

MARTIN TROPE



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Dr. Martin Trope was born in Johannesburg, South Africa where he received his BDS degree in dentistry in 1976. From 1976 to 1980 he practiced General Dentistry and Endodontics. In 1980 he moved to Philadelphia to specialize in Endodontics at the University of Pennsylvania. After graduating as an Endodontist he continued at the University of Pennsylvania as a faculty member until 1989 when he became Chair of Endodontology at Temple University, School of Dentistry. In 1993 he accepted the JB Freedland Professorship in the Department of Endodontics, UNC at Chapel Hill. Named in honor of one of the founding fathers of Endodontics, the Freedland Professorship recognizes significant contributions to the specialty. In 2014, he was awarded the Jens Ove Andreasen Lifetime Achievement Award by the International Association of Dental Traumatology.

Dr. Trope is Clinical Professor, Department of Endodontics, University of Pennsylvania. He is also in private practice.

LECTURE

ANATOMICALLY DRIVEN ENDODONTICS

The **XP family of endodontic instruments** has been modeled to achieve a fusion of technology and biology that integrates all variables essential for predictable endodontic success.

The superelasticity and shape-memory of the alloy used **in XP instruments** facilitates expansion and adaptation into canal morphology where traditional in-the-round NiTi files are unable to reach with any margin of safety. This enables maximal debridement and disinfection without changes to the original canal shape and ensures minimal removal of intra-canal dentin. This ultra-conservative root treatment can then be filled using bioceramic technologies that do not require excessive preparation in the coronal component of the root canal space to accommodate obturation procedures.

Objectives

- Comprehend the scientifically based biologic requirements for endodontic success.
- Understand the limitations of files that creates a round shape.
- Understand the latest generation of technologies that allows us to clinically obtain the essential biologic goals for success.

HANDS-ON COURSE

ANATOMICALLY DIRECTED ENDODONTICS

Evolutionary technologies have resulted in new generation of instruments designed to access areas that traditional "round" NiTi cannot safely reach. After initial negotiation of the root canal space with a glide path file, these "**virtual core**" files complete the

cleaning to the maximum natural diameter. The native anatomy configuration is sustained and intra-canal dentin conservation is optimized. This conservative root treatment is completed by bioceramic root filling technology that does not shrink, wash out or require excessive preparation on the coronal third of the canal space. Participants will learn the shortcomings associated with traditional NiTi instrumentation and legacy obturation techniques and how this new evolutionary generation of 3D files and bioceramic technologies will obviate these shortcomings and engender predictable endodontic success:

Objectives

- Understand the shortcomings of traditional files that produce round shapes
- Understand the addition of 3D files to clean to maximal diameters with conservative dentin removal
- Understand the use of bioceramic sealer in both cold and warm hydraulic techniques