Orthodontics and Craniofacial Orthopedics
The View Ahead

2015
International Orthodontic Symposium

PRAGUE 2015
November 26th – 28th
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Dear Colleagues!

Orthodontics as our discipline is developing fast and well established treatment concepts are being questioned as well as developed further to the benefit of our patients. We are grateful and proud that we, with the series of »International Orthodontic Symposia« (IOS) can provide a platform to speakers and participants to accompany and to discuss this progress for more than a decade now.

Continuously, 180 – 250 participants from around 30 nations use to come together during the first advent-weekend to share the knowledge with internationally renowned speakers.

This time, we invite you to attend the »13th International Orthodontic Symposium« in Prague November 26th – 28th, 2015.

The precourse and the “Tiziano-Baccetti-Memorial-Lecture” will be given by Dr. Guido Sampermans from the Netherlands. Furthermore, we have invited renowned speakers, who will share with us the view ahead in orthodontic treatment.

It is the custom of this congress series that the presentations may last between 30 – 90 min, followed by an extensive discussion to address all open questions thoroughly. This way, a rather familiar atmosphere has been created among the participants. I invite you again to come to Prague to listen and discuss with the top representatives of our discipline, and to meet in a familiar, relaxing atmosphere.

Prof. Dr. Dr. Ralf J. Radlanski Berlin / Germany
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Dr. Guido Sampermans  
Echt / Netherlands

The ten things I’ve learned since I started my orthodontic career

During the last 30 years I was working in orthodontics, many developments have had a significant impact on my profession like the appliances and the anchorage being used and the distribution of patients.

This lecture will give an overview over those changes that had a big impact on my clinical work, increasing significantly the quality and the efficiency outcomes. Changes from bending steel wires to the use of heat activated superelastic wires or the skeletal anchorage allowing treatments, that could not be done with conventional appliances, will be presented.

This lecture will also introduce big changes for the near future, meanly in the 3D digital world, helping us to facilitate diagnostics, treatment planning and clinical outcomes. Another important change was the awareness that it is impossible to run a successful orthodontic office based only on clinical knowledge. Key elements like successful communication, complaint management, team building, leadership, marketing, image building, loyalty, efficiency, time scheduling, excellent service, continuing education and other factors, are essential to create a quality office.

This lecture will not only focus on important key clinical changes in the past, present and near future, but also on these key quality management elements. It will give you lots of tips on how to involve these clinical and management keys into your office.

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Malocclusions are rarely, if ever, the result of one single factor. Therefore, when treating a patient, our goal is not just to realign teeth, but also to achieve a proper balance between teeth, bone, and muscles. The use of functional jaw orthopedics, at the right time during growth, can result in the patient achieving a beautiful smile, an excellent functional occlusion, a full face with a beautiful lateral profile and a stable healthy temporomandibular joint. Although a wide variety of appliances has successfully achieved proper functional occlusion, most appliances share one major disadvantage. Upper and lower components are joined together, making it difficult to speak and function normally. The end result is poor patient compliance.

The Twin-Block Appliance, as presented in this lecture, has overcome these disadvantages and is often described as the "most comfortable and esthetic of all the functional appliances". This is a "state of the art" lecture of developments in functional therapy, with guidance on diagnosis, treatment planning, case selection, appliance design and clinical management of functional appliances.

**CURRICULUM VITAE:**

Dr. Guido Sampermans, D.D.S., M.S. graduated in 1980 as a general dentist (Univ. of Leuven, Belgium), started a private orthodontic office in Belgium (1986) and Heinsberg/DE (1997). 2003–2010 he led an orthodontic office in Maastricht (NL). In 2010 he opened a new office in Echt (NL). This is considered a state of the art orthodontic office, including progressive concepts about service and efficiency using the latest digital developments.

Dr. Sampermans is an affiliate member of the Angle Society in Southern California (US) and has taught orthodontic treatment philosophy and practice management inside and outside of Europe for 15 years. He also offers micro-seminars in his office on self-ligating brackets, indirect bonding, computer-related 3-D technology and modern practice management and has first-class knowledge and extensive experiences with pre-adjusted appliance systems (Andrews, Roth, MBT, Roncone). He has worked with active self-ligating bracket systems since 2003, finishing over 5,000 cases with this system. He is guest lecturer at the post-graduate program at the University of Regensburg (DE) and lecturer at ZAFI-Institut in Vienna (AT). He developed a one year program incorporating ten sessions of two-day-courses, learning straightwire-technique from the beginning.

