



A A E 17

# ON-SITE MEETING GUIDE

View full program information at www.aae.org/aae17.

The AAE is an ADA CERP-Recognized Provider.

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# **FUTURE ANNUAL MEETINGS**



DENVER April 25-28, 2018 Colorado Convention Center



MONTRÉAL April 10-13, 2019 Palais des congrès de Montréal

. ...



NASHVILLE April 1-4, 2020 Music City Center



ATLANTA April 21-24, 2021 Georgia World Congress Center

# 3-D Surgery LIVE

**DON'T MISS** this cutting-edge demonstration that blends science, intrigue and microsurgical management.

# WEDNESDAY, APRIL 26

at 10:30 a.m. – noon and 1 – 2:30 p.m. in Exhibit Hall D

This unique educational session features:

- Surgical presentations utilizing the latest in CBCT-guided treatment planning.
- One mandibular molar and one maxillary molar or premolar microsurgeries.
- Engagement with the surgical team throughout the demonstration.



















# Available in all session rooms, AAE Member Center and attendee lounge

**Network:** AAE Annual Meeting

Password: AAE17

# DOWNLOAD THE MOBILE APP

This comprehensive tool should be your primary source for information on site.

The AAE17 mobile app lets you:

- Access the schedule, session descriptions and speakers' bios.
- · View speakers' handouts and take notes.
- Get notifications including changes and announcements.
- Message with fellow attendees.
- View exhibitor information.
- Plus, the customized schedule you created online will be automatically synced!

Members, use your AAE credentials to log in. Nonmembers and exhibitors, easily create an account using "AAE17" as the event code.

Search AAE17 in the Apple App Store or Google Play Store to find and download the app.

Stop by the help desk located near registration for assistance.

Sponsored by





# Are you aware of all the ways to earn CE?

SESSION TYPE	CE HOURS AWARDED
<b>Educational Sessions</b>	1.5 CE hours for each 90-minute session 3.0 CE hours for each 3.25-hour session Sessions over 3 hours should allow for a mid-session break
CE Express	0.5 CE hours each Must attend at least two sessions to earn CE
Submitted Presentations	1.0 CE hour for each 60-minute bundle of sessions 1.5 CE hours for each 90-minute bundle of sessions Must attend all sessions within a bundle to earn CE
<b>Educational Workshops</b>	4.0 CE hours for each 4-hour workshop 4.5 CE hours for each 4.5-hour workshop
Oral Research	1.0 CE hour each
Poster Research and Table Clinics	2.0 CE hours
To the Point Lectures and Corporate Workshops	No CE awarded
The Experts Are In	No CE awarded

# Have additional CE questions or ready to submit? Visit www.aae.org/CEcredit by May 12, 2017.

## 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:

- Record the CE verification number announced at the conclusion of each session
- 2 Go to www.aae.org/CEcredit or select "Enter CE" from the mobile app
- 3 Log in with your AAE username and password
- 4 Search for the session you attended
- 5 Enter the corresponding CE verification number and complete a session evaluation
- 6 INSTANTLY DOWNLOAD, PRINT OR SAVE YOUR CE LETTER.

The website will remain open until May 12, 2017.

After that date, contact the AAE at ceverification@aae.org, or by calling 800-872-3636 (U.S., Canada, Mexico) or 312-266-7255.



# "Please help keep New Orleans' musicians smiling" Campaign

The New Orleans Musicians' Clinic and Assistance Foundation provides medical and dental care to musicians in the New Orleans area regardless of their ability to pay.

# Make a donation on site at the registration desks.

We thank you for helping make a positive impact in the lives of New Orleans musicians.

# www.neworleansmusiciansclinic.org



# Take advantage of our **FREE** onsite headshot portrait studio!

**THURSDAY, APRIL 27** 10 a.m. – 5:15 p.m.

**FRIDAY, APRIL 28** 10 a.m. – 6 p.m.

Located in Exhibit Hall E. near the AAE Member Center.

A professional headshot is a must for practice websites, marketing materials and professional networking sites.

A high-quality photo communicates a lot to your patients and referring partners. A professional headshot portrays you as the friendly, competent and trustworthy professional that you are.

# Tips for looking your best!

- Come with your hair and makeup done, but try not to overdo it.
- Wear an outfit that makes you feel good.
- Opt for solid colors avoiding trendy prints that may go out of style.
- Smile! Everyone looks good in a smile.
- Don't worry! Let yourself relax and have fun.

No appointment necessary. First come, first serve during our posted portrait studio hours.

All photos will be available for FREE download after the meeting. Retouching services are offered for \$50.









Make sure to update your AAE Connection profile with your new photo!

# THE EXPERT IS IN

Have a personal conversation with an expert on topics impacting your clinical practice. Visit Room 242 during times listed below. No CE awarded.



## FRIDAY, APRIL 28

10:30 - 11 a.m.
Dr. Franklin Tay
Dentin Bonding,
Collagen
Biomineralization

and Endodontic

Materials Research

Dr. David Landwehr Differential Diagnosis of Periapical Radiolucencies

Dr. Garrett Guess Endodontic Microsurgery

#### 11:15 - 11:45 a.m.

Dr. Bruno Azevedo 3-D Imaging

Dr. Gary Carr Ergonomics, Operatory Design, Disease Model in Endodontic Endodontic Outcomes Assessment

Dr. Cameron Howard Endo Options After Graduation: Private Practice, Corporate, Military, Academia and Other Options

#### 1:15 - 1:45 p.m.

Dr. Marga Ree Doing Your Own Post Placements and Build-Ups After Finishing Endodontic Treatment. How to Convince Your Referring Dentists?

Dr. Meetu Kohli Microsurgical Endodontics & Prognostic Literature

Dr. Jamie Silberman Periapical Surgery: Are We Avoiding the Technically Challenging Cases?

in the Carestream Attendee Lounge

# SCHEDULE KEY

Track Code –
Session Number /
Session Title Speaker Name(s)

Title Room
Special Event Room

Corporate Workshop (CW)

To The Point Lecture (TTP)

The Expert Is In

Not recorded for Live Learning Center

## TRACK CODES:

CW......Corporate Workshops
EP....Endodontic Practice
NS....Nonsurgical
PF...Pulp Fiction
S....Surgical
SD...Saving the Natural Dentition
SP...Submitted Presentations
TTP...To The Point Lectures

# ORAL RESEARCH, POSTER RESEARCH & TABLE CLINICS:

OR Oral Research
Presentations

PR Poster Research
Presentations

TC Table Clinic
Presentations

See pages 32-44 for detailed listings.

Join in behind the brass band as we parade through the streets of New Orleans! The parade will end at Generations Hall where there will be a variety of entertainment including Rebirth Brass Band and Savoy.

Meet at the Hilton Grand Ballroom foyer at 8 p.m. to start the parade.

Everyone must have a badge for admittance to the event.



# **SCHEDULE**

TUESDAY, APRIL 25	OR13-OR14, OR16-OR18,
1 - 6 p.m.	Technology/
Registration and Information	Bacterial Reduction
Exhibit Hall E Lobby	8:30- 10:30 a.m.
Speaker Ready Room	Spouse/Guest Alliance Breakfast and Meeting
WEDNESDAY, APRIL 26	No membership, prior attendance or advance registration is required.
7:30 a.m 5 p.m.	9:30 a.m 5:15 p.m.
Speaker Ready Room       241         7:30 a.m 5:15 p.m.	Exhibit Hall / AAE Member Center OpenExhibit Hall E
Registration and Information	9:45 a.m 12:45 p.m.
Exhibit Hall E Lobby Attendee Lounge2nd Floor Sponsored by Carestream Dental American Board of Endodontics	CW-1
	No CE awarded.
	10 - 10:30 a.m.
S-1 R. Rubinstein Mandibular Molar Microsurgical Workshop	Refreshment Break Exhibit Hall E 10 - 11 a.m.
Advance registration required.	TTP-1 M M. Trope
8:30 - 10 a.m.	Brasseler USA: XP-3D
<b>EP-1</b> L. Banta Playing the Insurance, Collections and AR Game Your Way 243	Instrumentation - "The Shape of Things to Come"Exhibit Hall ENo CE awarded.
NS-1 J. Kolnick	10:30 a.m noon
Laser-Assisted Endodontics: A Concept Whose Time Has Come?	EP-2 C. Howard Practice Options for a New Endodontist
NS-2 C. Murgel The Tools of Retreatment 254	NS-3 N. Odabashiar Hopeless Tooth? Think Again! 244
<b>OR01-OR06                                    </b>	OR19-OR24  Regeneration346
OR07-OR12 APPriapical Healing349	OR25-OR30  Pulp Biology349

