



7th INTERNATIONAL
ORTHODONTIC
SYMPOSIUM

Orthodontics 2009

The Midfacial Region

Contemporary Diagnostics
and Modern Treatment

PRAGUE

November 26–28, 2009, Nosticky-Palace
www.orthodontics-ios.eu

Total number of international credit hours: 14
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Dear Colleagues,

after a series of very successful symposia, that we had in Prague over the years, we now arrive to cover a special aspect of class III-malocclusions. The main topic of the 7th International Orthodontic Symposium in Prague will be: "The Midfacial Region—Contemporary Diagnostics and Modern Treatment".

Let us come to the center of Europe again to share the knowledge of exceptional speakers and to extend the scope and the diversity of treatment approaches for the benefit of our patients. There will be a pre-congress course by Dr. Derek Mahony (Sydney) covering surgical aspects of orthodontic treatment of Angle Class III malocclusions. During the congress, cephalometric diagnostics, including 3-D diagnostics, will be covered along with surgical and orthodontic complications and their solutions, as well as the development of the maxillary region, therapeutic aspects of rapid maxillary expansions and its anchoring procedures.

There will be time enough for an active discussion of all aspects in depth. And of course, there will be a Get-together Party in a typical Prague restaurant again, with Bohemian music and local gastronomy.

Welcome to Prague, and I am looking forward to seeing you all again!



Prof. Dr. Ralf J. Radlanski, Berlin
President

E-mail: ralfj.radlanski@charite.de

Pre-Course**Thursday, November 26****09:00 a.m. – 05:00 p.m.****Derek Mahony, BDS, MScOrth,
DOrthRCS, MOrthRCPS,
MOrthRCS, Sydney****Angle Class III with surgical and postsurgical complications, border of decompensation**

Derek Mahony is a Sydney based Specialist Orthodontist who has spoken to thousands of practitioners about the benefits of interceptive orthodontic treatment. Early in his career Dr. Mahony learned from leading clinicians the dramatic effect functional appliance therapy can afford patients in orthodontic treatment. He has been combining the fixed and functional appliance approach ever since. His lectures are based on the positive impact such a combined treatment approach has had on his orthodontic results and the benefits this philosophy provides from a practice management viewpoint. After completing his Dental Degree at the University of Sydney Dr. Mahony proceeded to the United Kingdom where he completed his Masters Degree in Orthodontics at the Eastman Dental Hospital, Institute of Dental Surgery, London. Further studies led to the successful completion of a Diploma in Orthodontics at the Royal College of Surgeons, Edinburgh. Dr. Mahony has also passed the Royal College of Dentists in Canada post graduate examination in the field of orthodontics.

Dr. Mahony has been seeing an average of 250 patients per week for the last decade. He currently has over 3,000 orthodontic patients in active treatment and has been a key note speaker at the International Orthodontic Summit Meetings, the International Association of Orthodontics Meetings, and the American Association of Functional Orthodontics Meetings. Dr. Mahony is a contributing editor to the Journal of Clinical Paediatric Dentistry, International Orthodontic Journal and Spanish Journal of Dentofacial Orthopaedics.

Dr. Mahony approaches his orthodontic diagnosis from a "facial profile" point of view. He sets his treatment goals to create not just straight teeth, but beautiful faces and healthy temporomandibular joints. Dr. Mahony will provide a stimulating presentation for clinicians wishing to advance their treatment results via a simplistic step by step approach.

E-mail: Derek.Mahony@fullfaceorthodontics.com.au

Friday, November 27

9:15 – 10:45 a.m.

**Prof. Dr. Axel Bumann, Berlin,
Los Angeles**

**Cone Beam Computed Tomography (CBCT)
– diagnostic milestone in orthodontics and
general dentistry**



In the past few years CBCT technology became increasingly popular in dentistry. For many years the technology was mainly used for 3-D implant planning. However, lately CBCT advanced to a superb diagnostic tool in general dentistry as well as in orthodontics.

The lecture will not only cover some basics like radiation dose and data management, but also daily indications, office workflow and scientific data on diagnostic information compared with conventional imaging techniques.