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Successful implementation of lingual orthodontics in my practice

Today, lingual orthodontics is, among others, an established treatment method in many orthodontic practices around the world. Due to the given possibilities with customization of the brackets a wide treatment spectrum can be covered using a lingual appliance as an alternative to conventional labial appliances.

For our patients, the benefit is to be treated with an almost invisible bracket system. For the doctor a target set up helps to define the final outcome of the treatment. The target set up is the key to an individual bracket and wire design.

Different treatment strategies proved to work well in daily routine in my practice. The aim of my lecture is to show different treatment options and strategies using lingual orthodontics together with new aspects of workflow.

CURRICULUM VITAE

Dr.(H) Esfandiar Modjahedpour M.Sc.L.O., was born in Düsseldorf (DE). Since 1997 he is Specialist of Orthodontics and dentofacial orthopedics (RWTH Aachen University) and runs a private orthodontic practice in Krefeld since 2001.

In 2008 he achieved the Master of Science in Lingual Orthodontics (Medical University Hanover/DE).

Dr. Modjahedpour was invited as a keynote lecturer of the European Society in Lingual Orthodontics and World Society in Lingual Orthodontics and 2012, 2013 and 2014 voted as one of the Top 150 Orthodontist in Germany by the News Magazine “Focus”. From 2014 to 2015 he is the President of the German lingual orthodontic society.

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Impressions of Prague
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Is low budget therapy of mandibular frontal crowding possible?

The treatment of adult patients became increasingly popular during the last years. Orthodontics as an exclusive treatment of children and adolescents belongs to the past. This is due to the increased awareness of aesthetics of the older patients what becomes apparent just also in the dental medicine. Mostly small corrections are concerned, e.g., secondary tooth crowding. Besides a quick and inexpensive therapy the patients also seek for invisibility of their treatment appliance.

This presentation gives an overview about the different aesthetic possibilities to treat anterior crowding in the lower jaw and confronts this with economic and therapeutic points of view. Different apparatuses of treatment like different aligner systems (Invisalign, Clear Aligner) as well as different lingual apparatuses (2-D, Incognito) are introduced and the cost use factor is weighed out.

CURRICULUM VITAE

Prof. Dr. Tomasz Gedrange studied dentistry at the Friedrich Schiller University (FSU, Jena/DE). From 1993 to 1995 he was an assistant at the Institute of Pharmacology and Toxicology. 1995–1998 he ran a private office before he worked 1998–2004 as an assistant in the Department of Orthodontics, Medical Faculty Carl Gustav Carus (Dresden University of Technology/DE). From 2004 to 2012 he was Professor and Director of the Department of Orthodontics, Preventive and Pediatric Dentistry, Centre of Dentistry and Oral Health, Ernst-Moritz-Arndt-University (Greifswald/DE). Since 2012 he is Professor and Director of the Department of Orthodontics Medical Faculty Carl Gustav Carus (Dresden, University of Technology/DE). Prof. T. Gedrange is the recipient of numerous awards and grants over two million Euro. He published more than 180 original articles in peer-reviewed journals.

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Impressions of Prague
This book presents useful tips and strategies on how to integrate the Invisalign system successfully into clinical practice. The authors review the diagnostic protocols and the biomechanics of aligners before presenting Invisalign treatment protocols. With the support of accompanying case documentation, discussion of each malocclusion includes information on the associated symptoms, the rationale behind the selected treatment approaches, and the various outcomes achieved. The last section of this book deals with the advantages of the Invisalign system and can help patients and clinicians in deciding whether this system can provide optimal treatment outcomes for a particular clinical situation. This is a practical manual for any clinician interested in the novel treatment modality of aligner orthodontics.
FRIDAY, NOVEMBER 27TH 14:15 – 14:45

Prof. Dr. Dr. Ralf J. Radlanski
Berlin / Germany

Behavioral Aspects in Orthodontics

Behavior, posture, and body awareness are important aspects which should not be neglected to achieve success in orthodontic treatment. It is not only to straighten teeth by means of any programmed appliance, but patients should also learn to become aware of the changes in tooth position and occlusion.

