

# The 3D Revolution in Endodontics

A hands-on course teaching practical ways of using recent endodontic advances to help you to improve patient outcomes

presented by

**Professor James Prichard, Dr Justin Dinley,  
Dr Dani Mancuso, Dr James Aquilina  
or Dr Anish Khatri**

**with 3 hours  
verifiable cpd**

**schoTTlander**  
improving dentistry together



**XP-endo Shaper**

# The 3D Revolution in Endodontics

A hands-on course teaching practical ways of using recent endodontic advances to help you to improve patient outcomes

These busy and fast moving courses will teach delegates how to use recent advances in endodontic treatment to improve their patients' clinical outcomes. They will be limited to 12 dentists each to ensure close supervision and opportunities to address dentists questions and concerns.

The presenters will take the delegates through the principles and objectives of successful endodontic treatment, including the biological principles of canal preparation and its link to current thinking on irrigation and disinfection.

You will see the limitations of previous thinking in endodontics, which assumed that canals were round and that their preparations should also be. You will learn how recent advances in NiTi metallurgy for the first time allow dentists to shape, finish and clean canals according to their true 3 Dimensional morphology. You will see how you can not only clean far more of the canal system without sacrificing root dentine, but also obturate with groundbreaking new Bioceramics. All of the course presenters are strong believers in four handed dentistry, and see their nurses active involvement as critical to the success of their endodontic treatments. We would therefore encourage delegates to attend the course with their nurses, with a fee of £30 for the first accompanying nurse.

## Aims, Objectives & Anticipated Outcomes

- Understanding the biological principles and objectives of successful endodontic treatment.
- Understanding why 3 Dimensional cleaning and filling of the canal can improve your clinical success rate.
- Learning about the new technologies behind the XP-endo range. Understanding how a single XP-endo Shaper file can instrument more of the canal more efficiently, generate less debris in the apical third and yet be less aggressive than traditional NiTi files.
- Learning about the clinical uses and outcomes with XP-endo Shapers and Finishers.
- Intensive hands-on training to help delegates successfully apply new technologies in practice.
- Understand how the new TotalFill Bioceramic materials change the philosophies of obturation and dealing with root repairs.



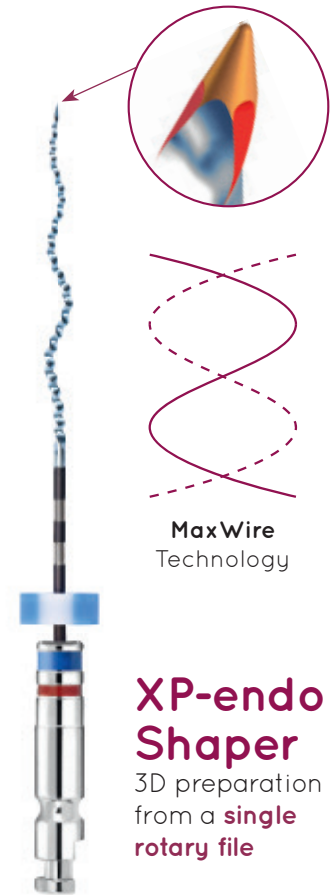
Freephone 0800 97 000 79

**schoTlander**  
improving dentistry together

Freefax 0800 97 000 78

# The Programme

Thursday late afternoon:	Friday morning:	Friday afternoon:	
15 30	09 00	13 00	<i>Registration &amp; light refreshments.</i>
15 45	09 15	13 15	Introduction to the course.
15 50	09 20	13 20	<b>Lecture 1:</b> Principles and objectives of successful endodontic treatment. Biological principles of canal preparation and how this links to current thinking on irrigation and disinfection.
16 15	09 45	13 45	<b>Lecture 2:</b> New advances in endodontic instrumentation. Using developments in metallurgy and file design to improve endodontics. Practical tips on Glide Path management and demonstration of the new XP-endo Shaper, followed by demonstration.
16 45	10 15	14 15	<i>Refreshment break.</i>
17 00	10 30	14 30	<b>Hands-On 1:</b> Participants prepare a glide path and instrument an endo block using XP-endo Shaper.
17 20	10 50	14 50	<b>Lecture 3:</b> Three-Dimensional finishing and obturation using XP-endo Finisher and Bioceramics followed by demonstration.
17 40	11 10	15 10	<b>Hands-On 2:</b> Using True Teeth participants prepare a glide path instrument with XP-endo Shaper, finish with XP-endo Finisher and obturate using bio ceramics.
18 15	11 45	15 45	<b>Final discussion.</b>
18 30	12 00	16 00	<i>Course Ends.</i>



