4th International Congress
of the Austrian Society of Endodontology

“Endodontics – Facts and Fantasy”
December 1-3, 2016
Palais Ferstel, Vienna/Austria

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Preface

It is a great pleasure for us to invite all endodontists and all colleagues interested in our specialty to the 4th International Congress of the Austrian Society of Endodontics. This meeting will be held in Vienna, Austria on December 1st to 3rd, 2016. Since our founding congress in 2010, we have had 2 very successful meetings every second year in Vienna.

This congress promises to be another exciting event covering all aspects of modern endodontics wrapped up in clear take home messages. Preconference Workshops with Tom Schloss, Jürgen Wollner, George Sirtes and Christof Pertl will set the scene for further renowned international experts: Katarina Beljic-Ivanovic, Kerstin Galler, Alan Holland, Vladimir Ivanovic, Zvi Metzger, Roeland De Moor, David NJ Ricketts, Frank Setzer, Julian Webber, Ghassan Yared and Matthias Zehnder.

If you want to be sure about the interpretation of 3D diagnostics, if you ever wanted to know what is fact and what is myth in root canal preparation, if you want to shape the root canal with confidence, or become expert in disinfection of the root canal system – now is the time to come and engage in cutting-edge techniques, technology and know-how in the field of Endodontics in the 21st century. This event is a major educational platform: international clinicians will interact with researchers to provide a continuum of excellence and innovation. Grab the opportunity to discuss ideas and concepts with peers and colleagues and enjoy the hospitality of Vienna.

The city of Vienna has several times been voted the most livable city in the world – come and make it yours for a couple of days. It is beautiful and vibrant at this time of the year when you may discover the magic of Advent season, enjoy world famous museums or the Vienna opera.

The Conference venue itself, the famous Palais Ferstel is located right in the center of historic Vienna. This interesting building has a 140 year old history of being a famous meeting point for intellectuals and artists and forms an elegant and stylish setting for receptions and conferences.

We hope to see you in our beautiful city in December 2016,

Johannes Klimscha
Matthias Holly
Congress presidents
General Information

Scientific Comitee:
Thomas Bernhart
Adriano Crismani
Klaus Ebeleseder
Andrej Kielbassa
Andreas Moritz

Congress President:
Matthias Holly
Johannes Klimscha

Congress Office:
Ärztezentrale med.info
Contact: Carmen Zavarsky/Iris Bobal
“ÖGEndo 2016”
Helferstorferstraße 4, 1010 Vienna/Austria
Tel.: +43 1 536 63-23 or -48, Fax: +43 1 536 63 61
e-mail: azmedinfo@media.co.at

Hotel accommodation: www.oegendo.at, www.endocongress.at

Congress Venue:
Palais Ferstel – Strauchgasse 4, 1010 Vienna/Austria

Registration is possible online via: www.oegendo.at, www.endocongress.at

Exhibition, Sponsorship:
MAW Medizinische Ausstellungs- und Werbegesellschaft
Tel.: +43 1 536 63-48, Fax: +43 1 535 60 16
Kontakt: Iris Bobal, e-mail: iris.bobal@media.co.at, maw@media.co.at

Congress language: English
with Translation into German
# General Information

## Registration fee:

### CONGRESS, December 2-3, 2016

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### ENDO CIRCLE TRAINING, December 2, 2016

Special rate (only in combination with congress registration) € 150,–

### PRE-CONGRESS, December 1, 2016

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Pre-Congress

Thursday, December 1, 2016

09:00 – 13:00  Workshop Endosurgery by ADS/W&H
Apicoectomy and retrograde root end filling
Christof Pertl, Graz
Place:
Ivoclar Vivadent GmbH
Tech Gate Vienna
Donau-City-Straße 1
1220 Vienna
Austria

09:00 – 13:00  Meet the Expert on SAF
The Self-adjusting File (SAF) System: a comprehensive update,
with live demonstration and interactive discussion
Zvi Metzger, Tel Aviv
Place:
Ivoclar Vivadent GmbH
Tech Gate Vienna
Donau-City-Straße 1
1220 Vienna
Austria