OR31-OR36 ₩	1:30 - 2:30 p.m.
Technology/Bacterial Reduction 2	OR37-OR40  ☐ Procedural Consequences 346
S. Kim Endodontic Microsurgery: 3-D Live Demonstration Exhibit Hall D	<b>OR41-OR44</b>
SP-1 D. Green Myofascial Odontalgia: Non-	OR45-OR48  ☐ Procedural Consequences 2 351
Odontogenic Influences on Pulpal and Periapical Pain254	2 - 5 p.m.
Must attend both SP-1 & SP-2 for CE.  SP-2  P. Cruci, A. Gaon	<b>CW-2 ♥ I</b> <i>J. Reiss</i> Carestream Dental Workshop
Maxillary Sinusitis of Dental Origin: The Hidden Endodontic Complication	Exhibit Hall E Advance registration required. No CE awarded. 2:30 - 3:15 p.m.
Noon - 1 p.m.	Refreshment Break Exhibit Hall E
TTP-2 (C. Howard	Sponsored by EdgeEndo
Carestream Dental: Cone Beam CT Usage in Endodontics: Using 3D To	2:30 - 3:30 p.m.
Solve 2D QuestionsExhibit Hall E	TTP-3 ♣ D. Fang J. Morita USA: Benefits of
Lunch Break	Incorporating J. Morita ZX Products in Your Endodontic
1 - 2:30 p.m.	PracticeExhibit Hall E No CE awarded.
EP-3 M. Unthank Office Design: Where Endodontics	3:30 - 5 p.m.
and Architecture Merge	General Session with James Carville and Mary Matalin La Nouvelle Orleans Sponsored by Dentsply Sirona No CE awarded. 5:30 - 7 p.m.
Management of Severe Curvatures and Complex Anatomy: A New Approach	Welcome ReceptionGrand Ballroom - Hilton Riverside Sponsored by Henry Schein / EndoVision
S-3 S. Kim	6:45 - 8 p.m.
Endodontic Microsurgery: 3-D Live Demonstration Exhibit Hall D	Foundation Donor and Leadership Reception
1 - 5 p.m.	St. James Ballroom Hilton Riverside
S-4 R. Rubinstein Mandibular Molar Microsurgical Workshop	Sponsored by Dentsply Sirona and Treloar & Heisel, Inc. By invitation only.

# THURSDAY, APRIL 27

HIOKSDAI, AFRIL 27	Poster Research
6 - 7 a.m.	and Table ClinicsExhibit Hall E
5k Fun Run and Walk	10 a.m 5:15 p.m.
Sponsored by Sonendo	Exhibit Hall / AAE Member
7:30 a.m 5:15 p.m.	Center OpenExhibit Hall E
Registration and Information	10:15 - 10:45 a.m.
Exhibit Hall E Lobby	CEX-1 B. Azevedo
Speaker Ready Room 241	CBCT Interpretation
Attendee Lounge2nd Floor Sponsored by Carestream Dental	(Preview)
American Board of Endodontics	SP-5 J. West
2nd Floor	Endodontic Trends: Can our Past
8 a.m noon	Predict our Future? 244
NS-5 M. M. Nair, U. Nair	10:15 - 11:45 a.m.
Evaluating CBCT Systems and Software: A Hands-On	EP-5 L. Morrow
Workshop257	Office Management of Anxious Patients243
Advance registration required.	NS-6 C. Azar Portoles
NS-15 🕅 J. Kolnick	How to Improve Your
Lasers in Endodontics: Is it Time to Embrace this Technology? A Hands-	Microscope Skills
On Workshop255	NS-7 R. Grover
Advance registration required.	What Can We Learn from Recalls up to 20 Years Utilizing
8:30 - 10 a.m.	2-D and 3-D Imaging354
President's BreakfastL. Levin	OR49-OR54 ₪
La Nouvelle Orleans Sponsored by Dentsply Sirona	Regeneration/
9:15 a.m 3:30 p.m.	Non-Periapical Healing346
-	OR55-OR60   Technology/
Spouse/Guest Activity - Swamplands and Plantation Tour	Canal Cleanliness
Depart Hilton Lobby	PF-1 🕅 C. Boveda, F. Setzer
Advance ticket purchase required.	Minimally Invasive Endodontics:
10 a.m 1 p.m.	Latest Fad or Lasting Philosophy?356
CW-3  A. Chaniotis	S-5 🕅 T. Sollecito
Coltene Endo: Making the Endodontic Management of	Treating the Medically-Complex
Complicated Canal Systems Simple,	Patient for Surgical and Nonsurgical
Safe and Predictable. A New	Endodontic Procedures: Are You Prepared?
Approach With Hyflex CM and EDM FilesExhibit Hall E	
Advance registration required.	
No CE COLLEGE	

PT

No CE awarded.

SP-3 A. Azim	12:15 - 12:45 p.m.
Endodontic Outcome: Factors that Matter	CEX-5 S. Nallapati CBCT in the Clinical Management of Complex Endodontic Anatomy
10:30 - 11:30 a.m.	Raising the Standard of Care
TTP-4 (**) A. Nasseh Brasseler USA: 4-D Instrumentation Using the New 3-D File! Exhibit Hall E No CE awarded.	in Endodontics
10:45 - 11:15 a.m.	OR61-OR66 ₪
CEX-2 J. Khademi Image-Guided Treatment: How CBCT Has Changed Endodontics344 11:15 - 11:45 a.m.	Technology/ Bacterial Reduction 2
CEX-3 M. Fayad Should a Lower CBCT Endodontic Outcomes be a Concern? 344 11:45 a.m 12:15 p.m.	S-6 H. Su Restorability and Treatment of Compromised Teeth: Crown Lengthening, Forced Eruption and Utilizing a Hopeless Tooth in Implant
CEX-4 S. Floratos Endodontic Microsurgery A-Z (Preview)	Dentistry
Sponsored by EdgeEndo	SP-15 A. Sigurdsson
11:45 a.m 12:45 p.m.	Oops! Mishaps in Your Endodontic Procedures:
TTP-5 S. Kratchman J. Morita USA: Updates on CBCT Uses and Bone Grafting Material for J. Morita Exhibit Hall E No CE awarded.	Corrective Measures

Must attend both SP-15 & SP-16 for CE.

12:30 - 3:15 p.m.	OR72-OR75 ₪
NS-8 J. Khademi	Technology346
How Perception, Cognition and Language Shape the CBCT	<b>OR76-OR78</b>
Interpretive Process	PF-2 J. Wolcott
12:45 - 1:15 p.m.	I Read on the Internet that it's
CEX-6 K. Hargreaves New studies in Endo and Science: What's New and What do These Studies Mean to Me?	S-8 S. Floratos, P. Mendez-Montalvo Endodontic Microsurgery A-Z (Part 1)
1 - 5 p.m.	2:15 - 5 p.m.
NS-10  B. Azevedo, M. Fayad CBCT Interpretation: Case Evaluation and Diagnosis Workshop	EP-7 A. Holmes How to Deliver WOW Through Social Media to Boost Your Brand
Advance registration required.	2:15 - 5:15 p.m.
1:15 - 1:45 p.m.	CW-4 9 🕅 F. Banchs
CEX-7 G. Guess Reviewing Key Steps of Endodontic Surgery Through Practical Case Examples	J. Morita: New File Advancement Technology for Root ZX II Low Speed HandpieceExhibit Hall E Advance registration required. No CE awarded.
1:45 - 2:15 p.m.	2:45 - 3:45 p.m.
CEX-8 J. Silberman Management of the Maxillary Molars Palatal Root by Apical Surgery344 2 - 2:15 p.m.	TTP-6  B. Gilbert, Exhibit Hall Kerr Endodontics: Advance Your Endo With Apical Negative Pressure IrrigationExhibit Hall E Advance registration required.
Break	No CE awarded.
2:15 - 2:45 p.m.	2:45 - 3:15 p.m.
CEX-9 C. Howard Practice Options For a New Endodontist	CEX-10 M. Kohli Bioceramics as Root-End Filling Material
2:15 - 3:15 p.m.	3:15 - 3:30 p.m.
NS-11 C. Aznar Portoles	Break
Management of the Failing,	3:15 - 3:45 p.m.
Previously-Surgerized Tooth 356	CEX-11 J. Kolnick
NS-24 B. Karabucak Bioceramics in Endodontics: Biological and Clinical Outcomes	Stimulating Healing and Tissue Repair with Low Level Laser Therapy (LLLT) – An Endodontist's Perspective344

