



**POWER<sup>2</sup>Reason**  
EVIDENCE BASED EDUCATION

**Saturday 6<sup>th</sup> May 2023**  
**Hotel Vier Jahreszeiten**  
**Kempinski Munich**

**AO** AMERICAN  
ORTHODONTICS

# DR. GUIDO SAMPERMANS CHAIRMAN

## Curriculum Vitae

- 1980 - 1986: General dentist in own practice in Belgium
- 1992 - 1997: Opening of an orthodontic practice in Maaseik, Belgium
- 1986 - 1992: Training as a specialist in orthodontics in Germany and the USA
- 1997 - 2002: Specialist in orthodontics in Germany and taking over an orthodontic practice in Heinsberg, Germany
- 2002 - 2015: Opening of an orthodontic practice in Maastricht and later in Echt, The Netherlands
- 2015 - ongoing: Opening of an orthodontic practice in Vienna, Austria
- Years of experience as a speaker, working with leading orthodontists



## AGENDA

TIME	SPEAKER	INFORMATION
08:30 - 09:15		Welcome coffee and registration
09:15 - 09:30		Welcome and intro by AO and Dr. Guido Sampermans
09:30 - 10:30	Dr. Jonathan Sandler	And all the roads we have to walk are winding
10:30 - 11:00		Coffee break
11:00 - 12:00	Dr. Julia von Bremen	Facing the challenges of contemporary orthodontics
12:00 - 13:00		Lunch
13:00 - 14:00	Dr. Guido Sampermans	Communication: understanding and being understood
14:00 - 15:00	Dr. Ravindra Nanda	Contemporary Orthodontic Practice: Biomechanics, TADs and Multidisciplinary Patients
15:00 - 15:30		Coffee break
15:30 - 16:30	Dr. Björn Ludwig	Are you ready for the next chapter in orthodontics? Then get out of the comfort zone!
16:30 - 17:00		Q & A

## And all the roads we have to walk are winding

The lecture will encompass my circuitous journey through clinical research over the past 38 years. Initially starting with some simple studies into basic clinical conundrums such as impacted teeth through multi-centre studies answering questions like which archwire sequence to use. Papers into the benefits of clinical photography will be referred to as well as the landmark 'Manchester studies' into the use of the Twin Block appliance.

The contribution to the orthodontic evidence base from this major piece of work will be described.

Randomised studies in the use of both osseointegrated palatal implants and TADs will be described in detail and how this work might effect everyday clinical practice.

Following my presentation delegates should

- Know how magnets can be used to encourage unerupted teeth into the mouth
- Know what contribution the Manchester RCTs made to the knowledge base on functional appliances
- Know how palatal implants offer an alternative to headgear
- Know how TADs can be used effectively in modern orthodontic practice
- Be able to choose an effective and efficient archwire sequence for their routine patients
- Be able to offer another alternative in cases with multiple unerupted teeth
- Be able to confidently explain the options for anchorage supplementation in maximum anchorage cases

## DR. JONATHAN SANDLER

### Curriculum Vitae



- Consultant Orthodontist, Chesterfield Royal Hospital, UK since 1993
- Contributor to 5 major multi-centre RCTs over the past 22 years, covering Class II treatment and dental implants to supplement anchorage
- Examiner for the MOrth, Royal College of Surgeons for 11 years and European Orthodontic Boards for 5 years. Author of over 130 scientific articles, and has delivered over 160 lectures nationally and internationally
- Chairman of the 8th World Orthodontic Conference organising committee 2008-2015
- President of the Angle Society of Europe 2016-2018
- President of the British Orthodontic Society 2018-2021

## FACING THE CHALLENGES OF CONTEMPORARY ORTHODONTICS

Due to advances in modern orthodontics and new possibilities of moving teeth it sometimes appears as if everything is possible nowadays. But is this the case? Despite skeletal anchorage or so called "non-compliance-appliances" it certainly is not, at least not for every patient. This lecture will focus on patient-related challenges, adherence, obesity and the socio-economic aspects. Because despite of all the orthodontic possibilities we have today, the real challenge of contemporary orthodontics is to see and understand the patient behind the occlusion.



## DR. JULIA VON BREMEN

### Curriculum Vitae

Dr. von Bremen works as an orthodontist and senior consultant in the department of orthodontics, University of Giessen, Germany. She received her orthodontic education from 2000-2003 in a private practice and at the same university department under the chairmanships of Professor Hans Pancherz and Professor Sabine Ruf. Her major research interests include Class II treatment and orthodontic treatment possibilities of children with juvenile idiopathic arthritis or obesity. Dr. von Bremen is an active member of the Angle Society of Europe (ASE) as well as a member of the European Orthodontic Society (EOS), the German Society of Orthodontists (DGKFO), and the German Dental Association (DGZMK). She has published numerous peer-reviewed papers and lectured both nationally and internationally.

## COMMUNICATION: UNDERSTANDING AND BEING UNDERSTOOD

Whether in practice or in private life: working together and developing common goals requires understanding, good communication, i.e. it means 'understanding' and 'being understood'. Unfortunately, this does not always work perfectly for us humans. When you understand and feel understood in a personal conversation or in a group, the relationship improves, there are fewer misunderstandings and trust increases. In this way, common goals can be achieved better and more easily. Good communication is now an indispensable tool for our everyday work. As natural as communication may be, it is challenging in everyday life. Working in a team, in the home office, with digital communication channels and the daily flood and fast pace of information represent great demands.

