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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, epicondilitis, 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 onicomicosis.

5. New technologies of LASER guided microsurgery guided by GPS system for the treatment of cervical, dorsal and lumbar hernias without scalpel tissue incision and in day-hospital.
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**

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers, Institutions</th>
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<tbody>
<tr>
<td>09:00</td>
<td>IN MEMORY OF ISAAC KAPLAN</td>
<td>A. Baruchin, MD, PhD, Askelon University, Israel</td>
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<tr>
<td>09:30</td>
<td>DEVELOPMENTS IN PHOTOBiomodulation for BACTERIAL ERADICATION</td>
<td>Chukuka S. Enwemeka, PhD, FACSM, Professor and Dean, College of Health Sciences, University of Wisconsin—Milwaukee, USA</td>
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<tr>
<td>10:00</td>
<td>THE EVOLUTION’S POWER LASER THERAPY IN THE TREATMENT OF SPORTS INJURIES</td>
<td>P.F. Parra, University of Pisa, Visiting Professor in Physical Science, Montecantini Terme, Italy</td>
</tr>
<tr>
<td>10:30</td>
<td>THE BENEFITS OF HIGH PERFORMANCE LASER BEAMS IN THE TREATMENT OF MUSCULOSKELETAL ISSUES</td>
<td>V. Navratil, ¹Hajkova S., ²Koci P., ³Vranova J., ¹⁴Navratil L, ¹Efremova Y.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>¹Czech Technical Univ.in Prague, Faculty of Biomedical Engineering in Kladno, Czech Rep.</td>
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<td></td>
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<td>²Physiotherapy Clinic Rehamedica, Zacler, Czech Republic</td>
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<td>³THERAP-TILIA Prague, Clinical Dept Faculty of Biomedical Eng. in Kladno, Czech Rep.</td>
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<td>⁴Charles University in Prague, Third Faculty of Medicine, Czech Republic</td>
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<tr>
<td>11:00</td>
<td>MECHANISMS OF PHOTOBiOMODULATION FOR TISSUE REPAIR, PAIN CONTROL AND BACTERIAL ERADICATION</td>
<td>Chukuka S. Enwemeka, PT, PhD, FACSM, University Distinguished Professor and Dean, College of Health Sciences, University of Wisconsin—Milwaukee, USA</td>
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11:30 - COFFEE-BREAK

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

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<th>Time</th>
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<tr>
<td>11.45</td>
<td>STEM CELLS IN REGENERATIVE MEDICINE: PRECLINICAL AND CLINICAL STUDIES</td>
<td>Eva Sykova, Institute of Experimental Medicine, Academy of Sciences of the Czech Republic, Videnska 1083, 14220 Prague 4, Czech Republic</td>
</tr>
<tr>
<td>12.15</td>
<td>LIGHT SUPPORTS DIFFERENTIATION OF ADIPOCYTES FROM HUMAN MESENCHYMAL STEM CELLS</td>
<td>Xingjia Wu¹, Leonardo Longo², Juanita J. Anders³</td>
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<td>¹Uniformed Services University of the Health Sciences, Bethesda, USA</td>
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<td>²Institute Laser Medicine, Florence, Italy</td>
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<tr>
<td>12.45</td>
<td>LASER METHODS USED TO FIGHT MULTIPLE DRUG RESISTANCE TO TREATMENT</td>
<td>M.L. Pascu¹,²; A. Militaru¹,², M. Boni¹,², T. Alexandru¹,², V. Nastasa¹,², I. R. Andrei¹</td>
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<tr>
<td></td>
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<td>¹²National Inst. for Laser, Plasma and Radiation Phys, Laser Dept, Magurele, Romania² Physics Faculty, University of Bucharest, Romania</td>
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<td>Time</td>
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<td>13:15</td>
<td>PHOTO-ELECTROMAGNETIC FIELD TREATMENT OF DIABETES</td>
<td>Pretidev Ramdawon, MD, PhD, DSc</td>
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<tr>
<td>13:45</td>
<td>LASER THERAPY OF SPINAL CORD INJURIES : 9 YEARS OF PERSONAL EXPERIENCES</td>
<td>L. Longo, MD</td>
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<td>14:00</td>
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### December 2012

