Preleminary program

BRUSSELS INTERNATIONAL SYMPOSIUM
17th year

THE PAEDIATRIC HAND

SPECIAL EMPHASIS ON
PAEDIATRIC TRAUMAS AND
INFECTIONS, TUMORS,
CONGENITAL DIFFERENCES,
SPASTICITY

Genval/Brussels, Belgium
February 6-7, 2009

Program Director
F. Schuind, MD, PhD
Department of Orthopaedics and Traumatology
Erasme University Hospital
Route de Lennik 808, B-1070 Brussels, Belgium
Tel. +32 2 555 68 44, +32 2 555 36 45
Fax +32 2 555 83 60
E-mail: Hand.congress@ulb.ac.be

Meeting place:
Château du Lac
Avenue du Lac 87, B-1332 Genval, Belgium
Tel. +32 2 655 71 11 - Fax +32 2 655 74 44
E-mail: seminars.cdl@martinshotels.com
The first annual Brussels/Genval Upper Extremity Symposium, held in May 1992, was on Advances in Hand and Wrist Biomechanics. Since this first meeting, the Château du Lac at Genval has hosted, each spring, the Brussels Hand/Upper Extremity Symposium, dedicated to a specific interdisciplinary topic involving the hand and the upper limb. Each meeting has been attended by 80-150 participants from 15-25 different countries.

In 2009, the topic will be paediatric hand surgery, which has not attracted in recent years the attention it deserves, which is quite unfortunate given the fact that many hand traumas occur in children, and that the majority of congenital differences affect the hand.

The first part of the Symposium will indeed deal with upper extremity paediatric traumatology and infections. Many children fall while playing. Teenagers suffer from sporting injuries, most commonly seen in biking, football and basketball. Fractures below the elbow account for about 1.5% of all cases seen in emergency departments, with distal radius-ulna fractures comprising the largest proportion; about one quarter of these lesions affect children. While most fractures are benign (but controversies remain about the optimal treatment), some affect the physis and may lead to long-term sequellae. Fractures of the carpal bones are rare but do occur in children; scaphoid nonunions are occasionally seen. Phalangeal fractures present special problems in children, in particular fractures of the proximal metaphysis of P1, and physeal and crush injuries of P3. More proximally, fractures at the elbow present specific problems, and may lead to serious and sometimes dramatic complications, including nerve lesions, non-union, malunion, epiphysiodesis, radial head dislocation or Volkmann’s ischemic contracture. Although their aetiology is unclear – and trauma seems to play a role in many cases – upper extremity osteonecroses are seen in children and arise particular problems. Paediatric flexor tendon injuries are rare but present specific problems, for diagnosis, surgery, rehabilitation and outcome evaluation. In particular, a debate remains about instituting in this age group an active motion program. Replantation of amputated fingers parts, although technically difficult, shows remarkable success rates in children. Electrical burns can cause extensive necrosis.

Hand infections present as well specific problems in the paediatric population. Some serious infections are the consequence of chronic nail biting or thumb sucking. While in the adult population the majority of cultured microorganisms from hand infections are Staphylococci aureus, Streptococcus pyogenes and anaerobic infections seem to be more frequent in children, requiring an adapted antibiotic regimen, beside the surgical treatment.

Upper extremity tumors will be reviewed and discussed in the second part of the Symposium. While the majority of tumors are benign, malignant tumors such as osteosarcoma, Ewing’s sarcoma, the rare chondrosarcoma, and soft-tissue sarcomas may be seen at the upper extremity, with a still significant mortality rate. The most recent algorithms of treatment of these quite serious lesions will be presented.

The third part of the Symposium will deal with congenital differences. These affections are characterized by important clinical and genetic heterogeneity. Associated organ abnormalities are frequent, and various complex syndromes have been identified. The international classifications are not always satisfactory. After the eventual genetic advice, the treatment has to be customized to the particular child. The surgical program should be proposed to the parents already in the neonatal period, with the aim to allow postoperative cortical reorientation, and if possible to get as normal as possible hands before the begin of school. Special problems will be discussed at the Symposium, including the indications of free toe transfers in symbrachydactyly and other failures of formation (and the difficulties to convince the parents to harvest tissue from the normal foot), the possible indications in the future of composite vascularized allo-transplantations, the difficulties of microvascular reconstructions in young children, postoperative rehabilitation, the indications and acceptance of aesthetic or functional prostheses, as well as the lasting psychosocial consequences of congenital hand differences within the context of the emotional responses of the parents. Some vascular malformations of the upper extremity continue to represent a real therapeutic challenge to the surgeon.

