The 9th International Congress on Laser in Dentistry

APCD - São Paulo - Brazil
July 21-24, 2004

Program and Abstract
It is a great pleasure for São Paulo Dental Association to hold the 9th World Congress on Laser in Dentistry. For the first time, Latin America receives this important ISLD meeting and APCD is proud of being its headquarters. The benefits laser brings to all specialties in Dentistry will be addressed here, such as the therapeutic or low power lasers, responsible for effective analgesic or anti-inflammatory actions, as well as stimulating tissue repair, high power or surgical lasers in several areas of Dentistry and LEDs for dental bleaching. From July 21 to 24, Brazilian dentists will have the opportunity to get in contact with professors and researchers on laser in Dentistry and know the most recent advances of laser technology. Our concern is to provide access to this modern technology and make the techniques available to all professionals. Welcome and thank you for your presence.

Guido Maltagliati
President of APCD - São Paulo Dental Association
It is a great responsibility and pleasure to preside one of the most important events of Dentistry in the world. It is the first time this meeting of the International Society for Laser in Dentistry - ISLD - is held in Latin America. The Laser Department of APCD - São Paulo Dental Association - demonstrated to the ISLD Board its interest in organizing this Congress in Brazil. After years of planning, we can now bring to the country the most renowned researchers and professors of laser worldwide. ISLD World Congress will bring the most advanced and modern laser technology, and its benefits to all dental areas. The scientific program will meet the needs of beginners and experts. The wide variety of activities was specially designed to promote the benefits of laser to all dental professionals. The use of laser in the Brazilian Dentistry has increasingly grown, motivated not only by the great scientific evolution and dentists' interest but also the accessible cost of equipment, specially low power lasers and LEDs for dental bleaching. Many of these devices are produced in Brazil by companies that strongly invest in high technology and help to promote a modern domestic Dentistry.

I thank all the people committed to this important event of world Dentistry, who put all their efforts to the success of the Congress.

Prof. Luciano Artioli Moreira
President of the 9th. ISLD Congress
Message from the President, ISLD

The aim of the International Society for Lasers in Dentistry (ISLD) is to serve as a non-profit organization for the exchange, advancement and dissemination of scientific knowledge. Once every two years, ISLD congresses culminate in the gathering of leading practitioners and researchers in laser dentistry, and these have been successfully organized since 1988!

I seek your support and participation for the 9th ISLD Congress to be held in Sao Paolo, Brazil (2004). Those of you who had attended the previous event in Yokohama (Japan) in 2002, would agree with me that these congresses get better, and bigger, each time! As for Brazil, my executive council members and I were present on location in July/August 2003 to witness the detailed preparations of the local organizing committee and the splendid hotel and scientific facilities. You will be charmed by the warm and enthusiastic Brazilian hospitality, and awed by the vast support for this event, from the Brazilian dental associations, dental laser associations and the Ministry of Health!! This is the best to be in so many ways!

On the international front, renowned speakers from around the world would be invited to cover the wide range of laser applications and research. It is a golden opportunity for you to mingle and interact with the leaders of laser dentistry, to share knowledge in a fun-filled program that would be remembered fondly!

See you there,

Prof. LOH Hong Sai
Message from the president-elect of ISLD

In last several years, laser dentistry has markedly improved thanks to recent research and remarkable progress in all fields of laser technology. Laser dentistry has evolved from enlightened basic experiment to scientifically proven clinical procedures. The development of the dental laser has steadily advanced and people are finding comfort and confidence in the treatment of various oral diseases with dental lasers. Dental lasers are the future in dentistry and are becoming more and more widely used by dentists across the world. I know that Brazil is one of the most important countries in which laser dentistry has been rapidly developing. Thus it is reasonable for Brazil that the 9th ISLD congress is held at San Paulo in 2004.

ISLD congresses are held every two years, and attract international delegates from around the world. The first congress took place in 1988 in Tokyo, Japan, under the direction of Professor Emeritus Hajime Yamamoto, who had the foresight to recognize the need for an international event to bring together the world experts on laser dentistry. The ISLD has gone from strength to strength thanks to expert guidance of the four subsequent Presidents, Professor Jacques Melcer of Paris, France, Professor Lynn Powell of Salt Lake City, USA, Professor John W. Frame of England and Professor Loh Hong Sai of Singapore.