Looking at other current digital developments like intraoral scans, virtual setup and virtual surgery planning, CBCT technology is the basic component for 3-D diagnostics and treatment in orthodontics. Preferably, CBCT scanner will be set up in specific imaging centers and not in single offices, because the technology is costly in terms of labor, time and money.

After studying Dental Medicine in Kiel (Germany) and Zurich (Switzerland) Prof. Axel Bumann did postgraduate trainings in Oral Surgery and Orthodontics at the University of Kiel. He wrote a Dr. Thesis in Histology, and a PhD Thesis in Cell Biology. In 1992 he became Assistant Professor and Vice-Head at the Dept. of Orthodontics in Kiel. In 1993 he was Visiting Professor at the University of Manitoba in Winnipeg, Canada. In 1996 he became Associate Professor at the University of Kiel. Between 1997 and 2000 he was Visiting Professor at the Harvard Medical School and the Harvard School of Dental Medicine, Boston, USA.

Currently Prof. Bumann is Clinical Professor at the Department of Craniofacial Sciences and Therapy at the University of Southern California, Los Angeles, and Director of MESANTIS–Craniofacial Imaging Center (CBCT) in Berlin. There, he also has a Private Orthodontic Practice.

Prof. Bumann has hold more than 750 national and international scientific lectures and was awarded 14 national and international research and poster awards.

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Friday, November 27
11:30 a.m. – 12:15 p.m.

Dr. Thorsten Brandt, Wiesbaden
Cephalometrics in the Magnetic Field:
3-D diagnostics for Class III treatment



Measuring anatomical points of the patient's head with the 3-D cephalometric-device without X-rays offers x, y and z coordinates with a wide range of unexpected cephalometric possibilities. Additional to conventional cephalometrics, bite relations are received not only from the right side, but also from the left occlusion. Furthermore, the comparison of an analysis of both face halves is measured directly from the patient's head. The SD of repeated measurement is 0.18 mm. Even the typical enlargement factors of X-ray images are missed, e.g. at the Gonion, B-point and Pogonion. Repeated measurements of X-ray images do not provide more information in class III planning and controlling of the treatment. The mean of two measurements of one X-ray (Dahlberg) do not give a statistical information about the specific patient in class III treatment, nor about the quality and mistakes within this individual X-ray. Magnetic cephalometrics were programmed to receive an analysis with 3-D values within the patient's head in real-time, but never less supports the experience with conventional analyses. The noXrayCeph scanner accuracy of 0.038 mm is six times more accurate than X-rays measured on the monitor screen at 0.24 mm solution.

Dr. Brandt studied Dentistry at the University of Kiel, and did post-graduate training on orthodontics at the University of Frankfurt/Main and at the Department of Orthodontics at the Loma Linda University and the UCLA, California. Between 1993 and 1997 he was Ass. Prof. at the University of Frankfurt/Main. Since 1994 he has an orthodontic clinic at Wiesbaden, Germany.

In 1990 Dr. Brandt developed the digital dental measuring device Brandt-Hermanussen, in 1992 the Torque Control Multiband Straight Wire System and between 1994 and 2006 the noXrayCeph-Cephalometrics in the magnetic field.

Within the last 15 years Dr. Brandt has given numerous courses and lectures in Europe, America and Asia. He is president of the Orthodontic Diagnostic Foundation in the Magnetic Field without the Risk of Cancer.

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Friday, November 27

12:30 – 1:00 p.m.

Dr. Petra Hofmanová, Prague

**Applications of Cone Beam CT in
Orthodontics**

Using CBCT in daily orthodontic practice improves diagnosis by providing better information about our patients. More accurate diagnosis helps us to find our limitations and treatment possibilities. Most failures occur during treatment planning!

Particularly we will discuss the advantages for bone quality assessment, root length and position, impacted teeth, TMD, airway, orthognathic surgery planning (dimensionally accurate model) and the VTO for our patients. In this short presentation we would like to emphasize the positive impact of CBCT and 3-D imaging in orthodontic practice.