A special part of the Symposium will focus on upper extremity spasticity as a result of cerebral palsy or brain surgery at later age. The treatment should be based, not only on the motor deficiencies and contractures, but also on the existence – or not – of discriminatory sensibility and on the intelligence and motivation of the child. There remain nowadays surgical indications, despite the wide use of botulinum toxin.

Other problems will be discussed as well, for example non-operative and operative treatment of arthrogryposis, upper extremity distraction lengthening in achondroplasia or other bone conditions (the technique is also used in various congenital differences), the techniques of regional anaesthesia in young children, or specific techniques of rehabilitation. As always, the Symposium will try to link clinical problems to basic knowledge, and time will be kept to discuss aspects of embryology, development and maturation of the nerves and skeleton (including normal radiologic variants), and progressive acquisition of hand function.
The primary goals of the Brussels/Genval annual upper extremity Symposium, gathering together in a first-class resort close to Brussels experts from different fields (the previous Symposia have been attended by orthopaedic, plastic and general surgeons, anatomists, physiotherapists, rheumatologists, anesthesiologists, pain specialists, radiologists, nuclear medicine scientists, immunologists, pathologists, engineers and basic scientists – we hope as well to attract in 2009 paediatric surgeons), are to promote the exchange of ideas, to establish guidelines on a consensual basis, and to foster collaborative investigations among various specialists. Much time will be set aside for the discussions. Participants are invited to present clinical cases, to be discussed with the invited experts and attendees during round table discussions. Note that the Symposium will not cover obstetrical brachial plexus lesions, which have been the topic of previous Symposia (2004 and 2005).

SPECIFIC AIMS

• To summarize the state of knowledge of foetal and paediatric development of the hand and upper extremity;
• To discuss new concepts and protocols of treatment of hand traumas, infections, tumors, and congenital and neurological conditions;
• To discuss basic research as related to the paediatric hand, including in teratology;
• To discuss rehabilitation and to determine the most appropriate methods for objective assessment of the results in children;
• To formulate on these bases recommendations to the medical community;
• To discuss unsolved problems and potential solutions;
• To explore future directions of investigation.

INTERNATIONAL FACULTY

J. Bahm (Aachen, Germany)
O. Barbier (Brussels, Belgium)
M. Bellemans (Brussels, Belgium)
W. Boeckx (Brussels, Belgium)
A. Carlier (Liège, Belgium)
L. De Borre (Brussels, Belgium)
L. De Smet (Pellenberg, Belgium)
Ph. Debeer (Leuven, Belgium)
I. Degroof (Pellenberg, Belgium)
D. Egloff (Lausanne, Switzerland)
W. El Kazzi (Brussels, Belgium)
M. Gebhart (Brussels, Belgium)
S. Hovius (Rotterdam, The Netherlands)
M. Innocenti (Firenze, Italy)
S. Kay (Leeds, United Kingdom)
U. Lanz (Bad Neustadt, Germany)
P. Loréa (Strasbourg, France)
J.P. Moermans (Brussels, Belgium)
P. Pandin (Brussels, Belgium)
J. Quintin (Brussels, Belgium)
M. Rooze (Brussels, Belgium)
F. Schuind (Brussels, Belgium)
F. Stockmans (Kortrijk, Belgium)
P. van Bogaert (Brussels, Belgium)
C. Vilain (Brussels, Belgium)