14:00 – 18:00  Workshop CBCT by MORITA
Treatment planning with modern CBCT-Technology– Interactive Presentation
Tom Schloss, Jürgen Wollner, Nuremberg
Place:
Steigenberger Hotel Herrenhof
Herrengasse 10
1010 Vienna

14:00 – 18:00  Workshop Ergonomics by ZEISS
Enhancing ergonomics and workflow in the multidisciplinary use of the DM
George Sirtes, Zurich
Place:
Doctor’s Office Dr. Holly & DDr. Klimscha
Dorotheergasse 12/13a
1010 Vienna

Presentation of the best works submitted by young scientists on the subject of Endodontics – Price Dotation of Euro 6.000,- (€ 3.000,-, € 2.000,-, € 1.000,-).
Main Program, Palais Ferstel
Friday, 2016 December 2

09.00 – 13.30  **Endo Circle Training: Arkadenhof**
  7 Systems a 30 minutes

12.00 – 13.50  **YSP – Young Scientist Presentation**
  Oral Presentation of the best approved Works from Young Scientists
  
  **Break – Dental Exhibition**

14.00 – 15.30  **Shaping Canals with Confidence**
  Julian Webber, London
  
  **Break – Dental Exhibition**

16.00 – 17.30  **Reciproc blue: Why?**
  Ghassan Yared, Ontario

19.30  **Viennese Heuriger:**
  Feuerwehr Wagner
  Transfer Information onsite

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**Endo Circle Training**

**Try it!**

Different endodontic instruments and devices in a circle training set up.
Participants will have the opportunity to experience all the relevant endodontic systems of instrumentation during this hands-on-course.
Compare the effectiveness & comfort and find your individual preference.
How to make a great file even better?

Simple, but effective: The new RECIPROC® blue file generation combines the ease of the original RECIPROC® one file endo concept with enhanced safety in root canal preparation for patients. An innovative heat treatment makes RECIPROC® blue particularly flexible to ensure a smoother and safer progression in the canal and gives it in addition its characteristic blue color.

A great file. Even better.
Main Program, Palais Ferstel
Saturday, 2016 December 3

09.00 – 09.45 Treatment Options of deep carious lesions
David NJ Ricketts, Dundee

09.45 – 10.30 Advances in endodontic tissue regeneration
Kerstin Galler, Regensburg

Break – Dental Exhibition

11.00 – 11.45 Modern disinfection of the root canal system
Matthias Zehnder, Zürich

11.45 – 12.30 Apical periodontitis: The biological basis of traditional treatment vs. a futuristic approach
Zvi Metzger, Tel Aviv

Lunch Break – Dental Exhibition

13.30 – 14.00 CBCT and Complex Root Canal Anatomy-
Diagnosis, Report, Therapy
Vladimir Ivanovic

14.00 – 15.00 3D in Endodontics
Alan Holland, Bristol

Break – Dental Exhibition

15.30 – 16.15 Facts and Myths in Endodontic Canal Preparation
Frank Setzer, Pennsylvania

16.15 – 17.00 Value added cleaning and disinfection of the root canal: ultrasound, laser-activated irrigation, and nanodisinfection
Roland DeMoor

17.00 – 17.15 Award Ceremony of the Young Scientists Presentations
Congress Venue and Dinner Party

Congress Venue
1010 Vienna, Palais Ferstel

Dinner Party bei Feuerwehr Wagner
1190 Vienna, Grinzinger Str. 53
Sponsors and Exhibitors

**Sponsors**

- **Dentsply Sirona**
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- **DENTSPLY De Trey GmbH, Konstanz, D**
- **HanChaDent Dental- und Medizintechnik Dentalvertrieb, Zwenkau, D**
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- **QUINTESSENZ Verlags-GmbH, Berlin, D**
- **SENDOLINE AB, Täby, SE**
- **VDW GmbH, München, D**
- **Carl ZEISS GmbH, Wien**

(as per printing date)
Kerstin Galler

CV


Scientific main focus: Revitalisation, Regeneration of the dental Pulp, Dental Pulp stem cells, Funktionalization of Hydrogel-biomaterials für applications in the range of Tissue Engineering

ABSTRACT – Lecture

Advances in endodontic tissue regeneration

During an initial root canal treatment vital pulp tissue is replaced by a synthetic material, and the physiological tissue functions gets lost. This is especially problematic in teeth with incomplete root development. Research on pulpal tissue shows that the regeneration of vascularized tissue in the root canal is possible and even formation of tubular dentin can be achieved. Case reports indicate that in teeth with incomplete root development, regeneration of the pulp tissue and a further increase in root length is possible, after provocation of internal hemorrhaging in the root canal.

