

# IALMS – Newsletter

## December 2009

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### **Report on the IALMS AND IPTA ASSEMBLIES, Florence, Nov. 7<sup>th</sup>, 2009**

Following topics were treated:

1- International Contacts: the Baltic Association Laser Medicine and Surgery organized Courses and International Congress in Vilnius University in September 2009, under the umbrella of the IALMS. A IALMS museum was organized in Vilnius University, with ten years of scientific production obtained by the Academy in conjunction with the BALMS. Further agreement were made with the Czech Society of Purkinje, with the participation at the International Congress of European Society of Radiology, in Prague, August 2009; and with the ISLSM and WFLSMS, in Tokyo Congress, December 2009.

The cooperation with the AIP, ISLSM, the WFLSMS, the WFLD, the SILO and the other Societies and Scientific Associations continues very well.

2- Guidelines on the use of non surgical lasers were proposed, and Prof. David Baxter , the Dean of Otago University – New Zealand ([physio.dean@otago.ac.nz](mailto:physio.dean@otago.ac.nz)) is going to coordinate the publication of those. Consensus conferences will be summarized with an epidemiologic approach at this sector. Following an old guideline of the W.H.O., Prof. Postiglione proposed the re-visitation and updating of an old book published under the umbrella of the W.H.O., titled “Lasers in Medicine: effectiveness, cost/effectiveness and policy implication”. Our Academy could publish a similar book within the next months



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3- Proposal for updating evaluation effects of lasers in specialized disciplines: referees [mihai.pascu@inflpr.ro](mailto:mihai.pascu@inflpr.ro) , [juozas.vaitkus@ff.vu.lt](mailto:juozas.vaitkus@ff.vu.lt)

4- The IPTA will continue the studies on non surgical effects of light and laser on human tissues, jointed with the IALMS and the WFSLMS. The next IPTA Congress will be held in the year 2011 to Cairo – Egypt, organized by Prof. Sherif Arwad.

4- Fees: the fees remain the same of the last year, and the fee includes also one year of subscription to our peer journal “Laser in Medical Science”, Springer London Publisher. Unfortunately some members of the IALMS didn’t receive six issues of this journal, for some problems caused by the re-organization of Springer. Please advise the IALMS secretary, if you didn’t receive the journal.

## **REPORT ON**

# *LASER FLORENCE 2009*

## *A Gallery on the Laser Medicine World*

**Medicine and Surgery, Biology, Veterinary Surgery, Physics, Engineering**

**FLORENCE, November 6<sup>th</sup> – 7<sup>th</sup>, 2009**

Laser Florence 2009, the annual Congress of the International Academy Laser Medicine and Surgery, jointed with the biannual congress of the International Photo Therapy Association, given very interesting results.

29 different countries were represented, three plenary lectures and a lot of new data obtained by very good scientists were the concrete contribution at clinical practice.

The final program draft give an idea on the different topic treated.

A special session was dedicated to Energetic Medicine and the role of laser beams and light in this topic. In fact, in the world there is a bit of confusion between data obtained from evidence based medicine and scientific data controlled experimentally.

Guidelines on the use of non surgical lasers were proposed, and Prof. David Baxter will coordinate the publication of that. Consensus conferences will be summarized with an epidemiologic approach at this sector.

The Proceedings of the Conference will be published immediately after the event, on paper and on line, by the American Institute of Physics. The IALMS members can look up the slides of the Conference in the member area at the web site [www.ialms.com](http://www.ialms.com).



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Summarizing, Laser Florence 2009 proposed new guidelines for the use of non surgical lasers, and the state-of-art on Laser therapy for infertility. Laser Diagnosis. Laser and stem cells.

## Awards were assigned to:

NOVEL MULTIFUNCTIONAL ACYLOXYALKYL ESTER PRODRUGS OF 5-AMINOLEVULINIC ACID DISPLAY IMPROVED ANTICANCER ACTIVITY DEPENDENT ON PHOTOACTIVATION	<b>Gili Berkovitch<sup>1</sup> A. Nudelman<sup>2</sup> , B. Ehenberg<sup>2</sup> , A. Rephaeli<sup>2</sup> and Z. Malik<sup>2</sup></b> <i><sup>1</sup>Bar Ilan University, Petah-Tikva, Israel</i> <i><sup>2</sup>Sackler Faculty of Medicine, Tel-Aviv University.</i>
SAPPHIRE DIAGNOSTIC SCALPEL	<b>Irina Shikunova, V.V.Kurlov, *A.V.Rybova, *V.B.Loschenov</b> <i>Institute of Solid State Physics of the Russian Academy of Sciences (ISSP RAS) - Chernogolovka, Russia</i> <i>*Prokhorov General Physics Institute of the Russian Academy of Sciences (GPI RAS)</i>
METAL-FREE PHTALOCYANINE (PtS) AND 5-AMINOLEVULINIC ACID (ALA) IN PHOTODYNAMIC TREATMENT OF HUMAN VASCULAR CELLS	<b>Olga Udartseva, Elena Andreeva, Ludmila Buravkova, Eduard Tararak*</b> <i>Institute of Biomedical Problems RAS (IMBP RAS)</i> <i>Khoroshevskoe shosse, 76A Moscow 123007 - Russia</i> <i>*- Cardiocenter, Moscow, Russia</i>
CLINICAL APPLICATIONS OF DIODE LASER IN IMMEDIATE IMPLANT PLACEMENT	<b>S.Brogli, * L. Iacovazzi*, E. Vigliaroli*, U. Romeo°, C. Maggiore*</b> <i>*Dip. di Scienze Chirurgiche, Univ. di L'Aquila, Italy</i> <i>°Dip.di Scienze Odontostomatologiche, Univ. Sapienza di Roma.</i>
REALIGNMENT AND COLLAGEN ALTERATIONS WITH LOW LEVEL LASER THERAPY COMBINED WITH LOW INTENSITY ULTRASOUND IN CALCANEUS TENDON REPAIR	<b>Viviane Timm Wood, MAI Neves, NA Parizoto<sup>2</sup>, CE Pinfildi, B Hochman, LM Ferreira</b> <i>Federal University of Sao Paulo (UNIFESP) Napoleão de Barros, São Paulo</i> <i>Federal University of São Carlos (UFSCar)<sup>2</sup>, São Paulo, Brazil</i>
USE OF ND:YAG LASER BIOSTIMULATION FOR DENTAL EXTRACTIONS: SCHEME IN PATIENTS UNDER BISPHOSPHONATES THERAPY.	<b>R. Guidotti, E. Merigo, M. Meleti, M. Manfredi, A. Ripasarti, C. Fornaini, P. Vescovi</b> <i>Dept. of Otolaryngological/Dental/Ophthalmological and Cervico-Facial Sciences;Unit of Oral Pathology and Laser-assisted Oral Surgery, University of Parma, Parma Italy</i>

The final program is reported below

## PLENARY LECTURES



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## THE COMBINATION OF LIGHT AND STEM CELL THERAPIES: A NOVEL APPROACH IN REGENERATIVE MEDICINE

**Juanita Anders<sup>1</sup>, Helina Moges<sup>1</sup>, Xingjia Wu<sup>1</sup>, Ilko Ilev<sup>2</sup>, Ronald Waynant<sup>2</sup>, and Leonardo Longo<sup>3</sup>**

<sup>1</sup>Dept of Anatomy, Physiology and Genetics, Uniformed Services University of the Health Sciences, Bethesda, MD 20814 USA

<sup>2</sup>Center for Devices and Radiological Health, U.S. Food and Drug Admin., Silver Spring, MD 20993 USA

<sup>3</sup>Institute of Laser Medicine, University of Siena, Siena 53100, Italy and University of San Marino 47890, San Marino Republic

## INTRACAVITY LASER REFRACTOMETRY AND ITS APPLICATION IN BIOLOGY AND MEDICINE

**S.A. Gonchukov, PhD**

Moscow State Engineering Physics Institute, Moscow, Russia

## PHOTOENGINEERING OF TISSUE REPAIR PROCESSES IN COLLAGENOUS TISSUES

**Chukuka S. Enwemeka, PhD, FACSM**

Professor and Dean, College of Health Sciences' University of Wisconsin, Milwaukee, WI, USA

### LASER SKIN MEDICINE AND SURGERY - 1

#### Chairmen:

**I. Kaplan, PhD (ISR)** – Professor Emeritus, Tel Aviv University, Israel

**K. Khatri, MD, (USA)** – Skin & Laser Center, Boston

**T. Ohshiro, MD, PhD (J)** – Ohshiro Clinic, Tokyo University

ACOUSTIC WAVE TREATMENT FOR CELLULITE - A NEW APPROACH	<b>Elisabeth Russe, Katharina Russe-Wilflingseder</b> <i>Laserzentrum Innsbruck, Austria</i>
LASER-BODY-SCULPTING: A NEW TECHNOLOGY	<b>Elisabeth Russe, Katharina Russe-Wilflingseder</b> <i>Laserzentrum Innsbruck, Austria</i>
LASER ASSISTED STEM CELL THERAPY. RESULTS IN DERMATOLOGY AND PLASTIC SURGERY	<b>N.Tankovich<sup>0</sup>, C. Littler<sup>1</sup>, E. Shvetsova<sup>2</sup>, E. Gandolfi<sup>3</sup>, L. Kharazi<sup>2</sup>, A. Lukashev<sup>2</sup></b> <sup>0</sup> STEMEDICA Cell Technologies, Inc., San Diego CA - USA <sup>1</sup> Sharp Rees-Stealy Dermatology, <sup>2</sup> Dermatology and Plastic Surgery Clinic of Russian Academy of Sciences, <sup>3</sup> San Giuseppe Polispecialistico Clinic, Como, Italy
ASSESSMENT OF SUSPECTED SKIN LESION DEPTH BY MULTISPECTRAL DIGITAL DERMATOSCOPY: IN-VIVO TESTS.	<b>L. Scalise<sup>1</sup>, R.Munaretto<sup>1</sup>, S.Serresi<sup>2</sup>, E.P. Tomasini<sup>1</sup></b> <sup>1</sup> Department of Mechanics, Polytechnic University of Marche, Via Brece Bianche, Ancona, Italy. <sup>2</sup> Dept. of Dermatology, INRCA, Ancona, Italy
INTERROGATION OF SKIN PATHOLOGIES USING ELASTIC SCATTERING SPECTROSCOPY	<b>Waseem Jerjes*, Tahwinder Upile, Hani Rhadi, Yan Jiao, Charles Alexander Mosse, Martin Austwick, Christian S Betz, Stephen Bown, Colin Hopper</b> <i>*UCLH Head and Neck Centre 1<sup>st</sup> Floor East Wing 250 Euston Road London; Department of Surgery, UCL, London, UK</i>
RESURFACING UPDATE	<b>K. Khatri, MD</b> <i>Skin and Laser Surg.Center of New England, Nashua USA</i>
NONABLATIVE FRACTIONAL	<b>P.L. Bencini, MD*, M. G. Galimberti, MD</b>



