



MAY 6-9, 2015
SEATTLE



AAE 15

**ONSITE
MEETING
GUIDE**

The AAE is an ADA CERP-Recognized Provider.

TABLE OF CONTENTS

Online CE Verification Process.....	4
Special Events	6
List of Exhibitors	8
Exhibit Hall Map.....	10
Schedule.....	12
Alumni and Affiliate Events.....	20
Oral Research Presentations.....	23
Poster Research Presentations	24
Table Clinic Presentations.....	28

DOWNLOAD THE MOBILE APP

- Quickly find sessions and browse complete course descriptions.
- Customize your itinerary, “favorite” sessions and schedule reminders.
- Get onsite notifications including changes and big announcements.
- Navigate the exhibit hall with the interactive floorplan.
- Plus, the customized schedule you created online will be automatically synced!

Sponsored by:

DENSPLY
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SPECIALTIES



Scan the QR code or search your mobile device app store for AAE15.

Stop by the help desk located near registration for assistance.



FREE WiFi

Available in the
Convention Center

Network = AAE15
Password = carestream

Sponsored by
 **Carestream**
DENTAL



Shop the AAE Store!

- Stock up on your favorite AAE scrubs and T-shirts!
- Find gifts for your family and staff, including AAE mugs and “Endodontist in Training” onesies
- Browse and order brochures and other patient education resources

Visit the AAE Store, across from
the Carestream Attendee Lounge!

ONLINE CE VERIFICATION PROCESS

The AAE utilizes an online CE verification and evaluation process. Attendees have the ability to complete this process from a personal computer at any time. Log in as often as you like, whenever you like.

Follow these simple step-by-step instructions to log your CE hours:

- 1 Record the CE verification number announced at the conclusion of each session
- 2 Go to www.aae.org/CEcredit
- 3 Log in with your AAE username and password
- 4 Select the session you attended
- 5 Enter the corresponding CE verification number and complete an optional session evaluation
- 6 Submit the form
- 7 Once you are logged in, follow steps 4-6 to submit any additional CE hours
- 8 Log out when you are finished

The website will remain open until May 22, 2015.

After that date, contact the AAE at ceverification@aae.org, or by calling 800-872-3636 (U.S., Canada, Mexico) or 312-266-7255. A transcript will be sent to you within eight weeks of the meeting's conclusion.

RECORD YOUR CE HERE

Session Number

CE Verification Number

PT (Poster/Table Clinics)

5200150590E

SPECIAL EVENTS

WEDNESDAY, MAY 6

- 9 - 10 a.m. **General Session with Michio Kaku**
Sponsored by DENTSPLY Tulsa Dental Specialties
- 4 - 5:30 p.m. **Exhibit Hall Opening Reception**
Sponsored by EdgeEndo
- 5:30 - 6:30 p.m. **Foundation Donor Reception (By Invitation)**
Sponsored by DENTSPLY Tulsa Dental Specialties

THURSDAY, MAY 7

- 8:30 - 10 a.m. **President's Breakfast**
Sponsored by DENTSPLY Tulsa Dental Specialties
- Noon - 1:30 p.m. **Exhibit Hall Lunch**
Sponsored by DENTSPLY Tulsa Dental Specialties
- 12:30 - 1 p.m. **AAE Foundation Auction**
- 4 - 5 p.m. **Louis I. Grossman Ceremony**
- 5 - 6 p.m. **Louis I. Grossman Reception**
(Ticket purchase required)
- 5:30 - 6:30 p.m. **Professional Staff Reception (By Invitation)**
Sponsored by Brasseler USA and EndoVision

FRIDAY, MAY 8

- 6 - 7:30 a.m. **Fun Run/Walk**
Sponsored by Sonendo
- 8 - 9:30 a.m. **General Assembly Breakfast**
Sponsored by DENTSPLY Tulsa Dental Specialties
- 3 - 4:30 p.m. **Resident and New Practitioner Career Fair**
Sponsored by Radman, White & Associates, Inc.
- 4:30 - 5:30 p.m. **Exhibit Hall Closing Happy Hour**
Sponsored by Channels
- 4:30 - 5:30 p.m. **Resident Reception (By Invitation)**
Sponsored by Treloar & Heisel and MedPro
- 9 p.m. - Midnight ***Celebrate Seattle!***

SATURDAY, MAY 9

- Noon - 1:30 p.m. **Edgar D. Coolidge Luncheon**
The AAE/DENTSPLY Resident Awards are sponsored by DENTSPLY International

SPOUSE / GUEST ACTIVITIES

THURSDAY, MAY 7

Pike Place Market Walk

Depart Sheraton Lobby 8:30 a.m.

Join other guests and spouses for a walk to Pike Place Market. Grab a coffee and a stroll through this interesting and lively market. Return at your leisure.



FRIDAY, MAY 8

Chihuly Garden & Space Needle Tour with Lunch

10 a.m. - 1:30 p.m.

A very special day has been planned, starting with a visit to the famed Chihuly Garden and Glass, followed by a private luncheon at the top of the Space Needle.

Please note that this is a ticketed event: \$90 per person. Space is limited.

Group will depart from Sheraton Lobby at 9:15 a.m.



SATURDAY, MAY 9

Family/Guest Breakfast Open House

8:45 - 11 a.m.

Meet and mingle with other guests and family members during a casual breakfast in the Alliance Suite.

Come and go as you please—open house style.

No advance registration needed.



LIST OF EXHIBITORS

Company Name	Booth #	Company Name	Booth #
3D Vision Systems LLC	332	Engineered Endodontics	829
AAE Member Center	601	Essential Dental Systems	812
Acadental	208	Fotona / Lasers4Dentistry	433
Accurate Manufacturing, Inc.	224	Franklin Dental Supply, Inc.	100
ACTEON North America	625	Gendex/NOMAD/ SOREDEX/Instrumentarium	728
Afiniti Medical	116	Global Surgical	201
Amalgam Separators, R & D Services	734	Great Expressions Dental Centers	125
American Dental Partners, Inc.	532	Hartzell, by Denmat	324
Amerinet/Health Resource Services	127	Hawaiian Moon	833
ANGELUS	429	Heartland Dental	129
Aseptico, Inc.	725	Henry Schein Dental	211
ASI Medical, Inc.	524	Hu-Friedy	900
Aspen Dental	1019	ILC New York, Inc.	1026
Avalon Biomed Inc.	927	Infinite Therapeutics	228
B & L Biotech USA	917	J. Morita USA, Inc.	901
Benco Dental	227	JedMed Instrument Company	817
BioMTA	109	Jordco, Inc.	726
Bisco Dental Products	633	Journal of Endodontics (JOE)	711
Brasseler USA	311	JS Dental Manufacturing, Inc.	1021
CareCredit	333	Komet USA	335
Carestream Dental	911	Labo America, Inc.	328
Carl Zeiss Meditec	411	Laschal Surgical Instruments, Inc.	206
CEDR HR Solutions	635	LED Dental	124
CJ Optik	107	LumaDent	122
Coast Dental	928	MANI, Inc.	1015
Coltene Endo	101	Maruchi	128
Dental Cadre	1032	Medical Protective	803
Dentalfone	130	Medidenta	316
DentalVibe	329	Meta Biomed, Inc.	828
Dentistry Today	132	Microsurgery Instruments, Inc.	1017
DENTSPLY International	401	MoraVision, Inc.	106
DENTSPLY Maillefer	401	MounceEndo, LLC	534
DENTSPLY Tulsa Dental Specialties	401	Munce Discovery Burs (CJM Engineering, Inc.)	835
Designs for Vision, Inc.	724	Obtura Spartan Endodontics	717
DEXIS Digital X-Ray	325	OraPharma	115
DOCS Education	933	Orascope	902
DSN Software, Inc.	110	Osada, Inc.	528
EcoClean	104	Otto Trading Inc.	733
EdgeEndo	824	Pacific Dental Services, Inc.	1024
Elsevier	810	Palisades Dental	218
Endo Mastery	629	Patterson Dental Supply, Inc.	811
Endo Technologies	233	PBHS Inc	611
Endodontic Practice Magazine	327		
EndoVision	213		