On the occasion of the 9th International Congress on Lasers in dentistry, it is an important opportunity to bring together the key players in the field of dental lasers. The 9th ISLD congress will give the high standard and advanced the science and art of laser dentistry by encouraging its study and improving its practice.

On behalf of ISLD and our international visitors to the congress, I thank our colleagues in Brazil for hosting the 9th International Congress on Lasers in Dentistry and look forward to an excellent scientific and social occasion.

Isao ISHIKAWA, DDS, Ph.D.
Professor and ChairSection of Periodontology
Department of Hard Tissue EngineeringGraduate School
Tokyo Medical and Dental University
Welcome to the 9th. International Congress on Laser in Dentistry

To hold this meeting in São Paulo is, undoubtedly, an historical landmark for both Brazil and Latin America dental profession. As ISLD country representative since 1994, we dreamed on holding this important event in our country. This was only possible because of the great effort of our colleagues and unconditional support from both ISLD and APCD, as well as from the Department of Dental Laser.

This Congress is an initiative of APCD, which will allow Dentists to become more familiar with the most advanced knowledge in the field of lasers in Dentistry, enabling them to immediately use the new technology in their clinics. This meeting intends to insert the Brazilian professional on the context of evolution.

Today, the globalization of knowledge is no longer a trend, but a priority for international institutions and research centers, allowing knowledge to be shared by all and making technology available to all professionals. All these factors have a positive impact in Dentistry and will provide evolution of techniques and procedures, improving quality of life of our patients.

In order to interact with this new reality, ISLD and APCD are holding an event that will define a pathway for professionals interested in improving their technical abilities by the mean of using this fascinating new technology.

During the congress, participants will be having the opportunity to share experiences with colleagues from all over the world. One hundred and twenty poster presentations, 94 oral communications and several symposia will gather dentists from more than twenty countries allowing them to share knowledge and increasing friendship and cooperation.

The 9th. International Congress on Laser in Dentistry will provide the resources for those who think evolution is the way to reach knowledge.

We shall thank our invited guests from all over the world whom kindly accepted to come to Brazil to share with their Brazilian counterparts experience and expertise.

It is a great pleasure to welcome all of you to São Paulo.

Please fill at home and enjoy yourself!

Aldo Brugnera Jr. - ISLD Country Representative, Director of APCD Laser Department, CEO and Secretary of the 9th. ISLD, President of SOBRALO - Brazilian Society of Laser in Dentistry

Antonio Pinheiro - ISLD Country Representative, Honorary President and CEO International of the 9th. ISLD
Organizing Committee

Congress Executive Committee

Patron: Humberto Costa (Brazilian Minister for Health)
Honorary President: Antônio Pinheiro (Brazil)
Chairman: Luciano Artioli Moreira (Brazil)
CEO and Secretary: Aldo Brugnera Júnior (Brazil)
Scientific Committee: Jesus Djalma Pécora (Brazil)
Treasurer: Maurício Rufael Matson (Brazil)
Exhibition: Marcelo Maia (Brazil)
Advertisement: Maria Lúcia Zavros Varellis (Brazil)
Hosting: Ielsy Becci Silvério Darcie (Brazil) and Kikuko Otsuki (Brazil)
Social: Maria Teresa Ratto (Brazil)
Rooms - Rodrigo Venticinque (Brazil) and Juliana Saraiva dos Santos (Brazil)
Installation and Materials - André Calllegari (Brazil) and Elizabeth P. Callegari (Brazil)
Posters: Theresa Christina P. Ladalardo (Brazil)

President of APCD
Guido Maltagliati

Past President of APCD
Raphael Baldacci Filho

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Chairman: A.J. Espana Tost (Spain)
Adam Stabholtz (Israel)
Blanca de Grande (Paraguay)
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Jean Paul Rocca (CENALOS)
John W. Frame (UK)
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Leo Stiberman (Argentina)

Marina Consuela Vitale (Italy)
Matthias Frentzen (Germany)
Peter Verheyen (ESOLA)
Philippe Bonin (France)
Siew Tin Ong (Malaysia)
Shin Keun Back (Korea)
Tatjana Dostolová (Czech Republic)
Wolfgang Sperr (Austria)