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 15:00 | **PHOTODIAGNOSIS BY AUTOFLUORESCENCE AND VIBRATIONAL SPECTROSCOPY**      | J.Vaitkus, A.Vaitkuviene, V.Gėgžna, D.Varanius, V.Aleksa, J.Pozela  
1. Institute of Applied Research, Vilnius University  
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** | Matt Barton, David Mahns, John Morley, Damia Mawad, Marcus Stoodley, Antonio 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. Vaitkuviene, V.Gegzna, J.Vaitkus, J.Rimiente  
P.Sladkevicius  
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 TRICHOPTHYON RUBRUM**            | Leah Cronin, Colin Stack, 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** | Olga Baum, Emil Sobol, Andrey Bolchunov  
1. Institute on Laser and Information Technologies RAS  
2. Research Institute of Eye Diseases, RAMS  
Moscow (Troitsk)142190 - Russia |
| 16:30 | **COFFEE-BREAK**                                                         |                                                                                                       |
| 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 Paparozzi, 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  
Carlo Paparozzi, 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 Claiici, D.Tigaran, O. Bedreg, M. Georgiades  
Center for Urology and Laser Timisoara, University of Medicine and Pharmacy Timisoara, Romania |

Room A
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.
1 Center of Biophotonics of the School of Dentistry of the Federal University of Bahia, Faculty of dentistry
2 Federal Univ. of Santa Catarina, Florianópolis, Santa Catarina, Brazil
3 Dept of Periodontology, Univ. of Tennessee, School of Dentistry

9:15 LASER IN DENTISTRY – OVERVIEW T. Dostalova1, H. Jelinkova2
1 Charles Uni., 2nd Medical Faculty and Faculty Hosp. Motol, Prague 5
2 Czech Technical Univ. in Prague, Faculty of Nuclear Sci. and Physical

9:30 Er:YAG LASER AND FRACTURED INCISORS RESTORATION Fornaini C, Petruzzella S, Podda R, Merigo E and Vescovi P
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)

9:45 CLINICAL EVIDENCE BASE STATISTIC EVIDENCE OF LLLT CAUSE BONE GROWTH AND CAL DEDUCTION D.R. Vieru-York1,2, Norman Kauffman3, James Soberman3, Peybecov Iskander2, Anca Dumitriu1, Mark Wolff3
1 Carol Davila University, Bucharest, Romania
2 Tashkent Technical Univ., Cariology Dept
3 New York University Dental School, USA

10:00 QUALITATIVE EVALUATION OF DIFFERENT LASER SURFACE TREATED HIGH STRENGTH CAD/CAM CERAMICS USED IN PROSTHETIC DENTISTRY Seiff B*, Brulat-Bouchard N., Medioni E., Darque-Ceretti E. Rocca JP
1 Laboratory of Oral Health and Aging-University of Nice Sophia Antipolis, Nice, France
2 Centre d’évaluation des matériaux, école des Mines, Paris

10:15 IMMUNOHISTOCHEMICAL ANALYSIS OF THE LLLT WITH ND:YAG LASER EFFECTS IN DENTAL EXTRACTIONS IN RATS UNDER ZOLEDRONIC ACID AND DEXAMETHASONE ADMINISTRATION Merigo E1*, Fornaini C1, Corradi D2, Maestri R2, Meleti M1, Nammour S3, Vescovi P1
1 Master Europeo “Laser in Odontostomatologia” – European Master Degree in Oral Laser Applications EMDOLA – (Direttore: Prof. Paolo Vescovi) - Università di Parma - Parma, Italy
2 Dipartimento di Patologia e Medicina di Laboratorio – Sezione di Anatomia patologica - Università di Parma, Parma, Italy

10:30 COFFEE BREAK


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
Europ. Master Degree in Oral Laser Applications, Univ of Nice - France

11:00 Nd-YAP AND DENTINAL HYPERSENSITIVITY: A SEM AND EDS MICROANALYSIS Rocca JP, Hasan Rezao, Médioni E.
Lab. Santé Buccale et Veiliissement.
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.
Oral Medicine and Laser-Assisted Surgery Unit, Faculty of Medicine, University of Parma (Italy)