What is well known about the influence of soft tissue, habits and logopaedic intervention, should also be taken into account for treatment of a class-II-relationship: A patient, who is aware of his body, and of his mandibular position in particular, may be more successful in achieving a class-I-relationship more easily, because a more favorable position of the mandible is maintained, even when the appliance is not inside of the mouth.

Body awareness and understanding of what is going on during treatment, is an important aspect of my approach to lead the patients to a successful therapeutic result – also in orthodontics.

CURRICULUM VITAE

Prof. Dr. Dr. Ralf J. Radlanski is Head of the Department of Craniofacial Developmental Biology at Charité - University Medicine Berlin, Campus Benjamin Franklin at Freie Universität Berlin. After education in medicine and dentistry in Göttingen and Minneapolis, he received a graduate and postgraduate education in Anatomy at Göttingen University (Depts. of Morphology and Embryology). Specialization in Orthodontics at Göttingen University (Dept. of Orthodontics) and habilitation (1989) at the Medical Faculty at Göttingen University. Since 1992 at Freie Universität Berlin.

1999–2007: Managing Director of the Dental Clinic of Charité, Berlin. Guest Professor at University of California at San Francisco (USA), University of Turku (FIN), and Basle (CH). Part time activity in an orthodontic practice.

Current Research: Craniofacial morphogenesis, bridging the gap between molecular biology and morphology. Research in practical and innovative orthodontic therapy.


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Normal function of TMJ represents the fundament of proper orthodontic treatment. For patients with TMD or mouth opening disorders we are widely using splints and physiotherapy. But this is only one part of our therapeutic armamentarium, which is mostly affecting only muscular disorders. Our approach to TMD is mechanistic and static. Orthodontic therapy is changing occlusion and the TMJ conditions in a very dynamic manner. The adaptation on these changing conditions requires not only functional, but also anatomical changes in TMJ.

Therefore, we have to abandon our mechanistic stereotypes and look for TMJ problems with perspectives of orthopaedic and rheumatology approaches too, especially in patients where adaptation mechanisms are exhausted or were primary insufficient. Even when we are very conservative and minimally invasive procedures are our first choice, the better approach could be some form of pharmacological therapy or surgical intervention in this case. Thus relieve pain and facilitate mouth opening and chewing enables us to finish orthodontic treatment.

CURRICULUM VITAE

Assoc. Prof. René Foltán, MD, DMD, PhD., FEBOMFS


Before his Habilitation 2011 at this university, he was in 1998 at University Hospital Zürich, Department of Cranio-Maxillofacial Surgery, Switzerland, worked some periods in the UK at the Oral and Maxillofacial Surgery at The Royal Surrey County Hospital, Guildford and North Hampshire Hospitals, Basingstoke and became 2006 a Fellow of the European Board of Oro-Maxillofacial Surgery.

Since 2013 he is the Head of Dep. of Oral & Maxillofacial Surgery, 1st Medical Faculty of Charles University, Prague. He is a member of the European Association of Cranio-Maxillofacial Surgery since 1996, was Czech Republic Councilor for International Association of Oral and Maxillofacial Surgery (2003–2008) and since 2008 Councilor of the Czech Republic at The European Association for Cranio-Maxillofacial Surgery.

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Zahnkorrektur leicht gemacht.
FRIDAY, NOVEMBER 27TH 15:45 – 16:45

Dr. Johan Karsten
Stockholm / Sweden

Aiming at simplifying orthodontic treatment – advantages in combining the Carriére Distalizer with self-ligation

There are advantages and disadvantages with every orthodontic technique. When maximum anchorage is needed in extending possible tooth movement, disadvantages such as technical management, costs and invasiveness might have to be accepted. In most situations, however, the need is less and easier techniques that simplify management, avoid invasiveness and cut costs, may be used.

This presentation discusses the use of the Carriére Distalizer in combination with the active self-ligating bracket system, SPEED, in a philosophy of simplicity. The aim is to clarify the development and function of self-ligation and the Carriére Distalizer with achievable advantages as well as limitations in order to help the clinician decide on suitable technique for the demand in each particular patient.