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PHOTOTHERMOLYSIS FOR ACNE SCARS: EXTENDED EXPERIENCE WITH 87 PATIENTS	<i>*Hi-tech Dermatology: Italian high tech network in dermatological Sciences</i> <i>*I.C.L.I.D. (Istituto di Chirurgia e Laserchirurgia In Dermatologia) Milano, Italy</i>
SKIN TIGHTENING WITH AN INFRARED, NONCOHERENT LIGHT-EMITTING DEVICE: A REPORT OF 102 CASES	<b>Marco Fumagalli<sup>1</sup>, C.Bona<sup>2</sup>, G.Migliori<sup>2</sup>, F.Lauro<sup>2</sup></b> <i><sup>1</sup>Centro di Dermatologia Integrata e Medicina Preventiva, Milano, Italy; <sup>2</sup>Casa di Cura Madre Fortunata Toniolo, Bologna</i>
COMPARISON OF 10600nm VERSUS 1550nm FRACTIONAL LASER RESURFACING FOR THE TREATMENT OF ASIAN PATIENTS	<b>Takahiro Fujimoto</b> <i>Clinic F 6-6-1-4F Kojimachi Chiyoda Tokyo 102-0083 Japan</i>
HISTORY OF CO2 LASER APPLICATIONS	<b>I. Kaplan,MD, PhD</b> Professor Emeritus, Tel Aviv University
EFFECTIVENESS OF SMOOTHSHAPES™ CELLULITE TREATMENT	<b>Khalil A. Khatri,<sup>1</sup> Mary Lisa Stoll,<sup>2</sup> Andrea Morrison,<sup>2</sup> and Michail M. Pankratov<sup>2</sup></b> <i><sup>1</sup>Skin and Laser Surg. Center of New England, Nashua NH <sup>2</sup>Elemè Medical, Inc., Merrimack, NH - USA</i>
BODY CONTOURING: OVERVIEW OF PERSONAL RESULTS WITH DIFFERENT TECHNIQUES	<b>L. Mazzi,MD</b> Verona, Italy
DERMATOGRAPHY AS A TREATMENT AFTER COMPLICATIONS OF COSMETIC CUTANEOUS CO <sub>2</sub> - LASER RESURFACING [ 15 year Review ]	<b>E.M. van der Velden<sup>1,2</sup>, J.Suyker-Hessels<sup>3</sup>, B.Drost<sup>4</sup> J.Defrancq<sup>2</sup>, O.E.Ijselmuiden<sup>5</sup>, R.J. van Suylen<sup>6</sup> A.M. Baruchin<sup>1</sup>.</b> <i><sup>1</sup>Department Plastic and Reconstructive Surgery, The Barzilai Medical Centre, Ashkelon and The Faculty of Health Sci., Ben-Gurion University of The Negev, Beer-Sheba, Israel. <sup>2</sup>Dept of Cranio-Oral-maxillo-facial Surg, AZ.Monica, Antwerp. Belgium. <sup>3</sup>Clinic for Med and Aesthetical Dermatology. Arnhem,NL <sup>4</sup>Department of Plastic Surgery.Antoni van Leeuwenhoek Hospital, Amsterdam.The Netherlands <sup>5</sup>Dept of Dermato-Venereology,Cambridge Univ, UK <sup>6</sup>Dept of Pathology Academic Hospital Maastricht,NL</i>

## LASER ONCOLOGY

<b>Chairmen:</b> <b>D. Kolt, MD (USA)</b> - Managing Director, Rejuvalight LED Technology, Tucson <b>K. A. Samoilova, BiSc, PhD (Russia)</b> – Inst. of Cytology, Russian Acad.of Sciences, St. Petersburg, Russia <b>D. Siposan, MD (Rumania)</b> - Military Technical Academy, Bucharest	
EFFECTIVENESS OF LOW POWER VISIBLE AND NEAR IR LIGHT IN ONCOLOGY: REVIEW OF PRECLINICAL AND CLINICAL DATA	<b>A.A Zimin, N.A Zhevago, K.A. Samoilova</b> <i>Institute of Cytology, Russian Academy of Sciences, St. Petersburg, Russia</i>
POSTOPERATIVE IMMUNOREHABILITATION OF BREAST CANCER PATIENTS WITH LOW POWER POLYCHROMATIC (VISIBLE + IR) RADIATION	<b>A.A Zimin, N.A Zhevago, K.A. Samoilova</b> <i>Institute of Cytology, Russian Academy of Sciences, St. Petersburg, Russia</i>



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NOVEL MULTIFUNCTIONAL ACYLOXYALKYL ESTER PRODRUGS OF 5-AMINOLEVULINIC ACID DISPLAY IMPROVED ANTICANCER ACTIVITY DEPENDENT ON PHOTOACTIVATION	<b>Gili Berkovitch<sup>1</sup> A. Nudelman<sup>2</sup> , B. Ehenberg<sup>2</sup> , A. Rephaeli<sup>2</sup> and Z. Malik<sup>2</sup></b> <i><sup>1</sup>Bar Ilan University, Petah-Tikva, Israel</i> <i><sup>2</sup>Sackler Faculty of Medicine, Tel-Aviv University.</i>
LOW POWER POLYCHROMATIC (VISIBLE + NEAR IR) LIGHT ELEVATES SENSITIVITY OF TUMOR CELLS TO CYTOLYTIC ACTIVITY OF NATURAL KILLERS	<b>N.A. Filatova, N.A. Knyazev, K.A. Samoilova</b> <i>Institute of Cytology, Russian Academy of Sciences, St. Petersburg, Russia</i>
EXPRESSION LEVELS OF ALA DEHYDRATASE AS A MARKER OF ALA-PDT EFFICACY	<b>Schauder Avital, Feuerstein Tamar and Malik Zvi</b> <i>Bar Ilan University, Ramat Gan - Israel</i>
PHOTOTHERAPY WITH POLYCHROMATIC VISIBLE AND NEAR IR LIGHT OF BREAST CANCER PATIENTS INHIBITS GROWTH PROMOTING ACTIVITY OF THEIR BLOOD SERUM FOR HUMAN TUMOR CELLS IN VITRO AND ENHANCES THIS ACTIVITY AS TO NORMAL TARGET CELLS.	<b>A.A Zimin, N.A Zhevago, K.A. Samoilova</b> <i>Institute of Cytology, Russian Academy of Sciences, St. Petersburg, Russia</i>

<b>LASER SURGERY</b>	
<b>Chairmen:</b> <b>V. Oswal, MD (UK)</b> - James Cook University Hospital, Middlesbrough, UK <b>A. Vaitkuvienė, MD, PhD (Lithuania)</b> – Division of Biomed. Technology. Inst. Applied Res. Vilnius University <b>Khalid Mohamed Bofares, MD (Libia)</b> - Omar Almoukhtar University, Elbyda City - Libya	
PULSE DYE LASER: LARYNGEAL MICRO-SURGICAL TECHNIQUE BY NON INVASIVE LASER SURGERY ABOUT 57 CASES	<b>*Jean Abitbol MD , Patrick Abitbol MD, Jean-Jacques Maimaran MD</b> <i>*1 rue Largillière – Paris, FRANCE</i>
OUR EXPERIENCE WITH OPTICAL BIOPSY IN THE HEAD AND NECK	<b>Waseem Jerjes, Tahwinder Upile, Zaid Hamdoon, Colin Hopper</b> <i>UCLH Head and Neck Centre, London, United Kingdom</i>
REVIEW OF PATIENTS WITH PERTHES DISEASE RESPONDING POORLY TO NEAR INFRARED IRRADIATION THERAPY	<b>Y. Asagai, T. Ohshiro °</b> <i>Shinano Handicapped Children's Hospital 6525-1 Shimosuwa (Japan)</i> <i>°Japan Medical Laser Laboratory, Shinanomachi, Tokyo,</i>
23 <sup>th</sup> ANNIVERSARY OF PERCUTANEOUS LASER DISC DECOMPRESSION (PLDD)	<b>G.P.Tassi<sup>1</sup>, Daniel S.J. Choy<sup>2</sup>, J. Hellinger<sup>3</sup>, S. Hellinger<sup>3</sup>, Sang H. Lee<sup>4</sup></b> <i><sup>1</sup>Casa di Cura VILLA ANNA – S. Benedetto del Tronto (AP);</i> <i><sup>2</sup>Columbia University New York;</i> <i><sup>3</sup>Isar Klinik Munchen, Germany;</i> <i><sup>4</sup>Wooridul Spine Hospital, Seoul - Korea</i>
SAPPHIRE DIAGNOSTIC SCALPEL	<b>Irina Shikunova, V.V.Kurlov, *A.V.Rybova, *V.B.Loschenov</b> <i>Institute of Solid State Physics of the Russian Academy of Sciences (ISSP RAS) - Chernogolovka, Russia</i> <i>*Prokhorov General Physics Institute of the Russian Academy of Sciences (GPI RAS)</i>