International Scientific Committee

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Aldo Brugnera Júnior (Brazil)
Gabi Kessler (Israel)
George E. Romanos (Greece)
Harvey Wigdor (USA)
Hideaki Suda (Japan)
Jean Túner (WALT)
Jesus Djalma Pécora (Brazil)
Joel White (USA)
Koukichi Matsumoto (Japan)
Loh Hong Sai (Singapore)
Luciano Artioli Moreira (Brazil)
Manilo Curti (AIOLA)
Marita Luomanen (Finland)
Samir Namour (Belgium)
Tony Zeinoun (Lebanon)
International Society for Lasers in Dentistry (ISLD)

Executive Committee (2002-2004)

President: Hong-Sai Loh (Singapore)
Past President: John W. Frame (UK)
President-Elect: Isao Ishikawa (Japan)
Secretary: Samir Nammour (Belgium)
Treasurer: Norbert Gutknecht (Germany)

2004 ISLD Honorary President: Antonio Pinheiro (Brazil)
2006 ISLD Chairman: Norbert Gutknecht (Germany)

Members:
- Marita Luomanen (Finland)
- Hideaki Suda (Japan)
- Koukichi Matsumoto (Japan)
- Tony Zeinoun (Lebanon)
- George Romanos (Greece)

ISLD COUNTRY / ORGANIZATION REPRESENTATIVES

- Negrin Azarmgin (Luxembourg)
- Badri Azaz (Israel)
- Shin Keum Back (Korea)
- Aldo Brugnera Júnior (Brazil)
- José Correia de Campos (Portugal)
- Igor Cernavin (Australia)
- Carmen Coloja Todea (Romania)
- Donald J. Coluzzi (USA)
- Vitale Marina Consuelo (Italy)
- Carlos de Paula Eduardo (Brazil)
- Mathias Frentzen (Germany)
- Lajos Gaspar (Hungary)
- Saleh Ghabban (Saudi Arabia)
- Leo Stiberman (Argentina)
- Ahmed A. Hassan (Egypt)
- Stephen Hsu (Singapore)
- Mukul Jain (India)
- Won-Hong Lan (Taiwan)
- Marita Luomanen (Finland)
- Shaymant Singh, Makhan (Mauritius)
- Blanca De Grande (Paraguay)
- Tatjana Dostalova (Czech Republic)
- Koukichi Matsumoto (Japan)
- Christopher Mercer (U.K.)
- Ali Obeidi (Iran)
- Samir Nammour (Belgium)
- Mraiwa Nuri (Libya)
- Christliele Pasini P. (Chile)
- Antônio Pinheiro (Brazil)
- Johnny Wong (Hong Kong, China)
- J. Pozniakowski (Canada)
- George Romanos (Greece)
- Marie F. Birtrand (France)
- Wolfgang Sperr (Austria)
- Ferda Tasar (Turkey)
- Anas Tawfiq (Iraq)
- Enrique Tevino (Mexico)
- Antoni J. Espana Tost (Spain)
- Peter Verheyen (Belgium)
- Toni Zeinoun (Lebanon)
- Sami Naanaru (Belgium)
- Carlo Fornaini (Italy)
Local Organizing Committee

Adriana Venticinque Soares
Aldo Brugnera Júnior
Álvaro Vieira Vinhas
Ana Cecília Aranha
Ana Paula Brugnera
André Antoniazzi
André Callegari
Andrêa Mazeli
Antônio Pinheiro
Beatriz Helena de Morais Gava
Camila Souza
Cecília Arantes Marinho
Clóvis Pereira
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Eduardo Milioni Piovesan
Elizabeth P. Callegari
Fabiana Careli de Castro
Fábio Callegari
Fábio Magalhães Cruz
Fátima Zanin
Gisele Kanda Peres Barros
Humberto Costa
Ielsy Becci Silvério Darcie
Jesus Djalma Pécora
Juliana Saraiva dos Santos
Juliana Silva Miranda
Jurema Lisboa Freire de Castro
Karen Muller
Karina F. Ajudarte
Kikuko Otsuki

Leandro Moneti Sanches
Leila Soares Ferreira
Lisiane Soares Ferreira
Luciana David
Luciano Artioli Moreira
Lya Caroline Gonçalves Frias
Marcelo Maia
Márcia Takamoto
Maria Claudia de Andrade
Maria Lucia Dalle Vedove
Maria Lúcia Zarvos Varellis
Maria Teresa Ratto
Mariana Braga Silvério
Mariana Cavatoni
Mario Luiz Botura
Maurício Rufael Matson
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Patricia Silva
Paula V. Dias
Renata da Silva Ramalho
Ricardo de Andrade
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Ronaldo de Souza Valter
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Thais Di Mônaco Oliveira
Thais Helena Cardoso
Thais Zanin
Theresa Christina P. Ladalardo
Vinicius Geraldo Martins
Yara Teresinha Silva Sousa
Supporting Organizations