SCIENTIFIC DIRECTORS

J. Bahm (Aachen, Germany)
L. De Smet (Pellenberg, Belgium)
W. El Kazzi (Brussels, Belgium)
F. Schuind (Brussels, Belgium)
<table>
<thead>
<tr>
<th>Time</th>
<th>February 5 (Thursday)</th>
<th>February 6 (Friday)</th>
<th>February 7 (Saturday)</th>
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<tr>
<td>07.30</td>
<td>Registration – Coffee and Croissants</td>
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<tr>
<td>08.00</td>
<td>Session 1: An Introduction to the Symposium</td>
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<td>Session 7: Tumors</td>
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<td>09.20</td>
<td>Coffee-Break and visit of the Commercial Exhibit</td>
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<td>10.30</td>
<td>Session 8: Nerve Problems</td>
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<td>11.20</td>
<td>Session 2: Infections</td>
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<td>Session 3: Open Hand and Upper Extremity Paediatric Traumas</td>
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<td>Lunch and Visit of the Commercial Exhibition</td>
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<td>Session 4: Fractures, Dislocations and Malunions</td>
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<td>Session 10: Congenital Differences (2)</td>
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<td>16.00</td>
<td>Congress Registration, Château du Lac of Genval</td>
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<td>16.30</td>
<td>Session 5: Contractures, Compartment Syndromes, Spasticity</td>
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<td>Session 11: Congenital Differences (3)</td>
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<td>18.00</td>
<td>Session 12: Round Table and Case Presentations: Congenital Differences, Summary and General Conclusions of the Symposium</td>
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<tr>
<td>18.15</td>
<td>Session 6: Round Table and Case Presentations: Hand/Upper Extremity Traumas, Infections, Contractures and Spasticity</td>
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<td>Social Program (optional)</td>
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<td>18.45</td>
<td>Cocktail in the Château</td>
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<tr>
<td>19.30</td>
<td>Free evening</td>
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Program

Thursday, February 5, 2009

16.00-19.30 Congress Registration, Château du Lac of Genval

Friday, February 6, 2009

07.30-08.00 Registration – Coffee and Croissants

08.00-10.30 Session 1: An Introduction to the Symposium
(Moderators: L. De Smet, U. Lanz)

08.00 Opening Address
F. Schuind (Brussels, Belgium)

08.10 "Adult" Hand Pathology in Children
I. Degrieef (Leuven, Belgium)

08.25 Upper Limb Pediatric Regional Anesthesia: What Else?
P. Pandin (Brussels, Belgium)

08.40 Fatal Errors in Paediatric Hand Surgery
K. Kalb, J. van Schoonhoven, K.-J. Prommersberger (Bad Neustadt/Saale, Germany)

08.50 Early and Late Management of Complex Hand Injuries in Children
E. Vögelin (Bern, Switzerland)

09.00 Principles of External Fixation in Paediatric Orthopaedics
J. Quintin, F. Burny, M. Donkerwolcke, W. El Kazzi, F. Schuind (Brussels, Belgium)

09.15 Functional Free Gracilis Muscle Transfer
J. Bahm (Brussels, Belgium and Aachen, Germany)

09.25 Classification for Congenital Anomalies of the Hand: the IFSSH classification and the JSSH Modification
L. De Smet (Leuven, Belgium)

09.40 Microvascular Reconstructions in Children
S. Kay (Leeds, United Kingdom)

10.05 Discussion

11.00 Coffee-break and Visit of the Commercial Exhibition

09.55 Feasibility of Hand Allograft in Agenesic Newborn

11.20 Avoiding Limb Necrosis in Meningococcal Sepsis by Performing an Early Arteriolysis
W. Boeckx, C. Zirak, D. Franck, K. Gorissen, P. Leroy, G. Vos (Brussels, Belgium and Maastricht, The Netherlands)

11.40 Paediatric Hand Injuries Resulting from Dog Bites
R. Nayar, H. Tehrani, P. Brackley, C. Duncan, K. Graham, P. McArthur (Merseyside, United Kingdom)

11.50 Discussion

11.55 Acute Injuries of the Hand in Children and Adolescents
A. Zyluk, I. Walaszek (Szczecin, Poland)

12.05 Discussion

12.10 Elevator and Escalator-Related Injuries in Children
O. Reinberg (Lausanne, Switzerland)

12.20 Discussion

12.25 Lunch and Visit of the Commercial Exhibition
**Session 4: Fractures, Dislocations and Malunions**
(Moderators: J. Quintin, I. Degreef)

14.00 Displaced Fracture of the Distal Humerus Epiphysis in the Newborn Infant
L. De Smet, I. Degreef (Leuven, Belgium)

14.10 Discussion

14.15 Fractures in Children´s Hands - our Concept of Treatment
W. Hülsemann (Hamburg, Germany)

14.25 Suitable Dressings in Paediatric Hand Injuries
R. Nayar, P. McArthur (Merseyside, United Kingdom)

14.35 Discussion

14.45 Titanium Elastic Nail Fixation of Brachial Fractures in Children
T. Kassai (Péterfy, Hungary)

14.55 Application of External Fixation in Treatment of Open and Closed Hand Traumas in Children
N. Shikaleva (Kurgan, Russia)