The "revitalization" in teeth with incomplete root formation after pulp necrosis represents an alternative treatment method for apexification. Biology-based concepts are currently increasingly included in clinical treatment protocols. Suggested procedures are also presented by international endodontic specialist societies. In this presentation, concepts are presented and summarized for pulpal regeneration. The recent findings on treatment protocol and prognosis of revitalization are discussed.
Alan Holland

CV

Alan Holland LDS RCS, BChD, M.Sc. is the principal Endodontic Specialist at the Bristol Endodontic Clinic. After graduating at Leeds Dental School in 1978, he worked in general practice before taking his M.Sc. in advanced restorative dentistry in 1981 at the Eastman Dental Institute.

One of the most experienced endodontists and opinion leaders in the UK, Alan has been taking endodontic referrals since 1991 and was the first private practitioner to use an operating microscope. His previous experience in advanced restorative practice ensures he is sympathetic to the needs of his referrers and their final restoration. He has lectured nationally and internationally, authored several articles, and worked in television and radio. A former hands-on tutor at the Bristol Dental Hospital he has run many practical endodontic courses throughout the UK. In 1999 he was accepted on to the GDC Specialist Endodontic register and runs regular seminars at the Bristol Endodontic Clinic.

He has also developed Dentavital a range of dental supplements aimed at providing support for Endodontics, Periodontics and Implant Surgery. An early convert to CT scanning he has been using the Carestream 9000 CBCT machine for over 3 years and it has now become an essential tool in diagnosing and treating his endodontic referrals.

ABSTRACT – Lecture

3D in Endodontics

The CBCT has revolutionised endodontic diagnosis and is now an essential tool in the armamentarium of the specialist endodontist. I will discuss the justification for regular use in Endodontic practice with multiple examples of the diagnostic capabilities of the 3D scanning tools and some of its wider applications in dentistry. The limitations of periapical radiography in diagnosis and the implications for endodontic treatment in the future.
Vladimir Ivanovic & Katarina Beljic-Ivanovic

Dr Vladimir Ivanovic, DDS, MSc, Spec, PhD, SDS

CV

Full time Professor in Restorative Odontology and Endodontics, School of Dental Medicine, University of Belgrade

Current positions:
- Chairman of the Cathedra for Dental Pathology
- Head of Restorative Odontology
- Member of the Serbian Medical and Dental Association, Balkan Stomatological Society (BaSS), ESE, and ADEE.
- Founder and President of the Serbian Endodontic Society (SES)
- Country representative in the General Assembly of ESE
- Member and reviewer of the Editorial Board in “Endodontic Practice” and “ENDO-Endodontic Practice Today”.

Prof. Ivanovic is author and co-author of seven textbooks for undergraduate and postgraduate studies, editor of translated “Textbook of Endodontology” (Bergenholtz, Horsted-Bindslev & Reit) – “Endodontologija”, and has published over 150 articles in international and national refereed journals. He gave presentations and lectures at numerous international scientific meetings, symposiums and congresses, moderated and conducted seminars and hands-on courses in restorative dentistry and endodontics on current instrumentation techniques and technologies in Serbia and internationally. Professor Ivanovic is a member and reviewer in the editorial boards of two international journals: Endodontic Practice Today-ENDO, and Endodontic Practice. In the last two decades he has been organizing 18 endodontic meetings in Belgrade, with world-wide recognized lecturers.