3:30 - 5 p.m.	
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3:30 - 5 p.m.	FRIDAY, APRIL 28
NS-12 M K. Reed	7 a.m 5 p.m.
Myths & Truths of Local Anesthesia239	Speaker Ready Room
NS-13 S. Nallapati Comprehensive Endodontic Care: A Clinical Illustration	7 a.m 5:30 p.m.
	Registration and Information Exhibit Hall E Lobby
NS-14 ☑ G. Carr Ergonomics, Health, and Microscopic Endodontics: Efficient	Attendee Lounge2nd Floor Sponsored by Carestream Dental American Board of Endodontics
use of a Microscope354	2nd Floor
OR79-OR81, OR15  Pulp/Periapical Biology346	7:30 - 8:15 a.m.
PF-3 H. Boyer	District Caucuses
Getting to Know the	District I
Neighbor Upstairs: Facts About the Sinus	District II
S-9 S. Floratos. P. Mendez-Montalvo	District III
Endodontic Microsurgery A-Z	District IV
(Part 2)254	District V
SP-6 M. Torabinejad	District VI
Future of Endodontics 351	District VII244
3:45 - 4:15 p.m.	8 a.m noon
CEX-12 D. Arola Physical Properties and Crack Propagation in Young and Old Mineralized Dental Tissues (Preview)	EP-8 B. Quenzer Medical Emergencies in the Dental Office: What Do We Do? A Hands- On Interactive Workshop 257 Advance registration required.
4 - 5 p.m.	8:30 - 9:45 a.m.
St. Charles Ballroom - Hilton Riverside 5 - 6 p.m.	General AssemblyLa Nouvelle Orleans Sponsored by Dentsply Sirona
Louis I. Grossman Reception	10 - 11 a.m.
St. James Ballroom - Hilton Riverside Sponsored by Edge Endo Advance registration required.  Professional Staff Reception	NS-17 K. Yapp How Understanding Testing Theory Will Make you a Better Diagnostician
	SP-24 C. Wenckus The ABE Case History Portfolio Examination: What You Need to Know in Order to Successfully Challenge the Exam

10 - 11:30 a.m.	10:30 - 11 a.m.
<b>EP-9</b> B. Wylie Motivational Team Building243	The Expert Is In
SP-8 F. Teixeira Critical Apical Zone346	No CE awarded.
Must attend both SP-8 & SP-9 for CE.	11 - 11:15 a.m.
SP-9 B. Gilbert Innovations in Endodontic Irrigation:	Break
Deciding What is Practical for Your	ll - noon
Practice	TTP-7 S B. Gilbert Kerr Endodontics: TBD. Exhibit Hall E Advance registration required. No CE awarded.
SP-11 M. Mashyakhy	11:15 - 11:45 a.m.
Invasive Cervical Resorption: 3-D Diagnosis and Treatment	The Expert Is In B. Azevedo, G. Carr, C. Howard
Perspectives	No CE awarded.
SP-12 J. Stropko	11:15 a.m 12:15 p.m.
Alternative Treatments for External Cervical Resorption	CW-5 R. Mounce Easy Endo USA: Single File Minimally Invasive Endodontics
10 a.m 12:15 p.m.	using Pro Design Logic: One and
NS-16 R. Karmali, M. Trudeau Restoratively-Driven Endodontics	Done. It's Easy Exhibit Hall E Advance registration required. No CE awarded.
PF-4  S. Patel CBCT: How Successful Are We at Managing Apical Periodontitis? 239	SD-2 D. Arola Physical Properties and Crack Propagation in Young and Old Mineralized Dental Tissues 351
PF-5 A. Diogenes, K. Hargreaves From the Institution to the Clinician: Are You Practicing Evidence or Hearsay? A JOE Literature Review	SP-13 C. Ruddle Endodontic Disinfection: The Role of Minimally-Invasive Technology
10 a.m 6 p.m.	

Exhibit Hall / AAE Member Center Open ......Exhibit Hall E

12:15 - 1:15 p.m.  TTP-8 (Sonendo: Minimizing the Incidence of Endodontic Treatment Failure by Maximizing Canal Debridement and Disinfection using GentleWave® TechnologyExhibit Hall E No CE awarded.  Refreshment Break Exhibit Hall E Sponsored by Sonendo  1 - 5 p.m.	S-10 G. Guess, T. Schloss CBCT in Endodontic Surgery: Treatment Planning & 3-D Healing Assessment 239 SD-3 I. Tsesis The Dynamics of Periapical Lesions in Endodontically Treated Teeth: Rationale for a Clinical Intervention 351 Software Users Group - TDO 346
S-11 J. Gutmann, P. Lovdahl Root Amputation and Crown Lengthening Workshop: Saving the Unsavable	Software Users Group -           EndoVision
1:15 - 1:45 p.m.	3 - 4:30 p.m.
The Expert Is In	EP-11 S. Jenniges Exceeding Expectations: Make an Impact on Your Patients and Help Your Practice Stand Out243
1:15 - 2:15 p.m.	PF-7 M. Fayad, S. Niemczyk, W. Nudera
SP-14         W. Craig Noblett           ABE Boardwalk         244           1:15 - 2:45 p.m.	Clinical Application of CBCT: Impact on Diagnosis and Treatment Planning
EP-10 S. Jenniges Recognition & Rewards: Finding Opportunities to Foster Loyalty and Keeping Rewards from Doing all the Talking	PF-8 E. Lam, D. Landwehr What Else Could This Be? Exploring Diagnostic Quandaries
NS-18 C. Maupin The Utilization of 3-D Technology for Endodontic and Implant Treatment: From Decision Making to Execution	snd the Tooth Structure: Theory and Clinical Applications

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SD-6 S. Kim, F. Setzer Retrospective Evaluation of Treatment Planning for Dental	NS-20 M P. Narayana Why Restorative Dentists Care About Endodontic Access 244
Implant         254           Career Fair         Exhibit Hall E-3	NS-21 T. Pannkuk, F. Tsutsui My Most Interesting Cases 254
Planned by Resident and New Practitioner Committee. Sponsored by Radman, White & Associates, Inc. Software Users Group -	NS-22 M. Ree Long-term Follow-up of Traumatized Teeth: Endodontic and Restorative Aspects
EndoTrak	PF-9 K. Baker, A. Law What Do I Prescribe Now?
Exhibit Hall Happy HourExhibit Hall E	Prescription Decisions with an Expert Pharmacist and Endodontist
Sponsored by Henry Schein / EndoVision 4:45 - 5:45 p.m.	S-12 M. Kohli, E. Kim Evaluation of Surgical
Resident Reception Fulton Alley Sponsored by Treloar & Heisel, Inc. and MedPro. By invitation only.	Treatment Outcome: Primary and Re-surgery 239  SP-17 A. Fouad
8 - 11:30 p.m.	Can the Study of the Endodontic
Celebrate New Orleans!Grand Salon - Hilton Riverside	Microbiome Provide Clinically- Relevant Data?
Sponsored by Dentsply Sirona Meet in Grand Salon Foyer for Second Line to Generations Hall beginning at 8 p.m.	SP-18 D. Jaramillo In Vitro Biofilm Research: Are Current Biofilm Models Acceptable?
SATURDAY, APRIL 29	SP-19 A. Koch The Single Cone Bioceramic Sealer
8 a.m 3 p.m.	Obturation Technique: A Historical
Speaker Ready Room 241	Perspective
8 a.m 3:15 p.m.	SP-20 Y. Shen
Registration and Information Exhibit Hall E Lobby	Obturation of Minimally-Shaped and Non-Instrumented Root Canals:
Attendee Lounge2nd Floor Sponsored by Carestream Dental	Challenges and Solutions 349 Must attend both SP-19 & SP-20 for CE.  SP-21 S. Lee
American Board of Endodontics 2nd Floor	Pulp Regeneration: How Far Have We Come?
8:30 a.m 10 a.m.	Must attend both SP-21 & SP-22 for CE.
EP-12 J. Mausolf Delivering W.O.W. Service! People Will Forget Everything Except how you Made them Feel	