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
Europ. Master Degree in Oral Laser Applications, Nice Univ. (France)

12:00 CHILDREN BEHAVIOR’S EVALUATION DURING ER-YAG LASER-ASSISTED Zhegova Galia1, Rashkova Maya2
1 Assistant professor; Medical University of Sofia, Faculty of Dental
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<tr>
<td>12:45</td>
<td>USE OF 1064 NM DIODE PUMPED LASER TO ABLATE DENTAL SURFACES: PRELIMINARY “IN VITRO” STUDY</td>
<td>Sozzi M, Fornaini C, Cucinotta A, Merigo E, Vescovi P &amp; Selleri S Oral medicine and Laser-assisted surgery Unit, Dental School, University of Parma (I); Group of Applied ElectroMagnetics, Information Engineering Department, University of Parma (I)</td>
</tr>
<tr>
<td>13:00</td>
<td>STAGE I SQUAMOUS-CELLS CARCINOMA: LASER-ASSISTED SURGICAL TREATMENT</td>
<td>Meleti M,*, Merigo E, Fornaini C, Vescovi P EMDOLA (European Master Degree of Oral Laser Applications) - Università degli Studi di Parma</td>
</tr>
<tr>
<td>13:15</td>
<td>OZONE VS PDT IN 40 PATIENTS WITH PERIODONTITIS</td>
<td>Dulce Ma.Olvera Mazariegos,Héctor Martínez Arizpe; Arcelia Meléndez Ocampo Instituto de Tecnología Avanzada, Mastership in laser dentistry, University Autonómus of Mexico, Mexico DF</td>
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### 13:30 – LUNCH

**LASER THERAPY OF DISCAL HERNIAS - WORKSHOP**

**Room B - November 10th, 2012**

**Chairmen: J. Chiu, M. Postiglione**

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<th>Time</th>
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<tr>
<td>10:45</td>
<td>EVOLVING GRID POSITIONING SYSTEM GUIDANCE FOR LASER LUMBAR DISCECTOMY SURGERY IN THE MORBID OBESITY</td>
<td>J. Chiu, MD California Spine Institute, Laser Neurospine Surgery Thousand Oaks - USA</td>
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<tr>
<td>11:00</td>
<td>A SURGEON’S HOLISTIC PERSPECTIVE ON TECHNOLOGICAL CONVERGENCE AND DIGITAL OR CONTROL SYSTEM – FOR LASER MINIMALLY INVASIVE SPINE SURGERY (MISS)</td>
<td>J. Chiu, MD, PhD California Spine Institute, Laser Neurospine Surgery, Thousand Oaks, USA</td>
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<tr>
<td>11:15</td>
<td>INNOVATIVE LASER THORACIC ENDOSCOPIC MICRODISCECTOMY WITH GPS SYSTEM.</td>
<td>J. Chiu, MD California Spine Institute, Laser Neurospine Surgery Thousand Oaks - USA</td>
</tr>
<tr>
<td>11:30</td>
<td>EVOLVING LASER ENDOSCOPIC ANTERIOR CERVICAL DISCECTOMY/FORAMINOPLASTY</td>
<td>J. Chiu, MD, PhD California Spine Institute, Laser Neurospine Surgery, Thousand Oaks, USA</td>
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WITH INTRAOPERATIVE NEUROPHYSIOLOGICAL MONITORING (IOM)  
Oaks, USA

11:45 LESS TRAUMATIC SURGICAL LASER THERMONEURECTOMY TREATMENT FOR SACROILIAC JOINT PAIN SYNDROME  
J. Chiu, MD  
California Spine Institute, Laser Neurospine Surgery – Thousand Oaks - USA

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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  
150 Edna Street, Kitchener, ON, N2H 6S1 - CANADA

15:15 A NOVEL VAGINAL REJUVENATION PROCEDURE USING A RADIOFREQUENCY DEVICE  
K. Khatri, A. Morrison  
Skin & Laser Surgery Center of New England, Boston, USA  
New England Institute of Laser Research, Boston, USA  
BTL Industries, Framingham, MA, USA