Dr Katarina Beljic-Ivanovic, DDS, MSc, Spec, PhD

CV

Associate Professor in Restorative Odontology and Endodontics, School of Dental Medicine, University of Belgrade

Current positions:
- Member of the Serbian Medical and Dental Association, Balkan Stomatological Society (BaSS) and ESE.
- Secretary of the Executive Board of the Serbian Endodontic Society.
Dr Beljic-Ivanovic is co-author in the Serbian translation of the “Textbook Endodontology” – “Endodontologija”, has published 16 articles in international and national refereed journals, presented 28 scientific and clinical papers at international and national conferences, symposiums and congresses. She moderates and co-ordinates hands-on endodontic courses, and is recognized lecturer for continuing education and professional development. Dr Katarina Beljic-Ivanovic is specialized in the use and application of CBCT technique and technology in endodontics, both in research and endodontic treatment of complicated clinical cases with complex root canal anatomy.

ABSTRACT – Lecture
CBCT and Complex Root Canal Anatomy- Diagnosis, Report, Therapy
Cone-beam computed tomography (CBCT) or Digital volumetric tomography (DVT) is the greatest “break-through” in dental imaging technology of 21st century, primarily because for the first time a practitioner can use harmless radiographic system as a powerful tool to visualize any area of interest in all three planes, obtaining 3D images. The lecture presents CBCT series of images and detailed analysis of various morphological groups of teeth, with particular accent on the mandibular premolars and maxillary molars, in both extracted teeth and clinical cases with unusual and complex root and root canal anatomy, relation and special orientation of the roots to surrounding anatomical structures, and interrelationship among canals inside the multi-canal roots. The significance of the canal orifice geometry, number, location and dimension of the apical foramen/foramina and their impact on the working length determination, development and treatment plan of various periapical and periradicular pathosis is pointed out. Incidence/frequency of the anatomical modalities in maxillary molars and mandibular premolars in Serbian population, that has been studied throughout two last decades, with special interest on teeth with fused roots, is showed in details, with its impact on the difficulties and possible complications during operative procedures and root canal instrumentation, focusing on important stages of endodontic therapy, treatment outcome and follow ups of different types of endodontic pathology. Throughout the lecture the stress is put on the wide abilities of CBCT and its software to acquire and reveal “hidden” details of interest for clinical endodontics, like overlooked and un-instrumented canals, and what the report of all those findings should contain.
Prof. Zvi Metzger graduated from the Hebrew University School of Dental Medicine in Jerusalem in 1970. Since 1973 he has been on the faculty at the Tel Aviv University School of Dental Medicine, where he served as Dean in the years 1987-1991. Prof. Metzger was Chairman of the National Board of Endodontics in Israel and Chairman of the Israeli Endodontic Society (2000-2002). He was an Associate Professor of Oral Biology and Professor of Endodontontology at Tel Aviv University. Prof. Metzger was a visiting fellow at the National Institute of Dental Research, NIH, Maryland (1978-1981) and a visiting professor at the University of North Carolina at Chapel Hill (1995-1996). He served as Director of Research Laboratories (1981-2009) and recently (2008-2012) as Chairman of the Department of Endodontontology at the School of Dental Medicine at Tel Aviv University, where serves now as Professor Emeritus. He retains a private endodontic practice in Tel Aviv.

**ABSTRACT – Seminar**

**The Self-adjusting File (SAF) System: a comprehensive update, with live demonstration and interactive discussion**

This session will include a comprehensive update on the Self-adjusting File (SAF) System and its scientific background and clinical application, presented with live demonstrations of each of the topics below. Discussion will be interactive, with the audience invited to take an active part in it. The topics to be covered will include: (1) The concept of Minimally Invasive Endodontics, (2) The new mini-ENDOSTATION and its use and application, (3) Structure and function of the SAF file, (4) The SAF function in oval and in curved canals, (5) Avoiding micro-cracks in endodontically-treated roots, by using the SAF System,(6) The SAF as an effective and safe irrigation system, (7) Effective obturation of oval canals, (8) Effective re-treatment with the SAF System and (9) The new clinical protocol for the SAF System. The session will be suitable for both experienced SAF users and for those who have no previous knowledge of this innovative system. The participants will be provided with reading material in the form of a recently published review on this innovative topic.