Following my presentation delegates should know / be able to:

- Understand and deepen the basics of good communication
- Understand and expand your own communication behaviour better
- Use techniques for successful communication control in order to prepare, carry out and follow up on discussions more constructively
- Receive and give valuable feedback
- To be able to listen better and more closely

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## CONTEMPORARY ORTHODONTIC PRACTICE: BIOMECHANICS, TADS AND MULTIDISCIPLINARY PATIENTS

Recognizing the necessary anchorage, knowing how to obtain and maintaining it during the treatment are certainly some of the fundamental points that lead to orthodontic success. For years orthodontists have applied complex systems and various devices to maintain the desired anchorage, sometimes only partially succeeding. Situations of absence of multiple dental elements or cases of compromised tooth support could sometimes make orthodontic treatment extremely complex, if not impossible. The introduction of Temporary Anchorage Devices (TADs), safe devices and simple clinical use, has revolutionized the orthodontic world, simplifying otherwise very complex treatments, and making possible treatments otherwise impossible. During the last fifteen years, the use of TADs has deeply transformed our daily orthodontic practice, leading to new protocols and simplified orthodontic biomechanics. Nowadays, TADs

are an integral part of orthodontic treatment, especially of complex patients, providing a reliable anchorage and allowing the orthodontists to apply force system which often can not be applied efficiently with conventional mechanics. However, the careful knowledge of the biomechanics and of the different types of movement, according to the point of application of the forces, of the bone and periodontal support, is still an indispensable element for an effective and efficient orthodontic treatment. Indeed, biomechanics principles are ever more important in designing appliances to deliver predictable force system. This presentation will show various patients with complex problems and their treatment.



## DR. RAVINDRA NANDA Curriculum Vitae

Dr. Ravindra Nanda is Professor Emeritus, Former UConn Alumni Endowed Chair and Head of the Department of Craniofacial Sciences and Division of Orthodontics, University of Connecticut, Farmington (USA). He is also an Adjunct Professor at The Forsyth Institute, Cambridge (USA). Dr. Nanda has been active in orthodontic research in the area of biomechanics, clinical trials and acceleration of orthodontic treatment. He has authored with his colleagues more than 250 scientific papers. In 2022 he was awarded Fellow of World Federation of Orthodontics (WFO). He has given numerous named lectures at national and international societies including Mershon and Angle Heritage Lectures at the American Association of Orthodontics and Sheldon Friel Lecture at the 2011 EOS Congress. He has been recognized with numerous Honorary memberships and has received various awards from international orthodontic organizations.

## ARE YOU READY FOR THE NEXT CHAPTER IN ORTHODONTICS? THEN GET OUT OF THE COMFORT ZONE!

Many orthodontic treatment goals, such as occlusion, aesthetics and function, have not changed too much over the past decades. In addition, the spectrum of diagnosis and treatment - in terms of equipment - has been significantly expanded. New high-tech tools and innovations promise to easily lead us to success. For example, the advantages of using skeletal anchorage - obtained in the last two decades - are obvious and the use of these small screws is widespread. Many well-functioning workflows have been established and solid biomechanics identified. Scientifically, there is solid evidence in terms of loss rates, insertion sites, and risk factors. But the development of the use of TADs is not stopping! The digital age in particular brings new and promising features. Starting with intraoral scanning, digital radiography, virtual screw placement, digital device design and finally 3D printing. Many clinical examples will be shown, current

literature will be discussed and a critical evaluation of these new procedures will be part of the lecture. Nevertheless, achieving acceptable or even excellent orthodontic results seems to be „not easy“ in everyday orthodontic practice. The lecture will address everyday challenges in orthodontic diagnosis and treatment. High- and low-tech biomechanics will be demonstrated, clinical tips and tricks will be given, and failures will be revealed. All this will be illustrated with a variety of clinical examples and discussed within the context of the orthodontic literature.



## DR. BJÖRN LUDWIG

### Curriculum Vitae

Dr. Björn Ludwig maintains a private orthodontic practice in Traben-Trarbach, Germany. He is assistant professor at the University of Homburg/Saar, Department of Orthodontics and his focus of research work is skeletal anchorage and 3D imaging. He has published more than 200 peer reviewed clinical and scientific articles and is editor of several books. Additionally, he is editor in chief of the Quintessenz publication "Kieferorthopädie" (Orthodontics) and co-editor of the Journal of Clinical Orthodontics. Dr. Ludwig works in the council of the German Board in Orthodontics and is past president of the European Begg Society.

## VENUE

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## TUITION

Early bird: 599€ per person incl. VAT  
After January 31<sup>st</sup> 2023: 699€ per person incl. VAT  
Tuition includes: lectures, lunch and drinks.  
You are responsible for transportation and lodging.

## CERTIFICATE

Each participant receives a certificate at the end of the lecture,  
which confirms his participation.

## WITHDRAWAL

We ask for your understanding that a withdrawal free of charge is only possible  
up to 4 weeks before the event and in written form.

## ACCOMODATION

Please contact the hotel directly to reserve a hotel room.



For more information and registration, please contact Ms. Laura Ehrke  
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