Organizations
São Paulo Dental Association - APCD
Associação Brasileira de Cirurgiões-Dentistas - ABCD
Brazilian Association of Dental Education - ABENO
Brazilian Academy of Dentistry
Associação Brasileira de Laser em Odontologia - ABLO
Sociedade Nordestina de Pesquisa Odontológica - SNPqO
The International Society for Optical Engineering - SPIE- Brazilian Chapter
Brazilian Society for Lasers in Dentistry - SOBRALO
World Association for Lasertherapy - WALT
International Academy for Laser Medicine and Surgery - IALMS
Academy of Laser Dentistry - ADL
Swedish Medical Laser Society - SMLS
North American Association for Lasertherapy - NAALT
European Society for Oral Laser Applications Association - ESOLA
Belgian Academy of Laser Therapy in Dental Medicine - BALD
Cercle d’Etude National des Aplications Lasers en Odonto-Stomatologie - CENALOS
AIOLA
German Society for Lasers in Dentistry - DGL
Japanese Dental Laser Society - JDLS
Brazilian Society for Dental Research - SBPqO

Supporting Institutions
Ministry of Health of Brazil
Ministry of Science and Technology of Brazil
Ministry of Commerce and Industry
EMBRATUR
São Paulo State Government
City of São Paulo Government
São Paulo State Health Secretary
Paraná State Health Secretary
São Paulo Convention Bureau
Universidade Estadual Paulista - UNESP
Federal University of Bahia
Federal University of Paraíba
Federal University of Ceará
Federal University of Pernambuco
Cruzeiro do Sul University
Camilo Castelo Branco University
University of São Paulo at São Paulo
University of São Paulo at Bauru
University of São Paulo at Ribeirão Preto
Vale do Paraíba University
Ribeirão Preto University
University of Passo Fundo
Universidade do Norte do Paraná
University of Campinas
Tuiuti University
Araras University
Participants Country

<table>
<thead>
<tr>
<th>Country</th>
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<tr>
<td>Brazil</td>
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Past ISLD Congress

1988 **Tokyo, Japan**
Honorary President: Kazuhiko Atsumi, Congress Chairman: Hajime Yamamoto

1990 **Paris, France**
President: Hajime Yamamoto, Congress Chairman: Jacques Melcer

1992 **Salt Lake City, USA**
President: Jacques Melcer, Congress Chairman: Lynn Powel

1994 **Singapore**
President: Lynn Powell, Congress Chairman: Loh Hong-Sai

1996 **Jerusalem, Israel**
President: Lynn Powell, Congress Chairman: Badri Azaz

1998 **Maui, Hawaii, USA**
President: Lynn Powell, Congress Chairman: Lynn Powell

2000 **Brussels, Belgium**
President: Lynn Powell, Congress Chairman: Samir Nammour

2004 **São Paulo, Brazil**
President: Loh Hong Sai, Congress Chairman: Luciano Artioli Moreira

Future ISLD Congress

2006 **Germany**
President: Isao Ishikawa, Congress Chairman: Norbert Gutknecht
ISLD Social Program

Opening Ceremony
July 22nd. 2004 - 5:00 pm
Theater - APCD CENTRAL
Humberto Costa - Brazilian Ministry for Health
Mr. Gilberto Alfredo Pucca, Coordinator of Oral Health in the Ministry of Health, will be present.

Happy Hour
July 21, 22, 23 and 24th. 2004 - 7:00 pm
At Exhibition Hall - APCD CENTRAL

Evening Program
July 22nd. 2004 - 8:00 pm
At Rey Castro Cuban Bar and Restaurant
Address: Rua Ministro Jesuino Cardoso, 181 - Vila Olimpia
Tel: (11) 3842-5279 / 3044-0716 - www.reycastro.com.br
This two-storey theme space reproduces the real Cuban bars and restaurants. Three colored little houses (Little Havana) with a central yard accommodate the Cigar's Place, Main Room and VIP Mezzanine. Next to it, a real Havana Vieja, the old downtown in Havana. Typical Latin music, featuring Banda Espirito Cigano.