15.05 Discussion

15.15 Radiologic Aspects of the Distal Humerus
M. Bellemans (Brussels, Belgium)

15.30 Discussion

15.35 Radial Head Dislocations
W. El Kazzi, J. Bahm, J. Quintin, F. Schuind (Brussels, Belgium)

15.50 Missed Monteggia Fractures in Children, Treatment by Open Reduction and Ulnar Osteotomy
I. Degreef (Leuven, Belgium)

16.00 Discussion

16.10 Coffee-Break and Visit of the Commercial Exhibit

**Session 5: Contractures, Compartment Syndromes, Spasticity**
(Moderators: P. van Bogaert, S. Kay)

16.30 Neonatal Soft Tissue Contracture: Report of Two Cases
L. De Smet, Ph. Debeer, I. Degreef (Leuven, Belgium)

16.40 Newborn Compartment Syndrome and Resulting Volkmann’s Contracture
W. Hülsemann (Hamburg, Germany)

16.50 Discussion

17.00 Functional Treatment of Upper Extremity Dystonia and Spasticity
L. De Borre (Brussels, Belgium)

17.15 Surgical Treatment of the Upper Limb in Children with Cerebral Palsy
I. Degreef (Leuven, Belgium)

17.25 Botulinum Toxin Treatment of the Biceps Brachii Muscle in Children with Cerebral Palsy Causes Muscle Tissue Generation
E. Pontén, S. Gantelius, S. Arnardottir (Stockholm, Sweden)

17.35 Tendon Transfer Surgery on Children with Cerebral Palsy Improves Bimanual Hand Function Measured with Assisting Hand Assessment (AHA)
E. Pontén, C. Ekholm, A-Ch. Eliasson (Stockholm, Sweden)

17.45 Discussion

18.00 Wrist Shortening Arthrodesis
W. El Kazzi, J. Quintin, J. Bahm, F. Schuind (Brussels, Belgium)

18.10 Discussion

18.15-18.45 **Session 6: Round Table and Case Presentations: Hand/Upper Extremity Traumas, Infections, Contractures and Spasticity**
(Moderators: J. Bahm, W. El Kazzi)

18.45 Cocktail in the Château

19.30 Free Evening
### Saturday, February 7, 2009

#### Session 7: Tumors
(Moderators: M. Gebhart, M. Innocenti)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08.00</td>
<td>Paediatric Hand Malignancies: from Diagnosis to Treatment</td>
<td>M. Gebhart, F. Shumelinsky (Brussels, Belgium)</td>
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<tr>
<td>08.15</td>
<td>Discussion</td>
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<tr>
<td>08.20</td>
<td>Congenital Infantile Fibrosarcoma Mimicking Ulcerated Hemangioma</td>
<td>E. Vögelin, Th. Slongo, K. Leibundgut (Bern, Switzerland)</td>
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<tr>
<td>08.30</td>
<td>Discussion</td>
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<tr>
<td>08.35</td>
<td>Microvascular Bone Reconstruction after Sarcoma Resection in Children</td>
<td>M. Innocenti (Firenze, Italy)</td>
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<td>08.50</td>
<td>Discussion</td>
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<td>08.55</td>
<td>Fibromatous Disorders of the Palms and Soles in Children</td>
<td>R. Lester (Birmingham, United Kingdom)</td>
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<td>09.05</td>
<td>Juvenile Hyaline Fibromatosis of the Hand</td>
<td>W. Waskiewicz, M. S. Pehlivan, S. P. Moermans</td>
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<td>09.15</td>
<td>Discussion</td>
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#### Session 8: Nerve Problems
(Moderators: J. Bahm, F. Stockmans)