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COMBINATION OF A LASER AND STEM CELLS IN POSTERIOR EYE OPHTHALMOLOGY.	<b>A. Lukashev, E. Baranov<sup>0</sup>, N. Gavrilova<sup>1</sup>, A. Revischin<sup>2</sup>, P. Tornambe<sup>3</sup></b> <i>Stemedica Cell Technologies, Inc., San Diego CA - USA</i> <i><sup>0</sup>Stemedica, San Diego, CA, USA; <sup>1</sup>Fyodorov Eye MicroSurgery Center, Moscow, Russia; <sup>2</sup>Russian Academy of Sciences, Moscow; <sup>3</sup>Retina Specialists, San Diego, USA</i>
DETECTION OF CERVICAL CANCER ANALYZING BLOOD SAMPLES WITH RAMAN SPECTROSCOPY AND MULTIVARIATE ANALYSIS	<b>J. L. González-Solís<sup>1</sup>, J. Rodríguez-López<sup>2</sup>, J. C. Martínez-Espinosa<sup>2</sup>, C. Frausto-Reyes<sup>2</sup>, L. F. Jave-Suárez<sup>2</sup>, A. C. Aguilar-Lemarroy<sup>2</sup>, H. Vargas-Rodríguez<sup>2</sup>, E. Martínez-Cano<sup>2</sup></b> <i><sup>1</sup>Centro Univ. de los Lagos, Universidad de Guadalajara, Paseo de la Montaña, Lagos de Moreno - Mexico</i> <i><sup>2</sup>Centro de Investigaciones en Óptica, A. C.; de Investigación Biomédica de Occidente, Instituto Mexicano del Seguro Social</i>
355nm MICROLASER FOR AUTOFLUORESCENCE DIAGNOSIS IN PAP SPIN	<b>A.Vaitkuvienė, V.Gegzna, R.Kurtinaitienė, J.Rimienė, J.Vaitkus.</b> <i>Institute of Applied Research, Medicine, Nature faculties. Vilnius University. Vilnius, Lithuania</i>
PLANTAR WARTS TREATED BY CARBON DIOXIDE LASER: EXPERIENCE GAINED DURING 4 YEARS	<b>Ohad Baruchin MD<sup>1,2</sup> &amp; Abraham M.Baruchin MD<sup>1</sup></b> <i><sup>1</sup> Laser Unit, Barzilai University Medical Center, Ashkelon, Israel</i> <i><sup>2</sup> Department of Ob/Gyn, Assaf Harofeh University Medical Center, Zerifin, Is</i>
ULTRASOUND-GUIDED PHOTODYNAMIC THERAPY FOR DEEP SEATED PATHOLOGIES: PROSPECTIVE STUDY	<b>Waseem Jerjes, Tahwinder Upile, Zaid Hamdoon, Farai Nhembe, Rishi Bhandari, SORCHA Mackay, Priya Shah, Charles Alexander Mosse, Simon Morley, Colin Hopper</b> <i>UCLH Head and Neck Centre, London, United Kingdom</i>
CARBON DIOXIDE LASER TURBINECTOMY VERSUS SUBMUCOSAL DIATHERMY OF HYPERTROPHIED TURBINATES - HISTOPATHOLOGICAL PROSPECTIVE STUDY	<b>Khalid Mohamed Bofares</b> <i>Omar Almoukhtar University</i> <i>Elbyda City - Libya</i>
LASER-INDUCED AUTOFLUORESCENCE AS A DIAGNOSTIC TOOL FOR USE IN NEUROSURGERY	<b>Mihaela - Oana Romanitan<sup>1</sup>, A. Pascu<sup>2</sup>, L. Danaila<sup>3</sup>, M.L.Pascu<sup>2*</sup></b> <i><sup>1</sup> Neurology Clinics, Emergency Univ. Hospital, Bucharest</i> <i><sup>2</sup> National Institute for Laser, Plasma and Radiation Physics, Laser Department, Bucharest, Romania. <sup>3</sup> Neurosurgery Clinics, National Institute of Neurology and Neurovascular Diseases, Bucharest</i>
<b>LASER BIOMODULATION – 1</b>	
<b>Chairmen:</b> <b>J. Anders, PhD (USA)</b> – Anatomy and Biology Dept, USHUS Bethesda <b>S.A. Gonchukov, PhD (Russia)</b> - Moscow State Engineering Physics Institute, Moscow, Russia <b>L. Navratil, MD, PhD (Czech Rep)</b> – Univ. South Bohemia, Fac.of Health and Social Studies, Ceske Budejovice	



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THE IMPORTANCE OF BLUE LIGHT FOR WOUND HEALING	<b>R. Lubart, R. Ankri, A. Lipovski and H. Friedmann</b> <i>Bar-Ilan University, Ramat-Gan, Israel</i>
BLUE LIGHT PHOTOTHERAPY KILLS METHYLLIN RESISTANT STAPHYLOCOCCUS AUREUS (MRSA)	<b>Chukuka S. Enwemeka, PhD, FACSM</b> <i>Professor and Dean, College of Health Sciences University of Wisconsin, Milwaukee, WI</i>
ASSOCIATION OF SODIUM ALGINATE/CHITOSAN-BASED DRESSING FILMS AND LOW LEVEL LASER THERAPY ON DERMAL BURN HEALING: A MORPHOLOGIC STUDY	<b>Amalia Ribeiro Doutor<sup>1</sup>, Maria Amália Gonzaga Ribeiro<sup>1</sup>, Vitor Garcia Moreno de Oliveira<sup>2</sup>, Daisy Pereira Valido<sup>2</sup>, Ricardo Luiz Cavalcanti de Albuquerque-Júnior<sup>2</sup>, Juliana Cordeiro Cardoso<sup>2</sup>, Rose Nely Pereira Filho<sup>3</sup>, Antônio Luiz Barbosa Pinheiro<sup>4</sup>.</b> <i><sup>1</sup>School of Dentistry, Federal University of Sergipe; <sup>2</sup>Post-Graduation Program in Health and Environment, University Tiradentes; <sup>3</sup>Science and Technology Inst. (Aracaju/SE, Brazil); <sup>4</sup>School of Dentistry, Federal Univ. of Bahia (Salvador/BA, Brazil).</i>
HOW THE EFFECTS OF LLLT ON THE NEUROENDOCRINE SYSTEM IMPROVE WOUND HEALING	<b>M. Dyson, PhD</b> <i>King's College London (KCL), United Kingdom</i>
THE CREATION OF STANDARDIZED CERTIFICATION FOR LOW LEVEL LASER THERAPY (LLL T)	<b>Vaclav Navratil<sup>1</sup>, Leos Navratil<sup>2,3</sup>, Jozef Rosina<sup>1,4</sup>, Blanka Navratilova<sup>5</sup></b> <i><sup>1</sup>Czech Technical University, Faculty of Biomedical Engineering, Kladno, Czech Rep. <sup>2</sup>Univ. of South Bohemia, Faculty of Health and Social Studies, Ceske Budejovice, Charles University, 1<sup>st</sup> Medical Faculty, Inst. of Biophysics and Informatics, Prague, Czech Rep. <sup>3</sup>Charles Univ, 3<sup>rd</sup> Medical Faculty, Inst. of Medical Biophysics and Informatics, Prague, Czech Rep. <sup>4</sup>Dept. of Stomatosurgery, Prague 2, Czech Rep.</i>
<b>LASER BIOMODULATION – 2</b>	
<b>Chairmen:</b> <b>R. Glen Calderhead, MSc, PhD(MedSci) FRSM</b> - Japan Phototherapy Laboratory, Tokyo, Japan <b>R. Lubart, PhD (ISR)</b> - Bar-Ilan University, Ramat-Gan, Israel <b>P.G. Rocchi, MD (I)</b> – Bologna University, Forensic Med. Dept	
BIPHASIC DOSE RESPONSE IN LOW LEVEL LIGHT THERAPY	<b>Y.Y. Huang<sup>1</sup>, A..C-H. Chen<sup>1</sup>, J.D. Carroll<sup>2</sup>, M.R. Hamblin<sup>1</sup></b> <i><sup>1</sup>Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, MA, USA <sup>2</sup>THOR Photomedicine Ltd, Chesham, HP51HQ, UK</i>
LIGHT-EMITTING DIODES: THE WOUND HEALING REVOLUTION	<b>R Glen Calderhead, MSc, PhD(MedSci), FRSM</b> <i>Japan Phototherapy Laboratory, Tokyo, Japan</i>
METAL-FREE PHTALOCYANINE (PtS) AND 5-AMINOLEVULENIC ACID (ALA) IN PHOTODYNAMIC TREATMENT OF HUMAN VASCULAR CELLS	<b>Olga Udartseva, Elena Andreeva, Ludmila Buravkova, Eduard Tararak*</b> <i>Institute of Biomedical Problems RAS (IMBP RAS) Khoroshevskoe shosse, 76A Moscow 123007 - Russia *- Cardiocenter, Moscow, Russia</i>
FORENSIC MEDICINE IN LASER SKIN TREATMENT	<b>P.G. Rocchi, MD</b> – Bologna University





LIVER REGENERATION AFTER HEPATECTOMY FOLLOWED BY LOW ENERGY LASER IRRADIATION	<b>U. Oron, H. Tuby, L.Maltz, V. Sorin, and A. Czerniak</b> <i>Department of Zoology, Life Sciences Faculty, Tel-Aviv University, Tel-Aviv, 69978 and Wolfson Medical Center, Holon - Israel</i>
<b>LASER Dentistry – 1</b>	
<b>Chairmen:</b> <b>C. Fornaini, MD</b> – Parma University, Dentistry Dept. <b>A.L.B. Pinheiro DDS, MD, PhD (Brazil)</b> - School of Dentistry, Federal University of Bahia (UFBA), Salvador	
WAVELENGTH EFFECT IN TEMPOROMANDIBULAR JOINT PAIN: A CLINICAL EXPERIENCE	<b>A.L.B. Pinheiro, DDS, MD, PhD</b> <i>School of Dentistry, Federal University of Bahia (UFBA), Salvador, <sup>2</sup>National Institute of Optics and Photonics, Brazilian National Research Council (CNPq), S.Carlos-SP/Salvador-BA, Brazil</i>
Nd:YAG LASER AND COLD BLADE IN ORAL SURGERY: ANALYSIS OF POST-OPERATIVE PAIN IN 256 PATIENTS	<b>Ripasarti A, Guidotti R, Meleti M, Merigo E, Manfredi M, Fornaini C, Bonanini M, Vescovi P.</b> <i>European Master Degree in Oral Laser Applications. Univ. of Parma</i>
ASSESSMENT OF SUSPICIOUS ORAL LESIONS USING OPTICAL COHERENCE TOMOGRAPHY	<b>Zaid Hamdoon, Waseem Jerjes, Tahwinder Upile, Gordon McKenzie, Amrita Jay, Gareth J Thomas, Colin Hopper</b> <i>UCLH Head and Neck Centre, London NW1 2PG United Kingdom</i>
ASSESSMENT OF TUMOUR RESECTION MARGINS USING OPTICAL COHERENCE TOMOGRAPHY	<b>Zaid Hamdoon, Waseem Jerjes, Tahwinder Upile, Gordon McKenzie, Amrita Jay, Gareth J Thomas, Colin Hopper</b> <i>UCLH Head and Neck Centre, London, United Kingdom</i>
PHOTODYNAMIC THERAPY AS THE “LAST HOPE” FOR PATIENTS WITH TONGUE BASE CARCINOMA	<b>Waseem Jerjes, Tahwinder Upile, Zaid Hamdoon, Farai Nhembe, Rishi Bhandari, SORCHA Mackay, Charles Alexander Mosse, Simon Morley, Colin Hopper</b> <i>UCLH Head and Neck Centre, London, United Kingdom</i>
CLINICAL APPLICATIONS OF DIODE LASER IN IMMEDIATE IMPLANT PLACEMENT	<b>S.Brogia, * L. Iacovazzi*, E. Vigliaroli*, U. Romeo°, C. Maggiore*</b> <i>*Dip. di Scienze Chirurgiche, Univ. di L’Aquila, Italy °Dip.di Scienze Odontostomatologiche, Univ. Sapienza di Roma.</i>
CLINICAL EVALUATION OF 17 CASES OF BRONJ (BISPHOSPHONATE RELATED OSTEONECROSIS OF THE JAWS) TREATED WITH ER:YAG LASER SURGERY	<b>Paolo Vescovi*, Carlo Fornaini*, Elisabetta Merigo*, Maddalena Manfredi*, Marco Meleti*, Rebecca Guidotti*, Alessandro Ripasarti*, Giovanni Mergoni *, Amin Serraj*, Jean-Paul Rocca**, Samir Nammour***</b> <i>* Department of ENT/Dental/Ophthalmological and Cervico-Facial Sciences; Università degli Studi di Parma – (Italy) ** UFR Odontologie- Université de Nice “Sophia Antipolis” – (France) *** Université de Liège (Belgique)</i>
POST-EVALUATION OF THE NEUROPHATIES TREATMENT POST-TRAUMA WITH THERAPEUTIC LASER. MODEL IN SCIATIC NERVE OF FROG	<b>Antonio Sanchez Escobar, Melendez Ocampo Arcelia ,Franco Lira Maricela, Aragon Flores Mariana, Hernandez Hernandez Guillermina, Chiquini Jasso Jose Luis</b> <i>University of Army and Air Force, Av. Industria Militar s/n, Mexico city</i>