July 23rd. 2004 - 10:00 pm
at Santa Faria Lounge
Address: Ave. Faria Lima, 4531 - Vila Olimpia
Tel: (11) 3845-2018 - www.santafaria.com.br
The house has three different spaces (dancing floor, boxes and lounge). Featuring several attractions such as pop rock live show, barmen and fire-eaters performances. A variety of musical styles: black, electronic and disco music.

Gala Dinner
July, 23rd. 2004 - 8:30 pm
At Maksoud Plaza Hotel
Address: Alameda Campinas, 150
Great Ballroom
Full Dress
Invitations can be bought at VIP Room - APCD CENTRAL
SEM - Scanning Electron Microscopy - Exhibit
Prof. Ii - Sei Watanabe
At Exhibition Hall - APCD CENTRAL

This exhibit shows the structures of the oral cavity, the components of tissues and cells using high resolution and transmission scanning electron microscopy (SEM). Usually, the conventional SEM permits tissue observation in its general aspects in small increments up to 10,000 X. The preparation method is also different, using modified Karnovsky solution.

In high resolution SEM, the solution used is direct 2% osmium tetroxide, followed by a maceration process from 48 up to 72 hours.

In the conventional method, the sample is introduced in the device's chamber and images are captured through secondary electrons. In high resolution SEM, the samples are small, introduced between lenses.

Magnification in high resolution SEM ranges from 10,000 X up to 200,000 X or more. A magnification around 800,000 X has already been obtained.

Therefore, data shown in the photographs illustrate the ultra-structure details of cells and organelles, aiming a morphofunctional interpretation.

Housing and Travel Information

Hotel. Transportation and Tours
Tour Office Brazil

www.tob.com.br - tob@tob.com.br
Phone: 55-11-5539-7766
Fax: 55-11-5571-8901
<table>
<thead>
<tr>
<th>EXHIBITOR</th>
<th>ADDRESS</th>
<th>FONE</th>
<th>E-MAIL/URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carci Ind. e Comércio de Aparelhos Cirúrgicos e Ortopédicos Ltda.</td>
<td>Rua Alvarezd Faguandes, 359</td>
<td>55 - (11) 3346-2100</td>
<td><a href="mailto:orlando.carvalho@carci.com.br">orlando.carvalho@carci.com.br</a></td>
</tr>
<tr>
<td>D.M.C Equipamentos Ltda.</td>
<td>Rua Sebastião de Moraes, 831, 13562-030 - São Carlos - SP</td>
<td>55 - (10) 3376-1313</td>
<td><a href="mailto:rmaissini@terra.com.br">rmaissini@terra.com.br</a></td>
</tr>
<tr>
<td>Dental Moretti Artigos Dentários Ltda.</td>
<td>R. Felipe Camará, 525</td>
<td>55 - (11) 6190-5599</td>
<td><a href="http://www.dentalmoretti.com.br">www.dentalmoretti.com.br</a></td>
</tr>
<tr>