15:30 NEW THERAPIES FOR SKIN DISEASE TREATMENT. UVA1 LASER: THE GENERATION AFTER EXCIMER  
B. Palmieri, MD, PhD  
Dept of Surgery and Surgical Specialties, University of Modena and Reggio Emilia. Medical School, Surgical Clinic, Modena, Italy

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.  
New England Institute of Laser Research  
Skin & Laser Surgery Center of New England - Boston, USA

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.  
1Charles Univ. in Prague, Faculty of Pharmacy in Hradec Kralove, C  
2Czech Tech. Univ. in Prague, Faculty of Biomed. Eng. in Kladno, Czech Republic

16:15 UP TO DATE AFTER TEN YEARS ENDOVENOUS LASER THERAPY (EVLT) 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  
Department of Vascular and Endovascular Surgery, University of L’Aquila, Italy

Chairmen:  
B. Palmieri, A. Ignaciuk, C. Spartera

16:30 - COFFEE-BREAK

16:45 308 NM EXCIMER LASER: TARGETED PHOTOTHERAPY FOR PSORIASIS AT DIFFICULT TO TREAT SITES  
Nawaf Almutairi, MD  
Kuwait university Dermatology  
P.O.Box 280  Farwaniya 80000 - Kuwait

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  
Skin & Laser Surgery Center of New England, Boston, USA  
New England Institute of Laser Research, Boston, USA

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  
New European Surgical Academy, Berlin
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<td>LASER THERAPY OF SCARS</td>
<td>L. Longo, MD Institute Laser Medicine, Firenze - Italy</td>
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<td>18:00</td>
<td>LASER SAFETY: THEORY INTO PRACTICE</td>
<td>Smalley, Penny J, RN, CMLSO, MACORN Chicago, Illinois, USA</td>
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<td>18:15</td>
<td>IALMS GENERAL ASSEMBLY and CONCLUSION</td>
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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 PLANNING 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  
   European Master Degree in Oral Laser Applications, University of Nice (France)

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  
   European Master Degree in Oral Laser Applications, Univ. of Nice - France

3. THE IMPACT OF CELL CULTURE EQUIPMENT ON ENERGY LOSS  
   Davies Li B, Kiernan M N, Bishop JC, Thornton CA, Morgan G  
   Instit. of Life Science, Swansea University, Swansea, Wales U.K

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  
   Shinagawa Lasik and Aesthetic Center Philippines  
   #21 Athens St. Phase 3 Vista Verde Executive Village Cainta Rizal

5. INFANTILE HEMANGIOMA - PULSE DYE LASER VERSUS SURGICAL THERAPY  
   E. Remlova¹, I. Machalusova², T. Dostalova², H. Jelinkova³, M. Hubacek⁴, J. Vranova³, J. Rosina³, L. Navratil⁶  
   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