CURRICULUM VITAE


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THURSDAY, NOVEMBER 26TH, 2015

08:30  Registration
09:00  Welcome · Prof. Dr. Dr. Radlanski / Dr. Raiman
09:15  Dr. Guido Sampermans D.D.S., M.S. Echt / Netherlands
       The ten things I’ve learned since I started my orthodontic career
11:00  Coffee break (30 minutes)
13:00  Lunch (60 minutes)
15:00  Coffee break (30 minutes)
16:45  Summary (15 minutes)

FRIDAY, NOVEMBER 27TH, 2015  SYMPOSIUM

08:30  Registration
09:00  Welcome · Prof. Dr. Dr. Radlanski / Dr. Raiman
09:15  Dr. Guido Sampermans D.D.S., M.S. Echt / Netherlands
       Functional Therapy: 15 years’ experience with the Twin-Block Appliance
10:45  Coffee break (30 minutes)
11:15  Dr. Esfandiar Modjahedpour M.Sc.L.O. Krefeld / Germany
       Successful implementation of lingual orthodontics in my practice
12:45  Lunch (60 minutes)
13:45  Prof. Dr. Tomasz Gedrange Dresden / Germany
       Is low budget therapy of mandibular frontal crowding possible?
14:15  Prof. Dr. Dr. Ralf J. Radlanski Berlin / Germany
       Behavioral Aspects in Orthodontics
14:45  Assoc. Prof. René Foltán MD, DMD, PhD.
       Prague / Czech Republic
       TMJ patient and orthodontic treatment – not only splint therapy
15:15  Coffee break (30 minutes)
15:45  Dr. Johan Karsten Stockholm / Sweden
       Aiming at simplifying orthodontic treatment – advantages in combining the Carrière Distalizer with self-ligation
16:45  Summary (15 minutes)
       All presentations will be discussed subsequently
19:30  Get-Together-Party
SATURDAY, NOVEMBER 28TH, 2015 SYMPOSIUM

09:00  Welcome · Prof. Dr. Dr. Radlanski / Dr. Raiman

09:15  Prof. em Dr. Rainer-Reginald Miethke
Berlin / Germany
Should orthodontists care about esthetics?

10:00  Dr. med. dent. Karin Habersack Weilheim / Germany
Solely orthodontics or a combination with surgery?

10:45  Coffee break (30 minutes)

11:15  Dr. med. dent. Karin Habersack Weilheim / Germany
Prof. Dr. med. Dr. med. dent. Gerhard W. Paulus
München / Germany
Interdisciplinary aspects in SARPE

12:45  Lunch (60 minutes)

13:45  Dipl.-Ing. Mag. Christian Url Vienna / Austria
The Latest updates in digital orthodontics

14:45  Dr. Azamat Baigulakov Karaganda / Kazakhstan
Comparative cephalometric analysis and different ethnic groups

15:15  Coffee break (30 minutes)

15:45  Prof. Dr. Dongliang Zhang Beijing / China
A computer-aided retraction system for anterior upper teeth for lingual orthodontics

16:15  Summary (15 minutes)
Prof. Dr. Dr. Ralf J. Radlanski / Dr. Jan V. Raiman
All presentations will be discussed subsequently

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Congress Impressions

Prof. Dr. Benedict Wilmes at IOS Prague 2013
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Should orthodontists care about esthetics?

Esthetics is of immense importance to mankind ever since but even more so in modern societies. However, esthetics in orthodontics became somewhat ambiguous in recent times because the specialty is more and more challenged about its contribution to patients' health. Even if orthodontics' primary goal is a healthy and stable optimal occlusion with perfect function, facial esthetics can simultaneously be attained.

This lecture deals with the problematic assessment of facial esthetics, and the orthodontic contribution to facial esthetics especially when combined with orthognathic surgery. Since orthodontic treatment per se influences facial esthetics, best patient care includes knowledge of esthetic therapeutic modalities. Finally, orthodontists should challenge general dentists to do their best for an improved dental appearance and thus for superior facial esthetics. All these aspects will be demonstrated on clinical examples which can serve as take-home messages.

In all, orthodontists should know about the intimate relationship between their specialty and esthetics so they improve not only their patients' oral health but also enhance their happiness.