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USE OF ND:YAG LASER BIOSTIMULATION FOR DENTAL EXTRACTIONS SCHEME IN PATIENTS UNDER BISPHOSPHONATES THERAPY.	<b>R. Guidotti, E. Merigo, M. Meleti, M. Manfredi, A. Ripasarti, C. Fornaini, P. Vescovi</b> <i>Dept. of Otolaryngological/Dental/Ophthalmological and Cervico-Facial Sciences; Unit of Oral Pathology and Laser-assisted Oral Surgery, University of Parma, Parma Italy</i>
LOW LEVEL KTP LASER ON OSTEOBLASTIC PROLIFERATION AND DIFFERENTIATION: A PRELIMINARY IN VITRO STUDY.	<b>Elisabetta Merigo, Sebastien Bouvet-Gerbettaz, Florian Boukhechba, Danielle Quincey, Jean-Paul Rocca, George Carle, Nathalie Rochet</b> <i>*Department of ENT/Dental/Ophthalmological and Cervico-Facial Sciences; Università degli Studi di Parma – (Italy)</i> <i>**UFR Odontologie- Univ.de Nice “Sophia Antipolis” – Nice (France)</i> <i>***Laboratory og Genetics, Physiopathology and Bone Tissue Engineering (Gepitos)- Univ de Nice “Sophia Antipolis” – Nice (France)</i>
MICROLEAKAGE OF ASSOCIATION OF SELF ETCHING ADHESIVE SYSTEM AND ER:YAG LASER: LITERATURE REVISION.	<b>F. Occhiminuti, B Exbrayat, M.F. Bertrand, J.P. Rocca, C. Fornaini</b> <i>University of Nice, France</i>
MICROLEAKAGE EXPERIMENT STUDY OF ASSOCIATION OF SELF ETCHING ADHESIVE SYSTEM AND ER:YAG LASER	<b>B. Exbrayat, F. Occhiminuti, C. Fornaini, M.F. Bertrand, J.P. Rocca</b> <i>University of Nice, France</i>
LASER BIOSTIMULATION OF ALVEOLUS AFTER THIRD MOLAR EXTRACTION	<b>E.Vigliaroli*, L.Iacovazzi*, S.Brogia*, A. Del Vecchio°, C.Maggiore*</b> <i>*Dip. di Scienze Chirurgiche Università di L'Aquila - Italy</i> <i>° Dip. di Scienze Odontostomatologiche, Univ. “Sapienza” di Roma, Italy</i>
ULTRASTRUCTURAL AND MECHANICAL WELDING LASER COMPARATION BETWEEN FIBER-DELIVERED ND:YAG AND FIXED LENSES ND:YAG	<b>C.Fornaini<sup>1</sup>, E.Merigo<sup>1</sup>, F. Passaretti<sup>2</sup>, E. Villa<sup>2</sup>, P. Vescovi<sup>1</sup>, J.P. Rocca<sup>3</sup>, S. Nammour<sup>4</sup></b> <i><sup>1</sup>Department of ENT/Dental/Ophthalmological and Cervico-Facial Sciences; Università degli Studi di Parma – (Italy)</i> <i><sup>2</sup> Italian National Res.Council – Inst. For Energetics and Interphases, Lecco</i> <i><sup>3</sup>UFR Odontologie- Univ. de Nice “Sophia Antipolis” – Nice- (France)</i> <i><sup>4</sup>Université de Liège (Belgique)</i>
LASER THERAPY OF BONE FRACTURE	<b>Antonio Melendez Ocampo, Arcelia Melendez Ocampo, Maricela Franco Lira, Mariana Aragon Flores</b> <i>University of Army and Air Force, Av Industria Militar s/n , Mexico City</i>
ALKALINE FOSFATASA LIKE OSTEOGENIC MARKER IN THE BONE HEALING POSTEXTRACTION STIMULATED WITH LASER THERAPEUTIC	<b>Franco Alberto Perez Mata, Claudia Gabriela Monroy Abarca, Jose Luis Chiquini Jasso</b> <i>University of Army and Air Force</i> <i>Av. Industria Militar s/n - Mexico City, Mexico</i>



LASER PHYSICS	
<b>Chairmen:</b> <b>N. Mortellaro, MD (I)</b> - University of Catania, Laser Surgery Center, Catania <b>M. L. Pascu, PhD (Ro)</b> - National Inst. for Laser, Plasma and Radiation Physics, Laser Dept, Bucharest <b>J. Vaitkus, PhD (Lit)</b> – Physics Dept, Vilnius University	
THE GENERATION OF MICRODROPLETS AS VECTORS TO TRANSPORT MEDICINES TO TISSUES	<b>M. L. Pascu<sup>1</sup>, I. R. Andrei<sup>1</sup>, V. Pradines<sup>2</sup>, V. Nastasa<sup>1</sup>, R. Miller<sup>2</sup></b> <sup>1</sup> National Inst. for Laser, Plasma and Radiation Physics, Laser Dept, Bucharest <sup>2</sup> MPI für Kolloid- und Grenzflächenforschung Forschungscampus Golm, Golm, Germany.
LASER TRANSMISSION HOLOGRAMS MAXIMUM PERMISSIBLE EXPOSURE	<b>Paula Dawson</b> <i>The University of New South Wales, Sydney - Australia</i>
THE PHOTOBIOLOGICAL BASICS OF LED PHOTOTHERAPY, AND HOW THEY APPLY IN CLINICAL PRACTICE	<b>R Glen Calderhead MSc PhD(MedSci) FRSM</b> <i>Japan Phototherapy Laboratory, Tokyo, Japan.</i>
A CONNECTION BETWEEN COMMUNICATION WITHIN THE LIVING WORLD AND TRAFFIC MODELS FOR LASER COMMUNICATION SYSTEMS	<b>Petrica Ciotirnae, Dan Siposan, Razvan Raicu</b> <i>Military Technical Academy, Bucharest - Romania</i>
OXIDATIVE STRESS AFTER THERAPEUTIC LASER IRRADIATION AND GAMMA IRRADIATION	<b>Zuzana Freitinger-Skalicka<sup>1</sup>, Vaclav Navratil<sup>2</sup>, Jaroslav Racek<sup>4</sup>, Zdenek Hon<sup>1</sup>, Leos Navratil<sup>1,3</sup>, Friedo Zoelzer<sup>1,2</sup></b> <sup>1</sup> University of South Bohemia, Faculty of Health and Social Studies, Dept of Radiology and Toxicology, Ceske Budejovice, Czech Republic <sup>2</sup> Czech Technical University in Prague, Faculty of Biomedical Engineering, Kladno, Czech Republic <sup>3</sup> Charles Univ. Prague, First Faculty of Medicine, Czech Republic <sup>4</sup> Charles Univ. in Prague, Faculty of Medicine, Plzen, Czech Republic
DESIGN AND TESTING OF TWO-SOURCES LASER STIMULATOR	<b>Marina Timofeeva, Vladimir Arkov, Svetlana Haustova, Alexander Tonevitsky</b> <i>Russian Research Institute of Sport and Physical education Moscow - Russia</i>
DOES INFLUENCE THE MODIFICATIONS OF WATER PROPERTIES BY PHYSICAL AGENTS ON SOME BIOLOGICAL FUNCTIONS?	<b>Răzvan Raicu<sup>1</sup>, Dan Sipoșan<sup>1</sup>, Dumitru Bădilă<sup>2</sup></b> <sup>1</sup> Military Technical Academy, Bucharest <sup>2</sup> Termomedics Bucharest
INTEGRATION OF EXTRACELLULAR MATRIX WITH CHITOSAN ADHESIVE FILM FOR SUTURELESS TISSUE FIXATION	<b>A. Lauto<sup>1</sup>, L. Longo<sup>2</sup></b> <sup>1</sup> University of Western Sydney, Penrith South DC, Australia <sup>2</sup> University of Siena, Italy
ADJUSTMENT OF LIGHT IN THE LIMIT CONDITIONS OF THE CONSCIOUSNESS – “PRE COMA”, BY THE ASCENDANT ACTIVATING RETICULAR SYSTEM AND THE AUXILIARY SUBSYSTEMS	<b>Dan Sipoșan<sup>1</sup>, Toma Melinte<sup>2</sup>, Jan Ciurea<sup>3</sup></b> <sup>1</sup> Military Technical Academy <sup>2</sup> The Ambulance Service of Bucharest City (SAMB) <sup>3</sup> Clinical Emergency Bagdasar Arseni Hospital, Bucharest



LASER SAFETY: BEYOND SIGNS AND GOGGLES	<b>Penny J. Smalley</b> <i>TCL, 1444 W. Farwell Ave., Chicago - USA</i>
LASER HAEMORRHOIDECTOMY: UPDATA	<b>C. Giannini</b> <i>General Surgery Dept, SS. Annunziata Hospital, Firenze</i>
GUIDELINES ON DAY-HOSPITAL, DAY SURGERY, DAY-SERVICE	<b>N. Mortellaro, MD</b> <i>University of Catania, Laser Surgery Center, Catania</i>