Dr. Hofmanová graduated at the Medical Faculty of Charles University Prague (Czech Republic) in 1994 and received the orthodontic specialist in 2001. Currently she is working in a private practice in Prague and is part-time teaching at Motol Hospital at the Department of Paediatric Dentistry at Charles University with a special focus on orthodontic treatment combined with orthognathic surgery, computer assisted VTO and TMJ. Since 2008 she is head of the Orthodontic Dept. of the Second Medical Faculty of Charles University Prague. Dr. Hofmanová is member of the Czech Orthodontic Society, EOS, WFO and AAO

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Friday, November 27

2:00 – 2:30 p.m.

Prof. Dr. Ralf J. Radlanski, Berlin
The Development of the Maxilla and
Therapeutic Aspects of Class III Malocclu-
sions



Class-III-malocclusions can be caused by an overgrowth of the mandible, by a deficiency of maxillary growth or by both. Prenatally, the maxilla arises as a paired bony primordium on either side of the nasal cavity. During its development, it is very much dependent on its neighboring structures. This holds true for its prenatal development as well as for its postnatal development. Our therapeutic endeavors do keep this in mind, when we control the soft tissue influence of orofacial functions, when we refer to specialists of related disciplines, e.g. ENT, and when we apply our orthodontic and orthopedic appliances. The presentation will start with treatment examples. Problems and solutions will be traced back down to prenatal developmental insights.

Prof. Dr. Ralf J. Radlanski is professor and head of the Department of Craniofacial Developmental Biology at Charité – University Medicine Berlin, Campus Benjamin Franklin, at Freie Universität Berlin.

After studying medicine and dentistry in Göttingen and Minneapolis, he graduated and postgraduated in Anatomy and specialised in Orthodontics at Göttingen University. Since 1992 he is at Freie Universität Berlin. 1999–2007 he was Managing Director of the Dental Clinic of Charité. Prof. Radlanski is a Guest Professor at University of California at San Francisco and at University of Turku, Finland. Part-time he is also working in a private orthodontic practice. His current field of research is craniofacial morphogenesis, computer-animated visualization of fetal developing processes and bridging the gap between molecular biology and morphology.

Prof. Radlanski was Chairman of the Working Group 1 (Craniofacial Development) of the COST-action B 23, Board member of several national and international educational institutions and President of several international congresses. 2004 and 2006–2009 he was President of the International Orthodontic Symposium in Prague. In 2010 he will be President of the 10th International Symposium on Tooth Morphogenesis and Differentiation in Berlin.

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Friday, November 27

3:15 – 4:45 p.m.

Dr. Karin Habersack, Munich

Clinical Management of Rapid Palatal Expansion (RPE) in Class III



RPE is an effective way to correct basal transversal discrepancies. In combination with maxillary protraction a sagittal effect may additionally be achieved, which is helpful in Class III malocclusion treatment. Indications and contraindications for RPE are based upon thorough anamnesis and differentiated diagnosis. The range from the preferred early treatment to the late treatment with the risk of a questionable RPE response is to be presented. By typical examples of clinical cases the handling of complications during RPE treatment is illustrated.

Dr. Habersack has a private practice certified for specialist training in orthodontics in Weilheim, Germany. Since 2000 she is lecturer at the Department of Orthodontics at the Ludwig Maximilians University in Munich, and since 2008 also at Basel University.

Furthermore, Dr. Habersack is member of DIN Nudent und ISO commissions for the norming of dental materials, Fellow of the International College of Dentists and instructor for the "Curriculum Kieferorthopädie" of the Bavarian Dental Council and the Erasmus program, at the Medical University Hanover. Together with Prof. Hasund she also works as lecturer in orthodontic courses (www.viking-orthodontics.de).

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Saturday, November 28
9:00 – 10:15 a.m.

Niels Hulsink, Waalwijk
Myofunctional Influence on the Facial Growth in the First, the Mixed and Permanent Dentition



In 1999 I started working in the orthodontic market. In the first 4 years I was involved in the innovation of a new indirect bonding system, in cooperation with several dentists and orthodontists.

Since 4 years I'm working for Myofunctional Research Company. This company innovates and produces appliances, designed by Dr. Chris Farrell, for (early) treatments to prevent and correct the incorrect myofunctional habits that cause the malocclusion and many other problems concerning function and form. Early myofunctional treatment is essential to avoid aberrant facial growth in children.

