHESIVES	¹Matt Barton, ¹David Mahns, ¹John Morley, ¹Damia Mawad, ²Marcus Stoodley and ³Antonio Lauto ¹ Bioengineering and Neuroscience Group, School of Medicine, University of Western Australia NSW, Sydney, Australia
15:45	THE FLUORESCENCE AND IR SPECTROSCOPY FOR CERVICAL SCRAPINGS DIAGNOSTICS	A. Vaitkuvienė¹, V.Gėgžna¹, J.Vaitkus¹, J.Rimienė², P.Sladkevicius³ ¹ Vilnius Univ., Inst. of Applied Research, Vilnius, Lithuania ² UAB "Patologijos diagnostika", Vilnius, Lithuania ³ Lund Univ, Fac. of Medicine, Dept of Clinical Sci., Malmö, Sweden
16:00	PHOTODYNAMIC EFFECT OF ROSE BENGAL ON TRICHOPHYTON RUBRUM	¹Leah Cronin, ¹Colin Stack, ^{1,2} Antonio Lauto ¹ School of Science and Health, University of Western Sydney, Campbelltown NSW 2560
16:15	PROSPECTS FOR NON-DESTRUCTIVE LASER TREATMENT OF GLAUCOMA USING UVEOSCLERAL OUTFLOW PATH UNDER NONDESTRUCTIVE LASER RADIATION	¹Olga Baum, ²Emil Sobol, ²Andrey Bolchunov ¹ Institute on Laser and Information Technologies RAS ² Research Institute of Eye Diseases, RAMS Moscow (Troitsk)142190 - Russia
16:30 - COFFEE-BREAK Chairmen: J. Abtibol, L. Scalise, A. Vaitkuvienė		
16:45	IONIZATION TRACK SIGNATURE OF LASER-ACCELERATED PARTICLE BEAMS	Ceferino Obcemea Memorial Sloan Kettering Cancer Center - New York (USA)
17:00	EVALUATION OF THE BEST A OF SURGICAL LASER WAVES IN THE SURGERY OF PANCREAS: POTENTIAL APPLICATIONS IN NECROSECTOMY AND BIOPSY OF PANCREATIC LESIONS	Lorenzo Dioscoridi, MD; Silvia Sordi, BD; Damiano Fortuna, DVM and Carlo Papanozzi, MD. Second General and Emergency Surgery, chief Prof. Paolo Bechi, Careggi Teaching Hospital, Florence, Italy
17:15	ELASTIC SCATTERING XENON SPECTROSCOPY (ESS) IN DIAGNOSIS OF COLONIC ADENOCARCINOMA: A NEW OPTICAL BIOPSY TECHNIQUE	Silvia Sordi, BD; Lorenzo Dioscoridi, MD; Damiano Fortuna, DVM and Carlo Papanozzi, MD. Second General and Emergency Surgery, Chief Prof. Paolo Bechi, Careggi Teaching Hospital, Florence, Italy
17:30	MODIFIED UVULAR FLAP AS A TREATMENT OF OBSTRUCTIVE SLEEP APNEA SYNDROME	Nuri Asmail Libya Northelbida Side Arouba Street 44 Elbaida
17:45	PARTIAL TONSILLECTOMY BY CO2 LASER	J. Abtibol, MD ENT Dept, Paris University - France
18:00	HOLMIUM LASER ENUCLEATION OF THE PROSTATE FOR BPH; OUR INITIAL EXPERIENCE	Dorin Claiçi, D.Tigaran, O. Bedreag, M. Georgiades Center for Urology and Laser Timisoara, University of Medicine and Pharmacy Timisoara, Romania
Room A		

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18:15 - ROUND TABLE WITH PATIENTS