CURRICULUM VITAE

Prof. em. Dr. Rainer-Reginald Miethke graduated as dentist in 1969 from the Free University, Berlin, got his doctorate in 1972, his specialist degree in 1973, and his Ph. D. degree in 1978. From 1978 to 1979 he studied at the Louisiana State University, New Orleans, USA, and from 1992 to 1993 he was a guest-professor at the Royal Dental College, Aarhus, Denmark. From 1994 to 2009 he served as the Chairman, Department of Orthopedics and Orthodontics, Chârité, Berlin. From 2009 to 2013 he acted as the Chairman, Department of Dentistry, Hamad Medical Corporation, Qatar.

He was the Editor-In-Chief of the orthodontic journal "(Praktische) Kieferorthopädie" between 1986 and 2008, and of the "World Journal of Orthodontics" from 2009 to 2010. From 2006 to 2007 he acted as the President of the European Orthodontic Society, and since 2008 he presides the German Association of Aligner Orthodontics. He published more than 170 scientific articles and gave more than 260 national and international lectures.

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SATURDAY, NOVEMBER 28TH 10:00 – 10:45

Dr. Karin Habersack  
Weilheim / Germany

**Solely orthodontics or a combination with surgery?**

Treatment planning in patients with skeletal transversal, vertical and/or sagittal deviations may raise the question, whether dental compensation or surgical correction is adequate. This consideration concerns patients with relapse after earlier orthodontic treatment, as well as young or adult patients with severe malocclusions. For the decision making of the individually appropriate therapy it is essential to evaluate diagnostic analyses with focus on a concept of borders for solely orthodontics.

By presenting typical clinical cases including pitfalls, it is intended to outline those borders, to emphasize the cooperation between the orthodontist and the surgeon and to look critically to longterm treatment results.

**CURRICULUM VITAE**

Dr. med. dent. Karin Habersack is a specialist in orthodontics with a private practice certified for specialist training in orthodontics in Weilheim/Upper Bavaria. She lectures at the Department of Orthodontics at the Ludwig Maximilians University Munich since 2000 and at the University Basel from 2008 to 2013.

Dr. Habersack is a Member of DIN-Nadent und ISO commissions for the norming of dental materials, Fellow of the International College of Dentists, Instructor for the "Curriculum Kieferorthopädie" of the Bavarian Dental Council and the "Erasmusprogramm Kieferorthopädie" at the Medical University Hanover.

Since many years she provides well known orthodontic seminars together with Prof. Hasund (↗ www.viking-orthodontics.de). In research and publications she focuses on topics Rapid Maxillary Expansion (RME), Surgically assisted RME (SARME), cephalometrics, and TMD-treatment.

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Interdisciplinary aspects in SARPE

Surgically assisted palatal expansion (SARPE) is effective in treatment of transverse maxillary deficiency in late juvenile and adult patients. The borderlines between solely orthodontic rapid palatal expansion (RPE) and SARPE are to be outlined with focus on diagnosis.

The term SARPE comprises procedures from minimal invasive to Le Fort I osteotomies with complete mobilisation of the maxilla. Two-piece- and the preferable three-piece-segmentation of the maxilla are compared with respect to dental and skeletal widening effects as well as to relapse.

Different interdisciplinary protocols display the necessity of coordination between the orthodontist and the surgeon to meticulously fulfill all treatment objectives. Thus, establishing networks between orthodontics and surgery is a must to promote the exchange of knowledge for optimizing patient care.

CURRICULUM VITAE

Prof. Dr. Dr. Gerhard W. Paulus started his career at Friedrich-Alexander-Univ. (Erlangen/ Nuremberg, DE). His topic for the Doctor degree (Medical School) was "Rezidivverhalten, Sensibilitätsschäden und Kiefergelenksbeschwerden nach Ramusosteotomien mit verschiedenen Osteosyntheseverfahren", and at Dental School "Dünndarmausschaltung bei Hunden – Untersuchung des Fettstoffwechsels". He absolved his residency in Oral-Maxillo-Facial Surgery Departments in Erlangen and Luzern (SUI). His habilitation was about „Knochenbruchheilung am Oberkiefer bei Verwendung von Miniplatten”.

Since 1989 he runs an office in Munich (DE) and became head of the Department of Oral-Maxillo-Facial Surgery at Paracelsus-Hospital (Munich). 2005–2009 Prof. Paulus was instructor for facial plastic surgery at the Univ. of Aachen (DE), 2006–09 at the Academy for Oral-Maxillo-Facial Surgery for postgraduate courses in esthetic facial surgery. Since 2009 Prof. Paulus lectures at Univ. of Witten/Herdecke (DE).