Incorrect Myofunctional habits like tongue position, tongue thrust, incorrect swallowing, mouth breathing and bad lip support, are often the cause for a malocclusion.

Myofunctional therapy gives the best result if we can start as young as possible, between 4 and 12 years of age. It is very important to correct the incorrect function first, before we are going to start any orthodontic treatment.

In this presentation most of the incorrect myo-functional habits will be shown. We are also going to look, how to recognize these habits and how to find the relationship between the incorrect habit (function) and the malocclusion (form), the posture and the facial development in the early mixed dentition.

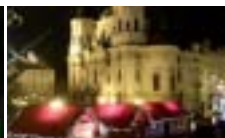
I use video images to show the moving, dynamic nature of the structures we are dealing with. We look at soft tissue patterns of the face in detail and see, what muscle patterns are related to particular malocclusions and TMJ disorders.

We will study in detail how to correct the soft tissues in the growing child using myofunctional appliances. We will look at the temporomandibular joint (TMJ) in detail, and I will show how to diagnose TMJ dysfunction immediately, including bruxism and snoring/mouth breathers. I demonstrate that it is possible to reliably and consistently change muscle and breathing patterns in growing children.

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Friday, November 27

- registration
- 09:00 – 09:10 a.m. opening
- 09:10 – 10:45 a.m. **Prof. Dr. Axel Bumann, Berlin, LA**
Cone Beam Computed Tomography (CBCT) – diagnostic milestone in orthodontics and general dentistry
- 10:45 – 11:00 a.m. discussion
- 11:00 – 11:30 a.m. coffee break
- 11:30 – 12:15 p.m. **Dr. Thorsten Brandt, Wiesbaden**
Cephalometrics in the Magnetic Field: 3-D diagnostics for Class III treatment
- 12:15 – 12:30 p.m. discussion
- 12:30 – 1:00 p.m. **Dr. Petra Hofmanová, Prague**
Applications of Cone Beam CT in Orthodontics
- 01:00 – 02:00 p.m. lunch
- 02:00 – 02:30 p.m. **Prof. Dr. Ralf J. Radlanski, Berlin**
The Development of the Maxilla and Therapeutic Aspects of Class III Malocclusions
- 02:30 – 02:45 p.m. discussion
- 02:45 – 03:15 p.m. coffee break
- 03:15 – 04:45 p.m. **Dr. Karin Habersack, Munich**
Clinical Management of Rapid Palatal Expansion (RPE) in Class III
- 04:45 – 05:00 p.m. discussion
- 07:30 p.m. **Get-together Party**
Enjoy the Evening!



Saturday, November 28

- 9:00 – 10:15 a.m. **Niels Hulsink, Waalwijk**
Myofunctional Influence on the Facial Growth in the First, the Mixed and Permanent Dentition
- 10:15 – 10:30 a.m. discussion
- 10:30 – 11:00 a.m. **Dr. Axel Berens, Hanover**
Avoiding complications in combined surgical and orthodontic treatment of Class III patients
- 11:00 – 11:15 a.m. discussion
- 11:15 – 11:45 a.m. coffee break
- 11:45 – 12:45 p.m. **Prof. Dr. Christopher J. Lux, Heidelberg**
The function regulator in the treatment of Class III malocclusion – Basic concept and clinical implications
- 12:45 – 01:00 p.m. discussion
- 01:00 – 2:00 p.m. lunch
- 02:00 – 03:00 p.m. **Dr. Benedict Wilmes, Duesseldorf**
Rapid palatal expansion (RPE) and tooth movement in the maxilla by maximum anchorage control – new ways and approaches by the Benefit Technique
- 03:00 – 03:15 p.m. discussion
- 03:15 – 03:45 a.m. coffee break
- 03:45 – 04:45 p.m. **Dr. Heinz Winsauer, Bregenz**
Midfacial development in adolescent Class III patients
- 04:45 – 05:00 p.m. discussion
- 05:00 – 05:15 p.m. summary



Saturday, November 28
10:30 – 11:00 a.m.

Dr. Axel Berens, Hanover

Avoiding complications in combined surgical and orthodontic treatment of Class III patients



Severe complications in case of a combined treatment of class III malocclusions are rare due to improved surgical techniques and adequate preparations of the patient through the orthodontist.