Company Name	Booth #
PBSEndo	424
Phase II Associates, LLC	925
PLANMECA USA, Inc.	924
Premier Dental Products Company	126
Prescott's, Inc.	114
ProTrain-Simit Dental Srl	832
Q-Optics & Quality Aspirators	317
Quintessence Publishing Co., Inc.	516
Radman, White & Associates, Inc.	226
ReferralWeb	929
RGP Dental, Inc.	225
Roydent Dental Products	217
Saeshin Precision Co., Ltd.	735
Saeyang Microtech Co., Ltd.	102
Schwed Co. Inc.	1001
Scott's Dental Supply	732
Seiler Instrument Precision Microscope	904
Septodont	713
Sirona Dental, Inc.	301
SoFi	229
Sonendo, Inc.	133
SS White Dental	214
Surgitel/General Scientific Corp.	926
SybronEndo/Kerr Corporation	617
TDO Software/EIE2	1005
TransFirst Health Services	807
Treloar & Heisel	801
TriHawk	428
U.S. Jaclean	134
Ultimate Dental - A Division of Endoco	417
Ultradent Products, Inc.	416
Upholstery Packages & Services	112
Vista Dental Products.	825
Wand Dental, Inc. (Milestone Scientific)	729
Wiley	805
Wykle Research	210
XDR Radiology	1023
Zendo	932
Zumax Medical Co., Ltd.	432

Meeting Sponsors appear in orange

Please thank
the AAE15's
**PREMIER
SPONSORS**
for their
SUPPORT!

DIAMOND LEVEL



PLATINUM LEVEL

For better dentistry




GOLD LEVEL



EXHIBIT HALL MAP

Corporate Workshops

Learn about innovations in treatments and technology through hands-on workshops. Advance registration is required (\$50) and CE is not awarded.

Look for the  icon in the schedule for complete event information.

POSTER RESEARCH AND TABLE CLINICS

Recognizing the innovative research occurring in endodontics, this area showcases member studies, encouraging discussion that strengthens and advances the specialty.

Don't miss out on all the FUN in the Exhibit Hall!

WEDNESDAY, MAY 6

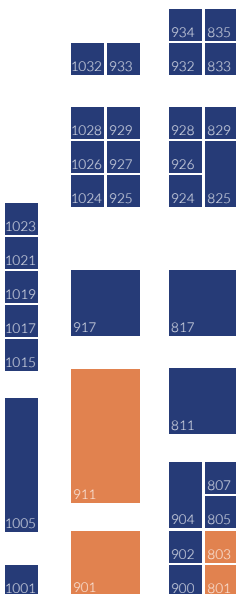
Opening Reception 4 - 5:30 p.m.
Sponsored by EdgeEndo

THURSDAY, MAY 7

Lunch Noon - 1:30 p.m.
Sponsored by DENTSPLY
Tulsa Dental Specialties

FRIDAY, MAY 8

Closing Happy Hour 4:30 - 5:30 p.m.
Sponsored by Henry Schein Dental/
EndoVision



Download and check out the interactive exhibit floor plan on the **AAE15 Mobile App**.

"Favorite" the companies you want to visit and take notes.



Corporate lectures share information about new products in 60 minutes or less. Advance registration is not required and CE is not awarded.

Look for the  icon in the schedule for complete event information.

834	735	734	635	534			335												132
832	733	732	633	532	433	432	333	332	233		133								130
828	729	728	629	518	429	428	329	328	229			228	129						128
												226	127						126
824	725	724	625	524		424	325	324	225			224	125						124
																			122
				516	417	418	317	316	217			218							116
												214	115						114
812	713																		112
810	711	611										210							110
				411		311		211				208	109						106
												206	107						104
				401		301		201											102
																			100



AAE MEMBER CENTER

Be sure to visit our booth and:

- Renew your AAE Membership.
- Make an AAE Foundation pledge.
- Purchase or renew your Live Learning Center subscription.
- Explore the new Career Center.
- Preview patient education videos.
- Browse publications and resources.
- Get to know the AAE staff.
- Visit AAE Endorsed Vendors.
- Learn about Board certification.

SCHEDULE

KEY:

Session Number *Speaker(s)*

Title..... Room

Special Event..... Room

 **Corporate Workshop**
No CE Awarded

 **Corporate Lecture**
No CE Awarded

 Not recorded for
Live Learning Center

For more information on corporate activities and special events, refer to the AAE15 Mobile App or visit www.aae.org/AAE15.

WEDNESDAY, MAY 6

8 a.m. - 5:30 p.m.

Registration and Information Atrium Lobby

9 - 10:30 a.m.

General Session with Michio Kaku.....Ballroom 6B

Sponsored by DENTSPLY
Tulsa Dental Specialties

10:30 - 11:15 a.m.

District Caucuses:

District I	606
District II	609
District III.....	603
District IV	612
District V	615
District VI	620
District VII.....	6E

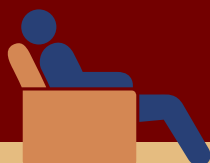
10:30 a.m. - Noon

OR01-OR06 

Oral Research: Instrumentation and Obturation 604

RECHARGE & RELAX

in the Carestream
Attendee Lounge



Located on the 6th Floor

OR07-OR12 

Oral Research: Regenerative Endodontics 613

PS-1 *H. Levy*

Successfully Treating ALL Anxious Patients..... 3A

10:30 a.m. - 5:30 p.m.

**Exhibit Hall/
AAE Member Center Open**

11 a.m. - Noon

Corporate Lecture  *M. Levin*
CBCT: A Short Guide to Flatten the Learning Curve (Carestream Dental).....Exhibit Hall

11:15 a.m. - Noon

Affiliate Leadership Meeting.... 606

Noon - 12:30 p.m.

Break

12:30 - 2:00 p.m.

EP-1 *A. Azarpazhooh,
A. Diogenes, N. Flake*

Grant Writing Pitfalls..... 620

NS-1 *F. Paque*
Micro CT and Anatomy..... 609

NS-2 *G. Bruder*
Preserving What Matters:
New Technologies and Approaches
to Dentin Conservation 615

O-1 *S. Kim*
Modern Clinical Dilemma:
Endo Versus Implants.....6E

OR13-OR18 
Oral Research: Educational
and Clinical Research 604


OR19-OR24 
Oral Research: Basic Science
and Translational Research 613

PS-2 *L. Talley*
The Secrets No One Tells You:
What the Top 2% of Endodontists
Do to Engage the Patient
and Succeed!..... 3A


S-1 *T. von Arx*
Essentials of Orofacial Anatomy
for the Endodontist..... 606

SP-1 *M. Okwen*
Precisely How and When
Does *Enterococcus faecalis*
Become Virulent?..... 612

1 - 2 p.m.