**ABSTRACT – Lecture**

**Apical periodontitis: The biological basis of traditional treatment vs. a futuristic approach**

The immuno-biological nature of apical periodontitis will be discussed, as a basis for understanding of the development, function and healing of
periapical lesions. The process of healing of the lesion after traditional treatment will be discussed and explained, as well as the reasons for failure to heal of some of the lesions. Two futuristic approaches to enhance the healing of periapical lesions will be presented, based on the above knowledge: one based on pharmacological intervention and one on minimally invasive enucleation of the lesion through a root canal approach.

Roeland De Moor

CV
Prof. Dr. Roeland De Moor graduated in 1984 at the Ghent University (Belgium), where he completed a MSc in Paediatric Dentistry and Traumatology, and a MSc in Restorative Dentistry and Endodontology. He received his PhD in 1995.
From 1984 until 1998 he ran a private dental clinic with focus on restorative dentistry and endodontics, and became endodontist in 1997.
He became associate professor in 1998, full professor in 2008 and ordinary full professor in 2014 at the Ghent University, where he teaches restorative dentistry, endodontics and dento-alveolar traumatology. He is the chair of the Department of Restorative Dentistry and Endodontology, and in charge of the three-year Master after Master programme in Endodontics.
Research is focussed on root canal cleaning and disinfection a.o. with laser activated irrigation and light activated nanoparticles, the use of lasers and light in endodontics such as Laser Doppler Flow Metry and dental laser bleaching. His department has also an epidemiological research line focussing on endodontic quality, minimal invasive restorative and endodontic techniques and the use of bioactive materials in endodontics.
He gives lectures worldwide on the use of light and lasers in endodontics, on dental laser bleaching, and on the application of nanotechnology for endodontic purposes. He is (co)author of more than 150 international peer reviewed articles together with the Ghent Dental Photonics Research Clustre and BIOMAD (Biomedical Applications in Dentistry).

ABSTRACT – Lecture
Value added cleaning and disinfection of the root canal: ultrasound, laser-activated irrigation, and nanodisinfection
Among present-day marketed systems ultrasonic activation appears to be the best way to activate and potentiate endodontic irrigants. An alternative for ultrasonic activation of irrigants is laser activated irrigation (LAI) or photon-initiated acoustic streaming. Based on present-day research it
appears that LAI (especially with Erbium lasers) can be more efficient for debris removal out of root canals and interaction with the endodontic biofilms thanks to the induction of specific cavitation phenomena and acoustic streaming. Other wavelengths are also used for endodontic applications and some are now explored to be used for LAI.

Another way to interact with biofilms is to rely on metal nanoparticles. The exploitation of the unique attributes of nanoparticles to combat infections has increased markedly over the past decade. The latest insights into the application of nanoparticles for endodontic purposes, including their use in photodynamic therapy and laser-induced photoporation is discussed.

**Christof Pertl**

**CV**

1991–2005 Department for Dental Surgery and Radiology, University Dental Clinic Graz
Since 1992 Adjunct Associate Professor at the School of Dental Medicine, University of Pennsylvania
1993 clinical-scientific stay at Dep. of Oral and Maxillofacial Surgery, Guy's Hospital London
1998 state doctorate in ZMK (dental, oral and maxillofacial surgery) under particular consideration of Oral Surgery
1998 to 1999 visiting professor and since then lecturer at the Harvard School of Dental Medicine, Boston
Since 2005 shared doctors’ office Dobida-Pertl in Graz, Lectureship at the Medical Universities Graz and Vienna
2007–2009 president of the Austrian Society for Implantology
2012–2015 president of the Austrian Society for Endodontology
Since 2009 board member of the Austrian Societies for Implantology and Endodontology

**ABSTRACT – Workshop**

**Apicoectomy and retrograde root end filling**

The workshop is designed to provide the most current advancements of endodontic surgery and it will allow the participants to perform the different surgical techniques in the treatment of periapical inflammation.

We will learn different flap designs, how to make the osteotomy, tips and tricks to remove granulomatous and cystic tissue, to perform a correct apicoectomy, retropreparation and retrofill and finally we will exercise different suturing techniques. The use of a surgical operating microscope will be part of the training.

