



| editorial

- 03 **Where we have been, where we are and where we are going?**
Is “Big Brother” watching us?
| Dr Gary Glassman

| CE article

- 06 **Mineral trioxide aggregate** revisited:
A cement for all seasons
| Dr Gary Glassman

| case report

- 10 Apexification with **mineral trioxide aggregate (MTA)**:
A case report
| Dr Abu-Hussein Muhamad, Drs Abdulghani Azzaldeen & Abu-Shilabayeh Hanali

| special

- 14 **“A” sequence** of irrigation
| Dr Philippe Sleiman
- 18 **PHAST PIPS**: The photoacoustic wave of the future?
| Dr Reid Pullen

| technique

- 22 **Fifth-generation technology** in endodontics:
The shaping movement
| Drs Clifford J. Ruddle, John D. West & Pierre Machtou

- 30 **The rationale and use of** electronic apex locators
| Dr L. Stephen Buchanan

| industry news

- 34 **Apex locator more precise** than CBCT
| VDW
- 36 **New endodontic imaging mode** from Planmeca fields
detailed images **without noise or artefacts**
| Planmeca

| events

- 38 **American Association of Endodontists** organised
Root Canal Awareness Week for the seventh time
| AAE
- 40 **International Events**

| about the publisher

- 41 | submission guidelines
- 42 | imprint



Cover image: frontal and lateral views of a 3-D reconstruction of a maxillary first premolar showing a three-rooted canal system. This micro-CT image was developed as part of the Root Canal Anatomy Project <http://rootcanalanatomy.blogspot.com> in the Laboratory of Endodontics of the University of São Paulo in Ribeirao Preto, Brazil by Prof. Marco Versiani, Prof. Jesus Pécora & Prof. Manoel Sousa-Neto



INTRODUCING



**DIGITAL
DENTISTRY
SHOW**

AT
INTERNATIONAL EXPODENTAL MILAN

16 | 17 | 18 OCTOBER 2014

EXHIBITION

LIVE PRODUCT PRESENTATIONS

HANDS-ON WORKSHOPS

PRINTED REFERENCE GUIDE

COFFEE WITH THE EXPERTS

www.DigitalDentistryShow.com

Organized by Dental Tribune International in cooperation with Promunidi.
Dental Tribune International | Holbeinstraße 29 | 04229 Leipzig | Germany
T +49 341 48474 134 | F +49 341 48474 173
E info@digitaldentistryshow.com | W www.DigitalDentistryShow.com

dti Dental
Tribune
International

PROMUNIDI