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<tr>
<td>09.20</td>
<td>What’s Wrong with this Nerve: Pre or Peroperative Electrophysiological Assessment</td>
<td>P. Pandin (Brussels, Belgium)</td>
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<tr>
<td>09.30</td>
<td>Carpal Tunnel Syndrome in Children</td>
<td>N. Van Meir, L. De Smet (Liège, Leuven, Belgium)</td>
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<td>09.40</td>
<td>Is macrodactyly nerve driven?</td>
<td>L. De Smet (Leuven, Belgium)</td>
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<td>10.00</td>
<td>Discussion</td>
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<td>10.10</td>
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<td>11.40</td>
<td>Thumbs Abnormalities, Radial Dysplasia</td>
<td>S. Hovius (Rotterdam, The Netherlands)</td>
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<td>Discussion</td>
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<td>12.00</td>
<td>Toe Transfers for Digital Absence</td>
<td>S. Kay (Leeds, United Kingdom)</td>
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<td>Discussion</td>
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<td>12.20</td>
<td>Outcome of Index Finger Pollicisation</td>
<td>L. Ceulemans, I. Degre, Ph. Debeer, L. De Smet (Leuven, Belgium)</td>
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<td>12.30</td>
<td>Discussion</td>
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<td>12.40</td>
<td>Phalangeal Lengthening</td>
<td>F. Stockmans (Kortrijk, Belgium)</td>
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<td>12.50</td>
<td>Free Toe Phalanx Transplantation for Finger Construction in Children</td>
<td>U. Lanz (Bad Neustadt, Germany)</td>
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<td>14.00</td>
<td>Radial Shift of the Ulnar Fingers: a New Technique for Special Cases of Longitudinal Central Deficiency</td>
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<td>14.15</td>
<td>Syndactyly Correction: an Aesthetic Reconstruction</td>
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<td>Discussion</td>
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<td>14.30</td>
<td>Apert Syndrome</td>
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<td>Discussion</td>
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<td>14.45</td>
<td>Camptodactyly as a Spectrum of Congenital Deficiencies: A Treatment Algorithm Based on Clinical Examination</td>
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<td>15.05</td>
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<td>15.15</td>
<td>Long Term Functional Evaluation after Surgery for Congenital Thumb Duplication</td>
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<td>15.50</td>
<td>Unsuccessful Reconstruction of Thumb Polydactyly: A Case Report</td>
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<td>16.00</td>
<td>Discussion</td>
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<td>16.05</td>
<td>Do Excised Accessory Digits Require Speciality Follow-Up?</td>
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<td>Session 11: Congenital Differences (3)</td>
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<td>16.35</td>
<td>Aggressive Reduction Technique in One Stage for Macrodactyl of the Thumb</td>
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<td>16.45</td>
<td>Unilateral Hand Hyperplasia</td>
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<td>17.00</td>
<td>Dysplasia Epiphysealis Hemimelica of the Hand: Two Cases at the Proximal Interphalangeal Joint</td>
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<td>Vascular Anomalies of the Peripheral Limbs: Experience and Comparisons</td>
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<td>18.00</td>
<td>Social Program: optional</td>
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Congress Information

Venue
Château du Lac, avenue du Lac 87
B-1332 Genval, Belgium
Tel.: +32 2 655 71 11 – Fax: +32 2 655 74 44
E-mail: seminars.cdl@martinshotels.com

Language
English.

Information for Presenters
The allocated time of presentation should be strictly respected (10 min for most free papers).

The standard presentation format is by computer. The audiovisual projection system in the meeting room will include a Personal Computer (PC) along with PowerPoint for Windows and a standard CD-ROM drive and USB port. Request to use any equipment other than this must be arranged at the presenter’s expense.

Each presenter should check with the technician 20 min. before the session, and introduce himself to the moderators of the session. The technician will be available in the meeting room from 07:00 on both congress days.

Accommodation
Château du Lac (5 stars hotel) – meeting place
15 km south of Brussels. An invigorating and sophisticated ambience, exquisite décor, fine cuisine. Free access available at the ‘John Harris Fitness Centre’ for participants accommodated at the Château

Indicative rate : Single 195 €/night with breakfast

Address : Château du Lac
Avenue du Lac, 87, B-1332 Genval, Belgium
Tel. +32 2 655 71 11
Fax +32 2 655 74 44
E-mail : seminars.cdl@martinshotels.com

When contacting the hotel, please indicate that you are attending “The Paediatric Hand Symposium” to receive the reduced rate for the dates February 5 through February 8.

Participants can also be accommodated at the hotel “Le Lido”, a 3 stars hotel located about 2 km from the Château du Lac (no transport will be provided).