A large part will be hands-on-training combined with the most relevant background information. The participants will receive a straight forward training course in order to transform this into their clinical practise.
David NJ Ricketts

CV

David Ricketts, Professor of Cariology and Conservative Dentistry / Honorary Consultant in Restorative Dentistry, Dundee Dental School, University of Dundee, Scotland

David Ricketts qualified at Guys Hospital Dental School, London, now GKT Kings College, London in 1986. He worked in hospital and General Practice for two and a half years and returned to Guys Hospital to study for an MSc in Conservative Dentistry in 1989. During this period his main research interest in Cariology, and in particular caries diagnosis and its appropriate management, began and led to a PhD which was gained in 1995. He has published widely in his research area and in other aspects of restorative dentistry and has spoken on such topics worldwide. His research has led to collaboration with colleagues in numerous European Countries, the Middle East and North and South America.

In 1999 David moved to Dundee and was promoted to Senior Lecturer / Honorary Consultant in Restorative Dentistry in 2003. In 2006 he became leader of the Section of Operative Dentistry, Fixed Prosthodontics and Endodontontology at Dundee Dental School and in 2007 became Professor in Cariology and Conservative Dentistry.

David was Associate Editor of Caries Research 2010 to 2014 and sits on the Editorial board of Dental Update. He has contributed to a number of text books on Cariology and is the joint Editor and contributor to two text books on “Indirect Restorations” and “Advanced Operative Dentistry: a practical approach”.

In 2013 he and his co-authors completely re-wrote a Cochrane Systematic review on Operative caries management in adults and children. This review challenges conventional wisdom of complete caries removal during cavity preparation and has implications for the management of deep caries in helping to preserve pulpal health.

ABSTRACT – Lecture

Treatment options of deep carious lesions

Aims and Objectives

1 Have an understanding of the restorative cycle and the impact that operative intervention has on pulpal health.
2 To re-evaluate and give guidance as to when to restore a carious lesion.
3 To describe the inter relationship between the carious process and pulp dentine complex reactions.
4 Describe how the balance between the carious process and pulp dentine complex reactions can be influenced by managing caries from a more biological approach rather than a surgical approach.
In contemporary practice, dental caries should be managed preventively, but if this preventive approach fails and the lesion progresses a decision has to be made to remove caries and treat the lesion operatively. Knowing that operative intervention has an impact on pulpal health, this presentation will give evidence for when a dentist should treat a tooth operatively, it questions accepted teaching in relation to how much caries needs to be removed and indeed does an indirect pulp cap exist or is this synonymous with today’s conventional cavity preparation. In a tooth with no signs or symptoms of pulp pathology and a deep carious lesion, conventional caries removal can lead to pulpal exposure. The prognosis of a direct pulp cap in such a situation will be briefly discussed and the presentation will challenge whether the carious lesion can be treated in such a way, based upon the microbiology, structure and behaviour of the lesion, with an aim to minimise pulpal damage and hence preserve the vital pulp.
**Speakers**

**Jürgen Wollner**

**CV**
Since 2015 board member „Association of German Certificated Endodontologists“ (VDZE)
Since 2013 collaboration at the „Initiative Frontzahntrauma“
Since 2011 Trainer at the ZEISS Dental Academy, Author of several clinical articles in the Endodontology and CBCT 2011 TEC2 Endodontology Curriculum under the scientific leadership of Prof. Martin Trope (University of Pennsylvania), key activities Endodontology
Since 2010 Speaker in the fields Endodontology, CBCT and Ergonomics
Since 2004 work at the dental microscope and practice for Microdentistry
Since 1994 resident doctor in own doctor’s practice
1994 Promotion at the Friedrich-Alexander University Erlangen
1992 Approbation at the Friedrich-Alexander University Erlangen
1986–1992 study of Dentology in Düsseldorf und Erlangen

**ABSTRACT – Seminar**

**Treatment planning with modern CBCT-Technology – Interactive Presentation**

The purpose of this presentation is to provide the advantages and benefits of CBCT in the diagnosis of endodontic disease and to create consequently an optimal Treatment plan for the patient. The introduction of cone beam computed tomography (CBCT) for everyday practice improved the diagnosis and therapy significantly in general Dentistry and especially in the endodontic treatment. The presence and location of periapical changes or root resorptions are identified more accurately and earlier through the CBCT. The additional information leads to a more accurate diagnosis and adequate therapy, thus results in a better treatment planning and prognosis estimation for the patient.