## LASER RHEUMATOLOGY AND REHABILITATION MEDICINE – 1

### Chairmen:

**Y. Asagai, MD (J)** – IPTA President, Suwa University

**G.D. Baxter, DPhil (NZ)** - University of Otago, Dunedin - New Zealand

**M. Herold, MD (A)** - Innsbruck Medical Univ., Dept of Internal Med, Innsbruck, Austria

LASER THERAPY IN THE TREATMENT OF ACHILLES TENDINOPATHY: A RANDOMISED CONTROLLED TRIAL	<b>Steve Tumilty Munn PhD<sup>1</sup>, Haxby Abbott PhD<sup>1</sup>, Suzanne McDonough PhD<sup>2</sup>; Deirdre A. Hurley PhD<sup>3</sup>; J.R. Basford PhD<sup>4</sup>; G. David Baxter DPhil<sup>1</sup></b> <i>University of Otago, Dunedin - New Zealand</i> <sup>1</sup> Centre for Physiotherapy Research, School of Physiotherapy, University of Otago, Dunedin, New Zealand; <sup>2</sup> University of Ulster, Newtownabbey, Co Antrim, Northern Ireland; <sup>3</sup> University College Dublin, Belfield, Dublin, Republic of Ireland; <sup>4</sup> The Mayo Clinic Rochester, Minnesota U.S.A.
REALIGNMENT AND COLLAGEN ALTERATIONS WITH LOW LEVEL LASER THERAPY COMBINED WITH LOW INTENSITY ULTRASOUND IN CALCANEUS TENDON REPAIR	<b>Viviane Timm Wood, MAI Neves, NA Parizoto<sup>2</sup>, CE Pinfieldi, B Hochman, LM Ferreira</b> <i>Federal University of Sao Paulo (UNIFESP) Napoleão de Barros, São Paulo Federal University of São Carlos (UFSCar)<sup>2</sup>, São Paulo, Brazil</i>
INFLUENCE OF DIFFERENT OUTPUT POWER (40,60,80,100MW) OF LLLT IN CALCANEUS TENDON REPAIR: REALIGNMENT AND COLLAGEN TYPES	<b>Marco Aurelio Invaldi Neves, Viviane Timm Wood PT, Rafael Corrêa Gobbato PT, Nivaldo Antônio Parizoto PT PhD, Carlos Eduardo Pinfieldi PT PhD, Bernardo Hochman MD PhD, Lydia Masako Ferreira MD PhD</b> <i>São Paulo Federal University – UNIFESP</i>
THE DOSE THAT WORKS: LOW LEVEL LASER TREATMENT OF TENDINOPATHY	<b>S. Tumilty MPhTy<sup>1</sup>; J. Munn PhD<sup>1</sup>, S. McDonough PhD<sup>2</sup>; D. A. Hurley PhD<sup>3</sup>; J.R. Basford PhD<sup>4</sup>; G. D. Baxter DPhil<sup>1</sup>.</b> <sup>1</sup> Centre for Physiotherapy Research, School of Physiotherapy, Univ. of Otago, Dunedin, New Zealand. <sup>2</sup> University of Ulster, Newtownabbey, Co Antrim, Northern Ireland <sup>3</sup> University College Dublin, Belfield, Dublin, Rep. of Ireland <sup>4</sup> The Mayo Clinic Rochester, Minnesota - U.S.A.
KNUCKLE PADS – A COMMON PROBLEM BUT GOOD TO TREAT BY LASER	<b>Manfred Herold<sup>1</sup>, Katharina Russe<sup>2</sup></b> <sup>1</sup> Innsbruck Medical Univ., Dept of Internal Med, Innsbruck, Austria <sup>2</sup> Laserzentrum, Innsbruck, Austria



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THE EFFECT OF THE ASSOCIATION OF NEAR INFRARED LASER THERAPY, BONE MORPHOGENETIC PROTEINS, AND GUIDED BONE REGENERATION ON TIBIAL FRACTURES TREATED WITH INTERNAL RIGID FIXATION: A RAMAN SPECTROSCOPIC STUDY	<b>Antonio L.B. Pinheiro<sup>1,2</sup></b> <sup>1</sup> <i>Laser Center, School of Dentistry, Federal University of Bahia (UFBA), Salvador, BA, Brazil</i> <sup>2</sup> <i>National Institute of Optics and Photonics, Brazilian National Reserch Council (CNPq), S.Carlos-SP/Salvador-BA, Brazil</i>
<b>LASER RHEUMATOLOGY AND REHABILITATION MEDICINE – 2</b>  <b>Chairmen:</b> <b>M. Dyson</b> , PhD (UK) - King's College London (KCL) <b>C. Enwemeka</b> , PhD, FACS (USA) – Dean, College of Health Sciences Wisconsin's University, Milwaukee <b>S. Tumilty</b> , MPhTy (NZ) - Centre for Physiotherapy Res., School of Physiotherapy, Univ. of Otago, Dunedin, New Zealand	
THE CURRENT STATE OF THE INFERTILITY TREATMENT WITH LASER IN JAPAN - THE BIRTH OF THE JAPAN SOCIETY FOR LASER REPRODUCTION (JASLAR)	<b>Toshio Ohshiro</b> <i>Director of Japan Medical Laser Laboratory (JMLL), President of the Japan Society for Laser Reproduction (JaSLaR)</i>
EFFECT OF LOW-LEVEL LASER THERAPY ON VIABILITY OF THE TRANSVERSE RECTUS ABDOMINIS MUSCULOCUTANEOUS FLAP	<b>Carlos Eduardo Pinfildi<sup>o</sup>, Gobbato RC, Liebano RE, Hochman BS, Ferreira LM</b> <sup>o</sup> <i>UNIMEP - Catanduva, Brazil ; UNIFESP</i>
REDUCTION OF MUSCULOSKELETAL PAIN WITH CRANIAL LASER REFLEX THERAPY (CLRT): A RANDOMIZED CONTROLLED TRIAL USING PRESSURE ALGOMETRY	<b>Nicholas A. Wise, DC</b> <i>Wise Techniques, Spartanburg USA</i>
COMPARATIVE STUDY USING IR Diode Laser 904 nm and 808 nm 160 CASES	<b>Giuseppe Tam</b> <i>Laser Center, Villa Santina-Tolmezzo, Italy</i>
EFFECTS OF LASER ON PROGENITOR CELLS: PROPOSAL OF CLINICAL APPLICATION	<b>C. Kleinbloesem<sup>1</sup>, L. Longo<sup>2</sup></b> <sup>1</sup> <i>X- cell Center, Koln, Germany</i> <sup>2</sup> <i>Siena University, Institute Laser Medicine, Firenze, Italy</i>
<b>Patients on live</b>	All Speakers

TALK POSTER SESSION	
<b>Chairmen</b> <b>G. Oskarbski, MD</b> – Poland Society of Aesthetic Medicine <b>M. Postiglione, MD, PhD</b> – Former Director, WHO <b>P. Smalley, TN</b> –TCI, Chjicago (USA)	
LOW INTENSITY PHOTOTHERAPY ACCELERATES SKIN RE-EPITHELIALIZATION AFTER FRACIONAL MICRO ABLATIVE LASER TREATMENT	<b>Vladimir Lemberg</b> <i>Lumenis Inc., 5302 Betsy Ross Drive Santa Clara California – USA</i>
INFLUENCE OF GAALAS LASER (670NM) AND OF DEXAMETHASONE IN CHRONOLOGY OF SKIN REPAIR	<b>Maria de Fátima Lima Ferreira, Antônio Márcio Texeira Marchionni, Gilberth Tadeu dos Santos Aciole, Susana Carla Pires Sampaio de Oliveira, Juliana Santos de Carvalho Monteiro, Silvia Regina de Almeida Reis, Antônio Luiz Barbosa Pinheiro.</b>



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USE OF PHOTOTHERAPY (λ400-2000nm) IN THE HEALING OF THIRD-DEGREE BURN IN THE BACK OF DIABETIC RATS	<b><u>Maria de Fátima Lima Ferreira</u></b> , Priscila Chagas Oliveira, Juliana Santos de Carvalho Monteiro, Susana Carla Pires Sampaio de Oliveira, Gilberth Tadeu dos Santos Aciole, Luciana Pedreira Ramalho, Antônio Luiz Barbosa Pinheiro <i>UFBA Rua Araujo Pinho, 62 Salvador Bahia, Brazil</i>
EVALUATION OF THE EFFECT OF LED RADIATION IN THE REPAIR OF SKIN WOUNDS ON THE DORSUM OF RATS WITH IRON DEFICIENCY ANEMIA: HISTOLOGICAL STUDY.	<b><u>Susana Carla Pires Sampaio de Oliveira</u></b> , Juliana Santos de Carvalho Monteiro, Maria de Fátima Lima Ferreira, Diego Silva Menezes, Jean Nunes dos Santos, Fátima Zanin, Gilberth Tadeu S Aciole, Antonio Luiz Barbosa Pinheiro <i>UFBA Rua Araujo Pinho, 62 Salvador Bahia, Brazil</i>
LASERTHERAPY AND MUSCLE RELAXANT THERAPIES FOR MASTICATORY MUSCULATURE UNDER ALTERED OCCLUSAL RELATIONSHIPS – A MORPHOLOGIC AND ULTRA STRUCTURAL STUDY IN A RODENT MODEL	<b><u>Gilbert Tadeu dos Santos Aciole</u></b> , Susana Carla Pires Sampaio de Oliveira, Márcio V Lisboa, Jean Nunes dos Santos, Aparecida Maria C Marques, Antônio Luiz B. Pinheiro <i>UFBA Rua Araújo Pinho, 62 Salvador Bahia 40110150 Brazil</i>
WAVELENGTH EFFECT IN TEMPOROMANDIBULAR JOINT PAIN: A CLINICAL EXPERIENCE	<b><u>Maria de Fátima Lima Ferreira</u></b> , Carolina M. Carvalho, Maria Cristina T. Cangussu, Susana Carla Pires Sampaio de Oliveira, Aparecida M. C. Marques, Juliana Santos de Carvalho Monteiro, Gilberth Tadeu S. Aciole, Antônio L. B. Pinheiro <i>UFBA Rua Araújo Pinho, Salvador Bahia - Brazil</i>
MODIFICATIONS OF THE MEDICINES MOLECULAR STRUCTURES BY BULK EXPOSURE TO OPTICAL RADIATION	<b><u>Adriana Smarandache<sup>1</sup></u></b> , Ruxandra Angela Pascu <sup>2</sup> , Andra Militaru <sup>1</sup> , M. L. Pascu <sup>1*</sup> <i><sup>1</sup>National Institute for Laser, Plasma and Radiation Physics, Laser Department, Bucharest</i> <i><sup>2</sup>Emergency Univ. Hospital, Ophthalmology Clinic, Bucharest.</i>
IRRADIATED DOXORUBICIN EFFECTS ON AN EPITHELIAL RETINAL CELL LINE	<b><u>Steliana Kevorkian<sup>1</sup></u></b> , Adina Manea <sup>1</sup> , Anca Dinischiotu <sup>1</sup> , Madalina Dicu <sup>2</sup> , M. L. Pascu <sup>2*</sup> , Marieta Costache <sup>1</sup> <i><sup>1</sup>University of Bucharest, Department of Biochemistry and Molecular Biology, Bucharest.</i> <i><sup>2</sup>National Inst. for Laser, Plasma and Radiation Physics, Laser Dept, Bucharest.</i>
STABILITY OF THE MOLECULAR STRUCTURES OF MEDICINES DELIVERED IN MICRODROPLETS SOLUTIONS	<b><u>I. R. Andrei<sup>1</sup></u></b> , Adriana Smarandache <sup>1</sup> , J. M. Pages <sup>2</sup> , A. Mahamoud <sup>2</sup> , M. L. Pascu <sup>1*</sup> <i><sup>1</sup>National Inst. for Laser, Plasma and Radiation Physics, Laser Dept, Bucharest, Romania.</i> ; <i><sup>2</sup>Fac. of Pharmacy, Mediterranean Univ, Marseille, France</i>
SECOND IMPLANT PHASE: DIODE LASER AS A GOOD ALTERNATIVE TO TRADITIONAL SURGICAL APPROACH. CASE REPORT	<b><u>L. Leoci, W. Antonietti, C. Fornaini, P. Vescovi</u></b> <i>European Master Degree in Oral Laser Applications. University of Parma</i>
THE DIODE LASER AS AN AUXILIARY PART IN THE PERIODONTAL SURGERY: CLINICAL EVALUATION	<b><u>W. Antonietti, L. Leoci, R. Guidotti, C. Fornaini, P. Vescovi</u></b> <i>European Master Degree in Oral Laser Applications. Univ. of Parma</i>