19:00 - Open Ceremony With Welcome Cocktail And Leading Lecture

M. Stark - *The future of abdominal surgery: Telesurgery with haptic sensation*

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LASER DENTISTRY

Room A – 10th November, 2012

Chairmen: T. Dostalova, C. Fornaini, G. Lynn Powell

9:00	BONE-IMPLANT CONTACT AROUND IMPLANTS INSERTED IN BOVINE BLOCK GRAFT TREATED WITH LOW LEVEL LASER THERAPY: AN EXPERIMENTAL STUDY IN RABBITS.	Pinheiro A.L. , Magalhães Junior, E.B., Magalhães, C.A.B., Ferreira, C.F., Freitas, A.C. <i>¹Center of Biophotonics of the School of Dentistry of the Federal University of Bahia, Faculty of dentistry</i> <i>²Federal Univ. of Santa Catarina, Florianópolis, Santa Catarina, Brazil,</i> <i>³Dept of Periodontology, Univ. of Tennessee, School of Dentistry</i>
9:15	LASER IN DENTISTRY – OVERVIEW	T. Dostalova¹ , H. Jelinkova ² <i>¹Charles Uni., 2nd Medical Faculty and Faculty Hosp. Motol, Prague 5</i> <i>²Czech Technical Univ. in Prague, Faculty of Nuclear Sci. and Physical</i>
9:30	Er:YAG LASER AND FRACTURED INCISORS RESTORATION	Fornaini C , Petruzzella S, Podda R, Merigo E and Vescovi P <i>Oral Medicine and Laser-assisted Surg. Unit, Dental School, Faculty of Medicine, University of Parma (Italy) and European Master Degree in Oral Laser Applications, University of Parma (Italy)</i>
9 :45	CLINICAL EVIDENCE BASE STATISTIC EVIDENCE OF LLLT CAUSE BONE GROWTH AND CAL DEDUCTION	D.R. Vieru-York^{1,3} , Norman Kauffman ³ , James Soberman ³ , Beybecov Iskander ² , Azamat Butaev ² , Anca Dumitriu ¹ , Mark Wolff ³ <i>¹Carol Davila University, Bucharest, Romania</i> <i>²Tashkent Medical Inst., Cariology Dept,</i> <i>³New York University Dental School, USA</i>
10 :00	QUALITATIVE EVALUATION OF DIFFERENT LASER SURFACE TREATED HIGH STRENGTH CAD/CAM CERAMICS USED IN PROSTHETIC DENTISTRY	Seif B* , Brulat-Bouchard N., Medioni E., Darque-Ceretti E. Rocca JP <i>¹Laboratory of Oral Health and Aging-University of Nice Sophia Antipolis, Nice, France</i> <i>²Centre évaluation des matériaux, école des Mines, Paris</i>
10 :15	HIMMUNOHISTOCHEMICAL ANALYSIS OF THE LLLT WITH Nd:YAG LASER EFFECTS IN DENTAL EXTRACTIONS IN RATS UNDER ZOLEDRONIC ACID AND DEXAMETHASONE ADMINISTRATION	Merigo E^{1*} , Fornaini C ¹ , Corradi D ² , Maestri R ² , Meleti M ¹ , Nammour S ³ , Vescovi P ¹ <i>¹Master Europeo "Laser in Odontostomatologia" – European Master Degree in Oral Laser Applications EMDOLA – (Direttore: Prof. Paolo Vescovi) - Università di Parma - Parma, Italy.</i> <i>²Dipartimento di Patologia e Medicina di Laboratorio - Sezione di Anatomia patologica - Università di Parma, Parma, Italy.</i>
10:30 COFFEE-BREAK		
Chairmen: H. Jelinkova, A.L.B. Pinheiro, J.P. Rocca		
10:45	CONCEPTION AND ASSEMBLING A 408 NM DIODE LASER FOR ITS POTENTIAL CLINICAL APPLICATION IN TOOTH BLEACHING.	R Rigano , AC Bernhardt, J Grolleron, P Bufflier, C Fornaini, JP Rocca <i>Europ. Master Degree in Oral Laser Applications, Univ of Nice - France</i>
11:00	Nd-YAP AND DENTINAL HYPERSENSITIVITY: A SEM AND EDS MICROANALYSIS	Rocca JP , Hasan Rezaou, Médioni E. Lab. Santé Buccale et Vieillessement. UFR Odontologie, Université de Nice, France
11:30	BLEACHING EFFECT OF DIODE AND KTP LASERS ON DIFFERENT GROUPS OF TEETH STAINED BY DIFFERENT AGENTS: IN VITRO STUDY	Lagori G , Merigo E, Vescovi P and Fornaini C. <i>Oral Medicine and Laser-Assisted Surgery Unit, Faculty of Medicine, University of Parma (Italy)</i>
11:45	SURGICAL EXCISION OF TORUS MANDIBOLARIS WITH ER,CR:YSGG LASER	J Grolleron 1 , S Mareschi 1, AC Bernhardt 1, R Rigano 1, P Bufflier, JP Rocca , C Fornaini <i>Europ. Master Degree in Oral Laser Applications, Nice Univ. (France)</i>
12:00	CHILDREN BEHAVIOR'S EVALUATION DURING ER-YAG LASER-ASSISTED	Zhegova Galia¹ , Rashkova Maya ² <i>¹ Assistant professor; Medical University of Sofia, Faculty of Dental</i>