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For information about Dr. Karin Habersack please see page 23.
E-Mail: w.habersack@t-online.de
• Your laboratory for bracket individualization and individual wires with robotic precision.

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The orthodontic workflow from diagnostic analysis to end of treatment and even retention phase has received more and more digital support in the last years through 3D imaging, 3D surface scanning and respective software solutions. The industry is quick to release new developments to the market, new generations of devices are introduced almost every year.

In this lecture we want to take a critical look at what is possible today and what is reasonable from the perspective of the working clinician. We will lay our focus on 3D acquisition through intraoral and desktop scanners and look at software-supported treatment planning and CAD/CAM manufacturing of individual appliances based on this planning. Different stages of implementation of digital technology depending on specific requirements will be discussed and recommendations will be given.

CURRICULUM VITAE

Dipl.-Ing. Mag. Christian Url successfully completed his studies of Computer Science (University of Vienna, AT) as well as his studies of Software Engineering (Vienna University of Technology, AT).

Since 1999 he is working in the field of medical technology, in the last years as development engineer at the specialized orthodontic laboratory for indirect bracket positioning (Orthorobot Medical Technology, Vienna, AT). He constantly evolves his specialization in robot technology and 3D virtualization in dentistry. His main focus since 2004 is the development of robot based, indirect bracket positioning and wire bending based on virtual treatment planning.

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Impressions of Prague
The purpose of this study is to identify the presence of differences in radiographic parameters of the maxillofacial area in people of different ethnic groups according to the results of computer analysis of lateral cephalograms. As known from global references, facial skull and soft tissues of the faces have their anatomical features in different ethnic groups. Normal parameters of certain ethnic groups may not correspond to the average used in computer programs.

That may lead to misinterpretation, erroneously expanded or reduced indications for orthognathic surgery, teeth extraction or operations. Therefore, cephalometric parameters of adults members of indigenous ethnic groups in Kazakhstan with a normal bite (performed on cephalostat) will be compared with characteristics of other nationalities as well as these data are compared with the standards adopted in the computer program Onyx Ceph, the most well-known and accepted program for cephalometric analyses.

This research is devoted to solve the tasks for proper planning in people from indigenous ethnic groups.

CURRICULUM VITAE

Baigulakov Azamat is an orthodontist of the highest category in Kazakhstan and since 2013 President Elect and National Liaison Officer of Kazakhstan Stomatological Association (KSA), the only Dental Association in Kazakhstan that is a member of International Dental Federation (FDI). As a dentist of general practice in Karaganda State Medical Academy he got his diploma with honors in 1999 followed by a post-graduate course (Internship) in 2000 in this academy. Since 2001 he is an active member of the KSA and Senior Lecturer at the Department of Anatomy, Karaganda State Medical University (KSMU. Since 2001, Dr. Baigulakov engaged in teaching at the Department of Anatomy KSMU for foreign students from India and Pakistan in English. Since 2007 Dr. Baigulakov is the managing director of KarMedService company, since 2008 head of the Clinic “Stoma na Vostoke”. Since 2013 he holds seminars, workshops and remote teaching of orthodontist in the Karaganda branch of the Republican Institute of Postgraduate Medical Education. 2010 he got the Letter of Appreciation “Algys Hut” from the Ministry of Health of Kazakhstan, 2013 the silver Medal from KSA for achievements in the field of dentistry.

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A computer-aided retraction system for anterior upper teeth for lingual orthodontics

The aim of the presented and discussed study was to analyze the anterior torque which controlled results of individual lingual mass retraction of the anterior maxillary teeth using a computer-aided lever-arm design and miniscrew system.

Therefore, a selection of 40 non-growing patients, treated as non-extraction cases with an individual lingual system, employing the lever-arm and miniscrew as a mass retraction system designed by Mimics 10.0 and Claytool software was performed. It was based on cone beam computed tomography (CBCT) data to determine the length of the lever-arm and the position of the miniscrew to make sure the line of retraction force action can pass through the center of resistance of six maxillary anterior teeth and parallel to the occlusion plane. Cephalometric radiographs were analyzed for pre- and post-retraction differences in skeletal, dental and soft tissue relationships.