Corporate Lecture  *K. Tullar*
Picking Winners, Not Whiners:
Proven Techniques for Attracting
and Hiring the Best Employees
(CEDR HR Solutions)Exhibit Hall


1 - 4 p.m.

CW-1  *F. Banchs*
New File Advancement Technology
for Root ZX II Low Speed Handpiece
(J. Morita USA, Inc.).....Exhibit Hall

2 - 2:30 p.m.

Break

2:30 - 4 p.m.

OR25-OR29 
Oral Research: Basic
Science Research 604

OR30-OR35 
Oral Research:
Instrumentation 613

BT-1 *K. Galler*
Scaffolds as Advanced Biomaterials
in Pulpal Regeneration..... 606

EP-2 *C. Delong, B. Douglas,
R. Hill, J. Small*
Phasing Into a Practice 620

NS-3 *E. Chugerman, M. Feldman*
Advanced Uses of CBCT
in Endodontics 612

NS-4 *A. Law*
Persistent Pain Following
Endodontic Treatment: What
Do We Know and What Can
We Do About It? 615

PS-3 *L. Talley*
It's Not What You Said, It's What
You Didn't Say: The Secrets of
Gestures and the Messages
They Relay to Patients!..... 3A

S-2 *A. Fakhry*
Orthodontic Extrusion:
Therapeutic Applications
and Clinical Considerations6E

SP-2 *A. Azim*
Endo in the Time of Implants:
Proper Understanding of
Treatment Options 609

4 - 5:30 p.m.

Opening Reception.....Exhibit Hall
Sponsored by EdgeEndo


THURSDAY, MAY 7**7:30 a.m. - 5 p.m.**


**Registration
and Information** Atrium Lobby**8:30 - 10 a.m.**



President's Breakfast6BSponsored by DENTSPLY
Tulsa Dental Specialties**Pike Place Market Walk**Departs from Sheraton Lobby.
No registration needed.**10 a.m. - 5 p.m.**

**Exhibit Hall / AAE
Member Center Open****9 a.m. - 5 p.m.**

S-3  **A. Fakhry, S. Niemczyk**
Microsuturing Workshop 308
Advance registration required.**10:15 - 11:45 a.m.**

BT-2 **B. Friedland**
Impact of CBCT in Clinical
Endodontic Practice: Advances,
Limitations and Medical Legal
Considerations..... 612**EP-3** **A. Goerig**
How to Find Peace, Joy and
Success in Private Practice 3A**O-2** **A. Diogenes**
Regenerative Endodontics
Versus Apexification..... 620**OR36-OR41** 
Oral Research: Outcomes 604**OR42-OR47** 
Oral Research: Obturation 613**PS-4** **J. Berkhoff**
Why Do You Need That?:
Helping Your Doctor Gather
the Right Information for
Accurate Diagnosis 603**S-4** **G. Bruder**
When to Retain the Compromised
Tooth: A Microsurgical Endodontic
Perspective6E**SP-3** **K. Woodmansey**
Your Psychic Power:
The Value of Intuition
in Endodontic Decisions 606**SP-4**  **A. Azarpazhooh**
Separating Fact From Fiction:
Interactions Between Oral
Health and General Health..... 609**SP-5** **R. Luciano**
Thinking Outside the Box: Beyond
Our Routine NSRCT, Retx and
Root-End Resections 615**10:15 a.m. - 1:15 p.m.**

CW-2  **J. Reiss**
3-D Imaging
Hands-On Workshop
(Carestream Dental).....Exhibit Hall**10:30 - 11:30 a.m.**

Corporate Lecture   **T. McClammy**
Clinical Documentation With the
Microscope: The Past, Present and
Future (Zeiss)Exhibit Hall**Noon - 1 p.m.**

OR48-OR51 
Oral Research: Microbiology.... 604**Noon - 1:30 p.m.**

Exhibit Hall Lunch
Sponsored by DENTSPLY
Tulsa Dental Specialties**12:30 - 1 p.m.**

**AAE Foundation
Auction**..... Atrium Lobby**1:30 - 3 p.m.**

NS-5 **O. Peters**
Rationale for Contemporary
Root Canal Treatment: Are We
Overengineering the Task?.....6E

NS-6 *R. Rubinstein*

Using Study Clubs to Better Understand and Improve the Referral Process 606

NS-8 *G. Glickman*

Legal and Ethical Dilemmas in Clinical Endodontics 609

O-3 *J. Price*

Assessing Endodontic Outcomes With CBCT 612

O-5 *A. Law, D. Nixdorf*

Predictors of Endodontic Outcomes: A Summary of Practice-Based Research Findings and Plans for Future Research 615

OR52-OR57

Oral Research: Materials and Clinical Practice 604

OR58-OR63

Oral Research: Irrigation and Asepsis 613

PS-5 *K. Nickells*

Survival in the Dental Practice Jungle 603

SP-6 *A. Gluskin, P. Sharma-Chand*

Remediation Strategy for Students: On the Way to Competency (Educator Forum) 620

1:30 - 5 p.m.

EP-4 *B. Steinberg*

Optimal Aging: Living to 100! 3A

NS-7 *M. Nair, U. Nair*

CBCT Workshop 310
Advanced registration required.

2 - 5 p.m.

CW-3 *J. Reiss*

3-D Imaging Hands-On Workshop (Carestream Dental)Exhibit Hall

3 - 3:30 p.m.

Break

3:30 - 5 p.m.

NS-9 *S. Buchanan*

The Digital Future of Endodontic Therapy6E

NS-10 *B. Azevedo*

3-D Interpretation of the Maxillary Sinus for Endodontists 606

NS-11 *N. Cohenca*

Revised AAE Trauma Guidelines 609

NS-12 *B. Basrani*

NSRCT - Irrigation: Past, Present, Future? 612

O-4 *H. Messer*

Terminology of Outcome Studies 615

OR64-OR68

Oral Research: Local Anesthesia and Emergencies 604

OR69-OR74

Oral Research: Imaging and Clinical Practice 613

PS-6 *K. Nickells*

Would You Like Floss with That?: Dental Business Nuggets - Fast, Hot and Easy! 603

SP-7 *G. Gambarini, N. Grande, G. Plotino*

Past, Present and Future of Root Canal Instrumentation: Fixing the Points 620

4 - 5 p.m.

Louis I. Grossman Ceremony Sheraton Grand Ballroom A

5 - 6 p.m.

Louis I. Grossman Reception (Advance Ticket Purchase Required) Sheraton Grand Ballroom B

5:30 - 6:30 p.m.

Professional Staff Reception (By Invitation) Sheraton Metropolitan A Ballroom

Sponsored by Brasseler USA and EndoVision

FRIDAY, MAY 8

6 - 7:30 a.m.

Fun Run/Walk
..... Sheraton Diamond Room

Sponsored by Sonendo

7 a.m. - 5:30 p.m.