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	CARIES TREATMENT	<i>Medicine, Department of pediatric dentistry; 2 PhD Associate professor; Medical University of Sofia, Faculty of Dental Medicine, Department of pediatric dentistry;</i>
12 :15	COMBINATION OF DIFFERENT HIGH TECHNOLOGY DEVICES (LASER, QMR AND PIEZOSURGERY) IN THE TREATMENT OF BISPHOSPHONATES-RELATED OSTEONECROSIS OF THE JAWS (BRONJ)	Fontana M, Fornaini C, Merigo E, Clini F, Cella L, Oppici A <i>Odontostomatology and Maxillo-Facial Surgery Unit – “Guglielmo da Saliceto Hospital – Piacenza – Italy</i>
12:30	REMOVAL OF BENIGN FIBROEPITHELIAL LESIONS WITH Nd:YAG LASER: A COMPARISON BETWEEN A COMPOUND BASED ON AMINOACID AND HYALURONIC ACID (AMINOGAM™), A COMPOUND BASED ONLY ON HYALURONIC ACID AND A PLACEBO IN REDUCING THE POSTOPERATIVE SYMPTOMS	Sarraj A, Manfredi M, Meleti M, Merigo E, Mergoni G, Fornaini C, Vescovi P <i>EMDOLA European Master Degree in ORal Laser Applications, University of Parma (I)</i>
12:45	USE OF 1064 NM DIODE PUMPED LASER TO ABLATE DENTAL SURFACES: PRELIMINARY “IN VITRO” STUDY	Sozzi M, Fornaini C, Cucinotta A, Merigo E, Vescovi P & Selleri S <i>Oral medicine and Laser-assisted surgery Unit, Dental School, University of Parma (I)</i> <i>Group of Applied ElectroMagnetics, Information Engineering Department, University of Parma (I)</i>
13:00	STAGE I SQUAMOUS-CELLS CARCINOMA: LASER-ASSISTED SURGICAL TREATMENT	Meleti M:*, Merigo E, Fornaini C, Vescovi P <i>EMDOLA (European Master Degree of Oral Laser Applications) - Università degli Studi di Parma</i>
13:15	OZONE VS PDT IN 40 PATIENTS WITH PERIODONTITIS	Dulce Ma.Olvera Mazariegos,Héctor Martínez Arizpe; Arcelia Meléndez Ocampo <i>Instituto de Tecnología Avanzada, Mastership in laser dentistry, University Autonomus of Mexico, Mexico DF</i>

13:30 – LUNCH

LASER THERAPY OF DISCAL HERNIAS - WORKSHOP		
Room B - November 10th, 2012		
Chairmen: J. Chiu, M. Postiglione		
10:45	EVOLVING GRID POSITIONING SYSTEM GUIDANCE FOR LASER LUMBAR DISCECTOMY SURGERY IN THE MORBID OBESE	J. Chiu, MD <i>California Spine Institute, Laser Neurospine Surgery Thousand Oaks - USA</i>
11:00	A SURGEON'S HOLISTIC PERSPECTIVE ON TECHNOLOGICAL CONVERGENCE AND DIGITAL OR CONTROL SYSTEM – FOR LASER MINIMALLY INVASIVE SPINE SURGERY (MISS)	J. Chiu, MD, PhD <i>California Spine Institute, Laser Neurospine Surgery, Thousand Oaks, USA</i>
11:15	INNOVATIVE LASER THORACIC ENDOSCOPIC MICRODISCECTOMY WITH GPS SYSTEM.	J. Chiu, MD <i>California Spine Institute, Laser Neurospine Surgery Thousand Oaks - USA</i>
11:30	EVOLVING LASER ENDOSCOPIC ANTERIOR CERVICAL DISCECTOMY/FORAMINOPLASTY	J. Chiu, MD, PhD <i>California Spine Institute, Laser Neurospine Surgery, Thousand</i>

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	WITH INTRAOPERATIVE NEUROPHYSIOLOGICAL MONITORING (IOM)	<i>Oaks, USA</i>
11:45	LESS TRAUMATIC SURGICAL LASER THERMONEURECTOMY TREATMENT FOR SACROILIAC JOINT PAIN SYNDROME	J. Chiu, MD <i>California Spine Institute, Laser Neurospine Surgery – Thousand Oaks - USA</i>

LASER IN DERMATOLOGY, PLASTIC SURGERY, AESTHETIC MEDICINE

Room A – November 10th, 2012

Chairmen:

C. De Lorenzi, K. Khatri, M. Stark

15:00	CATASTROPHIC FILLER COMPLICATIONS	Claudio De Lorenzi MD, FRCS <i>150 Edna Street, Kitchener, ON, N2H 6S1 - CANADA</i>
15:15	A NOVEL VAGINAL REJUVENATION PROCEDURE USING A RADIOFREQUENCY DEVICE	K. Khatri, A. Morrison <i>Skin & Laser Surgery Center of New England, Boston, USA</i> <i>New England Institute of Laser Research, Boston, USA</i> <i>BTL Industries, Framingham, MA, USA</i>
15:30	NEW THERAPIES FOR SKIN DISEASE TREATMENT. UVA1 LASER: THE GENERATION AFTER EXCIMER	B. Palmieri, MD, PhD <i>Dept of Surgery and Surgical Specialties, University of Modena and Reggio Emilia. Medical School, Surgical Clinic, Modena, Italy</i>
15:45	USE OF FRACTIONAL ABLATIVE/NON-ABLATIVE AND FULL ABLATIVE LASER WHILE UNDERGOING ISOTRETINOIN THERAPY FOR EVALUATION OF THE RISK OF SCARRING	Khalil A. Khatri, M.D. <i>New England Institute of Laser Research</i> <i>Skin & Laser Surgery Center of New England - Boston, USA</i>
16:00	LASER EFFECT ON THE MECHANICAL PROPERTIES OF HUMAN SKIN IN-VIVO	¹Kucharova M., ²Navratil V., ¹Klemera P., ¹Doubal S, ²Hajkova S., ²Efremova Y., ²Navratil L. <i>¹Charles Univ. in Prague, Faculty of Pharmacy in Hradec Kralove, C</i> <i>²Czech Tech. Univ. in Prague, Faculty of Biomed. Eng. in Kladno,</i>
16:15	UP TO DATE AFTER TEN YEARS ENDOVENOUS LASER THERAPY (EVL) IN VARICOUS VEIN PATHOLOGY IN THE CLINICAL EXPERIENCE OF A SINGLE CENTER	C. Spartera, P Scarpelli, M Boschetti, A Maggipinto, E Di Marco, M Ventura <i>Department of Vascular and Endovascular Surgery, University of L'Aquila, Italy</i>

16:30 - COFFEE-BREAK

Chairmen:

B. Palmieri, A. Ignaciuk, C. Spartera

16:45	308 NM EXCIMER LASER: TARGETED PHOTOTHERAPY FOR PSORIASIS AT DIFFICULT TO TREAT SITES	Nawaf Almutairi, MD <i>Kuwait university Dermatology</i> <i>P.O.Box 280 Farwaniya 80000 - Kuwait</i>
17:00	TREATMENT OF A RESISTANT TATTOO WITH A COMBINATION OF ABLATIVE ER:YAG AND A NON-ABLATIVE ND:YAG LASER	K. Khatri, D. Mahoney <i>Skin & Laser Surgery Center of New England, Boston, USA</i> <i>New England Institute of Laser Research, Boston, USA</i>
17:15	LASER TIPS IN PIGMENTED SKIN	Ahmed Al-Issa, M.D., FRCP(C) American Diplomat of Dermatology Boston, USA
17:30	EVIDENCE BASED SURGERY	M. Stark, MD, PhD <i>New European Surgical Academy, Berlin</i>

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17:45	LASER THERAPY OF SCARS	L. Longo, MD <i>Institute Laser Medicine, Firenze - Italy</i>
18:00	LASER SAFETY: THEORY INTO PRACTICE	Smalley, Penny J, RN, CMLSO, MACORN <i>Chicago, Illinois, USA</i>
18:15	IALMS GENERAL ASSEMBLY and CONCLUSION	

15:00	ROOM B - DIABETES TREATED WITH LIGHT, LASER, MAGNETIC FIELDS - Workshop Chairman: P. Ramdawon, L. Longo
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November 10th, 2012