The main advantages of CBCT are pointed out, especially for resorptive lesions or pain cases with negative radiographic findings. In addition, the limitations of CBCT are discussed and illustrated with clinical cases.

**In this interactive presentation standard and special cases will be presented and everyone of the audience can select the appropriate treatment plan via a voting system. Then the different results are presented and discussed together for each case.**
Facts and Myths in Endodontic Canal Preparation

The latest trend in Endodontics is minimally invasive root canal treatment, addressing endodontic therapy from a restorative perspective. This includes minimal access cavity preparation, as well as limited cervical and apical instrumentation. The lecture reviews the evidence behind this approach and contrasts it to a biology centered treatment protocol favoring healing of disease over ultimate preservation of hard tissue structure. Access and preparation techniques, selection of file systems, disinfection protocols and the importance of permanent restoration from the endodontic perspective will be discussed.
George Sirtes

CV

George Sirtes graduated and received his doctorate from the University of Bern in Switzerland. As a GP since 2000, he maintains a private practice in Zurich which focuses on endodontology and microsurgery. As of 2003 he is a clinical instructor in the Endodontic Division at the University of Zurich in Switzerland. Since 1996 he is working intensively and almost exclusively with the dental microscope. His treatment modalities range from composite fillings and fixed prosthodontics to implantology and sinus lift procedures. Between 1999–2002 he was a consulting dentist in the development of the high-end ProErgo surgical operating microscope (Zeiss company, Oberkochen, Germany).

Dr. George Sirtes has published and lectured on various facets in endodontology nationally and internationally. Additionally he has lectured on ergonomics and workflow in the multidisciplinary use of the dental microscope (DM). He is a member of numerous national and international dental associations, i.e. AAE, ESE, ESMD and SSE.

ABSTRACT – Workshop

Enhancing ergonomics and workflow in the multidisciplinary use of the DM

Since the 90s, one of the most important revolutions in dentistry was the introduction of the dental microscope (DM). This introduction had an important influence on the human-machine interface (Ergonomics) such as configuration of the working place and the microscope, the right position of the patient, the dentist and his/her assistant. We should adapt our working technique, the assistance and our handling of instruments when working with the dental microscope whilst decreasing neck, back and eye strain.

In this lecture and course we will describe and train the following topics:

1. Configuration of the working place and the microscope, as well as the arrangement of the instruments around the working place and the microscope.
2. Correct dentist position.
3. Correct patient position for treatment in lower jaw and upper jaw. Different positions of the patients head during treatment with the dental microscope in non-surgical and surgical interventions.
4. Correct position and assistance of the dental assistant during 4- or 6-handed dentistry.
5. Various hands-on exercises.
Dr Julian Webber, BDS, MS, DGDP, FICD qualified from Birmingham Dental School. A recipient of the prestigious Charles Freeman Scholarship of the American Dental Society of Europe, he was the first UK dentist to achieve a Master of Science degree in endodontics (Northwestern University Dental School, Chicago, USA). Dr Webber has held teaching positions both at Guy's Hospital and at the Eastman in London, at the same time maintaining a practice limited to endodontics in Harley Street in Central London. Dr Webber has written for numerous journals and textbooks on endodontics, is the editor-in-chief of Endodontic Practice journal and has lectured worldwide teaching general dentists and endodontists modern endodontic skills.

He is the co-inventor of Dentsply Maillefer's WaveOne launched in 2011 and the latest version, WaveOne Gold both single NiTi files for use in reciprocation.

ABSTRACT – Lecture

Shaping Canals with Confidence

Preparation of the root canal and its final shape is the cornerstone for adequate cleaning and effective three dimensional obturation, thus fulfilling the biological and mechanical objectives for success in endodontics. The use of Nickel Titanium mechanical endodontic instruments has changed forever the way we prepare our canals and their advantages are many. However, many colleagues are reluctant to embrace the technology on the basis that techniques are too complicated, too many instruments are required to achieve the desired outcome and the attendant cost of this is prohibitively expensive.