Continuing Medical Education Credit
A certificate will be provided to interested participants.

Travel Information
The Brussels International Airport has flight connections from many major cities in Europe and overseas. Coach transport from and to the airport is organized on February 5 and February 8. One of us will meet you 15 min prior to the departure of the bus, at the Airport meeting point (level arrivals) and at the railway station meeting point (gare du Midi).

Timetable :

<table>
<thead>
<tr>
<th>Date</th>
<th>February 5</th>
<th>February 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zaventem Airport</td>
<td>15.30</td>
<td></td>
</tr>
<tr>
<td>Gare du Midi</td>
<td>16.15</td>
<td>07.00</td>
</tr>
<tr>
<td>Genval</td>
<td>17.30</td>
<td>09.30</td>
</tr>
</tbody>
</table>

Genval can also be reached by car, by taxi (about 60 € from the airport). Although there is a railway station in Genval, we do not recommend the train as there are no taxis’ at the station, about 5 km from the hotel. If you need however a taxi, call the hotel so that they can send you a car to pick you up.
Social Program, February 7


Bank transfer
Account holder « GEMS »
Account number : BE51 0012 3439 9162 (international)
001-2343991-62 (Belgium)
BIC or SWIFT code : GEBABEBB
with Fortis Bank, Route de Lennik 808, B-1070 Brussels, Belgium
Kindly instruct your bank that all charges are at your expenses, and indicate name and address on your payment order form.

Cancellation
In the event of cancellation, a full refund (less 100 € as a handling fee) of the registration fees may be obtained provided that written notification is received by December 15, 2008. A 50 % refund will be made for cancellations received by January 15, 2009. No refunds will be made thereafter.

Registration Desk
The registration desk will be open at the Château du Lac during the following hours :
February 5 : 16.00-19.30
February 6 : 07.30-17.00
February 7 : 07.30-17.00

Certificate of Attendance
Available at the registration desk. Upon request, a letter of invitation will be sent.

Congress Secretariat : Ms J. Kabamba
Department of Orthopaedics
Erasme University Hospital
Route de Lennik 808, B-1070 Brussels
Tel. +32 2 555 68 44 – 555 36 45
Fax + 32 2 555 83 60
E-mail : Hand.congress@ulb.ac.be

Registration Fees

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before Oct. 1, 2008</td>
<td>470 € (1)</td>
</tr>
<tr>
<td>After Oct. 1, 2008</td>
<td>500 € (1)</td>
</tr>
<tr>
<td>Resident/Student/Physiotherapist/Nurse</td>
<td>350 € (2)</td>
</tr>
<tr>
<td>Optional : Museum of Photography and banquet</td>
<td>100 € (3)</td>
</tr>
</tbody>
</table>

(1) Fees include meeting attendance, congress bag with the abstract book and all related documents (certificates of payment and attendance, badge etc.), lunches and transport by coach from and to the airport on February 5 and February 8. Not included: hotel accommodation, meals except 2 lunches, access to sport facilities.

Acknowledgement of registration and receipt of fees will be sent soon after the registration form and full payment are received. Upon request, a letter of invitation will be sent. Payments should be made free of all bank charges and commissions. A 3 % commission will be added to all payments made by credit card. The organizers cannot be held responsible for any personal injury, loss, damage, accident to private property, or additional expenses incurred as a result of delays or changes in air, rail, sea, road or other services, strikes, sickness, weather, war, sports and other causes. Luggage is at owners risk throughout unless insured. The symposium is organized by the ‘Groupe pour l'Etude du Membre Supérieur’, ASBL, Brussels.

(2) Please include a certificate signed by head of department.

(3) Included: coach transport Genval-Charleroi, visit of the Museum of Photography, and dinner in the restaurant.
Please fill in below as appropriate.

- I will participate in the Paediatric Hand Symposium (February 6-7, 2009)
- I would like to attend the banquet and the visit of the Museum of Photography on February 7, 2009

- My registration fees are paid as follows:
  - Enclosed check
  - Money order to Belgian account
    BE51 001-2343991-62 (International)
    001-2343991-62 (Belgium)
  - Credit card (Euro/Master, Visa)
    Card type: .................................................................
    Card account number: ............................................
    Cardholders’ name: ...............................................