MaxWire  
Technology

**XP-endo  
Shaper**

3D preparation  
from a **single**  
rotary file

# The Presenters

## Professor James W Prichard

BDS (ULond); MSc (ULond); LDSRCS (Eng);  
MFGDP (UK); FIADFE (USA); FHEA (UK);  
FBARD (UK).



Visiting Professor & Programme Leader, MClintDent in  
Endodontology at BPP University working with the City of London Dental School.

James is a renowned teacher in Endodontics, delivering hands on courses, lectures and seminars throughout the UK and overseas. He has held the posts of Associate Clinical Teacher, Clinical Teaching Fellow and Clinical Supervisor in Endodontics on the Masters Programme at The University of Warwick prior to joining BPP University in London as Visiting Professor and Programme leader for the MClintDent in Endodontology.

He has supervised postgraduate students in Endodontics including several dissertations and theses. He has published in the scientific journals including the International Endodontic Journal, The British Dental Journal.

He has lectured at conferences including the British Dental Association annual meeting and the British Academy of Restorative Dentistry. He is a Key Opinion Leader for several endodontic companies and has demonstrated the latest advances in endodontic technology for Schottlander and FKG Dentaire at the Dental Showcases and Dentistry Show in the UK since 2004. He gained his Masters Degree (MSc) in Restorative Dental Practice with distinction for his dissertation which he completed at The Eastman Dental Institute in London.

He is a Fellow of the International Academy of Dental Facial Esthetics in New York, a Fellow of the Higher Education Academy and a Fellow of the British Academy of Restorative Dentistry. He is a member of the British Endodontic Society and the European Society of Endodontics.

## Dr Anish Khatri

BDS MSc (Endo), PG Cert (Clin Ed)



Anish graduated in 1993 in South Africa and emigrated with his family to the UK in 2002. He is passionate about endodontics and completed an MSc in Endodontics in 2012. He has been a Foundation Dentist Trainer for six years and completed a Post Graduate Certificate in Clinical Education.

He currently lectures the FD's on their Endodontic study days. Anish has been accepting referrals for endodontics since 2007 and is keen on supporting his colleagues with complex endodontic cases and improving their endodontic skills. In October 2016 Anish has been appointed as Honorary Clinical Lecturer in Endodontic Speciality Teaching at the School of Dentistry - University of Birmingham.

## Dr Justin Dinley

BDS, MSc (Endo), Dip ImpDent, RCS (Eng), DPDS, MFGDP



Justin has over 6 years endodontic referral experience and has recently completed an MSc in Endodontics related to obturation and bioceramics.

Justin has a practice limited to endodontics, he is also a senior lecturer in Endodontics on an MClintDent Programme. He covers all aspects of non-surgical and surgical endodontics as well orofacial pain diagnosis and is an opinion leader in the field of regenerative technologies.

## Dr Dani Mancuso

BDS MSc PhD - Specialist Endodontist & Prosthodontist

Dani qualified from the University of Sao Paulo State in 2002, where she was awarded the prestigious Maillefer Honours and Distinction Endodontic Award.

She then enrolled into an extensive postgraduate program receiving her Masters Degree and PhD and became a Specialist Endodontist and Prosthodontist in both Brazil and the UK.

Dani has worked as a Clinical Lecturer at Barts and The London Hospital Dental Institute, as an Associate Clinical Teacher at the University of Warwick and is now an invited Professor at the University of Sao Paulo State in Brazil, supervising postgraduate students. She is member of the editorial advisory board of the Endodontic Practice. Dani also lectures both nationally and internationally and provides postgraduate endodontic courses in her endodontic referral practice in Portsmouth.