SP-22 C. Berthold Dentoalveolar Trauma and the Pulp: Regeneration, Repair and Replacement	SP-27 E. Cotti How Is Apical Periodontitis Influenced by Systemic Health and Medications? The Missing Link 351 Must attend both SP-27 & SP-28 for CE. SP-28 M. Kang
Break  10:15 - 11:45 a.m.  Edgar D. Coolidge Jazz Brunch  La Nouvelle Orleans  Sponsored by Dentsply Sirona  11:45 a.m noon	Mechanisms of Apical Periodontitis: Emergence of Epigenetic Regulators 351 Must attend both SP-27 & SP-28 for CE. SP-29 N. Flake, J. Gibbs, A. Khan Regenerative Endodontics: What Does the Evidence Show? 356 Must attend both SP-29 & SP-30 for CE.
Break  Noon - 1 p.m.  SP-23 M. Okwen The Live Learning Center: A Reference Gold Mine for Residents, Clinicians and Academicians 346  SP-31 A. Azarpazhooh CBCT for Detecting Vertical Root Fracture in Endodontically Treated Teeth: How Solid Is the Evidence? 254  Noon - 1:30 p.m.	SP-30 J. Cymerman, A. Nevins Revitalization of Open Apex Teeth with Apical Periodontitis Using a Collagen-Hydroxyapatite Scaffold
EP-13 J. King Financial Planning for You and Your Practice 239  NS-23 M C. Boveda CBCT Guided Root Canal Treatment 354  SP-25 A. Koch Treatment of the Transgender Dental Patient 349 Must attend both SP-25 & SP-26 for CE.  SP-26 M. Mercade, R. Perez Alfayate, R. Weisleder Laying the Foundation for Pediatric Endodontics: Are we Ready for Kids Now? 349 Must attend both SP-25 & SP-26 for CE.	SP-34 D. Zhang The Effectiveness of Different Cleaning & Disinfection Methods in Reducing Bacterial Load in Infected Root Canals, as Revealed by QPRC

1:30 - 1:45 p.m.	SP-43 E. Rivera
Break	Considerations for Management of Extensive Cuspal Fractures or Split
1:45 - 2:45 p.m.	Teeth to Maintain the Remainder of
NS-19 S. Baerg Models for Longevity: The Possibilities of Conservative Endodontic Approaches	the Natural Tooth



The Foundation's **BIG EASY RAFFLE** drawing will be announced at 10 p.m. during the *Celebrate New Orleans!* event on Friday!

Ticketholders do not need to be present to win. Raffle tickets can still be purchased onsite

at the AAE17 registration desks in the

Ernest N. Morial Convention Center.



One-week Vacation at the Riversong Lodge in Gatlinburg, Tennessee, gateway to the Great Smoky Mountain National Park Retail Value: \*3,150 Generously donated by Dr. Terryl Propper.



Louis Vuitton Flandrin Noir handbag Retail Value: \$1,860 Generously donated by Dr. Fiza Singh.



One-week Vacation at the All Season Chalet in Gaylord, Michigan Retail Value: \$4,500 Generously donated by Dr. Gerald Dietz, Jr.



One-week Vacation at Marriott Timeshare Florida Club with travel credit Retail Value: <sup>1</sup>5,800 - 7,400 Vacation property generously donated by Mr. Scott Fehrs and credit by Treloar & Heisel. Inc.



Five-day all expenses paid vacation to Montreux, Switzerland, including travel, accommodations, culture tours and more! Retail Value: Posted Online Generously donated by Dentsply Sirona.

Additional prizes have been added since the printing of this on-site meeting guide. Visit www.aae.org/AAE17raffle to learn more about the amazing meeting, vacation and other prize packages!

# SPECIAL EVENTS

#### WEDNESDAY, APRIL 26



**3-D Surgery Live: Endodontic Microsurgery 10:30 a.m. - noon & 1 - 2:30 p.m.** Exhibit Hall D



General Session with James Carville and Mary Matalin 3:30 - 5 p.m. La Nouvelle Orleans All registered attendees and their registered guests are welcome to attend. No CE awarded. Sponsored by Dentsply Sirona

#### Welcome Reception

**5:30 - 7 p.m.** Grand Ballroom - Hilton Riverside All registered attendees and their guests welcome to attend.

Sponsored by Henry Schein / EndoVision

#### Foundation Donor and Leadership Reception

**6:45 - 8 p.m.** St. James Ballroom - Hilton Riverside

By invitation only.

Sponsored by Dentsply Sirona and Treloar & Heisel, Inc.

## **THURSDAY, APRIL 27**

#### 5k Fun Run and Walk

**6-7** a.m.....Grand Salon A - Hilton Riverside

Sponsored by Sonendo

#### President's Breakfast

8:30 - 10 a.m. Grand Salon A - Hilton Riverside

Sponsored by Dentsply Sirona

#### Louis I. Grossman Ceremony

4 - 5 p.m....St. Charles Ballroom - Hilton Riverside

#### Louis I. Grossman Reception

**5 - 6 p.m.** St. James Ballroom - Hilton Riverside

Advance ticket purchase required.

Sponsored by Edge Endo

#### **Professional Staff Reception**

**5-6 p.m.**....Great Hall Lounge

Sponsored by Brasseler USA & Henry Schein / EndoVision

#### FRIDAY, APRIL 28

District Caucuses

**7:30 - 8:15 a.m.** See page 15

**General Assembly** 

8:30 - 9:45 a.m. La Nouvelle Orleans

Sponsored by Dentsply Sirona

Career Fair

**3 - 4:30 p.m.** Exhibit Hall E-3

Planned by Resident and New Practitioner Committee.

Sponsored by Radman, White & Associates, Inc.

**Exhibit Hall Happy Hour** 

**4:30 - 5:30 p.m.** Exhibit Hall E

All registered attendees and their guests welcome to attend.

Sponsored by Henry Schein / EndoVision

Resident Reception

**4:45 - 5:45 p.m.** Fulton Alley, 600 Fulton Street

By invitation.

Sponsored by Treloar and Heisel, Inc. and MedPro

Celebrate New Orleans!

8 - 11:30 p.m. Grand Salon - Hilton Riverside

Meet in Grand Salon Foyer for Second Line to Generations Hall (located at 310 Andrew Higgins) beginning at 8 p.m.

Sponsored by Dentsply Sirona

#### **SATURDAY, APRIL 29**

Edgar D. Coolidge Jazz Brunch

**10:15 - 11:45 a.m.** La Nouvelle Orleans

Sponsored by Dentsply Sirona

# SPOUSE AND GUEST ACTIVITIES

#### WEDNESDAY, APRIL 26

#### Spouse/Guest Alliance Breakfast and Meeting

8:30 - 10 a.m. Royal - Hilton Riverside

Join us for the annual spouse/guest continental breakfast for a wonderful start to your AAE17 experience. This is open only to spouses and guests of AAE members. No advanced registration required. Brief annual planning meeting is open to all, 10-10:30 a.m.

#### **THURSDAY, APRIL 27**

#### Swamplands and Plantation Tour

**9:15** a.m. - **3:30** p.m. Depart Hilton Lobby

\$145.00 per person includes transportation, tour and lunch. Registration required.

Space is limited. Inquire at registration.





This comprehensive resource, exclusively for endodontists, provides AAE members with the tools they need to plan their next career step or find their next great hire.