**Registration
and Information** Atrium Lobby

8 - 9:30 a.m.

General Assembly Breakfast6BSponsored by DENTSPLY
Tulsa Dental Specialties

9:30 - 10 a.m.

Break

9:30 a.m. - 5:30 p.m.

**Exhibit Hall / AAE
Member Center Open**

10 - 11 a.m.

Corporate Lecture  *J. Maggio*A New Paradigm in
Endodontic Therapy: GentleWave™
(Sonendo)Exhibit Hall

10 - 11:30 a.m.

BT-3 *S. Simon*Current Status and Future
Considerations in Clinical
Regenerative Endodontics 609**BT-4**  *T. Kawai*Strategies to Modulate the Host
Immune Response in Endodontic
Infection..... 612**EP-5** *N. Cooper*Marketing the Endodontic Practice
to GPs and Patients..... 603**EP-6** *L. Colton*Essential Digital Strategies for
Endodontic Practices..... 620**EP-7** *W. Prescott*Entering Practice: Make the First
Choice the Right Choice 3A**NS-14**  *M. Ree*Clinical Applications of Bioceramic
Materials in Endodontics.....6E**NS-15**  *M. Drum, A. Reader*Tingle, Slur and Drool: Myths and
Reality of Local Anesthesia and Pain
Control 606**NS-16** *D. Miles*

Cone Beam 3-D Imaging..... 615

SP-8 *C. Wenckus*Successful Strategies to
Pass the ABE Case History
Portfolio Exam 604**SP-9** *J. Schweitzer*Evolution of a Contemporary
Endodontic Curriculum..... 613

10 a.m. - 1:30 p.m.

**Guest Activity: Chihuly
Garden & Space Needle**Advance ticket purchase required.
Departs from Sheraton Lobby at 9:15 a.m.

11:45 a.m. - 12:45 p.m.

CLLClinical Lunch-n-Learn
Sponsored by DENTSPLY
Tulsa Dental Specialties6B
Advance registration required.**ELL**Educator Lunch-n-Learn
Sponsored by DENTSPLY
Tulsa Dental Specialties6B**PMLL**Practice Management
Lunch-n-Learn
Sponsored by DENTSPLY
Tulsa Dental Specialties6B

1 - 5 p.m.

NS-13  *F. Barnett, T. Pannkuk*Resorption Workshop:
Understanding Pathogenesis
and Clinical Management 308
Advance registration required.

1:15 - 2:45 p.m.

BT-5 *K. Hargreaves*

Update on Pain.....6E

BT-6  *T. Pagonis*

Current, Emerging and Future Strategies in Endodontic Disinfection 612

EP-8 *F. Heppner*

Endodontic Practice Valuations: Performing Sensible Methods to Determine Endodontic Practice Value..... 3A

NS-17 *N. Cohenca*

Vital Pulp Therapy Update 606

NS-18 *L. Berman*

Failing Before Starting: When NOT to Do Endodontics 615

PS-7  *M. Altermatt*

Secrets to the Team Approach to Profitability..... 603

S-5 *M. Fayad*

3-D Imaging and Surgery 609

SP-10 *J. Johnson*

ABE Boardwalk 620

Software User Group:

PBS Endo 613

TDO 604

2:30 - 3:30 p.m.

Corporate Lecture  *M. Levin*

Using a New Biocompatible Polymeric Obturation Material That Expands on Water Sorption: How to Precisely Seal Round and Oval Shaped Canals in Three Dimensions Without Compaction (Endo Technologies)Exhibit Hall

2:45 - 3 p.m.

Break

3 - 4:30 p.m.

Resident and New Practitioner Career Fair ..The Conference Center

Sponsored by Radman White & Associates

BT-7 *E. Herbranson*

Status and Future Impact of Advanced Technnology, Virtual Reality and Other 3-D Technology in Endodontics..... 609

BT-8  *A. Kishen*

Fundamentals and Application of Nanomaterials in Clinical Endodontics 612

EP-9 *K. Mangelson*

How Endodontists Can Become Invincible to Lawsuits and Save Thousands in Taxes 3A

NS-19 *A. Khan*

The Future of Pulpal Diagnosis: Molecular Biology? 606

O-6  *N. Flake*

Radiographic Root Changes After Endodontic Therapy in Immature Teeth..... 620

PS-8  *M. Altermatt*

Making the Shift from Manager to Leader: The Secret Is in the Relationships..... 603

S-6 *G. Debelian*

Endodontic Microsurgery: Biological Principles, Treatment Decision-Making and Clinical Procedures6E

SP-11 *M. Fayad, P. Ashkenaz*

Endodontics in the 21st Century: What Is the Fourth Dimension?. 615

Software User Group:

EndoVision 604

EndoTrak 613

4:30 - 5:30 p.m.

Closing Happy HourExhibit Hall

Sponsored by Channels

Resident Reception

.....Sheraton Grand Ballroom B

Sponsored by Treloar & Heisel and MedPro

9 p.m. - Midnight

Celebrate Seattle!EMP Museum

Badge required for admittance.

Follow signage and meet AAE staff in Sheraton, Grand Hyatt and Hyatt Olive 8 lobbies beginning at 8:30 p.m.

SATURDAY, MAY 9

8 a.m. - 5 p.m.

**Registration
and Information** Atrium Lobby

8:30 - 10:00 a.m.

Family/Guest Breakfast**Open House**.... Sheraton Suite TBD

No registration needed.

8:45 - 11 a.m. Family/Guest Breakfast

8:30 - 10 a.m. Sessions

EP-10 ✘ *D. Harris*How to Steal From
an Endodontist 3A**NS-20** *Z. Metzger*Cracks and Fractures in
Vital and Endodontically
Treated Teeth 606**NS-21** ✘ *C. Torneck*Understanding and Managing
Root Resorption 612**NS-22** *B. Karabucak*Bioceramic Root Repair Material:
Clinical Applications With an
Evidence-Based Approach 615**NS-23** *D. Ricucci*Apical Periodontitis and
Bacterial Biofilms: A
Strict Interrelationship 620**O-7** *D. Cook*Reconsidering the Focus
of Outcomes Research in
Education: A Cautionary Tale ... 609**PS-9** *B. DesRoches*Dental Team Communication: The
Two Essential Skills for Ensuring
Intent Equals Impact 604**S-7** *S. Niemczyk*Apical Surgery: What's
Your Greatest Fear? 6E**SP-12** *M. Okwen*The Affordable Care Act:
How Does It Affect You? 603**SP-13** ✘ *R. Macedo*Cleaning Accessory Root Canal
Morphology Through Activated
Irrigation: Translating Lab Findings
Into Daily Clinical Reality 613

10 - 10:15 a.m.

Break

10:15 - 11:45 a.m.