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COMPARISON OF FOUR DIFFERENT WAVELENGTHS IN PRE-PROSTHETIC SURGERY	<b>Aldo Oppici , E. Merigo, F. Clini, C. Fornaini</b> <i>Oral Medicine and Laser Assisted Unit, Univ.of Parma (I) Special Need Unit. Division of Dentistry. Hospital of Piacenza (Italy)</i>
CHIROPRACTIC AND CRANIAL LASER REFLEX TECHNIQUE (CLRT) FOR STROKE INDUCED MUSCLE SPASMS: A CASE STUDY	<b>Nicholas A. Wise, D.C.</b> <i>USA</i>

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*As usual researchers and doctors will show new data immediately available for practical use.*

*Particular emphasis will be given to research relating to standards for light and laser therapy on different topics: Dentistry, Dermatology, Neurology, Sport Injuries, Phlebology, Plastic Surgery, Photodynamic Diagnosis and Therapy, and more.*

*A special session will be made for Energetic Medicine and the role of laser beams and light in this topic. In fact, in the world there is a bit of confusion between data obtained from evidence based medicine and scientific data controlled experimentally, especially in the field of the energetic medicine.*

*The International Academy ensures a high quality of the lectures and posters presented. The accepted abstracts are published in the official journal of the IALMS, Laser in Medical Science, published by Springer Publisher, London. The Proceedings of the Conference will be published immediately after the event, on paper and on line, by the American Institute of Physics. The IALMS members could look up the slides of the Conference in the member area at the web site [www.ialms.com](http://www.ialms.com).*

*The year 2010 is too the 50<sup>th</sup> birthday of Laser Discover. Unfortunately Theodore Maiman, laser creator, died some year ago. We would like to celebrate this event and to restructure the School titled to him.*

*The IALMS will organize a Master on Laserology – Laser technology in medicine and surgery, under the umbrella of the WFSLMS – The World Federation of Laser Societies of Laser Medicine and Surgery. This Master includes a general section, held in Firenze, and many specialistic sessions, held in different towns of different countries. Teachers will be the pioneers on the use of lasers in different sectors of the medicine. Full details on this Master will be available on the web sites [www.laserflorence.org](http://www.laserflorence.org), [www.ialms.com](http://www.ialms.com), [www.wfslms.org](http://www.wfslms.org). The diploma released will give the title of International Medical Laser Specialist – IMeLaS.*

*The aim of Laser Florence organisers is always the same: to establish an outstanding interaction between the delegates in a unique location and an unforgettable atmosphere where friendship, intelligence and scientific know-how are blended.*

*Several awards are available for the presenters of the best papers and posters and the recipients will be invited to participate in the next conference of Laser Florence.*

*To fully understand the importance of Laser Florence, there is only one way, coming here !*

*Looking forward to seeing you in Florence*

*Best regards*

*Leonardo Longo*



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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.



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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 non surgical uses of lasers; Laser in infertility; Laser and stem cells self graft.

## NEWS

Dear IALMS member,

Our new website [www.ialms.com](http://www.ialms.com) liked much.

We appreciate your opinion and some suggestion/comment for to improve more that.

You can add your own website under the new section: Laser Medical Centers, free of charge.

You can enjoy photos taken during the last three Laser Florence Congress, on the new area members.

The journal : Laser in Medical Science, is available on-line, and each member must receive 6 issues for year by regular mail.

**If some member don't received those in the year 2009, please advise immediately the IALMS Secretary.**

Special area with the Proceedings of Laser Florence 2009 will be available under the umbrella of the American Institute of Physics.

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PRAGUE, LASER 2009 – 37<sup>TH</sup> CONGRESS OF THE EUROPEAN SOCIETY OF RADIOLOGY



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<b>Manufacturers:</b> they can have a member in the Executive Committee; They can use the logo of the Academy on their brochures, subject to the approval of the Executive Committee.	<b>500</b>
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## REPORT ON

### MINUTES OF THE JOINT BUSINESS MEETING of the 2<sup>nd</sup> CONGRESS of the WORLD FEDERATION OF SOCIETIES FOR LASER MEDICINE AND SURGERY and the 18<sup>th</sup> CONGRESS of the INTERNATIONAL SOCIETY FOR LASER SURGERY AND MEDICINE

held during *Laser Tokyo 2009* in the Meiji Kinenkan, Tokyo, November 29<sup>th</sup> 2009

The meeting, being Quorate, was opened by Professor Toshio Ohshiro, President-Elect of the 18<sup>th</sup> ISLSM congress and President of *Laser Tokyo 2009* at 14:10. He welcomed everyone present particularly those who had come from overseas, including a good number of observers who were not Committee Members of either organization. He pointed out that the Committee Members of both organizations were almost the same people, and that the main points for discussion were very similar, so he hoped that everyone would accept a joint business meeting. This was unanimously accepted.

Professor Krishna Rau (India), President-Elect of the 2<sup>nd</sup> World Federation meeting, then asked leave to have the floor, which was granted. Prof Rau had very kindly prepared Presidential Medallions and Chains for the Presidents of the ISLSM (Professor Toshio Ohshiro), WFSLMS (Professor Kazuhiko Atsumi) and the *Laser Tokyo 2009* host society, Japan Society for Laser Surgery and Medicine (JSLSM, Professor Harubumi Kato). He then presented these to the respective recipients, and was roundly applauded.

Prof Ohshiro then presented a comprehensive history of the achievements, aims and goals of both the WFSLMS and ISLSM, showing how many of them intermeshed over the preceding years. His main point was the poor financial situation of both organizations, and one of their renewed goals was to make their financial situation more sound. He pointed out the differences between the ISLSM, the oldest laser society in the world, as attested to by Professor Isaac Kaplan (Israel), the WFSLMS and the NPO (non-profit organization)-WFSLMS. Under the 2009 goals, the NPO-WFSLMS would undertake and control the financial side of things, raise funds, and would disburse these to the WFSLMS as one of the projects of NPO-WFSLMS. At the very beginning, seed funds were donated by Prof Kaplan, and the idea was to found the Kaplan-Atsumi Foundation. However under Japanese law, a Foundation must have funds running into the hundreds of millions of Japanese yen, so that was impossible. This latest approach is, however, possible.

Prof Kaplan then made a suggestion. He had published two books as privately published volumes, 'The Wondering Jew' and his most recent one, 'Rhyme Time: an Apology for an Anthology'. He presented a CD-ROM with digital copies of these books to Prof Rau, and offered Prof Rau the publishing and sales rights in India, with all proceeds to go to the WFSLMS funds. This generous offer was roundly applauded.

Prof Ohshiro sincerely thanked Prof Kaplan for this. He then proceeded with a history of the Committee members of ISLSM, ending with the proposed 2009 Council members, as in the table on the following page. The meeting agreed unanimously to accept that recommendation.

There followed a discussion on the IMeLaS proposal. Prof Ohshiro reported that, on November 26<sup>th</sup> and 27<sup>th</sup>, the first initiative course had been held. Ohshiro further reported that 17 young medical doctors (6 from Thailand and 11 from Japan) had taken the course of didactic lectures being given on both days by R Glen Calderhead (UK & Japan), Penny Smalley (USA) and Profs Ishiwatari (Japan) and Sliney (USA). On the morning of the 27<sup>th</sup>

#### ISLSM Council, 2009-2011

##### Honorary Presidents

Isaac Kaplan (Israel)  
Kazuhiko Atsumi (Japan)

##### The Executive

**President**  
**President-Elect**  
**Secretary-General**  
**Honorary Treasurer**

Toshio Ohshiro (Japan)  
Jin Wang Kim (Korea)  
Abraham Baruchin (Israel)  
Sharon Krishna (India)



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## The Advisory Council

**Past President**

Leonardo Longo (Italy)

**Other members** to be nominated and confirmed by  
the Executive

### WFSLMS Executive Committee, 2009-2013

**Honorary President**

Isaac Kaplan (Israel)

**Founding President**

Kazuhiko Atsumi (Japan)

**President**

Krishna Rau (India)

**President-Elect**

Jean Abitbol (France)

**Secretary-General**

Toshio Ohshiro (Japan)

**Assistant Secretary-General**

Narong Nimsakul (Thailand)

**Honorary Treasurer**

Vasant Oswal (UK)

Mary Dyson (Europe)

Sherif Awad (Africa)

**Honorary International**

Abraham Baruchin (Israel)

**Branch Members**

Gu Ying (Asia-Pacific)

David Sliney (North America)

Fernando Soriano (South America)

Prof Ohshiro oversaw a hands-on course with a variety of lasers at the Ohshiro Clinic, and after the didactic sessions in the afternoon the candidates sat a written multiple choice type examination. All candidates passed with an average score of around 67%, which was an excellent start. As to those eligible to take an IMeLaS certificate, there was some debate as to who should be in that group. Some did not like the idea of anyone without an MD or MB ChB, DDS, DVM or PhD being allowed certification, and the word 'paramedical' caused some problems. It was finally agreed to drop paramedicals from the eligible group. Professor Jean Abitbol (France) insisted that we must not forget specialities like the ophthalmologists. It was agreed that the course should teach basic science and laser safety, what is often called 'core laser knowledge', so that participants would recognize and know how to achieve all basic laser/tissue interactions and be aware of how to use a laser safely.