14:00 ROOM A - TALK POSTER SESSION

Chairmen: C. Fornaini, M. Postiglione, P. Smalley

1	SHORT TERM SPLIT MOUTH STUDY OF COMBINED DIODE LASER THERAPY AND SCALING ROOT PLANING IN THE TREATMENT OF CHRONIC PERIODONTITIS: A ONE YEAR FOLLOW UP WITH A 980NM SIROLASER.	AC Bernhardt , R Rigano , A Diss , P Bufflier, C Fornaini and JP Rocca <i>European Master Degree in Oral Laser Applications, University of Nice (France)</i>
2	THERMAL MODIFICATIONS INDUCED BY DIODES 660NM & 980NM, Nd:YAG, Nd:YAP AND Er:YAG ON IMPLANTS SURFACE DURING SIMULATED DECONTAMINATION: A PRELIMINARY STUDY.	AC Bernhardt , R Rigano, J Grolleron, P Bufflier, C Fornaini, JP Rocca <i>European Master Degree in Oral Laser Applications, Univ. of Nice - France</i>
3	THE IMPACT OF CELL CULTURE EQUIPMENT ON ENERGY LOSS	Davies LI B , Kiernan M N, Bishop JC, Thornton CA, Morgan G <i>Instit. of Life Science, Swansea University, Swansea, Wales U.K</i>
4	THE EFFICACY AND SAFETY OF FRACTIONAL ABLATIVE RESURFACING USING 10,600 NM CO2 PULSE WAVE IN THE TREATMENT OF STRIAE DISTENSAE	Desiree Manlapaz-Gonzales, J.T.Panaligan-Navalta <i>Shinagawa Lasik and Aesthetic Center Philippines #21 Athens St. Phase 3 Vista Verde Executive Village Cainta Rizal</i>
5	INFANTILE HEMANGIOMA - PULSE DYE LASER VERSUS SURGICAL THERAPY	E. Remlova¹, I. Machalusova¹, T. Dostalova², H. Jelinkova³, M. Hubacek⁴, J. Vranova⁵, J. Rosina⁵, L. Navratil⁵ <i>¹AVE LASER CENTRUM, Olomouc; ²Charles Univ, 2nd Med. Faculty, Dept. of Paediatric Stomatology, Prague; ³Czech Tech. Univ. in Prague, Faculty of Nuclear Sciences and Physical Eng, Prague; ⁴Charles University, 3rd Med. Faculty, Dept of Med. Biophysics and Med. Informatics, Prague; ⁵Czech Technical Univ. in Prague, Faculty of Biomed. Eng, Kladno, Czech Republic</i>
6	SURFACE ENHANCED RAMAN SPECTROSCOPY IN BREAST CANCER CELLS	José Luis González¹, G. H. Luévano-Colmenero², J. Vargas-Mancilla² <i>¹Centro Universitario de los Lagos, Universidad de Guadalajara ²Instituto Mexicano del Seguro Social</i>

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7	940-nm LASER HAS INFLUENCE ON LIFESPAN OF GAMMA-IRRADIATED MICE	¹Yulia Efremova, ²Zuzana Šinkorová, ¹Leoš Navrátil <i>¹Czech Technical University in Prague, Faculty of Biomedical Engineering in Kladno, Czech Republic</i> <i>²University of Defence, Faculty of Military Health Sciences, Hradec Kralove, Czech Republic</i>
8	GaAIs LASER IN THE MANAGEMENT OF TEMPOROMANDIBULAR JOINT DISORDERS (TMD)	P. Hlinakova, T. Dostalova, K. Kroulikova, M. Buckova, L. Navratil <i>Charles University 2nd Medical Faculty, Department of Paediatric Stomatology, Prague, Czech Republic</i> <i>Charles University 1st Faculty of Medicine, Inst. of Biophysics and Informatics, Prague, Czech Republic</i>
9	ER:YAG AND CTH:YAG LASER RADIATION CONTACT VERSUS NON-CONTACT ENAMEL ABLATION	M. Kasparova, M. Buckova, T. Dostalova, H. Jelinkova, J. Sulc, M. Nemecek, P. Bradna, M. Miyagi <i>Charles Univ, 2nd Med. Faculty, Dept of Paediatric Stomatology, Prague; Czech Technical Univ. in Prague, Faculty of Nuclear Sciences and Physical Engineering, Prague; Charles Univ., 1st Med. Faculty, UKES, Prague, Czech Rep; Tohoku Inst. of Technology, Sendai, Japan</i>
10	MODIFICATION OF THE RADIOSENSITIVITY OF BIOLOGICAL OBJECTS WITH THE AID OF THE LASER RADIATION	K. Voskaryan¹, S.V. Vorozhtsova², A. N. Abrosimova², G.V. Mitsyn¹, V.N. Gaevsky¹ <i>¹Joint Institute for Nuclear Research, Laboratory of Nuclear Problems</i> <i>²Institute of medico-biological problems of the Russian Academy of Sciences, Moscow, Russia</i>
11	EFFECTIVENESS OF LASER PHOTOBIMODULATION OF IN GA AI P ON WOUND HEALING AND GaAIs LASER ON THE BLOOD SUGAR AMOUNT IN DIABETIC RATS	Hadi Morshedi, Ali Safari Variani-Nematola Ghemi-Amir Hosin Ziyae-Ladan Kivan Marz <i>Department of Public Health, Qazvin University Medical Science, Qazvin- IRAN</i>
12	EVALUATION OF SINGLE DIODE LASER THERAPY AND COMBINED APPLICATION OF DIODE LASERS IN THE TREATMENT OF DENTINE HYPERSENSITIVITY	Zohreh Tabibzadeh Noori¹, Reza Ekrazad², Mohammad M. Shadkar³, DDS, Zahra Khalili Sadrabad⁴ DDS <i>¹Ass. Professor, Periodontology Dept, Faculty of Dentistry, Shahid Beheshti Medical Sciences University</i> <i>²Laser Department, Faculty of Dentistry, Azad Islamic University</i> <i>³Faculty of Dentistry, Shahid Beheshti Medical Sciences University</i> <i>⁴Assistant, Pediatric Department, Faculty of Dentistry, Shahed University</i>