Dentsply Maillefer's WaveOne launched in 2011 was specifically designed as a SINGLE Nickel Titanium instrument to shape canals utilizing a reverse reciprocating motion with minimal prior enlargement of the canal required. Enlargement of the Glide Path is the perfect set up for any reciprocating shaping technique. Dentsply Maillefer's ProGlider is the perfect instrument for this.

WaveOne Gold is the latest iteration of WaveOne exhibiting advanced gold metallurgy, optimised tip diameters, tapers and an altered cross section that produces a file that really improves safety, efficiency and flexibility when shaping canals. In over 80% of cases treated only a single WaveOne Gold file is needed thus reducing the number of instruments in any given sequence to an absolute minimum. WaveOne Gold takes simplicity and treatment success to another level.
Simplified three dimensional obturation of the root canal system is now available to all dentists using Gutta Core which is manufactured using cross linked polymer chemistry to produce a core of gutta percha coated with gutta percha (unlike the plastic carrier of Thermafil). General dentists and endodontists will benefit from Dr Webber's incredible experience as a world-renowned clinical endodontist, which spans more than 30 years.

Learning objectives:
- The importance of Glide Path management and pre enlargement with Dentsply Maillefer's ProGlider
- Use single file nickel titanium reciprocating WaveOne Gold instruments to confidently shape many canals
- Understand the importance of irrigation and how to enhance it
- Predictably fill root canal systems efficiently with warm gutta percha obturation techniques using Gutta Core

**Ghassan Yared**

**CV**
Professor Ghassan Yared is an endodontist Canada. He was a full-time professor at the University of Toronto. Professor Yared has been elected for 4 consecutive years as the "Best Teacher of the Year", and has received the highest teaching award at the University of Toronto. He has published extensively in peer-reviewed international endodontic journals. Professor Yared is a reviewer for the International Endodontic Journal, the Journal of Endodontics, Endodontic Topics, and for Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontics. He is also a member of the Canadian Academy of Endodontology and the American Association of Endodontists

**ABSTRACT – Lecture**

**RECIPROC Blue: why?**
This lecture will introduce RECIPROC blue, the new generation of single file RECIPROC instruments. The benefits of RECIPROC blue instruments will be presented; the method of use for initial treatments and root canal retreatments will be discussed.
Matthias Zehnder

CV
Matthias Zehnder was born 1969 in St. Gallen/Switzerland. High School certificate Typus B at the Kantonsschule St. Gallen 1988. Completion of the study for Dentology at the University Bern 1994, Promotion 1996. Assistant doctor in the private practice, in addition part-time research assistant at the station for Oral Cell biology at the University Bern. Research stay from 1998 on at the Department of Oral Biology and Periodontology, Boston University Goldman School of Dental Medicine. Afterwards 2-year specialization course in Endodontology at the Columbia University School of Dental and Oral Surgery in New York. Since Autumn 2011 employment at the Clinic for Preventive Dentistry, Parodontology und Cariology at the University Zurich; since 2004 Director of the field Endodontology. Promotion to PhD at the medical Faculty of the University Turku (Finnland) 2006; 2007 grant of ther “venia legendi” at the University Zurich, since 2014 Titular professor. Matthias Zehnder was from 2008–15 Associate Editor at the International Endodontic Journal; since 2016 editor in chief of the Swiss Dental Journal.

ABSTRACT – Lecture
Modern disinfection of the root canal system
The root canal disinfection can nicely fit into the congress theme “Fact and Fantasy”. Before disinfection there is infection. The principles of endodontic infection should be understood, to perform an adequate disinfection. There has been much fantasizing about root canal infection and some false ideas have settled in the minds of clinicians. Central is the mistaken idea enterococci would be therapy-resistant germs, which are only eradicated by modern methods from the canal system. This presentation has the subject of infection and disinfection of the root canal system, with a critical look, to show that many (but not all) ways lead to a successful cleaning and disinfection.
Surf the canal with confidence

Wave•ONE® GOLD

The ONE file reciprocating system

Now even better thanks to GOLD technology:
- More resistance to cyclic fatigue
- Enhanced file flexibility
- Proven WAVEONE® simplicity

For more information please visit www.dentsplymaillefer.com