6. SURFACE ENHANCED RAMAN SPECTROSCOPY IN BREAST CANCER CELLS  
   José Luis González², G. H. Luévano-Colmenero², J. Vargas-Mancilla²  
   ¹Centro Universitario de los Lagos, Universidad de Guadalajara  
   ²Instituto Mexicano del Seguro Social
| 7 | 940-nm LASER HAS INFLUENCE ON LIFESPAN OF GAMMA-IRRADIATED MICE | 1Yulia Efremova, 2Zuzana Sinkorová, 4Leoš Navrátil  
1Czech Technical University in Prague, Faculty of Biomedical Engineering in Kladno, Czech Republic  
2University of Defence, Faculty of Military Health Sciences, Hradec Kralove, Czech Republic |
|---|---|---|
| 8 | GaAlAs LASER IN THE MANAGEMENT OF TEMPOROMANDIBULAR JOINT DISORDERS (TMD) | P. Hlinakova, T. Dostalova, K. Kroulikova, M. Buckova, L. Navratil  
Charles University 2nd Medical Faculty, Department of Paediatric Stomatology, Prague, Czech Republic  
Charles University 1st Faculty of Medicine, Inst. of Biophysics and Informatics, Prague, Czech Republic |
| 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. Nemec,  
P. Bradna, M. Miyagi  
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 |
| 10 | MODIFICATION OF THE RADIOSENSITIVITY OF BIOLOGICAL OBJECTS WITH THE AID OF THE LASER RADIATION | K. Voskaryan1, S.V. Vorozhtsova 2, A. N. Abrosimova 2, G.V. Mitsyn 1, V.N. Gaevsky 1  
1Joint Institute for Nuclear Research, Laboratory of Nuclear Problems  
2Institute of medicobiological problems of the Russian Academy of Sciences, Moscow, Russia |
| 11 | EFFECTIVENESS OF LASER PHOTOBiomODULATION OF IN Ga Al P ON WOUND HEALING AND GaAlAs LASER ON THE BLOOD SUGAR AMOUNT IN DIABETIC RATS | Hadi Morsheidi, Ali Safari Variani-Nematola Ghemi-Amir Hosin Ziyaee-Ladan Kivan Marz  
Department of Public Health, Qazvin University Medical Science, Qazvin-IRAN |
| 12 | EVALUATION OF SINGLE DIODE LASER THERAPY AND COMBINED APPLICATION OF DIODE LASERS IN THE TREATMENT OF DENTINE HYPERSENSITIVITY | Zohreh Tabibzadeh Noori2, Reza Ekrazad2, Mohammad M. Shadkar3, DDS,  
Zahra Khalili Sadrabad2, DDS  
1Ass. Professor, Periodontology Dept, Faculty of Dentistry, Shahid Beheshti Medical Sciences University  
2Laser Department, Faculty of Dentistry, Azad Islamic University  
3Faculty of Dentistry, Shahid Beheshti Medical Sciences University  
4Assistant, Pediatric Department, Faculty of Dentistry, Shahed University |

**IALMS NEWSLETTER**  
**December 2012**

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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
colored in yellow.

Lecturer colored in green were absent.
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December 2012

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

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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
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
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
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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. Vaitkuviene, PhD; W. Waidelich, PhD

IALMS - Borgo Pinti, 57 – 50121 Firenze
info@laserflorence.org
Scientific (Organizing) Secretariat:
TEL #39 0552342330
FAX #39 05539069632
http://www.laserflorence.org

PROGRAM AT-A-GLANCE
IALMS NEWSLETTER
December 2012

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 Assignation, Music show and Closure Ceremony

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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
IALMS NEWSLETTER

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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, Ashkelon
° G.D. Baxter, TD, BSc, DPhil, MCSP (GB) – Dean, Otago Univ.(NZ), Sch. Health Sciences
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° B. Palmieri, MD, (I) – Surgery Dept, Modena University
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° 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, Innsbuck
° P. Smalley, TN (USA) – Tecnology Concepts International, Chicago
° A. Vaitkuniene, MD, PhD (Lithuania) – Division of Biomedical Technology. Institute Applied Research. Vilnius University
° J. Vaitkus, PhD (Lithuania) - President, Lithuanian Physical Society, Vilnius University
NETWORKS GENERATED BY LASER FLORENCE CONFERENCES


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.


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 anti 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.


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


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IALMS - RESERVATION FORM FOR MEMBERSHIP

Name:__________________________________________Title:________Institution:____________________________

Address:_____________________________ PostalCode_________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)

<table>
<thead>
<tr>
<th>Type of membership</th>
<th>£</th>
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<tr>
<td>Founding:</td>
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<tr>
<td>Honorary:</td>
<td>Nothing</td>
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<td>Fellow:</td>
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<td>Ordinary:</td>
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<td>Scientific Societies and Associations:</td>
<td>1 for member</td>
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<tr>
<td>Manufacturers:</td>
<td>500</td>
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<tr>
<td>Student:</td>
<td>100</td>
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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
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Or the copy of the cheque No: _____________________________ of the Bank: _____________________________
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(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 00000200414  BIC - PASCITM1F20
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Or: I wish to pay by Type of credit card: (MASTERCARD,VISA; AMEX NOT ACCEPTED):

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