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# LIST OF EXHIBITORS

Company Name	Booth#	Company Name	Booth#
Acadental	235	EndoVision	312
Accurate Manufacturing, Inc.	838	Engineered Endodontics	354
ACTEON North America	425	Fanta USA	650
American Dental Partners	522	Fontona	834
Angelus	836	Global Surgical	429 / 329
Aseptico	231	Great Expressions Dental Ce	nters 238
ASI	547	Hartzell Instruments by Den	Mat 339
Aspen Dental	436	Hawaiian Moon	130
Avalon Biomed	124	Helse Dental Technology	654
B & L Biotech USA, Inc	355	Henry Schein Dental	325
Bankers Healthcare Group	850	Hu Friedy	525
BeamReaders	122	ILC New York, Inc	348
Benco Dental	237	Infinity Massage Chairs	932
BIOLASE	833	J. Morita USA	539
Bisco Dental Products	549	JEDMED	129
Boca Dental Supply, LLC	253	Jordco, Inc	735
Boyd Industries, Inc	138	JS Dental Manufacturing, Inc	245
Brasseler USA	625	Karl Schumacher Dental	554
Burkhart Dental	553	Kerr Corporation	639
CareCredit	128	KaVo Kerr	739
Carestream	439	Labo America Inc	754
CJ-Optik Microscopes	920	Laschal Surgical Instruments	, Inc 731
Coast Dental	120	Leica Microsystems	747
Coltene Endo	347	LumaDent, Inc	844
Dental Education Laboratorio	es825	Mani, Inc	455
Dental EMR, Inc	350	Maruchi	755
Dental Tribune America	249	Maxxeus Dental	352
Dentistry Today	753	Medidenta	434
Dentsply Sirona	119	MedPro	421
Designs for Vision, Inc	624	MDC Dental	929
Dental Specialist Institute	453	Meisinger USA	749
DEXIS	737	Meta Biomed, Inc	839
Doctor.com	935	Microsurgery Instruments, Ir	nc 233
DoWell Dental Products	255	MoraVision	821
Dr. Fuji / ACGI Relaxation	251	MounceEndo	555
Drug Enforcement Administr	ation 552	Munce Discovery Burs /	
ECLERIS USA	924	CJM Engineering, Inc	
EdgeEndo	629	NEA Powered by Vyne	
Elsevier	520	Obtura Spartan Endodontics	
Endodontic Practice US	733	Orascoptic	
Endo Mastery	830	Osada, Inc	
Endo Technic	344	Pac-Dent International, Inc	438

# Booth# Company Name Patterson Dental Supply, Inc. . . . . . . . 336 Quality Aspirators Inc & Q-Optics. . . 528 Quality Dental Products. . . . . . . . . . . . . 854 Quintessence Publishing Co., Inc. . . . 939 Radman, White & Associates . . . . . 648 Roydent Dental Products . . . . . . . . . 524 Seiler Instrument......447 Shenzhen SuperLine Sonendo, Inc. . . . . . . . . . . . . . . . 649 Treloar & Heisel Inc. . . . . . . . . . . . 419 Ultradent Products, Inc......533 Vista Dental Products . . . . . . . . . . . . . 630 Willamette Dental Group . . . . . . . . 551 XDR Radiology . . . . . . . . . . . . . . . . . . 918 Zumax Medical Co., Ltd. . . . . . . . . . 655

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# EXHIBIT HALL SCHEDULE

#### WEDNESDAY, APRIL 26

Open Hours	9:30 a.m 5:15 p.m.
Refreshment Break	2:30 - 3:15 p.m.

#### **THURSDAY, APRIL 27**

THURSDAY, APRIL 27	
Open Hours	10 a.m. – 5:15 p.m.
Poster Research and Table Clinics	10 a.m. – 1 p.m.
Refreshment Break	11:45 a.m 12:30 p.m.

#### FRIDAY, APRIL 28

T <del></del>	
Open Hours	10 a.m 6 p.m.
Refreshment Break	12:15 - 1:15 p.m.
Exhibit Hall Happy Hour	4:30 – 5:30 p.m.

## Be sure to visit the exhibit hall for:

- Poster Research and Table Clinic Presentations
- Corporate Workshops
- To the Point Corporate Lectures
- EdgeEndo Arcade



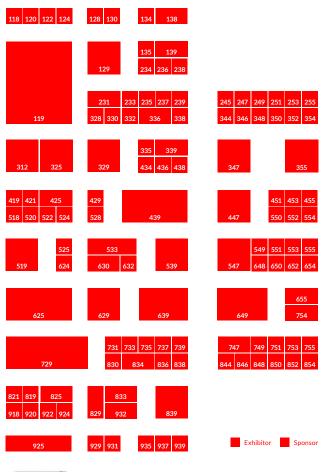
Be sure to visit our booth and:

- Learn about membership benefits and services.
- Get to know the AAE staff.
- Navigate the new AAE Connection.
- Browse publications and resources.





# EXHIBIT HALL MAP





Check out the interactive exhibit floor plan on the AAE17 meeting website and mobile app.

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

# ALUMNI AND AFFILIATE EVENTS

All events will be held at the Hilton Riverside unless otherwise noted.

## WEDNESDAY, APRIL 26

Journal of Endodontics - Scientific Advisory Board Reception
Texas A & M University College of Dentistry Alumni Reception
U.S. Air Force Association Business Meeting
U.S. Air Force Endodontic Alumni Association Reception Off Site 7-9 p.m.
University at Buffalo Reception Bridge 6-8 p.m.
University of Michigan Alumni ReceptionOff Site 6-8 p.m.
University of Minnesota Alumni Reception
University of Toronto Endodontic Alumni Reception Steering 7-9:30 p.m.
THURSDAY, APRIL 27
Albert Einstein Endodontics Alumni ReceptionEglington 6:30 - 8 p.m.
Boston University Alumni Reception
Case Western Reserve University Alumni Reception
Columbia Univerity College of Dental Medicine Endodontic Alumni Reception
French Society of Endodontics Reception
Harry J. Healey Endodontic Study Club Reception Port 6:30 - 9:30 p.m.
Harvard Endodontic Alumni Association DinnerOff Site 6-10 p.m.
IFEA Board of Directors Meeting
Marquette University Reception Prince of Wales 6:30 - 7:30 p.m.
Nova Southeastern University Alumni Reception Quaterdeck 8:30-10 p.m.
NYU Endodontic Alumni Reception
NYU Lutheran Dental Medicine Alumni Reception
The Ohio State Unversity Endodontic Alumni Reception
Oregon Health & Science University Alumni Reception Off Site 6-8 p.m.

# THURSDAY, APRIL 27 (continued)

THORSDAT, AT RIE 27 (continued)
Saint Louis University Reception Off Site 6-8 p.m
Temple University Kornberg School of Dentistry Alumni Reception
Tufts University Alumni Reception
UCLA Endodontc Alumni ReceptionMagazine 6-8 p.m
University of California San Francisco
University of Connecticut Alumni Reception Grand Salon C 7-9 p.m
University of Detroit Mercy Alumni EventOff Site 7 - 10 p.m
University of Florida Alumni ReceptionGrand Salon A 6:30 - 8:30 p.m
University of Illinois Endodontic Alumni Dinner
University of Iowa Reception
University of Louisville ReceptionOff Site 6:30 - 8 p.m
University of Maryland School of Dentistry Alumni Reception
University of North Carolina & TarHeel Endodontic Association ReceptionRiver Room 5:30-8 p.m
University of Pennsylvania Alumni ReceptionOff Site 6-7:30 p.m
University of Pittsburgh Alumni Reception
University of Southern California Alumni Reception Steering 6-8 p.m
University of Texas at Houston Alumni Reception
University of Washington Alumni Reception
UT Health San Antonio Alumni Reception
Virginia Commonwealth University Alumni Reception Starboard 6-7:30 p.m
West Virginia University Endodontic Alumni Association
FRIDAY, APRIL 28
College of Diplomates Business Meeting Commerce - Hilton 10 - 10:15 a.m
IFEA General AssemblyRoyal 1-3:30 p.m
SATURDAY, APRIL 29
U.S. Navy Association of Endodontists  Breakfast Meeting Jackson 7-10 a.m.

Resident Session

OR13-OR14, OR82.