Lesion of the inferior alveolar nerve during a sagittal split osteotomy of the mandible is a surgical complication, which has been discussed frequently in the literature. An adequate surgical technique can usually avoid this complication.

Nevertheless, there are other possible complications, which can only be avoided in cooperation of all members of the interdisciplinary treatment team.

Unfavourable incidents like recidive, insufficient correction of the malocclusion, bad esthetic results, fracture or loosening of the osteosynthesis devices and nonunion of the bone fragments do not only depend on surgical techniques. Many of these complications can be avoided by an adequate presurgical orthodontic treatment and by a careful planning of the surgical procedure.

In the presentation strategies will be demonstrated that help the team of the orthodontist and the surgeon to achieve a functionally and esthetically pleasing result with a low rate of complications.

Dr. Berens studied Dentistry and Medicine at University of Muenster, Germany. In 1992 there he became Assistant Doctor at the Institute of Anatomy. Between 1997 and 2001 he did a postgraduate training at the Department of Oral and Maxillofacial Surgery at the University of Hanover, where he also did his Specialist in Oral and Maxillofacial Surgery. Since 2001 he has his own private practice of Oral and Maxillofacial Surgery in Hanover.

Dr. Berens has held numerous lectures and courses about implantology. His special field of research are mini- and microimplants in orthodontics as temporary skeletal anchorage.

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Saturday, November 28
11:45 a.m. – 12:45 p.m.

Prof. Dr. Christopher J. Lux,
Heidelberg

The function regulator in the treatment of
Class III malocclusion – Basic concept and
clinical implications

In the treatment of class III malocclusions, the function regulator (FR3) provides an important device for the correction of skeletal discrepancies at an early stage of dentofacial development. The presentation will focus on the following issues:

- Fränkel's orofacial concept in the correction of maxillary retrognathism and/or mandibular prognathism: the role of the soft tissues, functional disorders and the osteogenic membranes with respect to gnathofacial morphogenesis
- Construction of the FR3 and clinical prerequisites for a correct construction
- Timing of treatment and clinical management of the FR3
- The function regulator in the literature – Level of evidence for Class III treatment

After completing his Dental Degree at the University of Heidelberg Prof. Lux did a postgraduate orthodontic training at the University of Heidelberg, where he became medical consultant in 2002. 2005–2008 he was Professor and Chairman for orthodontics at the University of Jena. In 2008 he became Professor and Chairman for orthodontics at the University of Heidelberg.

Prof. Lux was awarded the First Prize of the BZÄK / DGZMK / DENTSPLY, the WJB Houston Research Award and, together with Donald Burden and Gerda Komposch, a prize of the German Orthodontic Society for the study "Vertical, sagittal and transverse gnathofacial growth – 3-D growth increments of the upper and lower jaws".

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Saturday, November 28

2:00 – 3:00 p.m.

Dr. Benedict Wilmes, Duesseldorf
Rapid palatal expansion (RPE) and tooth
movement in the maxilla by maximum
anchorage control – new ways and app-
roaches by the Benefit Technique



To avoid the drawbacks of conventional RPE-devices, we developed a RPE-appliance that utilizes mini-implants (Benefit system, Mondeal) in the anterior palate as skeletal anchorage devices. The usage of the Hybridhyrax is an effective method for rapid palatal expansion that can be employed especially in patients with a reduced anterior dental anchorage quality.

Mini-implants have enormously widened the treatment opportunities over the last decade. However, failure rates of approximately 10–30%, as described in the literature, are still not satisfying. To improve their stability and to prevent implant tipping we couple two miniscrews in the line of force with the Beneplate (Mondeal). By means of several appliances like the Beneslider for distalization, the Mesialslider for mesialization and the Mesial-Distalslider for correction of asymmetries we can achieve many treatment goals with the Benefit Technique.

The Benefit mini-implant in combination with the Beneplate expands skeletal anchorage options in orthodontic treatment and significantly reduces the failure rate. Insertion and removal are minimally invasive procedures: Orthodontists can place the screws by themselves and load them immediately.