21:00 - Gala Dinner, Awards, Music show and Closure Ceremony

at Palazzo Pandolfini, Firenze, with

IALMS AWARDS for best lectures and posters

The Lions Club Firenze Stibbert

offered one grant to Dr. M. Kasparova et Al.

Awards were given to the lectures and posters

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colored in yellow.

Lecturer colored in green were absent.

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I. P.T.A. - The International Photo Therapy Association

I.L.M. - Institute Laser Medicine Florence

N.E.S.A. – New European Surgical Academy

UNDER THE HIGH PATRONAGE OF

The President of Italian Republic

Italian Health Office

Provincia of Firenze

Common of Firenze

Florence Medical Association

Florence Convention Bureau

Lions Club Firenze Stibbert

IALMS NEWSLETTER

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Report on the IALMS Assembly, Florence, Nov. 10th, 2012

Activity done in the year 2012 and programmed for the year 2013

1. Link with WALT conference in Australia, September 2012
2. Co-sponsor NESA Conference, Palma de Maiorca, 13-16 September, 2012
3. Co-sponsor 14th APALMS Congress, Taipei, 22-25 November, 2012
4. Link with ISLSM / WFSLMS Conference in Paris, June 2013
5. Co-sponsor IPTA Congress, Vilnius, September 2013
6. Laser Florence ? - See questionnaire

Points raised

Questions and Answers

Question: Since the participants to LASER Florence have remained the same in number as in the last years do you prefer the conference to be held each year or every two years ?

Answer: Out of twenty participants, 13 voted for the conference to be held every two years and 2 each year. It was decided to send a questionnaire to all IALMS members. The results will be shown as soon as they are available.

Master in LASER

Proposed 2 years plus 1 of specialization. We have no difficulty in organizing them but there are legal aspects, different in different states. Enquiries have been made for one state university to start with the first year of the course. Lithuania, Czech Republic and Poland proposed to host the course. The question is still open.

Further IALMS news

LASER FLORENCE Congress was honored by an offer made by an anonymous NOBEL PRIZE winner, member of the American Society Of Physics, AIP. The offer consisted of money for the publication of LASER FLORENCE 2011 SELECTED PROCEEDINGS. The offer has been gratefully accepted.

IALMS NEWSLETTER

December 2012

26th International Congress Laser Medicine & IALMS Courses
Jointed with Congress of the International Photo Therapy Association

Laser Florence 2012

.....*TRUST AND ORDER ON LASER MEDICINE WORLD*

FOR RESEARCHERS, PHYSICIANS, SURGEONS, BIOLOGISTS, PHYSICAL THERAPISTS, PHYSICS, ENGINEERS



FLORENCE, November 9th – 10th, 2012

Program Chairperson L. Longo, MD

Organizing And Scientific Committee

J. Anders, PhD; K. Atsumi, MD; A. Baruchin, PhD; G.D. Baxter, PhD; T. Dostalova, PhD;
C. Fornaini, DDS; S. Gonchukov, PhD; M. Herold, MD; H. Jelinkova, PhD; I. Kaplan, MD;
K. Khatri, MD; R. Lubart, PhD; G. Lynn-Powell, DDS; N. Mortellaro, MD; L. Navratil, PhD;
T. Ohshiro, MD; V. Oswal, PhD; *M.L. Pascu, PhD*; A. Pinheiro, DDS; M. Postiglione, MD;
K. Russe, MD; J. Vaitkus, PhD; A. Vaitkuvienė, PhD; W. Waidelich, PhD

IALMS - Borgo Pinti, 57 – 50121 Firenze
info@laserflorence.org

Scientific (Organizing) Secretariat:

TEL #39 0552342330

FAX #39 05539069632

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PROGRAM AT-A-GLANCE

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November 9th, 2012

- PLENARY LECTURES
- LASER BIOMODULATION 1 – SCIENTIFIC RESEARCH
- LASER BIOMODULATION 2 – CLINICAL PRACTICE
- TRENDS IN BASIC AND APPLIED RESEARCH IN LASER BIOMEDICINE
- TALK POSTER SESSION