OR16-OR18 3

# 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, APRIL 26	OR31-OR36 🕷
	A. Perez, C. Dik, G. Silva Vieira,
0.20 10 a m	

## OR01-OR06 3 D. Stentz, C. Crowlev, E. Shadmehr., M. Messing, A. Trenaman Gaughan, A. Alshuiaa Pain Control 346

## OR07-OR12 3 D. Curtis, S. Perrins, H. Beus, N. Khalighineiad, E. Chybowski, A. Alshaikh Periapical Healing ......349

# Resident Session

A. Salimnia, J. Schubert, C. Falcon, D. Kwan, A. Shrestha, S. Morim
Technology/
Bacterial Reduction 351
OR13-OR14. OR16-OR18:

Resident Session OR82: Pre-doctoral Student: Endodontist: International Endodontists: International Resident: General Dentist Session

10:30 a.m. - noon OP10-OP2// №

C. Widmer, C. Cucco

Resident Session

A. Perez, C. Dik, G. Silva Vieira,	
E. Farmakis, A. Arias, P. Neelakantan	
Technology/Bacterial	
Reduction 2 351	
Pre-doctoral Student; Endodontist;	
International Endodontists;	
International Resident; General	
Dentist Session	

# 1:30 - 2:30 p.m. OR37-OR40 M

P. Bahrami, H. Hamid, J. Granados.
F. Berdos
Procedural Consequences 346
Resident Session

## OR41-OR44 🕅

Y. Chae, J. Jacobs, A. Troxel, Z. Liang	
Regeneration 2 349	7
Resident Session	

OR45-OR48 ፟፟፟፟፟፟፟፟
M. Coelho, S. Card, K. Alfouzan,
Piasecki
Procedural Consequences 2 351
Pre-doctoral Student; Endodontist;
nternational Endodontists;
nternational Resident; General
New High Consider



#### THURSDAY, APRIL 27

10:15 - 11:45 a.m.

OR49-OR5	54 🔣
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D. Flemban, N. Al-Nuaimi, H. Aksel Regeneration/ Non-Periapical Healing .......346 Pre-doctoral Student; Endodontist; International Endodontists; International Resident; General Dentist Session

S. Solanki, A. Hashem, A. Chandra,

#### OR55-OR60 🕅

#### 12:30 - 2 p.m.

#### OR61-OR66 🕅

#### OR67-OR71 3

R. Bharti, F. Iacono, C. Pirani, E. Pedullà,

# 

#### 3:30 - 5 p.m.

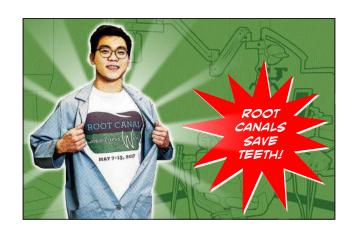
Resident Session

## OR79-OR81, OR15 🔉

# **DON'T MISS** the Resident and New Practitioner Career Fair!

Friday, 3 - 4:30 p.m. in Exhibit Hall E-3

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# POSTER RESEARCH PRESENTATIONS

All presentations will take place in Exhibit Hall E.

THURSDAY, APRIL 27 - 10 a.m. - 1 p.m.

#### RESIDENT SESSIONS

PR01 N. Akbarzadeh
The Association Between the
Anatomical Landmarks of the Pulp
Chamber Floor and the Prevalence of
Middle-mesial Canals in Mandibular

First Molars: An In Vivo CBCT Analysis

PR02 D. Alamir

Mineralogic and Topographic Characterization of Un-hydrated and Hydrated Tricalcium-based Materials

PR03

F. Aldashti

Diagnostic Efficacy of Twodimensional and Three-dimensional Imaging for Detection of Simulated Root Resorption

PR04 A. Altomare Instrumentation Length Control by Dental Students Using Either Rubber Stoppers or Calibration Rings in Resin Block Canals with a 30 Degree Angled Occlusal Table

PR05 E. Arasu

Evaluation of Volumetric Change of Periapical Lesions After Apicoectomy as a Measure of Postsurgical Healing Utilizing Cone Beam Computed Tomography

PR06 C. Ardalan

A Comparative Study of Intraradicular Enterococcus Faecalis Biofilm Removal with Four Root Canal Treatment Systems: A Scanning Electron Microscopy Evaluation

PR07 C. Atchison Current Practices and Principals of Endodontic Residents: A Survey of Post-graduate Endodontic Program Directors PR08 G. Barkley

QMix 2in1 and NaOCI Precipitate: Documentation, Identification and Exothermic Reaction

PR09 J. Barnes Mechanism of Bioactive Molecule Extraction from Mineralized Dentin by Calcium Hydroxide and Tricalcium Silicate Cement

PR10 D. Bartling
Prevention of Tooth Discoloration
Using Dentin Tubule Coverage: An Ex
Vivo Study

PR11 B. Becker Intentional Replantation Techniques: A Systematic Review and Meta-

PR12 H. Bennett, D. Downs Success of Direct Pulp Caps in Permanent Teeth: A Three-year

Survey

Bioceramic Sealer

analysis

PR13 M. Beshay Apical Periodontitis, a Predictor Variable for Pre-eclampsia: A Hospital Based Case-control Study

PR14 E. Bohluli
Clinical Outcomes of Endodontic
Treatment Using Single-cone and

PR15 S. Bullard Quantitative Analysis of Bacterial Removal Following Instrumentation with TRUShape

PR16 L. Burns

A Web-based Survey to Assess Different Treatment Approaches to Failed Endodontic Cases with Apical Periodontitis: A Seven-year Follow-up PR17 Y. Byun Assessing the Bone Thickness/Root Dimension for Apical Surgery Using CRCT

PR18 A. Carrasco

Characterizing Pain and Inflammation in Apical Periodontitis in Mice

PR19 E. Case
Endodontic Board Certification:
A Review of Factors Affecting the
Certification Rate

PR20 W. Chu Effect of Apical Preparation Size on the Intracanal Microbial Load: A Molecular Approach

PR21 C. Chun Histone Demethylase KDM3C Functionally Regulates TERT Induction by Bacterial Endotoxins

PR22 M. Clairet
Correlation Between Presence of
Apical Periodontitis and Untreated
Canals in Endodontically Treated
Teeth Using CBCT Imaging

Assessment

PR23

E. Cruz

Readability of Online Sites

Containing Endodontic Information

for General Patients

PR24 D. Cuocolo Removal Rate of Separated Rotary Files in Molars and Cleaning Efficacy Around and Beyond Separated Rotary Files Using the GentleWave® System

PR25 R. Dana Knowledge and Practices of Family and Emergency Physicians in Managing Non-Traumatic Dental Emergencies: A Case-Based Survey

PR26 A. Eid
The Effect of Study Design on the
Association of Endodontic Disease
and Cardiovascular Disease: A
Systematic Review

PR27 M. Estes

Copper-Iodide Augmented Gutta-Percha Obturation Materials Significantly Limit the Growth of Enteroccocus Faecalis

PR28 H. Feldman
Evaluation of Bacterial Removal
from Root Canal Systems Using
Different Concentrations of Sodium
Hypochlorite and Cysteamine

PR29 A. Fitzhugh Endodontic Tomography: Who's Reading the Scan?

PR30 A. Forghani, A. Eidelson The Relationship Between Dental School Graduation Date and Studentlevel Endodontic Knowledge Among First Year Post-graduate Endodontic Students

PR31 Z. Freer
A Humanized Ameloblastin Minigene
Rescued Murine Enamel Formation

PR32 J. Gailey
Torsional Stress, Cyclic Fatigue and

Thermal Analyses of Heat-treated and Conventional Nickel-Titanium Rotary Instruments

PR33 J. Garcia Efficacy of Root Canal Disinfection in Simulated Necrotic Immature Teeth Undergoing Regenerative Endodontics

PR34 M. Gerges Analysis of Factors Associated with Vertical Root Fracture in Treating Maxillary First Molars: A Risk Analysis Study

PR35 M. Germack Antibiotic Use in 2016 by Members of the American Association of Endodontists: Report of a National Survey

PR36 S. Gibbs
What Referring Providers Profes

What Referring Providers Prefer When Analyzing Post-Treatment Endodontic Radiographs: A Nationwide Opinion Survey of Dentists

### **RESIDENT SESSIONS** (continued)

PR37 C. Gleis, J. Cercek Pharmacologic Management of Endodontic Pain by Dental Practitioners

PR38 J. Hansen
Effect of Access Design on Canal
Transportation: A Micro-Computed
Tomography Evaluation

PR39 P. Heaphy Cutting Efficiency of Three Single-Shaping File Instrumentation Systems Using the 3-D DENT-ALIKETM Model

PR40 N. Huynh Impact of Bonding Pericervical Dentin on Biomechanical Response and Fracture Strength in Root-Filled Maxillary Premolars

PR41 A. Inaba Three-dimensional Spheres Derived from Dental Pulp Cells Have Enhanced Stemness and In Vivo Osteo/Odontogenic Differentiation Potential

PR42 C. James Intracoronal Bleaching of Endodontically Treated Teeth Accessed with Contracted Endodontic Cavity Designs

PR43 H. Javaheri
Characteristics of the Cohort Opting
for Endodontic Treatment

PR44 R. Kamboj The Effect of CBCT on Treatment Planning: Does Experience Matter?