<td>Dentoflex Com. e Ind. de Materiais Odontológicos Ltda.</td>
<td>Rua Lino Coutinho, 634 - Ipiranga 04070-000 - São Paulo</td>
<td>55 - (11) 6165-2155</td>
<td><a href="http://www.dentoflex.com.br">www.dentoflex.com.br</a> <a href="mailto:dentoflex@dentoflex.com.br">dentoflex@dentoflex.com.br</a></td>
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<tr>
<td>Ecco Fibras e Dispositivos Ltda.</td>
<td>Rua Alfredo da Costa Figo, 280</td>
<td>55 - (19) 3256-7749</td>
<td><a href="mailto:carol@eccofibras.com.br">carol@eccofibras.com.br</a> / <a href="mailto:henriquejunior@eccofibras.com.br">henriquejunior@eccofibras.com.br</a></td>
</tr>
<tr>
<td>FGM Produtos Odontológicos Ltda.</td>
<td>Av. Edgar Nelson Meister, 474 - Distrito Industrial 89219-501 - Joinville - SC</td>
<td>55 - (47) 441-6100</td>
<td><a href="http://www.fgm.ind.br">www.fgm.ind.br</a> <a href="mailto:marketing@fgm.ind.br">marketing@fgm.ind.br</a></td>
</tr>
<tr>
<td>Fórmula &amp; Ação</td>
<td>Rua Bartolomeu de Gusmão, 350</td>
<td>55 - (11) 5084-8321</td>
<td><a href="http://www.formulaeacao.com.br">www.formulaeacao.com.br</a> <a href="mailto:formulaeacao@formulaeacao.com.br">formulaeacao@formulaeacao.com.br</a></td>
</tr>
<tr>
<td>Kavo do Brasil Industria e Comércio Ltda.</td>
<td>Rua Chapeço, 80 - Sagnagu 89221-040 - Joinville - SC</td>
<td>55 - (47) 451-0210</td>
<td><a href="http://www.kavo.com.br">www.kavo.com.br</a> <a href="mailto:maira@kavo.com.br">maira@kavo.com.br</a></td>
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<td>Kondortech Equipamentos Odontológico Ltda.</td>
<td>Rua Gaústa Vieira, 471 13563-410 - São Carlos - SP</td>
<td>55 - (16) 3373-7790</td>
<td><a href="http://www.kondortech.com.br">www.kondortech.com.br</a> <a href="mailto:kondortech@kondortech.com.br">kondortech@kondortech.com.br</a></td>
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<td>Lasering do Brasil Ltda.</td>
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<td>Physical-Sul Comercio de Aparelhos Medicos Hospitalares Ltda.</td>
<td>Rua Júlio Cezar Zanetti, 288 86062-636 - Londrina - PR</td>
<td>55 - (43) 3348-6058</td>
<td><a href="mailto:phy-sul@sercomtel.com.br">phy-sul@sercomtel.com.br</a></td>
</tr>
<tr>
<td>Zap Lasers do Brasil Ltda.</td>
<td>Av. Rouxinol, 55 - cj. 22 04520-013 - São Paulo - SP</td>
<td>55 - (11) 3054-9340</td>
<td><a href="http://www.zaplasers.com">www.zaplasers.com</a> <a href="mailto:zapbrasil@zaplasers.com">zapbrasil@zaplasers.com</a>; <a href="mailto:adsessia@zaplasers.com">adsessia@zaplasers.com</a></td>
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Exhibition Hall
## Program at a Glance