BT-9 ✘ *J. Mao*Stem Cell Homing in Dentin
and Pulp Regeneration 615**EP-11** *B. Rundquist*

Debunking Root Canal Myths 3A

NS-24 ✘ *M. Ree*Contemporary Restoration of
Root Canal Treated Teeth 6E**NS-25** *W. Nudera*

Selective Root Retreatment 606

O-8 *I. Tsesis*Meta-Analysis: Surgical Outcomes
With Modern Techniques 609**PS-10** *B. DesRoches*The Five Essential Skills for
Engaging Patients: Enhancing
Your Capacity to Involve Patients
in the Treatment Process 604**S-8** *J. Cochet*Bone Regeneration and
Bone Preservation in
Nonsurgical and Surgical
Endodontic Treatment 612**SP-14** *S. Kim*Pulp Regeneration: Challenges
in Microbial Control 603**SP-15** *C. De Gregorio*Contemporary Tridimensional
Irrigation of Root Canal Systems:
What Are the Clinical Implications
on Endodontic Outcome? 613**SP-16** *A. Tamse*The Evidence for Vertical
Root Fracture Diagnosis in
Endodontically Treated Teeth:
To Have and Have Not 620

Noon - 1:30 p.m.

Edgar D. Coolidge Luncheon.....6B

The AAE/DENTSPLY Resident Awards are sponsored by DENTSPLY International

1:45 - 3:15 p.m.

EP-13 *A. Goerig*

Survival for Success for the New Endodontic Practitioner.... 3A

NS-26 *R. Schwartz*

Clinical Management of Resorption.....6E

NS-27 *M. Martignoni*

Retreatment and Broken Instruments Removal: Clinical Approach and Tools..... 606

NS-28 *T. Montagnese*

IV Sedation for Endodontic Practice 609

S-9 *B. Azevedo*

3-D Interpretation Concepts for Surgical Procedures..... 612

S-10 *S. Niemczyk*

Implants: Incorporation Into the Modern Surgical Practice ... 615

SP-17 *J. Small*

Line-of-Sight Leadership: Becoming the Leader Your Practice Needs..... 604

SP-18 *M. Kang*

Back to Basic: Strengthening the Foundation for Endodontic Research 613

SP-19 *G. Huang*

Missing Concepts in De Novo Pulp Regeneration 620

1:45 - 5 p.m.

EP-12 *T. Harris*

OSHA/Infection Control 2015: Updated Requirements for Licensure 603

3:15 - 3:30 p.m.

Break

3:30 - 5 p.m.

EP-14 *R. Rubin*

Building a Solo Endodontic Office: Case Report..... 3A

NS-29 *D. Landwehr*

Diagnostic Dilemmas: A Clinician's Perspective on Uncertainty..... 606

NS-30 *A. Gluskin*

Can Endodontically Treated Teeth Last a Lifetime?..... 612

NS-31 *N. Rhodus*

Oral Medicine: Complex Medical Patients 615

O-9 *F. Setzer*

Meta-Analysis: Outcomes With and Without Magnification 609

SP-20 *J. West*

Three Guidelines for Becoming a Great Endodontist6E

SP-21 *A. AbuMelha*

Coronal Restorations in Relation to the Success and Survivability of Endodontically Treated Teeth 604

SP-22 *A. Kfir*

The Impact of CBCT Imaging on Endodontic Treatment Decisions..... 613

SP-23 *C. Bueno, M. Coelho*

Single-File Reciprocating Systems: From Treatment to Retreatment— Is the Clinical Experience Supported by Literature?..... 620

ALUMNI AND AFFILIATE EVENTS

TUESDAY, MAY 5

Endodontic Standards Business Meeting Sheraton Kirkland **Noon - 5 p.m.**

WEDNESDAY, MAY 6

Scientific Advisory Board Reception Sheraton Jefferson **5:30 - 6:30 p.m.**

University of Maryland Reception..... Sheraton Medina **6 - 8 p.m.**

University of Minnesota Reception Sheraton Issaquah **6 - 8 p.m.**

Army-Navy Reception..... Rock Bottom Brewery **6 - 9 p.m.**

Lutheran Medical Center Reception Sheraton Leschi **6:30 - 8 p.m.**

Virginia Commonwealth

University Reception Sheraton Ravenna **6:30 - 8 p.m.**

West Virginia University Reception Sheraton Kirkland **6:30 - 8:30 p.m.**

University of Missouri-Kansas City

Alumni Dinner (By Invitation)..... Sheraton Daily Grill **7 - 9 p.m.**

Texas A&M University Baylor

College of Dentistry Reception Sheraton Cirrus Ballroom **8 - 11 p.m.**

THURSDAY, MAY 7

Tufts University Reception..... Sheraton Issaquah **5:30 - 7 p.m.**

University at Buffalo Reception Sheraton Leschi **5:30 - 7:30 p.m.**

University of

Pennsylvania Reception Sheraton Metropolitan B **5:30 - 7:30 p.m.**

Case Western Reserve

University Reception Sheraton Boren **5:30 - 8:30 p.m.**

Harvard School of Dental

Medicine Reception..... Sheraton Virginia **6 - 7:30 p.m.**

Marquette University Reception Sheraton Greenwood **6 - 7:30 p.m.**

Temple University Reception Sheraton Medina **6 - 7:30 p.m.**

Michigan Association of

Endodontists Reception..... Sheraton Willow A **6 - 8 p.m.**

Saint Louis University Reception

(By Invitation)..... Offsite **6 - 8 p.m.**

University of Detroit

Mercy Dinner (By Invitation)..... Purple Cafe and Wine Bar **6 - 8 p.m.**

University of Florida Reception.....	Sheraton Columbia	6-8 p.m.
University of Iowa Reception	Sheraton Ballard	6-8 p.m.
University of Louisville Endodontics Reception.....	Loulay Kitchen & Bar	6-8 p.m.
New York University Reception	Sheraton Cedar	6-8:30 p.m.
University of Nebraska Alumni Dinner.....	Fado Irish Pub	6-9 p.m.
University of North Carolina and Tar Heel Endodontic Association Reception.....	Sheraton Cirrus Ballroom	6-9 p.m.
Albert Einstein University Reception	Sheraton Kirkland	6:30-8:30 p.m.
Harry J. Healey Endodontic Study Club Reception.....	Sheraton Capitol Hill	6:30-9 p.m.
Oregon Health & Science University Reception	Gordon Biersch	6:30-8 p.m.
University of California at San Francisco Reception.....	Sheraton Seneca	6:30-7:30 p.m.
University of Illinois Dinner	Offsite	6:30-9:30 p.m.
University of Texas at Houston Reception	Sheraton Ravenna	6:30-8:30 p.m.
Boston University Dinner	Sheraton Diamond	7-10 p.m.
Ohio State University Reception	Sheraton Madrona	7-9:30 p.m.
U.S. Air Force Association of Endodontists Reception.....	Offsite	7-9 p.m.
University of Southern California Reception	Sheraton Jefferson	7-9 p.m.
University of Texas at San Antonio Reception.....	Sheraton Aspen	7-9 p.m.
University of Toronto Reception.....	Sheraton Juniper	7-10 p.m.
University of Michigan Dinner	Offsite	8-11 p.m.
French Society of Endontists Reception.....	Sheraton Metropolitan A	8:30-10 p.m.
Nova Southeastern University Dessert Reception	Sheraton Willow B	8:30-10 p.m.

SATURDAY, MAY 9

United States Navy Association of Endodontics Business Meeting	Sheraton Issaquah	7-10 a.m.
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ORAL RESEARCH PRESENTATIONS

A new oral research presentation starts every 15 minutes during these designated blocks; speakers are listed in the order of their presentations.