On WFSLMS business, Professor Leonardo Longo (Italy) was proposed as President-elect of the 2013 meeting, but as he was then given the task of sorting out the syllabus for the IMeLaS didactic courses, Prof Abitbol was tentatively nominated. Both accepted their relevant and respective tasks. All were in agreement that it should be young doctors at whom the IMeLaS initiative is aimed, not the older laser doctor who is possibly too set in her or his ways. Prof Abitbol agreed to send a copy of the French teaching system for our information whereby there is a series of prize medals and financial incentives for junior doctors who do especially well in the teaching program.

Returning briefly to the paramedical debate, Dr Vasant Oswal (UK) reported that the British Medical Laser Association had just recently decided to disband their paramedical group which had run for some years, because it basically did not work out. Possible reasons included different levels of education, different goals and a different income level.

At this point Prof Narong Nimsakul (Thailand) returned to the education program, and proposed that Prof Longo be given full responsibility for putting one together for the IMeLaS initiative. Prof Longo agreed, but he wanted to start with medical personnel and then expand the scope to take in more types of qualified candidates. He said he already had the course drafted, and just needed to flesh it out and nominate instructors. He also said he wanted the young doctors, not older and experienced laser users, to participate.

On the subject of courses, Prof Nimsakul suggested approaching industry for laser-specific sponsors to defray costs and increase income. This agreed to be one of the tasks of the WFSLMS Industrial Support Committee.

While the discussion was still on courses, Prof Rau wanted candidates to get a list of required reading some time before the actual course, including text books and selected papers. Prof Ohshiro pointed out that we had actually prepared a handbook for the current course, and copies of this were passed around for perusal. Prof Oswal reckoned it was an excellent resource and could well form the basis for a first-class book. Prof Abitbol suggested that the Handbook



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could be a source of income. Once it was published by a reputable publisher it could be offered to candidates as included in the course fees.

Prof Ohshiro then moved on to the various committees within WFSLMS, some of which were proposed to have their names simplified: this was agreed, as was the list of responsible members for chairpersons as seen on the following page. The post of Chairman of the Industrial Support Committee was occupied by Prof Nimsakul, but due to pressure of work he asked to be excused, and suggested Prof Abitbol in his place. Prof Abitbol accepted the post.

Prof Kaplan then said that, as another avenue of education for young doctors, he had been trying to get universities to have laser basics as part of the standard undergraduate curriculum, but without success. Perhaps with the advent of the IMeLaS program that would change. It was decided to allot this task to the WFSLMS Education and Training Committee.

Prof. Atsumi mentioned that some people will have questions and requests for education & training system on WFSLMS, however everything has both sides, merit and demerit. He believed it had been difficult to start and would be more difficult to continue, and that we would be able to improve after our experience with the current system. He concluded that we were happy to have started and thanks were due for the great effort of Prof. Ohshiro.

Having covered items 1-3 of the Agenda, Prof Ohshiro proposed moving on. Next to be discussed was membership fees for the ISLSM. The idea of Life Membership was very attractive as it cut down on both the cost of postage and chasing members up for non-payment of fees, but what to charge generated some lively discussion. There were two basic approaches: to include the cost of a printed edition of the journal *Laser Therapy* in with the fees, both for Life and ordinary Members, or to charge a lower fee but not include the printed edition of the journal unless the member paid extra. They would then access the journal through a password-protected area of the ISLSM website which would allow them exclusive access to the journal and enable printing off articles when required. The fee for Life Membership was proposed as US \$400 for members 60 years of age and over, and US \$1000 for those under 60. Prof Abitbol made the point that good numbers of members tempted publishing houses, but that we should not undercharge. he suggested US \$800/2000 for life members who wished to receive the journal. It was decided to table that item for discussion by the ISLSM Executive and Advisory Council.

## 2009 Committee Chairpersons for various WFSLMS Committees

Committee	Chairperson
Executive Committee	Leonardo Longo
Membership Committee	Narong Nimsakul
Bylaw Committee	Abraham Baruchin
Financial Committee	Toshio Ohshiro
Scientific Programme Committee	Mary Dyson
Congress Organizing Committee	Jean Abitbol
Licence Committee	Toshio Ohshiro
Education & Training Committee	Yoshimi Asagai
Industrial Support Committee	Jean Abitbol
Laser B-SAC Committee	Umberto Rossi
Official Organization Committee	David Sliney

The revised ISLSM Bylaws were then read through and explained by Prof Rau, and were unanimously accepted with minor alterations. The revised WFSLMS Bylaws were likewise presented and ratified.

Under Any Other Business, Prof Oswal felt that 'light therapy' should be included in ISLSM and WFSLMS communications and projects rather than laser surgery, as non-laser sources such as intense pulsed light systems were playing a larger and larger role. After some lively discussion, his suggestion was overruled.

Finally it was agreed that Prof Longo would have the responsibility to come up with concrete proposals for a course curriculum in some 6 months' time, to be circulated to the committees of both societies. Everyone concerned would then



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have 4 weeks to make amendments or suggestions. Anyone not replying would be deemed to have accepted the proposal as is.

Finally, Prof Ohshiro thanked everyone again for being present and closed the meeting at 16:05.

Respectfully submitted

**Takafumi Ohshiro MD**  
**Meeting Secretary**

**MINUTES OF THE GENERAL ASSEMBLY**  
**of the 2nd CONGRESS of the**  
**WORLD FEDERATION OF SOCIETIES FOR LASER MEDICINE AND SURGERY**  
**held during *Laser Tokyo 2009* in the Meiji Kinenkan, Tokyo, November 29<sup>th</sup> 2009**

There being a Quorum, the meeting was opened and called to order by President-Elect Professor Krishna Rau at 16:35, who then welcomed the current President, Professor Kazuhiko Atsumi. Prof Atsumi expressed great pleasure that so many friends and colleagues were in attendance, and welcomed everyone with the hope that they would all enjoy Tokyo. Prof Atsumi then handed over the President's Medallion and Chain to Prof Rau, who then became the official President of the WFSLMS for the next 4 years.

Prof Rau thanked Prof Atsumi for a very successful term as President, starting in Chennai, 2001, and proceeding through the 1<sup>st</sup> WFSLMS meeting in Tokyo, 2005 to the present meeting. He then welcomed Prof Atsumi into the Executive Committee as the Founding President. Prof Rau also expressed gratitude on behalf of the Federation to Prof Ohshiro for his tremendous support during this term, and of course as Congress President of ***Laser Tokyo 2009***. The WFSLMS bylaws were then read and ratified. The 2009 WFSLMS Executive Committee was proposed and agreed as follows:

**WFSLMS Executive Committee, 2009-2013**

<b>Honorary President</b>	Isaac Kaplan (Israel)
<b>Founding President</b>	Kazuhiko Atsumi (Japan)
<b>President</b>	Krishna Rau (India)
<b>President-Elect</b>	Leonardo Longo (Italy)
<b>Secretary-General</b>	Toshio Ohshiro (Japan)
<b>Assistant Secretary-General</b>	Narong Nimsakul (Thailand)
<b>Honorary Treasurer</b>	Vasant Oswal (UK)
	Mary Dyson (Europe)
	Sherif Awad (Africa)
<b>Honorary International</b>	Abraham Baruchin (Israel)
<b>Branch Members</b>	Gu Ying (Asia-Pacific)
	David Sliney (North America)
	Fernando Soriano (South America)

Prof Rau stated that the World Federation functioned as an umbrella Society, with the main aim of spreading laser use mainly to the developing countries, in some of which Profs Ohshiro and Nimsakul had already delivered lectures and run teaching courses, so the Federation had certainly started to achieve that aim.



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Another major goal was the establishment of the new certification initiative for International Medical Laser Specialist (IMeLaS). On November 26<sup>th</sup> and 27<sup>th</sup> the first initiative course was held, and Prof Rau called on Prof Ohshiro for details. Prof Ohshiro reported that 17 young medical doctors (6 from Thailand and 11 from Japan) had taken the course of didactic lectures being given on both days by R Glen Calderhead (UK & Japan), Penny Smalley (USA) and Profs Ishiwatari (Japan) and Sliney (USA). On the morning of the 27<sup>th</sup> Prof Ohshiro oversaw a hands-on course with a variety of lasers at the Ohshiro Clinic, and after the didactic sessions in the afternoon the candidates sat a written multiple choice type examination. All candidates passed with an average score of around 67%. Prof Rau thanked Prof Ohshiro for his hard work, and asked when the certificates would be handed out. Prof Ohshiro replied that they would be awarded during a Tokyo Bay Cruise the following evening.

Prof Rau then announced that the next courses would be held during the 2010 13<sup>th</sup> APALMS Congress in Suwa City, Nagano, Japan, and the 2011 ISLSM congress in Seoul Korea, with the potential for other courses including Laser Florence in November 2010. He also announced that Professor Leonardo Longo (Italy) had been tasked with charting out the IMeLaS academic course syllabus, to which Prof Longo had agreed with a 6-month deadline having been set. During this time an information package would be prepared to be sent to young doctors to attract them to take the certification course. The course should have 2 components: a core laser knowledge syllabus for all participants followed by a more advanced speciality-specific course. Prof Rau called for assistance for Prof Longo, and especially for the speciality-specific course, WFSLMS members should rally round and help, which would be mutually beneficial both the IMeLaS initiative and the WFSLMS itself.

It was then announced that the 20<sup>th</sup> ISLSM and the 3<sup>rd</sup> WFSLMS would hold a joint meeting in 2013 in France, under the Presidency of Prof Jean Abitbol (France), so that Prof Abitbol's centre would become the nidus of all aspects of the laser in surgery and medicine. This was unanimously accepted. Prof Abitbol was therefore the new President-elect. Prof Rau asked everyone present to leave a note of their email address so two-way communication could be established. When asked how we should proceed during the next 4 years, Prof Atsumi thanked Profs Ohshiro and Rau for organizing the current meeting, simply reinforced the idea that all present at the GA were in the project together, and that we should all therefore pull together and contribute what, and as much as, we could.