### PRE-CONGRESS - 07/21/2004 - Wednesday

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>9h00 - 12h30</td>
<td><strong>PRE-001</strong> “The use of surgical laser in dentistry and dental bleaching”&lt;br&gt;Carro Antônio Aze (Brazil), Nitza Mirtha Marchesan (Brazil)&lt;br&gt;Crista Fonseca (Brazil)&lt;br&gt;Coordinator: Waldir Antônio Jorge (Brazil)</td>
<td><strong>PRE-002</strong> “Lasertherapy in Dentistry”&lt;br&gt;Theoza Ladeira (Brazil), Mónica Martins Marques (Brazil)&lt;br&gt;Walder João Gomes (Brazil)&lt;br&gt;Coordinator: Ana Elisa Castanho Garine (Brazil)</td>
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### OFFICIAL PROGRAM

#### CONFERENCES - AUDITORIUM

<table>
<thead>
<tr>
<th>Date</th>
<th>Thursday</th>
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<tr>
<td>07/22/2004</td>
<td>“Past, present and future of laser in dentistry”&lt;br&gt;Loh-Heng Ee (Singapore)&lt;br&gt;“Potential applications of Er:YAG laser in periodontics”&lt;br&gt;Isao Shibeta (Japan)&lt;br&gt;“Laser welding in Dentistry”&lt;br&gt;Takashi Mitsuishi (Japan)&lt;br&gt;Coordinators: Loh Heng Ee (Singapore)&lt;br&gt;Jesu del Tambo Pesuara (Brazil)&lt;br&gt;CON - 001</td>
<td>“Lasertherapy and bone regeneration”&lt;br&gt;Martina Geer (Brazil)&lt;br&gt;“New aspects in hard tissue treatment with Er:YAG lasers”&lt;br&gt;Nobert Gauthier (Germany)&lt;br&gt;“Evolution of the use of the laser in Endodontics”&lt;br&gt;Carlos Eduardo Aze (Brazil)&lt;br&gt;Coordinators: Samir Hammar (Belgium)&lt;br&gt;Wagner Jose Calmon (Brazil)&lt;br&gt;CON - 002</td>
</tr>
<tr>
<td>07/23/2004</td>
<td>“ER:YAG laser ablation – a 5 year follow-up – laser dental bleaching”&lt;br&gt;Tajana Dostálová (Czech Republic)&lt;br&gt;“Dental bleaching using laser and Blue LEDs”&lt;br&gt;Fátima Zarin (Brazil)&lt;br&gt;Coordinators: Marta Lomander (Finland)&lt;br&gt;Renata Margulhão (Brazil)&lt;br&gt;CON - 006</td>
<td>“Fifteen years of research, clinic and teaching in laser technology Dentistry”&lt;br&gt;Carlos de Paula Edurado (Brazil)&lt;br&gt;“Laser and Pediatric Dentistry”&lt;br&gt;Manuel C. Vitorino (Brazil)&lt;br&gt;Coordinators: Leo Silberman (Argentina)&lt;br&gt;Sieni Zarin (Brazil)&lt;br&gt;CON - 009</td>
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<th>Date</th>
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<tr>
<td>07/24/2004</td>
<td>“Laser supported Dentistry - The way into future”&lt;br&gt;Volfgang Speer (Austria)&lt;br&gt;“Structural and cellular biology of laser wound repair”&lt;br&gt;Martti Lomander (Finland)&lt;br&gt;“The reality of laser and LEDs in Brazil: Therapeutic, surgical and dental bleaching”&lt;br&gt;Luciano Artoli Moreira (Brazil)&lt;br&gt;Coordinators: George Romanos (Greece)&lt;br&gt;Maria Lucia A. Vieira (Brazil)&lt;br&gt;CON - 003</td>
<td>Treatment of periodontitis with an ER:YAG Laser - Evolution of experimental and clinical studies&lt;br&gt;FranzScheppe (Germany)&lt;br&gt;“A new ER:YAG laser technology – possibilities for a dental chair integration”&lt;br&gt;Frieders Dinkel (Germany)&lt;br&gt;Coordinators: Tony Zelinov (Ukraine)&lt;br&gt;Fabio Magalhães (Brazil)&lt;br&gt;CON - 010</td>
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<td>07/25/2004</td>
<td>“Detection of carious and subgingival calculi with fluorescence light and controlled selective laser removal”&lt;br&gt;Robert Galt (Germany)&lt;br&gt;“Research on lasers endodontics: State of the Art”&lt;br&gt;José Luiz Lage Marques (Brazil)&lt;br&gt;“Application of the Er:YAG laser for esthetic management of periodontal soft tissues”&lt;br&gt;Alena Aska (Japan)&lt;br&gt;Coordinators: Tajana Dostálová (Czech Republic)&lt;br&gt;Martta Lomander (Finland)&lt;br&gt;CON - 007</td>
<td>“Laser therapy for treating dental hypersensitivity”&lt;br&gt;Therion Ladeira (Brazil)&lt;br&gt;“Immunohistochemical and ultrastructural studies in healing laser secession wounds”&lt;br&gt;Tony Zelinov (Ukraine)&lt;br&gt;“Hard Tissue – Laser Interaction”&lt;br&gt;Leo Silberman (Argentina)&lt;br&gt;AWARDING AND CLOSING CEREMONY&lt;br&gt;Coordinators: Iain Iwabukuro (Japan)&lt;br&gt;Fábio Magalhães (Brazil)&lt;br&gt;CON - 011</td>
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#### OPEN CEREMONY