19:15 Open Ceremony with Welcome Cocktail and leading lecture

November 10th, 2012

- LASER DENTISTRY
- LASER SURGERY
- LASER DIAGNOSIS
- LASER/LIGHT AND SKIN

20:30 Gala Dinner, Awards Assignment, Music show and Closure Ceremony

ORGANIZED BY

I.A.L.M.S. - The International Academy for Laser Medicine and Surgery

SPONSORED BY

I.S.L.S.M. - The International Society of Laser Surgery and Medicine

W.F.L.S.M.S. - The World Federation of Laser Surgery and Medicine Societies

I. P.T.A. - The International Photo Therapy Association

I.L.M. - Institute Laser Medicine Florence

HIGH PATRONAGE REQUESTED

The President of Italian Republic (requested)

Italian Health Office (requested)

Florence Medical Association

Common of Firenze

Tuscany Region (requested)

Provincia of Firenze (requested)

Firenze University

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Florence Convention Bureau

CONFERENCE SCIENTIFIC BOARD (incomplete)

- ° J.J. Anders, BiD, PhD (USA) - Anatom /Cell Biol. Dept, Uniformed Serv. Univ., Bethesda
- ° Y. Asagai, MD (Japan) – Director, Shinano Handicapped Children Hospital, Suwa
- ° K. Atsumi, MD, PhD (Japan) – Professor Emeritus, Tokyo University
- ° A. Baruchin, MD, PhD (ISR) – Plastic Surgery Dept, Ben-Gurion Univ. Beer-Sheba, Askelon
- ° G.D. Baxter, TD, BSc, DPhil, MCSP (GB) – Dean, Otago Univ.(NZ), Sch.Health Sciences
- ° A. Bovero, Sci.D.(I) – President, CIDESCO Italy, Rome
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- ° S.A. Gonchukov, PhD (Russia) - Moscow State Engineering Physics Institute, Moscow, Russia
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- ° H. Jelinkova, MD, PhD (Czech Rep) - Czech Technical Univ. -Nuclear Sciences Phys.Eng, Prague
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- ° K. Khatri, MD, (USA) – Skin & Laser Center, Boston
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- ° R. Lubart, BiD, PhD (ISR) – Biology Dept, Bar-Ilan University, Ramat-Gan
- ° L. Navratil, MD, PhD (Czech Rep) - Univ. South Bohemia, Faculty of Health and Social Studies, Ceske Budejovice
- ° T. Ohshiro, MD, PhD (Japan) – Director, Japan Laboratory of Laser Medicine and Surgery, Tokyo
- ° G. Oskarbski, MD (I) – Rome, Correspondant of Poland Society of Aesthetic Medicine
- ° B. Palmieri, MD (I) – Surgery Dept, Modena University
- ° A. Panti, MD (I) – President, Florence Medical Association, Firenze
- ° A. Pinheiro, DDS, PhD (Brazil) – Dentistry Dept., Bahia University
- ° M.L. Pascu, PhSc, PhD (Rom) – Institute Atomic Physics; Physics Faculty, Bucharest University
- ° M. Postiglione, MD (I) - Former Director, W.H.O., Firenze
- ° K. Russe-Wilflingseder, MD (A) – Laserzentrum, Innsbruck
- ° P. Smalley, TN (USA) – Tecology Concepts International, Chicago
- ° A. Vaitkuvienė, MD, PhD (Lithuania) – Division of Biomedical Technology. Institute Applied Research. Vilnius University
- ° J. Vaitkus, PhD (Lithuania) - President, Lithuanian Physical Society, Vilnius University

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NETWORKS GENERATED BY LASER FLORENCE CONFERENCES

1997: Pulse light for vascular lesions, advantages and limits. Endovascular laser therapy for various veins. Indication and contraindications for Laser resurfacing procedures.

1998: mechanism of action, ant inflammatory and anti-edema effects of Laser. Advantages and limits for laser in dentistry. Types of laser recommended for treatment of telangiectases and reticular veins.

1999: Prostatectomy laser. Non surgical endovenous laser modulating the immune system. Advantages and limits of Laser and IPL as hair removal techniques.

2000: PDD and PDT for the treatment of gastrointestinal and urological cancers. Laser therapy for wound healing and skin ulcers. , stretch marks, scars, keloids. Laser and IPL in skin rejuvenation.