## Dr James Aquilina

BDS MSc - Specialist Endodontist

James qualified from Guy's Hospital in 1992, where he then undertook House Officer postings in Children's Dentistry and then Oral Surgery. In 1997 James returned to London where he undertook a part-time MSc in Endodontics at Guy's Hospital under Prof Pitt Ford. On completing his Masters degree, James remained at Guy's for a number of years as a part-time member of staff, teaching Undergraduates and supervising Postgraduate students as well as treating patients in his own clinical sessions. James also provided an endodontic referral service in several practices during this period. Since leaving Guy's James has expanded his Endodontics practices, in Kent and Essex.

James is committed to further education and is a member of the British Endodontic Society, the European Society of Endodontics and American Association of Endodontists. He also lectures nationally and runs endodontic study clubs & courses aimed at general dental practitioners.

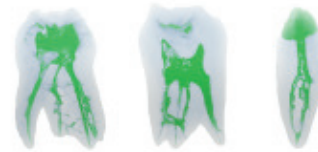


# XP-endo Shaper

## 3D preparation from a single rotary file

### Developments/Trends

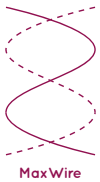
In the last decades, the field of endodontics has seen a large number of developments. Driven by new technologies, the biologic aims of endodontics are more achievable. Today, greater emphasis is placed on less invasive treatments, and on a better appreciation of the need to clean the canal in a 3D fashion, rather than according to the misleading 2D view seen in the typical periapical radiograph. However, treatment still fails too often, either because of traditional problems like persistence of infection, canal transportation, over-instrumentation, extrusion or compaction of debris, micro-cracks or excessive dentine removal.



*3D representations illustrating the complexity of the root structure.*

© FKG Dentaire SA

The use of Nickel-Titanium rotary instruments - narrower, more flexible and less aggressive - has become a necessity, as they facilitate the handling and reduce treatment time whilst preserving the root structure. Reducing the number of instruments per sequence is another factor in achieving these objectives.



# XP-endo Shaper

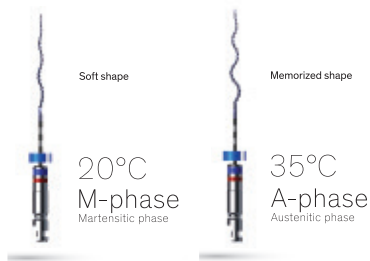
## 3D preparation from a single rotary file

### Technology

With the creation of the exclusive MaxWire® alloy, FKG is bringing two fundamental properties to the forefront: superelasticity and shape memory, with the aim of creating a completely new generation of instruments. Unlike other instruments, these are able to react to variations in temperature and to take on a predetermined shape inside the root canal in response to body temperature. *They can even be pre-bent to aid access to difficult to reach canals.*

Their specific preset shape and their extreme flexibility enables these instruments to contract and expand within the canal itself, and to reach areas which conventional instruments simply cannot access. Furthermore, their small ISO diameter and their narrow taper give them extreme resistance to cyclic fatigue.

These factors enable this new technology to provide treatment for extremely complex root canal morphology, simply and efficiently, whilst being able to preserve the canal structure to a remarkable extent.



### Two Technologies Combined

The XP-endo Shaper is the latest addition to the XP-endo® range. It is a truly innovative broad spectrum shaping instrument which can be used to radically simplify endodontic sequences.

It results from the combination of two cutting-edge technologies:

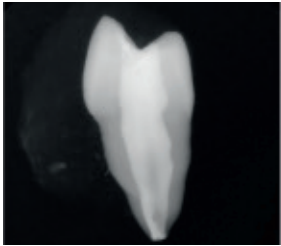
- > Made with MaxWire® alloy, like the XP-endo Finisher, it offers remarkable flexibility and fatigue resistance, and the ability to progress within the canals with ease and agility, expanding or contracting according to the canal morphology. With an initial taper of .01, the XP-endo Shaper expands once inside the canal, achieving a taper of at least .04.
- > Thanks to the Booster Tip (BT), the XP-endo Shaper benefits from a unique geometry, having six cutting edges at the tip. The BT tip respects the trajectory of the canal, whilst removing more material with each pass. It enables the instrument to start shaping an ISO diameter smaller than the one of the instrument. Used with the XP-endo Shaper, the BT tip enables it to start shaping after a glide path of at least ISO 15, and to gradually increase its preparation size to achieve an ISO 30.