WEDNESDAY, MAY 6

10:30 a.m. - Noon

OR01-OR06 ✕

A. Arias, O. Peters, N. Mohammadzadeh Akhlaghi, F. Iacono, T. Komabayashi & Y. Yahata, M. Roberts

Instrumentation and
Obturation 604

OR07-OR12 ✕ ♦

M. Hosking, J. Ball, S. Fayazi, M. Yadlapati, P. Verma, T. Al Saeed

Regenerative Endodontics 613

12:30 - 2 p.m.

OR13-OR18 ✕

E. Farmakis, K. Woodmansey, C. Peters, A. Hashem, C. Pirani, E. Shadmehr

Educational and
Clinical Research 604

OR19-OR24 ✕ ♦

J. Adams, S. Shrestha, S. Lee, K. Maheshwari, A. Garraton, J. Galicia

Basic Science and
Translational Research 613

2:30 - 4 p.m.

OR25-OR29 ✕

F. Yang, W. Khalil, M. Yang, A. Abd-Elmeguid, K. Verdelis

Basic Science Research 604

OR30-OR35 ✕ ♦

J. Seibold, J. Gagliardi, D. Carlon, M. Islambasic, C. Lingard, M. Sullivan

Instrumentation 613

THURSDAY, MAY 7

10:15 - 11:45 a.m.

OR36-OR41 ✕ ♦

R. Hamedy, M. Alharbi, S. Bukhari, R. Campbell, A. Rasmussen, F. Rumford
Outcomes 604

OR42-OR47 ✕ ♦

L. Selem, T. Sisson, C. Carter, M. Campbell, P. Parsa, A. Fatayer
Obturation 613

Noon - 1 p.m.

OR48-OR51 ✕ ♦

M. Kaiser, K. Nikdel, M. Okwen, A. Shrestha
Microbiology 604

1:30 - 3 p.m.

OR52-OR57 ✕ ♦

L. Marconyak, S. Dakhil, H. Rifaey, C. Friedl, J. Hemsath, B. Gargasz
Materials and
Clinical Practice 604

OR58-OR63 ✕ ♦

J. Parker, K. Charara, V. Nakamura, B. Molina, J. Cullen, S. Khaliq
Irrigation and Asepsis 613

3:30 - 5 p.m.

OR64-OR68 ✕ ♦

J. Kung, J. Schellenberg, T. Harreld, R. Shurtz, R. Sebastian
Local Anesthesia
and Emergencies 604

OR69-OR74 ✕ ♦

A. Feuer, D. Buczak, T. Carroll, J. Eaton, M. Kruszewski, A. Bunes
Imaging and
Clinical Practice 613

♦ Denotes resident session

POSTER RESEARCH PRESENTATIONS

All presentations will take place in the designated area of the exhibit hall.

THURSDAY, MAY 7 – 10:30 a.m. - 1:30 p.m.

- PR01** ♦ *O. Abusteit*
Outcomes of Sterile Saline Rinse in Endodontic Irrigation Protocol on Dentin Microhardness
- PR02** ♦ *M. Jamal*
A Survey on Opinion and Practice of Regenerative Endodontics Among Endodontists and Dental Practitioners in North America
- PR03** ♦ *C. Beavers*
Restorative Characteristics of Intrapulpally Cracked Teeth
- PR04** ♦ *J. Burley*
The Effect of Human β -defensin-2 on the Expression of DSPP mRNA in an Odontoblast Cell Line: A Pilot Study
- PR05** ♦ *Y. Cao*
Ionizing Radiation Triggers Premature Senescence and Inflammation Response in Dental Pulp Cells
- PR06** ♦ *D. Cecchin*
Influence of the Different Auxiliary Chemical Substances on Mechanical Properties of Dentin
- PR07** ♦ *J. Chinchilla*
Analysis of the Diameter and Taper Standardization of Size #25/.04 NiTi Rotary Endodontic Files From Various Manufacturers
- PR08** ♦ *A. Corden*
A Comparative Study of the Fracture Resistance of Carrier-Based Obturators: GuttaCore[®], EdgeCore[™] and Thermafil[®] Plus
- PR09** ♦ *S. Delgoei, F. Ali*
Apex Proximity of Mandibular Posterior Teeth to the Inferior Alveolar Nerve Canal: A Cone Beam-Computed Tomography Evaluation
- PR10** ♦ *C. DeVeaux*
The Effect of Nitrous Oxide and Oxygen on the Hypersensitive Gag Reflexes of Dental Patients in Endodontics
- PR11** ♦ *M. Dyrwi*
Differential Scanning Calorimetric (DSC) Study of New and Sterilized Nickel-Titanium Rotary Endodontic Instruments
- PR12** ♦ *A. Eid*
Effect of Selective Serotonin Reuptake Inhibitors on Periapical Healing Following Nonsurgical Root Canal Treatment: A Retrospective Cohort Study
- PR13** ♦ *Y. Eslami*
Evaluation of Bioceramic Sealer With Bioceramic-Coated Gutta-Percha Cone Filling Technique and Influence of Time on Sealing Properties
- PR14** ♦ *C. Falcon*
Outcomes of Referrals for Patients With Medicaid Insurance at the Rutgers School of Dental Medicine Endodontic Clinic
- PR15** ♦ *A. Farina, D. Cecchin*
Influence of Grape Seed Extracts on the Bond Strength and Durability of the Adhesion of Fiber Posts to Root Dentin
- PR16** ♦ *A. Garcia-Godoy*
In Vitro Evaluation of the Efficacy of PIPS[®] Irrigation System on Disinfection of Type Two Canal Systems in Molars
- PR17** ♦ *J. Gardyn*
The Incidence of Middle Apical Canals: A New Anatomical Description