As a result, a significant retraction of maxillary anterior teeth was achieved in all patients, resulting in an improved soft tissue profile. Bodily movement and some controlled tipping occurred using lever-arms during retraction; maxillary molars did not show any statistically significant movement when using miniscrew as anchorage. The lecture will discuss these results and the conclusion, that the computer-aided design and location of the lingual retraction system (lever-arm and miniscrew) produced an excellent and efficient retraction with a higher anterior torque control accuracy.

CURRICULUM VITAE

Prof. Dr. Dongliang Zhang is Professor and clinical director of the department of orthodontics at the Capital medical university, Beijing, China.

He is a honourable member of the China Orthodontist Society (COS) as well as an AAO member and a WFO member. He has published more than 30 papers. His main research interests are in bone remodeling and biomechanics on lingual orthodontics.

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GET-TOGETHER PARTY
FRIDAY, NOVEMBER 27TH, 19:30

Historic Bohemian beer pub "Kolkovna Palace Savarin"
Na Příkopě 10, Prague 1, 110 00

As it is a 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.

After the conference at 19:30 in the Kolkovna Palace Savarin

With Bohemian Cuisine and Musik

After the conference at 19:30 in the Kolkovna Palace Savarin

www.svejkmusic.wz.cz
www.kolkovna.cz

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!
The 13th International Orthodontic Symposium 2015 will take place in the Kaiserstein Palace. The address of the palace is "Malostranské náměstí 23/37", Prague 1.

**An ideal place for meetings from the times of High Baroque**

We are looking forward to hosting you as our guests, and please consider our guest book. For more than three centuries, we have had many satisfied and famous guests.

The Kaiserstein Palace received a Baroque reconstruction initiated by Sir Kaiserstein but completed by Petr Radecký (1699–1720). In 1859 a monument of marshal Radecký was built on the square. Up to 1918 the square was named after him. In 1866, Václav Petzold, a hotel-owner, bought the palace and opened an exclusive restaurant. For the next hundred years it was called "U Petzoldů". The famous opera singer Emmy Destinn, a partner of Enrico Caruso, rented an apartment there (1904–1908). A total reconstruction began under the architects Zdeněk Pokorný and Jaroslav Bělský in 1977.

In 1981 the palace has been registered as a UNESCO heritage site. In 1997 restitution procedures were completed and the palace was returned to its original owners.

**Public Transport**

- **Metro:** Line A (green) Station Malostranska
  
  [www.prag-cityguide.de/transport/metro](http://www.prag-cityguide.de/transport/metro)

- **Tram:** No. 12, 22, 23

- **Railway:** 59 international train service daily

- **Airlines:** For all Airline please look at:
  
  [www.pragueairport.co.uk/airlines-at-prague-airport](http://www.pragueairport.co.uk/airlines-at-prague-airport)

We recommend the following Apps for more information about Prague:

- **City Guides GuidePal**
- **Prague City Guide TripAdvisor**
- **Pubtran Czech public transit**
CONDITIONS OF PAYMENT

IOS Hannover

IBAN: DE26 250 700 240 44 44 66 700
SWIFT: DEUT DE DBHAN

All payments can be made till 16th November 2015!
Later payments only be made at the congress reception.

LANGUAGE

Conference language is English.

Simultaneous translation into Russian.
Translation by Alina Kavrayskaya.

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Whatever else, call: 00420/777 606 457 and we will help you

Welcome to the "Golden City" of Prague
THURSDAY, NOVEMBER 26th, 2015

EAO-Academy with Dr. Guido Sampermans

<table>
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<tr>
<td>EAO-Member*</td>
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FRIDAY 27TH – SATURDAY 28TH, NOVEMBER 2015

13th International Orthodontic Symposium

<table>
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<tr>
<td>EAO-Member*</td>
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<td>Postgraduate**</td>
<td>390.– €</td>
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</table>

accompanying persons for the Get-together-Party: 35,– € /Person

The fees include:
Lunch, coffee breaks and Get-together-Party with traditional bohemian cuisine, Czech beer and music. All prices include tax.

* Become a EAO-Member: www.eaomembers.org
** In order to benefit from the special fee, a submission of your status confirmation (approval letter signed by the Head of Department or copy of status ID) must be sent after Online registration.
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