PR45 H. Karashi
The Prevalence of Intrapulpal Cracks
in Maxillary Molars Requiring
Endodontic Treatment

PR46 H. Ko
Outcome of Non-Surgical
Endodontic Treatments of Dens
Invaginatus

Canceled PR47

N. Kohly, A. Saadatisohi

The Relationship Between Systemic Statins and Calcification of the Pulp Chamber of Molar Teeth

PR48 J. Lin
Effect of Sodium Hypochlorite on the

Effect of Sodium Hypochlorite on the Surface Topography of Heat-Treated Nickel-Titanium Rotary Endodontic Files

PR49 S. Malhotra Anesthetic Efficacy of Buffered Lidocaine in Inferior Alveolar Nerve Blocks in Mandibular Molars with Symptomatic Irreversible Pulpitis; A Randomized Double Blind Clinical Trial

PR50 J. Mason A Comparison of the Pushout Bond Strength of Five Bioceramic Root-

PR51 M. Mauger
Potential Applications of
Antimicrobial Peptides and Their
Mimics in Combating

end Filling Materials

PR52 R. McBride Influence of the Smear Layer on Displacement Force of Bioceramic Materials in Furcation Repairs

PR53 K. McKitrick Radiopacity of Three Root End Filling Materials

PR54 R. McMahan Resting State Functional Connectivity and Dental Pain: Neuroimaging and Disease State Prediction

PR55 H. Shayei Moosavi Restorative Timeline of the Endodontically Treated Tooth in a Dental School Setting

PR56 B. Nashleanas Survival of Molar Root Canal Therapy in Pediatric Patients: A Retrospective Analysis **PR57** F. Nieves EHR Data Mining: Maintaining a

Regenerative Endodontics Bank to Facilitate Follow-Up

**PR58** N. Patankar Evaluation of C-Point Diameter and

Taper in Comparison with Their Corresponding Rotary File **PR59** K. Patil

The Effect of Preoperative Buprenorphine Nerve Block on **Endodontic Post-operative Pain** of the "Hot Tooth": A Prospective, Randomized, Double-blind, Control Trial

**PR60** P. Rajabi **Evaluation of Root Canal** Morphology of Human Maxillary and Mandibular Molars Using Cone Beam Computed Tomography (CBCT). Part Two

PR61 G. Rizzo, C. Carrillo Efficacy Evaluation of a New Cordless Ultrasonic Unit in Achieving Reduction of Bacterial Load Within the Root Canal System as Compared to a Conventional Ultrasonic Unit

**PR62** I. Sadykov **Evaluation of Anatomical Parameters** Using Micro-computed Tomography

and Cone Beam Computed Tomography **PR63** D. Sah Effects of Different Concentrations

of Calcium Hydroxide on

Microhardness of Dentin

**PR64** S. Schroeder The Incidence of Dentinal Microcracks Caused by Reciprocating and Continuous Rotary Instrumentation

**PR65** T. Schuurmans Assessing the Accuracy and Reliability of Root Crack and Fracture Detection in Teeth Using Sweep Imaging with Fourier Transform (SWIFT) Magnetic Resonance Imaging (MRI)

**PR66** J. Seung **Ouaternary Ammonium and** Nano Silver in Epoxy-resin-based

Endodontic Sealer

**PR67** M. Shallal-Ayzin A Prospective Analysis of Perioperative Pain Following VPT on Permanent Teeth with Mature Apices

PR68 P. Singh Communication Patterns Between Endodontists and General Dentists: Areas of Success and Areas of Improvement

**PR69** M. Siriani Effect of Botulinum Toxin-A on Proliferation and Differentiation of Dental Pulp Stem Cells in Hypoxic Conditions

**PR70** K. Songtrakul Continued Root Development of Immature Permanent Teeth with Persistent Apical Periodontitis After Regenerative Endodontic Therapy

**PR71** M. Sorrentino Straight-line Access Versus Strategic Dentin Conservation Access: Endodontist and General Dentist Preference for Clinical Success

**PR72** J. Steffensen Comparison of Five Different Calcium Hydroxide Formulations and Their Ability to Be Removed from the Root Canal

**PR73** B. Szczepanik Evaluating the ADAT: A Survey of Post-graduate Endodontic Program Directors

**PR74** K. Takimoto Neurotrophic Factors in Dentin Regulate Trigeminal Neurite Outgrowth and Targeting: Implications for Regenerative Endodontics

**PR75** R. Taylor Comparison of the Torsional and Thermal Properties of Three Rotary Glide Path Files

#### **RESIDENT SESSIONS** (continued)

PR76 S. Tran
Evaluation of Sealer Flow in
Weine Type II Mandibular Molars
Obturated with a Single-Cone
Technique

PR77 T. Trinh
The Influence of Intra-operative
Factors on Vital Pulp Therapy

Outcome

PR78 S. Vahora
Root Canal Instrumentation
Preference Between General
Dentists and Endodontists

PR79 J. Wang
Periodontal Clinical Attachment Loss
at the Time of Root Canal Treatment:
Its Influence on the Survival of
Endodontically Treated Teeth

PR80 C. Wicker Evaluation of a Thermal Pulp Sensibility Test on Crowned Teeth

**PR81** *P. Wohlgemuth* Evaluation of the Cleaning Around Separated Hand Files in Molars Using

the GentleWave System

PR82 K. Yee
Survival Rate of Endodontically

Survival Rate of Endodontically Treated Teeth Following Core and Crown Placement

PR83 Y. Yu
Orofacial Pain Detected Using the
Rat Grimace Scale

**PR84** S. Zahran Characterization of Human Cytokine Biomarkers in the Gingival Crevicular Fluid

PR85 R. Zhuk Locating the MB2 Canal in Relation to MB1 in the Maxillary First Molar Using CBCT Imaging PRE-DOCTORAL STUDENT; ENDODONTIST; INTERNATIONAL ENDODONTISTS; INTERNATIONAL RESIDENT; GENERAL DENTIST SESSIONS

PR86 A. Aram
The Effect of Root Canal Preparation
Using Single Endodontic File
Techniques on Postoperative Pain: A
Randomized Clinical Trial

PR87 D. Bachala Immune Response of LPS-activated Macrophages Following Lunasin Treatment: Lunasin as a Potential Anti-inflammatory Medicament

PR88 S. Busquim Hard-tissue Debris in Long-oval Root Canals with a Single Reciprocating System Using Micro-computed Tomography

PR89 F. Carvalho Spectral Changes in Root Dentin After Using Chlorhexidine as Irrigant: Raman Spectroscopy Study

PR90 D. Cecchin Evaluation of Dentin Mechanical Properties After Use of Chemical and Natural Root Canal Irrigants

PR91 M. Chung, S. Kang A Study on Dentists' Clinical Decision Making Against Apical Periodontitis Using a Variable Control Survey Model

PR92 M. Davidian
Comparison of Three Different
Methods for Cleaning Rotary Nickel
Titanium Endodontic Files

PR93 A. De-Jesus-Soares Evaluation of Cone Beam Computed Tomography and Periapical Radiography in the Diagnosis of Root Resorption in Traumatized Teeth

**PR94** R. Fujimaki Optimum Concentration of EDTA Solution for Cleaning Root Canals PR95 A. Zaazou
Effect of Platelet-rich Plasma
Biomembrane on Enhancing Bone
Regeneration Following Endodontic

Regeneration Following Endodontic Surgery

PR96

B. Gomes

Red Complex in Combined Endodontic and Periodontal Sites

PR97 J. Ho Screw-in Forces During Movement of Endodontic Files Depending on Various Geometries, Alloys, and Kinetics

PR98 M. Harley A Systematic Review Investigating Prevalence and Dimensions of Oval Canals

PR99 N. Harward, D. Draper Influential Factors Inexperienced Educators at a Newly Established Dental School Rely upon When Teaching: Endodontics Versus Implants

PR100 H. Jang Anesthetic Effect on Soft Tissue by Inferior Alveolar Nerve Block

PR101 G. Joseph, Sanjay George Negative Pressure Irrigation Technique to Confirm Working Length