Prof Rau then called on the 'Father of the CO<sub>2</sub> Laser', Prof Isaac Kaplan (Israel), to say a few words. In his usual inimitable and wonderful style, Prof Kaplan expressed his feelings in Rhyme, which was warmly applauded. He concluded by pointing out that when he taught 'how to use the laser' it has always been a core knowledge course, and did not think that we really needed specialty-specific breakouts. Mrs Masha Kaplan then congratulated all the organizers of the joint meeting, but had a special word of thanks to Prof Ohshiro for having put the meeting together in less than one year, instead of the usual two years.

Prof Leonardo Longo was then asked to contribute. Prof Longo agreed that finalizing plans for certification could be very difficult, as different laws and regulations existed in different countries. This could lead to fragmentation. However, provided the concept of an international laser specialist certification, such as the IMeLaS initiative, was correctly presented, then that would help bridge problems to offer young doctors a good basic grounding in the core laser knowledge. He thanked the meeting for putting the responsibility on his shoulders, and avowed he would do his best.

Professor Narong Nimsakul (Thailand) spoke next. He reminded everyone that the main aim of the World Federation was to bring laser societies together under the same umbrella, and although members should of course include doctors, dentists, veterinary surgeons and research scientists, we should never ever forget nursing and allied health workers, so he reminded everyone that they had established the International Society for Laser Nurses and Allied



Health Workers at the ISLSM meeting in 1983. He then called on the current president, Penny Smalley (USA) for her comments. Ms Smalley pointed out that the first international society for laser nurses was established in 1983 in Detroit. She reminded all present that nurses were specialists, and collaborative partners with the laser surgeon. It is the job of the nurse to protect the patient during laser surgery, Ms Smalley said, and if she or he did not know the basics of laser science and tissue interaction, they would not be able to do that. She asked the meeting please to bear that in mind when thinking of who could participate in courses.

Ms Smalley handed the meeting back to Prof Nimsakul, who asked Prof Jin Wang Kim (Korea), President-elect of the ISLSM and congress president of the 2011 19<sup>th</sup> ISLSM meeting in Seoul, Korea, for a few words. Prof Kim thanked Prof Ohshiro for all his hard work in putting together such a superb congress in less than a year, and hoped that he would succeed as well. He asked for everyone's assistance, as the World Federation was the umbrella society for the ISLSM, and urged as many as possible to attend and bring friends and colleagues.

Prof Yoshimi Asagai (Japan) was next asked to say a few words as the President of the 2010 13<sup>th</sup> APALMS meeting in Suwa, Japan. Prof Asagai said how honoured he was to have been entrusted with the meeting, which would be held from October 8<sup>th</sup> – 9<sup>th</sup> 2010. He pointed out that Suwa is in the centre of Japan, and only 2.5 hours by train from Tokyo, so everyone should please attend his meeting!

Prof Abitbol then addressed the GA. He looked forward very much to the meeting in 2013, and thanked Profs Rau, Atsumi and Ohshiro for all of their work to date. He pointed out that it was much more important to identify the things which we could not do, rather than those we could. He also noted that one man could not possibly handle everything alone, so he really expected teamwork from all involved. In 4 years' time there would be even greater technological advances, he added, so he needed help from everyone, worldwide.

Prof Rau then called on Prof Harubumi Kato, the President of the JSLSM, the host organization for **Laser Tokyo 2009**. After thanking and congratulating Profs Ohshiro and Rau for organizing what promised to be an excellent meeting, Prof Kato stated that there was a fast-growing need worldwide for minimally invasive and high quality integrative medicine, so we therefore absolutely needed laser technology and surgical techniques to meet this need. He insisted that cooperation between laser societies in different countries was essential for this goal, so the WFSLMS had an absolutely pivotal role to play.

Prof Vasant Oswal (UK), Treasurer of the Federation, spoke next. Prof Oswal thanked Prof Ohshiro for a really fantastic-looking **Laser Tokyo 2009**. He then announced that the European Laser Association was once again active with a great meeting planned for May in Tarragona, Spain, entitled **Laser Europe 2010**. This would bring together the British Medical Laser Association (BMLA), Spanish Medical Laser Association (the host organization) and the European Society for Laser Aesthetic Surgery (ESLAS) under the ELA banner, so please come. It would naturally be possible to run another IMeLaS course before or after this meeting, but now that the Federation had successfully run the first course in Japan other countries would follow suite. He asked if it was actually necessary for the WFSLMS to oversee every course, and wondered if courses could be run with the approval of the Federation, accredited by the Federation and with the WFSLMS logo on the certificates. Naturally there was a lot of work to formulate everything properly, Oswal added, and that had been laid on the shoulders of Prof Longo. He pointed out that, in the case of the BMLA, they approved educational courses in the UK, and then reapproved the courses every three years to make sure that the latest core knowledge had been included.

Prof Rau agreed that if all went well with Prof Longo's team, we would have a much better idea for the approved syllabus in 6 months' time. Prof Rau then noted that there were indeed many courses run by many societies. Following on from



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Prof Oswal's suggestion, Prof Rau agreed that such societies should be approached to affiliate their courses with the WFSLMS, and be granted the use of the WFSLMS logo to be used on their course literature and certificate of completion. Societies accepting this arrangement will be required to pay a nominal fee for the use of the logo. These societies would then forward their course materials to Prof Longo for approval of the academic level of the contents. On the subject of courses, Prof Arbitbol put forward his course for affiliation with the WFSLMS, and further very kindly offered to reduce the cost of his course to WFSLMS and ISLSM members by US \$200, which was very gratefully noted.

Prof Nimsakul then took the floor and agreed that we should consider Prof Oswal's idea very carefully. For example, if Vietnam wanted such a course, it could well be run by the WFSLMS team. He added that in the next 5 years it was hoped to formulate an ASEAN charter which might well encompass pan-ASEAN certification. The WFSLMS should have an important role in that.

Prof Longo took to the floor once again, insisting that the aim of the IMeLaS initiative was completely different from the courses which are run before almost any congress, and that IMeLaS courses must be much more substantial. They must have an initial basic course, the core laser knowledge, for young doctors, not experienced laser surgeons who are already set in their ways. This core knowledge course could then be followed some months later by a set of different speciality-specific courses. They must be excellent courses, and he said that we had to change the quality of the teaching. The didactic part would be handled by the International Academy, and the entire concept must be a long-term consideration and not just one or two hours pre-congress.

Prof Mary Dyson (UK) was then recognized. She expressed herself extremely impressed with all the suggestions, and with the progress that had already been made. Prof Dyson suggested that we might consider putting some of the theory on the Internet so that courses which were difficult to get to could be avoided. She also wondered how best to test the practical skills of IMeLaS candidates, and said that only surgeons could do that. Above all, she did not want to see certificates as meaningless pieces of paper.

Prof Rau made it clear that the current IMeLaS course was only a start, and simply looked at core knowledge. even so, the didactic sessions were challenging backed up with an excellent handbook, coupled with a comprehensive hands-on, and the written multiple choice test was comprehensive and not so easy. In future iterations of the initiative, candidates would get the course handbook well before the course, with suggestions on which key texts to study so that the examination could be extended to involve long written answers, short written answers and the multiple choice section.

Professor Vladimir Mikhailov (Russia) was next recognized. He agreed that the cooperative IMeLaS initiative between the WFSLMS and ISLSM was an excellent start which would only get stronger with the input from the International Academy and Prof Longo. He then suggested the initiative would take another giant step forward with recognition of IMeLaS certification by Ministries of Health worldwide. Whether the national government recognized the course or the course was presented to the government by the course organizers, it is vital to get international recognition at a governmental level.

Prof Arbitbol then took the floor again. He reiterated his idea that we must look at the initiative as a team concept, that the diploma we offer currently was excellent, but did not go far enough. He asked if there could be a proctorship element to the second part of a two-stage course, similar in concept to what Profs Longo and Dyson had already suggested. However, he agreed that we must start somewhere and the current core laser knowledge course was an excellent start.

Prof Ohshiro then added that a government-approved system, similar to what had been suggested, already existed in Japan with a 4-grade award system: in addition to being a plastic surgeon, a physician then becomes a Laser



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Specialist in Plastic Surgery. However, some countries have no standards, so the IMeLaS initiative offers standards. In those countries where standards already exist, then the IMeLaS initiative should be moulded to follow those standards. Prof Mikhailov agreed completely with Prof Ohshiro. If the government of one country were to give support to the IMeLaS initiative, other countries would follow. When no standards exist, then the IMeLaS standards would be an excellent starting point.

Prof Oswal reminded everyone what Prof Kaplan had said, that the laser was simply a tool and doctors should all be taught how to use that tool in a basic and safe way before even thinking about speciality-specific training. They should be taught first how 'to do' laser in general before being taught how 'to do' laser surgery. Prof Oswal stated that he had run an intensive ENT course in the UK for 26 years with some excellent teaching tools. The participants got 20 questions before the course, and then the same 20 questions after the course: this way they know how much they had absorbed. He also wondered about CME credits for the current IMeLaS initiative.

It was then pointed out that pan-European certification was much simpler because of the Bologna Agreement. This would be equally the case if a pan-ASEAN accord could be reached.

Prof Nimsakul then talked about disaster preparedness from the point of the need for many trained medical personnel. The IMeLaS course could be taken as basic requirements for surgeons in areas prone to catastrophic disasters, natural or otherwise. Then we could have medical teams who were laser cognizant, which would be a great step forward. That must also be a consideration of the WFSLMS goals.

Prof. Atsumi mentioned that some people will have questions and requests for education & training system on WFSLMS, however everything has both sides, merit and demerit. He believed it had been difficult to start and would be more difficult to continue, and that we would be able to improve after our experience with the current system. He concluded that we were happy to have started and thanks were due for the great effort of Prof. Ohshiro.

Prof Rau stated that we had had a most fruitful discussion, and that we could expect to hear from him for our greater participation in WFSLMS activities. Prof Atsumi agreed, saying that greater effort to obtain high level laser surgery should be made at a global level. Prof Rau thanked Profs Ohshiro and Atsumi again for all their efforts, and said how much he was looking forward to the next 4 years. After thanking everyone for coming and participating, Prof Rau closed the meeting at 17:40.

Respectfully submitted,

**Toshio Ohshiro MD PhD,  
WFSLMS Secretary-General.**



**PLEASE, TAKE OUR TRAM AND COME TO *LASER FLORENCE 2010*, NOVEMBER 5<sup>TH</sup> -6<sup>TH</sup> !**



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