# Clinical Cases

## Case 1

Case of a canal preparation (ex-vivo) for a maxillary right first premolar prepared to 30/.04 with the XP-endo Shaper then filled with TotalFill® BC Sealer™ and TotalFill® BC Points™. We can see that the original shape of the canal has been perfectly preserved and the canal system completely filled.



Radiograph showing the bucco-lingual aspect of the maxillary first premolar.



Cross-section 1mm from the apex.



Cross-section 4mm from the apex.

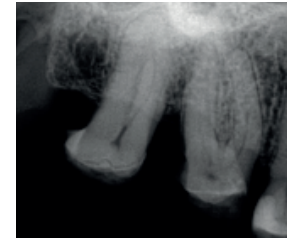


Cross-section 7mm from the apex.

Radiograph in bucco-lingual direction and cross-sections of the distal canal.  
© Dr. Hubert Goląbek (Poland) and Dr. Martin Trope (USA).  
All rights reserved.

## Case 2

This case concerns a 62 year old woman presenting a symptomatic pulpitis on the first upper right molar. After preparing a glide path to 15/.02, the canals were instrumented with the XP-endo Shaper to 30/.04 following the instructions for use. The canals were then obturated with TotalFill® BC sealer™ and TotalFill® BC Points™.



Pre-op.



Post-op.

Case 2 - Pulpectomy on a first upper right molar instrumented to 30/.04 with XP-endo Shaper.  
© Dr. Kleber K.T. Carvalho (Brazil).  
All rights reserved.

# The 3D Revolution in Endodontics

BOOKING  
FORM

Places are limited so reserve your place(s) today. Freefax 0800 97 000 78 or contact the Schottlander Education & Events Co-ordinator direct on 01462 704 633, e-mail: [courses@schottlander.co.uk](mailto:courses@schottlander.co.uk) or Freephone 0800 97 000 79

**DENTIST COURSE FEE:** £125.00 + VAT per person (£150.00 inc. VAT per person).

**NURSE COURSE FEE** (1st accompanying nurse): £25.00 + VAT per person (£30.00 inc. VAT per person).

*Prices includes light refreshments.*



**Prof James Prichard**  
**LONDON:**

Thursday 18th May

LATE PM

Friday 19th May

AM  PM

**Dr Anish Khatri**  
**NORTHAMPTON:**

Thursday 25th May

LATE PM

Friday 26th May

AM  PM

**Dr Dani Mancuso**  
**SOUTHAMPTON:**

Thursday 8th June

LATE PM

Friday 9th June

AM  PM

**Dr James Aquilina**  
**MAIDSTONE:**

Thursday 15th June

LATE PM

Friday 16th June

AM  PM

**Dr Justin Dinley**  
**NOTTINGHAM:**

Thursday 6th July

LATE PM

Friday 7th July

AM  PM

**Prof James Prichard**  
**EXETER:**

Thursday 28th Sept

LATE PM

Friday 29th Sept

AM  PM

Name\* \_\_\_\_\_ GDC No\* \_\_\_\_\_ Name\* \_\_\_\_\_ GDC No\* \_\_\_\_\_

Practice Name\* \_\_\_\_\_ Account No. (if known): \_\_\_\_\_

Address\* \_\_\_\_\_ Postcode\* \_\_\_\_\_

Telephone\* \_\_\_\_\_ Email\* \_\_\_\_\_

Cheque for £ \_\_\_\_\_ enclosed. Please make cheques payable to **Davis Schottlander & Davis Ltd.**

Charge my Debit/Credit Card

Card Type (please circle): Mastercard / Solo / UK Maestro / Visa / Visa Debit / Visa Electron / Other \_\_\_\_\_

Holders Name\* \_\_\_\_\_ Card No\*

Expiry date\* \_\_\_\_\_ Card Security Code (CSC)\* \_\_\_\_\_ Signature\* \_\_\_\_\_ Date\* \_\_\_\_\_



\*Mandatory Fields. Subject to booking conditions copy available on request.

**schottlander**  
improving dentistry together

**Davis Schottlander & Davis Ltd**  
Fifth Avenue, Leitchworth, Herts SG6 2WD