- PR18** ♦ *G. Geraets*
Quantitative Analysis of LL-37 in the Inflamed Pulp: A Comparative Study
- PR19** ♦ *N. Ghanbaran*
Tricalcium Silicate Cements Induce Migration of Selected Stem Cells From the Apical Papilla
- PR20** ♦ *C. Ghattas Ayoub*
Comparison of IL-1 β and TNF- α Expression in Human Dental Pulps of Smokers Versus Nonsmokers
- PR21** ♦ *C. Coston, A. Misra*
A Multi-Centered Retrospective Evaluation of Clinical and Radiographic Outcomes of Revascularization/Revitalization Therapy in Immature Teeth: Study Design and Recruitment
- PR22** ♦ *M. Hall*
PDL Cell Viability of Avulsed Teeth in Pool Water Solutions
- PR23** ♦ *C. Jin*
Evaluation of Microfracture Using Extracted Teeth With and Without PDL Simulation: A Comparative Study
- PR24** ♦ *M. Jones, S. Johnson*
Outcome of Endodontic Treatment Compared With Buccal or Lingual Periodontal Probing Depths
- PR25** ♦ *E. Kan*
Periapical Microsurgery: The Effects of Locally Injected Dexamethasone on Post-Operative Healing
- PR26** ♦ *D. Kellogg*
Inflammatory Mediators in Isolated Pockets Associated With Vertical Root Fractures
- PR27** ♦ *L. Kerpel, A. Manesh*
Retrospective Analyses of Endodontic Biopsy Specimens (2010-2013) and Evaluation of the Accuracy of Presurgical Diagnoses
- PR28** ♦ *S. Krygowski*
The Prevalence of Intrapulpal Cracks in Maxillary Premolars Requiring Endodontic Treatment
- PR29** ♦ *P. Kulwattanaporn*
Outcome of Tooth and Root Resection: A Systematic Review and Meta-Analysis of the Literature
- PR30** ♦ *F. Kwo*
Ameloblastin Makes a Unique Contribution to Enamel and Dentin
- PR31** ♦ *K. Lee*
Lowering the Number of False Positive Responses to Electric Pulp Tests by Qualifying Patient Response
- PR32** ♦ *Z. Liang*
Characterization of Mesenchymal Stem Cells Explanted From Human Dental Pulp
- PR33** ♦ *A. Mehrotra*
Effect of Autoclaving on Flexibility of Four Different Nickel-Titanium Files
- PR34** ♦ *B. Mitchell*
Making the Invisible Visible: A New Diagnostic Tool in Endodontics
- PR35** ♦ *G. Navarrete*
Removal of Calcium Hydroxide from Weine Type II Systems Using PIPS[®]: A Micro-Computed Tomography Study
- PR36** ♦ *L. Nguyen*
The Importance of Proper Endodontic Diagnosis Prior and Subsequent to Restorative Treatment
- PR37** ♦ *A. Nosrat*
The Effects of Residual Bacteria on Dental Pulp Regeneration *In Vivo*
- PR38** ♦ *E. Perez*
Comparison of Three Different Nickel-Titanium Endodontic Rotary Systems in Shaping Simulated S-Shaped Canals
- PR39** ♦ *K. Petkovich, J. Bleuel*
Outcome of Nonsurgical Root Canal Therapy in Teeth Diagnosed With Pulp Necrosis and Chronic Apical Abscess

♦ Denotes resident session

- PR40** ♦ *J. Platt, D. Abide*
Outcomes of Endodontic Treatment in Teeth With Irreversible Pulpitis and Longitudinal Fracture
- PR41** ♦ *I. Pratt*
Human β -Defensin-3 Downregulates DSPP in an Odontoblast Cell Line: An *In Vitro* Study
- PR42** ♦ *B. Reece*
Advanced Glycation End Products in the Dental Pulp
- PR43** ♦ *M. Rizk*
The Effect of Smoking on h β D-2 and h β D-3 in the Dental Pulp
- PR44** ♦ *B. Sarmiento*
The Expression of the Human Cathelicidin LL37 In The Dental Pulp: An *In Vitro* Study
- PR45** ♦ *R. Shah*
Comparison of Efficacies of QMix® and Benzalkonium Chloride-Containing Experimental Solution (Ds-X) Against *Enterococcus faecalis* Biofilm Disruption
- PR46** ♦ *K. Tavares*
Evaluation and Comparison of Different Obturation Techniques Performed by Dental Students
- PR47** ♦ *T. Tawady*
Volumetric Analysis of Residual Periapical Lesions in Diabetic and Nondiabetic Patients
- PR48** ♦ *C. Tyler, S. Lavasani*
CBCT Measurements of Maxillary Posterior Teeth and Relation to the Buccal/Palatal Plate and Sinus
- PR49** ♦ *A. Xu*
Residual Dentin Thickness of the Danger Zone in Mandibular Molar with Variable Size of NiTi
- PR50** ♦ *M. Yamaguchi*
Spectrometric Analysis of Coronal Tooth Discoloration Induced by Various Bioceramic Endodontic Materials
- PR51** ♦ *K. Zand*
Retreatability of CPoint™ Obturation Material
- PR52** ♦ *J. Zimmerman*
Influence of Remaining Zinc Oxide Eugenol-Based Sealer on Bond Strength of Fiber Posts to Root Canal Dentin After Root Canal Retreatment
- PR53** *L. Aboud*
Conditions of Active Dissolution of Nickel-Titanium Endodontic Files in Simulated Root Canals
- PR54** *E. AlShwaimi*
Comparing Betamethasone and Mineral Trioxide Aggregate as Pulp-Capping Material in Human Teeth
- PR55** *I. Barbosa*
A New Method for Qualitative Surface Characterization of Endodontic Instruments Using Noncontact, 3-D Nanotechnology
- PR56** *E. Bohluli*
Development of a Biodegradable Nerve Growth Factor-Loaded Fiber for Pulp Regeneration
- PR57** *Y. Joon Byun*
Activation of AMPK Restores Chronic Inflammation-Induced Dental-Pulp Proliferation and Regeneration
- PR58** *A. Carvalho*
Correlation Between Rotary Systems and Matching Standardized Gutta-Percha Points With the Aid of Micro-Computed Tomography.
- PR59** *A. Echenagucia*
Apical Analysis of Mandibular First Premolars with Single Canals
- PR60** *L. Freire, M. Santos*
Micro-CT Evaluation of Hard-Tissue Debris Removal After Different Final Irrigation Methods and Its Influence on the Filling of Curved Canals

- PR61** *E. Iglecias*
3-D Analysis of Voids in Oval-Shaped Canals Obturated With Single Cone and Continuous Wave of Condensation Techniques
- PR62** *C. Jung*
The Origin of Tug-Back Sensation of Corresponding Gutta-Percha Cone after Rotary Instrumentation
- PR63** *J. Ha, H. Kim*
Controlled Comparison of the Efficacy of Sonic Activated Irrigation and Passive Ultrasonic Irrigation
- PR64** *K. Yeon Kum*
Comparing the Shaping Ability of Four Different NiTi Rotary Instruments Using Micro-CT
- PR65** *J. Seon Lee, K. Yeon Kum*
The Effects of Two MTA-Dissolving Solutions on MTA, Dentin and Fibroblast
- PR66** *M. Luu*
Patient Compliance With Endodontic Treatment of Immature Necrotic Permanent Teeth
- PR67** *M. Maeda*
A Study on Radiopacity of New Root Canal Sealer Containing Mainly Oleic Acid, Eugenol and Zinc Oxide
- PR68** *B. Moldauer*
Evaluation of the External and Internal Morphology of Mandibular Molars From a Peruvian Population: A CBCT Study
- PR69** *R. Ordinola Zapata*
Micro-CT Study of Radix Entomolaris Mandibular Molars
- PR70** *E. Pedulla, G. Plotino*
Canal Transportation and Centring Ability of Different Rotary Files in Continuous or Adaptive Motion: Micro-Computed Tomography Study.
- PR71** *E. Pinheiro*
Biofilm Formation of *Enterococcus faecalis* Clinical Isolates From Root Canal and Systemic Infections
- PR72** *L. Roskamp, V. Westphalen*
Evaluation of Avulsed and Replanted Teeth Following the 2012 IADT Guidelines After One-Year Period
- PR73** *G. Sas*
Comparison of WaveOne® to BioRaCe™ Files Using Micro-Computed Tomography to Evaluate Differences in Canal Transportation and Remaining Dentin Thickness
- PR74** *S. Shin*
Biologic Effects of Calcium Silicate Sealers on Human Apical Papilla-Derived Stem Cells (SCAP)
- PR75** *T. Tominaga, K. Takahira*
EMAT (Electromagnetic Apical Treatment): Clinical Application of Pulsed Electric Current Energization for Root Canal Treatment
- PR76** *T. Tran*
Calcium Channel-Mediated Signaling in Dental Pulp Proliferation and Differentiation
- PR77** *H. Wang*
CBCT Study of Apical Surgery-Related Morphological Characteristics of Disto-Lingual Roots of Three-Rooted Mandibular First Molars in a Chinese Population
- PR78** *Y. Yoo*
Biom mineralization Ability of Pozzolan-Based MTA Material
- PR79** *J. Young Yoon*
Surface Analysis of the Resected Root From Mandibular First Molars Failed After Nonsurgical Retreatment
- PR80** *M. Zaccaro Scelza*
Bending Stress, Static and Dynamic Cyclic Fatigue Tests and Fractography of Reciproc® and WaveOne®

TABLE CLINIC PRESENTATIONS

All presentations will take place in the designated area of the exhibit hall.