Dr. Wilmes studied dentistry at the University of Muenster, Germany. He did a postgraduate training in oral surgery at the Department of Maxillofacial Surgery at the University of Muenster, where he also finished his dissertation. In 2004 he received a M. S. and a postgraduate degree in orthodontics and dentofacial orthopedics from the University of Duesseldorf. In 2004 he became Assistant Professor, in 2006 Associate Professor at the Department of Orthodontics at the University of Duesseldorf.

Dr. Wilmes is reviewer and consultant of the World Journal of Orthodontics, the Journal of Dental Research and the German Board (DIN) for orthodontic products. He has held more than 100 national and international lectures and courses on skeletal anchorage in orthodontics.

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Saturday, November 28**3:45 – 4:45 p.m.****Dr. Heinz Winsauer, Bregenz**
Midfacial development in adolescent
Class III patients

Growth development in hypo plastic maxillae has always been a central task for orthodontists. A traditional way is maxillary protraction with Delaire type masks. The additional fixation of tooth borne appliances with mini anchor screws during this process is an interesting approach. Other approaches as the Kucher-cantilever appliance or DeClerck pollards are most promising.

Lengthening the dental arch by distalizing molars with the TopJet Distalizer

Distalizing teeth more than a premolar width is often felt not to be possible, and therefore extractions are part of an everyday orthodontic procedure. Either patient's compliance or technical problems could be the reason. Since the introduction of mini anchor screws their safe insertion in palatal region and the use of a telescopic spring, the distalisation of molars without tipping is compliance free, predictable and fast. This adds a completely new aspect to modern orthodontics. After completing his Dental and Medical Degree at the University of Innsbruck Dr. Winsauer did his specialization in orthodontics. 1987–1990 he worked for the Dental University of Innsbruck. Since 1990 he has his own private practice in Bregenz, Austria. Dr. Winsauer was the first Austrian orthodontist in a private practice with European Board examination in 1998.

Dr. Winsauer filed six international orthodontic patents. In his scientific research on moment/force quantification in rapid maxillary expansion (RME) at Graz Dental University he focusses on rapid maxillary expansion, torque of teeth, intermaxillary force deliverance, unilateral headgear and early treatment of Angle Class III.

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Symposium venue



The 7th International Orthodontic Symposium (IOS) will take place at the NOSTICKY PALACE. The address of the Palace is **Matezské Namesti 1/471**, at the Maltezske Square.

The Nosticky Palace was built in 1623, in Krystof from Nostic's times, connecting two buildings. Several houses and a part of the garden were connected between 1658 and 1660. The palace was rebuilt in the 18th century in a Rococo and Classicist style. Further, yet smaller modifications were made in the first half of the 19th century. The Nosticky Palace is seat of the Culture Department of the Czech Republic and is also used for conferences and cultural events.

Public Transport

Metro: LINE A (Green) Station Malostranska

Tram: No. 12, 22, 23



Friday, November 27, 7:30 p.m.

Get-together Party

Historic Bohemian beer pub

Kolkovna-Olympia, Vítězná 7 – Prague 1

As it is tradition, we would like to invite you to enjoy the scientific program and also the flair and the spirit of the city of Prague. On Friday evening we will welcome you in a typical historic beer pub to relax from an eventful day, enjoy the delicious Prague cuisine and the famous Czech beer specialities. You will have the chance to meet the speakers personally, meet old friends and get to know new friends.

And after all you are invited to experience the old and new times of Prague at night and visit one of the numerous nightlife spots downtown. Prague is one of the capitals of nightlife in Europe! This evening event is a real highlight of your days in Prague, too!



“After the conference at 7:30 in the Olympia...”

With bohemian cuisine and music

www.kolkovna.cz
www.svejkmusik.wz.cz

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Our special thanks are for **Ortwin Bato** for his pictures of Prague!

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All payments can be made until November 10, 2009! Later payments are only accepted at the congress reception.



How to get there?

Railway: 59 international train services daily

For flights to Prague helpful addresses are:
www.pragueairport.co.uk/airlines-airport.htm



8th INTERNATIONAL
ORTHODONTIC
SYMPOSIUM

November 25–27, 2010
First Advent weekend in Prague

Systematic Orthodontics

— Experiences and Visions —

Reliable Methods and New Trends in the
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