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<tr>
<td>5h15 - 6h45</td>
<td>“The laser assisted prosthetic treatments in dentistry”&lt;br&gt;Francesco Santoro (Italy)&lt;br&gt;“Biomodulatory effect of lasertherapy – clinical indications in Dentistry”&lt;br&gt;Ali Hwang (Japan)&lt;br&gt;“Phototherapy is effective to improve wound healing of cutaneous wounds on nourished and undernourished Wistar rats”&lt;br&gt;Antonia Pires (Brazil)&lt;br&gt;Coordinators: Norbert Gutknecht (Germany)&lt;br&gt;Samartha Seals (Brazil)&lt;br&gt;CON - 008</td>
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<tr>
<td>SYMPOSIAm AND ORAL PRESENTATIONS - CONFERENCE ROOMS “B” and “C”</td>
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<td><strong>July 22nd</strong></td>
<td><strong>July 23rd</strong></td>
<td><strong>July 24th</strong></td>
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<tr>
<td><strong>9h00 a.m. to 11h00 a.m.</strong></td>
<td><strong>Oral Presentations</strong></td>
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<tr>
<td><strong>OP16 to OP23</strong></td>
<td><strong>OP39 to OP46</strong></td>
<td><strong>OP77 to OP64</strong></td>
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<td><strong>Room B</strong></td>
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<tr>
<td><strong>Coordinators:</strong> Keiji Yoshida (Japan)</td>
<td><strong>Coordinators:</strong> Joao B. B. Wainer (Brazil) Francisco S. Pimentel Junior (Brazil)</td>
<td><strong>Coordinators:</strong> Aparecida Marques (Brazil) Fabio M. Cruz (Brazil)</td>
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<td><strong>SIM-001 Room B</strong></td>
<td><strong>SIM-004 Room C</strong></td>
<td><strong>SIM-002 Room C</strong></td>
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<tr>
<td><strong>11h30 a.m. to 01h15 p.m.</strong></td>
<td><strong>Oral Presentations</strong></td>
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<td><strong>OP24 to OP30</strong></td>
<td><strong>OP54 to OP52</strong></td>
<td><strong>OP63 to OP91</strong></td>
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<tr>
<td><strong>Coordinators:</strong> Mário Carli (France)</td>
<td><strong>Coordinators:</strong> Lúcio Vital (Brazil)</td>
<td><strong>Coordinators:</strong> Gisela Maués (Brazil)</td>
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<tr>
<td><strong>SIM-001 Room B</strong></td>
<td><strong>SIM-004 Room C</strong></td>
<td><strong>SIM-002 Room C</strong></td>
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<tr>
<th>SYMPOSIAm AND ORAL PRESENTATIONS - Conference Rooms “B” and “C”</th>
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<tr>
<td><strong>July 22nd</strong></td>
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<tr>
<td><strong>02h30 p.m. to 04h30 p.m.</strong></td>
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<tr>
<td><strong>OP1 to OP8</strong></td>
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<td><strong>Room B</strong></td>
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<tr>
<td><strong>Coordinators:</strong> Jean Paul Rocca (France)</td>
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<td><strong>SIM-002 Room C</strong></td>
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<tr>
<th>SPECIAL TIME OF THIS ACTIVITY FROM 08h00 p.m. TO 09h00 p.m.</th>
<th>SPECIAL TIME OF THIS ACTIVITY FROM 09h15 p.m. TO 10h15 p.m.</th>
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<td><strong>Oral Presentations</strong></td>
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<tr>
<td><strong>OP9 to OP15</strong></td>
<td><strong>OP68 to OP76</strong></td>
<td><strong>OP9 to OP95</strong></td>
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<tr>
<td><strong>Coordinators:</strong> D.J. Arruda (Spain)</td>
<td><strong>Coordinators:</strong> Luciana A. Lopes (Brazil) Selma Camargo (Brazil)</td>
<td><strong>Coordinators:</strong> Luciana A. Lopes (Brazil) Selma Camargo (Brazil)</td>
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<td><strong>SIM-005 Room B</strong></td>
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<tr>
<th>“New use of laser in dentistry, endodontics and reconstructive surgery”</th>
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<td><strong>July 22nd</strong></td>
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<tr>
<td><strong>05h15 p.m. to 07h00 p.m.</strong></td>
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<td><strong>Oral Presentations</strong></td>
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<td><strong>OP9 to OP15</strong></td>
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<td><strong>Coordinators:</strong> Manoel Ferreira (Brazil)</td>
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<td><strong>SIM-003 Room B</strong></td>
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<td><strong>22/07/2004</strong></td>
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<td>9h00 às 11h00</td>
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**Coordenadores:**
- Jean Paul Rocha (França)
- Rodrigo Venturinico (Brasil)
- Luciana Almeida Lopes (Brasil)
- Walter João Gertovets (Brasil)
- Luciano Hirakawa Atzevedo (Brasil)
- Marley Carde (Brasil)
- Márcio C. Wyle (Itália)
- Dilmara Souza Carpes (Brasil)
- André Cardoso da Silva (Brasil)
- Manoel J. A. Lopes (Brasil)
- Seina Camargo (Brasil)
- Victor Eduardo Roigari (Brasil)