THURSDAY, MAY 7 – 10:30 a.m. - 1:30 p.m.

- | | | | |
|--|--------------------------------|---|------------------------------------|
| TC01 ♦ | <i>V. Ball</i> | TC11 ♦ | <i>D. Dabiri</i> |
| Attitudes Regarding the Postgraduate Endodontic Application Process: A Survey Analysis of Current Endodontic Residents | | Investigation of Anatomical Spaces Involved in Subcutaneous Emphysema After Using an Air-Water Syringe in a Fresh Cadaver | |
| TC02 ♦ | <i>B. Barborka, T. Huson</i> | TC12 ♦ | <i>M. Dang</i> |
| Illuminate Your Crack | | Endodontic Regenerative Therapy: Inducing Root Formation With Revascularization | |
| TC03 ♦ | <i>J. Batz</i> | TC13 ♦ | <i>A. Desta</i> |
| Forced Eruption in Endodontic Practice | | Surgical Treatment Planning Using 3-D Printed Models | |
| TC04 ♦ | <i>B. Behm</i> | TC14 ♦ | <i>D. Dow, K. Boonsirisermsook</i> |
| Endodontic Management of Zirconia Posts | | Evaluating Artifacts in CBCT Imaging | |
| TC05 ♦ | <i>R. Brennan, Y. Benjamin</i> | TC15 ♦ | <i>L. Gharavi, B. Pitcher</i> |
| Invasive Cervical Resorption: Shedding Some Light on This Enigma | | Updated Medications Related to Osteonecrosis of the Jaw | |
| TC06 ♦ | <i>T. Bertrand, E. Shamoon</i> | TC16 ♦ | <i>M. Giron Cerrato</i> |
| C-Shaped Canals in Mandibular Second Premolars: A Review and Presentation on the Management of Unique Cases of C-Shaped Morphologies | | Artifacts in CBCT | |
| TC07 ♦ | <i>S. Bjarnason</i> | TC17 ♦ | <i>M. Goswami, H. Alhassany</i> |
| Temperature Measurements of Three Popular Obturation Systems | | A New Multisonic Disinfection System: Does it Deliver What it Promises? | |
| TC08 ♦ | <i>B. Cheung, J. Stern</i> | TC18 ♦ | <i>B. Hill</i> |
| Reciprocating File Systems: A New Twist to an Old Problem? | | Medication-Related Osteonecrosis of the Jaw Updates | |
| TC09 ♦ | <i>A. Christian</i> | TC19 ♦ | <i>A. Hsin</i> |
| Intentional Replantation: A Predictable Alternative Treatment Among Treatments of Last Resort | | Florid Cemento-Osseous Dysplasia: A Challenging Differential Diagnosis | |
| TC10 ♦ | <i>T. Cooper</i> | TC20 ♦ | <i>D. Hwang</i> |
| Painful Post-Traumatic Trigeminal Neuropathy (PTTN) | | Alternative Method of Calcium Hydroxide Placement During Interim Root Canal Therapy Using Side-Vented Irrigation Needle | |
| | | TC21 ♦ | <i>R. Gupta, H. Nada</i> |
| | | Dissolution of Endodontic Files Via a Novel Electrochemical Process: A Systematic Review | |

- TC22** ♦ *P. Jalali, S. Tangredi*
Renal Osteodystrophy of the Mandible: Diagnostic Challenge
- TC23** ♦ *J. Ha Jung, T. Oliveira*
New Bioactive Membranes for Microsurgery in Endodontic-Periodontal Lesions
- TC24** ♦ *S. Kheirieh*
Medication-Related Osteonecrosis of the Jaws: A Case Report and Update
- TC25** ♦ *D. Kim*
Why All the Fuss About X-Ray Dose?
- TC26** ♦ *J. Koh*
Combined Internal/External Whitening Protocol For Nonvital Teeth
- TC27** ♦ *M. Leon*
Permanent Maxillary Central Incisor Submersion for Ridge Preservation
- TC28** ♦ *R. Lewis, C. Saylor*
Treatment Decisions: Extrusion of Calcium Hydroxide
- TC29** ♦ *M. Messing*
Intentional Replantation of Teeth With Failed Endodontic Retreatment
- TC30** ♦ *T. Olsson, R. Singh*
Making a Notch and Twisting the Gutta-Percha: A Step to Simplify Warm Vertical Condensation
- TC31** ♦ *J. Pack*
Maxillary Sinus Changes With Odontogenic Infection
- TC32** ♦ *B. Penberthy, E. Van Gundy*
Tricks of Pulp Testing You May Not Have Thought About
- TC33** ♦ *N. Saoji*
Properties and Design of Different NiTi File Systems and Their Effects on Clinical Performance
- TC34** ♦ *A. Sarhan*
Endodontic Flare-Up: Factors to Consider and Prevention
- TC35** ♦ *J. Seung*
Knotless Suturing in Endodontic Surgery
- TC36** ♦ *G. Smith*
Enhancing Access to Evidence-Based Endodontics Utilizing an Internet, Mobile and Tablet Literature Resource
- TC37** ♦ *B. Studebaker, M. Soriano*
Ease of Removal of Pigmented Versus Nonpigmented Orifice Barriers Upon Reaccess of Endodontically Treated Teeth
- TC38** ♦ *J. Talim*
Anatomical Structures Radiologically Mimicking Lesions Of Endodontic Origin: Literature Review and Case Reports
- TC39** ♦ *M. Toms*
Undiagnosed Tooth Luxations and Alveolar Fractures Associated With Dento-Alveolar Trauma
- TC40** ♦ *D. Tran, G. McMichael*
Heat-Induced Osteonecrosis in Endodontics: Prevention and Management
- TC41** ♦ *D. Whiting, P. Yamamura*
The Utilization of a Light-Cured, Methacrylate-Based Resin for Improving Isolation During Root Canal Treatment
- TC42** ♦ *S. Wiswall, R. Finley*
Endodontic Length Control: Room for Improvement?
- TC43** ♦ *H. Aksel*
Management of Different Failed Endodontic Treatment Cases
- TC44** ♦ *M. Basso, I. Leibovitch*
Endodontic Treatment and Documentation Using Microscope: Factors to Consider
- TC45** ♦ *C. Kobayashi, K. Toda*
Nonsurgical Removal of Aberrant Gutta-Percha in the Periapical Tissue
- TC46** ♦ *M. Natera*
Avoiding Crown Discoloration While Using Triple Antibiotic Paste

♦ Denotes resident session



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