PR102 S. Kim
Evaluation of the Biodistribution
of Human Dental Pulp Stem Cells
Transplanted into Mouse

PR103 S. Kim Root Canal Shaping Effect of Instruments with Offset Mass of Rotation in Mandibular First Molar: A Micro-computed Tomographic Study

PR104 E. Lodi
Evaluation of the Antimicrobial
Efficacy of Different Root Canal
Irrigants Against Enterococcus
Faecalis

PR105 M. Marques
Micro Computed Tomography
Assessment of Preparation of
Curved Canals with BT Race and
ProTaper Next

PR106 A. Martella Fracture Resistance of Vortex Rotary Files Under Simulated Clinical Conditions

PR107 Z. Mohorn
Prevention of Bismuth Oxidecontaining Tricalcium Silicate
Discoloration of Dentin

PR108 N. Peddis, F. Ideo The Interrelationships of Biologic Medications with Periodontitis and Apical Periodontitis: A Systematic Review

PR109 L. Prado Metabolic Activity Analysis of Streptococcus Spp After Endodontic Procedures by Molecular Methods Based on rRNA and rDNA

PR110 D. Rabello
Does Supplemental Photodynamic
Therapy Optimize the Disinfection of
Bacteria and Endotoxins in One-Visit
and Two-visit Root Canal Therapy? A
Randomized Clinical Trial

PR111 K. Sahly Association of End Stage Renal Disease with Radiographically and Clinically Diagnosed Apical Periodontitis: A Hospital-based Study

PR112 S. Seyed Sadrkhani An In Vitro Study of MTA Fillapex, AH-26 and ZOE-based Sealers Solubility

PR113 K. Thammasitboon Antimicrobial Activity and Substantivity of Chlorhexidine-Poloxamer 407 in Infected Root Canal Dentin

PR114 C. Wood Calculating Unprepared Canal Surface in MicroCT Scans Utilizing Free, Open-source Software

PR115 S. Yeo Association Between Apical Periodontitis and Type of Coronal Restorations in Non-root Canal Filled Teeth in a Korean Population

### TABLE CLINIC PRESENTATIONS

All presentations will take place in Exhibit Hall E.

C. Barnett, C. Allen

### THURSDAY, APRIL 27 - 10 a.m. - 1 p.m.

	IDF			

TC01 S. Ackerman, C. Wright Innovative Adjuncts for Achieving a "Dry" Field in Difficult Cases

TC02 M. Alghofaily Opioid Prescribing Habits of Active and Educator Members

of the American Association of Endodontists

Increasing Vision in Endodontic Microsurgery

TC03

TC04 B. Allgeier What Are You Missing on Your CBCT Interpretations?

TC05 M. Basso Predictable Instrument Removal

Using Indirect Ultrasonics

TC06 A. Brown, K. Kickertz

Delivery of Retrofill Materials: Reducing Procedural Time and Wastage

TC07 N. Bui

Clinical Assessment of Success and Failure After Regenerative Endodontic Procedures

TC08 L. Cantamessa Pulp Canal Obliteration: Etiology, Diagnosis and Treatment Strategies

TC09 E. Chen, E. Balinghasay A Novel Method for Deep Resin Light Curing

TC10 K. Do

Comparison of Four Root Canal Sealers on CBCT Scatter Artifacts **TC11** Y. Fan, K. Baginski Assessment of Controlled-memory Files

TC12 A. Glinianska Piezoelectric Surgery Use in Endodontic Surgery: 'Bone-lid' Osteotomy and Root-end Resection

TC13 M. Green, L. Garden
The Attenuation Effect of Single
Spray Cotton Pellet Technique in
Pulpal Sensibility Testing

TC14 J. Greiner, W. Walker Optimum Adhesive Agent for Removal of Canal Obstructions Using the Tube Technique

TC15 D. Guerreiro, M. Pereira Cone Beam Computed Tomography Aid in the Diagnosis and Treatment of Root Resorptions: Case Series

TC16 J. Hicks, C. Bradley Radiation in Endodontics: Exposure Risks to Providers and Patients

**TC17** N. Horwitz Management of Dens Evaginatus

TC18 M. Khan
Measuring Periapical Lesions: A New
Technique to Evaluate Radiographic
Outcomes with CBVT

TC19 K. Knoll
A Splinting Kit for Traumatic Dental
Injuries

TC20 S. Mannan What Every Endodontist Should Know About Opioids

TC21 S. Markovic, B. Mille Clinical Considerations for Treatment of C-shaped Canals

### TC22 A. Maraues **Exploding Electronic Cigarette** Causing Extensive Intraoral and **Extraoral Injuries**

TC23 A. Martens Finding Opportunity: Where Should You Practice?

TC24 R. Mikulik Pulp Regeneration of a Mature Mandibular Premolar with Dens **Evaginatus Undergoing Orthodontic** Treatment: A Case Report

TC25 M. Moran To Treat or Refer: A Guide for General Dentists

TC26 J. Morris, K. Chou **Restoring Access Preparations** Through All Ceramic Restorations

**TC27** K. Nelson Musculoskeletal Disorders Minimized with the Application of **Ergonomics** 

TC28 V. Nguyen, B. Rencher A Novel Approach to Carrier-based Sectional Obturation

TC29 R. Ordinola Zapata The Use of CBCT for the Diagnosis of Crown-root Fractures, Transverse Root Fractures and Luxation Injuries

TC30 H. Rabiee Applications for Piezosurgery in **Endodontics** 

TC31 M. Regan Anderson, K. Divine A Novel Treatment for Palatogingival

Groove: Extraction and Replantation with Emdogain® Treatment

TC32 C. Ritter Pharmacological Management of Flare-up - Considerations for Steroids

TC33 A. Safaverdi Chronic Post-surgical Pain in **Endodontics** 

TC34 K. Santos, F. Gari Management of Patients Undergoing Head and Neck Radiation Therapy

TC35 F. Sarshar Excessive Calcium Hydroxide Extrusion: A New Incident Report with Management

TC36 R. Sedwick, M. Tang Comparison of Three Electronic Apex Locators Used in a Graduate Endodontic Residency Program

TC37 R. Sturgill Prevalence and Clinical Characteristics of Teeth Extracted with a Diagnosis of Cracked Tooth: A Retrospective Study

TC38 E. Townsend So Many MTAs, Which One Should IUse?

TC39 L. Wronsky Patient Perspectives on Informed Consent Procedures in Endodontics

TC40 W. Yeung Designing a Better Paper Point

7. 7hou Topical Anesthesia Using a

Vapocoolant

### A A E 17

PRE-DOCTORAL STUDENT; ENDODONTIST; INTERNATIONAL ENDODONTISTS; INTERNATIONAL RESIDENT; GENERAL DENTIST SESSIONS

TC42 M. Alshamma Methods Used to Determine the Root Canal Curvature and Its Management. a Literature Review

TC43 R. Gupta, Y. Patel Efficacy of Azadirachta indica as a Root Canal Irrigant: Review

TC44 J. Jeong CBCT Endodontic Diagnosis and Treatment of Two Maxillary Molars with Five Root Canals and a Mandibular Molar with Six Root

Canals

TC45 A. Langaliya Conservative Surgical Removal of latrogenic Foreign Bodies from Unusual Sites Outside the Confines of the Root Canal System: Four Case Reports

TC46 G. McLean
Apical Extrusion of Calcium
Hydroxide into the Mandibular
Canal: A Case Report

TC47 T. Nishida Consideration of Access Cavity Preparation on Mandibular Incisor by Using Preparation Guide TC48 G. Oberoi Effectiveness of Single Session of Low-level Laser Therapy for Nonsurgical Management of Periapical Lesion in Open Apex Cases

TC49 S. Ortolani
Guided Access Cavity Preparation
and Root Canal Location: A Clinical
Case

TC50 J. Park
Autogenous Transplantation of
Maxillary Third Molars Showing
Localized Microdontia to Replace
Unrestorable Premolars

TC51 M. Song Revascularization-associated Intracanal Calcification (RAIC): Risk Factors and Clinical Ramification

TC52 G. Yared
The Management of Irreversible
Pulpitis with Local Anesthesia and
Oral Dexamethasone Only and
Without Endodontic Intervention

TC53 H. Yehia Subcutaneous Air Emphysema



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