2001: Laser treatment for diabetes type 1 and 2 (live demonstration on patients during the congress, probably, for the first time in the world). Advantages and limits of pulsed light in aesthetic medicine and surgery. What kind of laser should be in rheumatology and sport traumas? Role of European Community and World Health Organization in these issues.

2002: Laser Treatment of disk Hernias. Laser and light treatment for Psoriasis and Vitiligo.

2003: Laser therapy for nervous cells regeneration, in vitro and experimental. Complications of laser and light therapy and their treatment. Selection of affordable instrumentation. Advantages and limits of laser in ophthalmology. Position of FDA and other International Institution on non surgical laser.

2004: laser therapy of spinal cord injuries in clinical practice; first diabetic patients treated with laser in Italy, following Helsinki declaration rules; news on mechanisms of ant inflammatory and regenerative effects of lasers on the human tissues; prostatectomy laser in day surgery; advantages and limits of endoluminal laser surgery of varicose veins ; laser coupled with radio frequency scalpel for skin lesion treatment. Laser treatment of progenitor cells.

2005: Cesarean incision with laser. Photodiyalisis laser for chronic degenerative conditions. Follow-up of laser therapy for diabetes. Laser therapy of traumatic spinal cord injuries. Action mechanism of laser beam on nervous tissue.

2006: Photoplethysmography multi laser in vascular diseases. News substances for PDT of lung cancer. Ant inflammatory and regenerative mechanisms of laser treatment of experimental myocardial infarct. News on Laser therapy in sport traumatology Radio protective effects of non surgical laser.

2007: Laser in stem cells therapy: preclinical phase. Laser therapy for traumatic and degenerative spinal cord injuries with live patients presentation. Follow-up of laser therapy in diabetes type 1 e 2. Laser therapy for female infertility. Laser vascular and aesthetic surgery. State-of-the art on laser dentistry and PDD/PDT.

2008: Laser in brain traumatic injuries; Laser therapy for male infertility. Laser and energetic medicine; laser and nervous progenitor cells.

2009: Guidelines for the use of non surgical lasers. Laser Diagnosis. Laser therapy for infertility. Laser and stem cells

2010: Follow up of positive results on central nervous system traumatic injuries. Laser therapy for peripheral nerve reconstruction. Laser therapy for prevention of central nervous system post-traumatic damages. Laser diagnosis of early cancer of lung, uterus, breast, urinary bladder, prosthate. Laser and photodynamic therapy of prosthate cancer and lung cancer. Laser therapy of the menopause. Light for improving the follow-up of laser therapy of diabetes. Laser and stem cells for treatment of myocardial lesions.

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IALMS - RESERVATION FORM FOR MEMBERSHIP

Name: _____ Title: _____ Institution: _____

Address: _____ Postal Code _____ City _____ Country _____

Telephone _____ FAX _____ Email _____

Specialty _____ Type of Member _____

It is my intention to subscribe the membership of the IALMS for the year.....

Please indicate your choice(s) by ticking the appropriate box(es)

Type of membership	Eu
Founding: are members who have participated in the act of foundation or who will be admitted as such, up to 2000.	100
Honorary: are nominated by Executive Committee for very high scientific and cultural merits. They do not pay fees.	Nothing
Fellow: after five years of membership, or after <i>three</i> presentations at different Academy Congresses and/or Academy Journal. Fellowship is by application to the Executive Committee	100
Ordinary: all the other members. Members are expected to pay the admission fees prevailing at the time of admission.	200
Scientific Societies and Associations : these pay one USD for each of their member, and each Society with more than 10 members can have one representative in the Executive Committee upon application.	1 for member
Manufacturers: they can have a member in the Executive Committee; They can use the logo of the Academy subject to the approval of the Executive Committee.	500
Student: , based upon presentation of the curriculum vitae	100

I send with this form the total amount of the relevant fees (Please refer to the table up)

Payment may be made (In Euro Dollars) as follows:

- *By certified bank cheque or draught or international money order, in favour of the IALMS*
- *By direct bank transfer in favour of the IALMS (see details below)*
- *By credit card (fill in details below)*

With the cheque No: _____ of the Bank: _____

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Or: I have made a bank transfer on (date): _____ From (Name of your bank) _____

(An official copy of the bank transfer should be enclosed with your reservation form)

Monte dei Paschi di Siena, Agenzia Firenze - account IALMS 200414

IBAN - IT 77 Q 01030 02804 000000200414 BIC - PASCITM1F20

Make bank transfers payable to IALMS - Borgo Pinti, 57 I - 50121 Firenze FAX 0039 05539069632 - ialms@laserflorence.org -

Or: I wish to pay by Type of credit card : (MASTERCARD,VISA; AMEX NOT ACCEPTED):

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