

A A E 16

# ON-SITE MEETING GUIDE

View full program information at www.aae.org/aae16.

The AAE is an ADA CERP-Recognized Provider.

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# DOWNLOAD THE MOBILE APP

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

#### The AAE16 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.
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Search AAE16 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.

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

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# **RECORD YOUR CE HERE!**

Use this handy area to record your verification numbers.

SESSION NUMBER / NAME	VERIFICATION CODE
PT - Poster Research and Table Clinics	5200150590E

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

Session Type	CE Hours Awarded
General Session	3.5 CE hours
<b>Education 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 Track	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
Educational Workshops	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 for each 4-presentation bundle 1.5 CE hours for each 6-presentation bundle
Poster Research and Table Clinics	2.0 CE hours
To the Point Lectures Corporate Workshops	No CE awarded

Have additional CE questions or ready to submit? Visit www.aae.org/cecredit by April 22, 2016.

#### 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 or select "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 NEW! INSTANTLY DOWNLOAD, PRINT OR SAVE YOUR CE LETTER.

The website will remain open until April 22, 2016.

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

# THE DOCTOR IS IN!

#### **NEW THIS YEAR!**

Have a personal conversation with an expert on topics impacting your clinical practice. Visit the booth in the AAE Member Center. No CE awarded.



#### **THURSDAY, APRIL 7**

#### 10 - 11 a.m.

#### Dr. Alan S. Law

Persistent Pain Following Root Canal Treatment

ll a.m. - noon

#### Dr. Ashraf F. Fouad

Relationships Between Systemic Health and Endodontic Disease

#### 1 - 2 p.m.

#### Dr. John T. McSpadden

Endodontic Instrument Design and Instrument Testing Systems

#### 2 - 3 p.m.

#### Dr. Asgeir Sigurdsson

Dental Trauma Assessment and Recommendations

# FRIDAY, APRIL 8

#### 10 - 11 a.m.

#### Dr. Al Reader

All You Ever Wanted to Know About Local Anesthetic

ll a.m. - noon

#### Dr. Donald R. Nixdorf

Diagnosing and Managing Non-Endodontic Pain

#### 2 - 3 p.m.

#### Dr. Eric J. Herbranson

Endodontic Instrumentation Techniques and Dentin Preservation: Another View

## **EDUCATION IN THE EXHIBIT HALL**

Don't miss these great sessions offered by our corporate sponsors.



# Corporate Workshops (CW)

Learn about innovations in treatments and technology through hands-on workshops. Advance registration is required (\$50). No CE awarded. Look for the icon in the schedule for complete event information.



# To the Point Corporate Lectures (TTP)

Corporate lectures share information about new products in 60 minutes or less. Advance registration is not required. No CE awarded. Look for the icon in the schedule for complete event information.

# 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 Doctor Is IN!

Not recorded for Live Learning Center in the Carestream Attendee Lounge

Located at Level 2 Foyer

#### TRACK CODES:

CEX	CE Express
D	Derailment
EP	Endodontic Practice
I	Interdisciplinary Care
NS	Nonsurgical Endodontics
SP	Submitted Presentations
S	Surgical Endodontics

# ORAL RESEARCH, POSTER

KESEAKCITA IAL	DEE CENTICS.
OR	Oral Research Presentations
PR	Poster Research Presentations
TC	Table Clinic Presentations

See pages 26-35 for detailed listings.

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# SCHEDULE

#### **TUESDAY, APRIL 5**

l - 7	p.m.

Registration and Information

#### WEDNESDAY, APRIL 6

8 a.m. - 12:30 p.m.

S-1 🔉 R. Rubinstein Mandibular Molar Microsurgical Workshop..... ..... Offsite - University of Pacific

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

AAE Store

Registration and Information

Advance registration required.

9 - 10:30 a.m.

FP-1 G. Mangelson Preventing Lawsuits ......2010

9 a.m. - 12:15 p.m.

EP-2 🕅 B. Valachi Getting to the Root of Work-Related Pain in Endodontics: Evidence-Based Strategies for a Long and Healthy Career......2008

9 - 10:30 a.m.

FP-3 🔉 I. McGill Achieving Financial Independence..... .2006 OR01-OR06 M Basic Science Research...... 2000 OR07-OR12 3

Clinical Outcomes 1 ......2002 9 a.m. - 5 p.m.

Exhibit Hall / AAE Member Center Open ... Exhibit Hall 9:15 a.m. - 12:15 p.m.

CW-1 9 🕅

I. Reiss

R. Smith

Carestream Dental 3-D Imaging Hands-On Workshop....Exhibit Hall

Sponsored by Carestream Advance registration required. No CE awarded.

10:30 - 10:45 a.m.

Break

10:45 a.m. - 12:15 p.m.

EP-4

The Investment Prescription: Build a High Net Worth, Not

Just a High Income......2010 OR13-OR18 3

Regeneration 1...... 2000 OR19-OR24 M

Clinical Outcomes 2 ......2002

10:45 - 11:45 a.m.

TTP-1 P. Vandrangi, T. Baker Breakthrough Technology for

a Break Through in Clinical Excellence: The GentleWave® System.....Exhibit Hall

Sponsored by Sonendo No CE awarded.

12:15 - 1:30 p.m.

Break

12:30 - 1:30 p.m.

OR25-OR28 3

Regeneration 2...... 2000

OR29-OR32 📓

Clinical Outcomes 3 ......2002

TTP-2 1 3 S. Kratchman

Updates on CBCT Uses and Bone Grafting Material

from J. Morita .....Exhibit Hall

Sponsored by J. Morita USA No CF awarded

1:30 - 4:30 p.m.	OR45-OR50 ₪
CW-2	Materials
Advance registration required. No CE awarded.	5:15 - 6:30 p.m.
1:30 - 5 p.m.	Welcome Reception
EP-5 🕅 T. Low Dog	6:45 - 7:45 p.m.
Life Is Your Best Medicine: Strategies for Optimal Health2010	Foundation Donor/Leadership
EP-6 T. Watrous Case Study: How to Analyze the Purchase of a Practice2008	Reception (By Invitation)Tropisueno Restaurant Sponsored by DENTSPLY Tulsa Dental Specialties and Treloar & Heisel
GS B. Basrani, M. Drum, A. Law, D. Mattscheck, C. Newton, S. Niemczyk General Session	THURSDAY ARRU T
Moscone West - 3rd Floor Ballroom 1:30 - 3 p.m.	THURSDAY, APRIL 7
EP-7 🖟 D. Moss	6 - 7 a.m.
Optimizing PPO Participation in the Endo Practice Without Sacrificing Service-Oriented Care 2006	5k Fun Run and WalkMarriott Marquis - Club Room Sponsored by Sonendo
1:45 - 3:15 p.m.	7 a.m 5 p.m.
OR33-OR38 🕅	AAEStore
Restorative Considerations 2000	Registration and Information
OR39-OR44 ᢂ Pain Control2002	8 a.m 12:30 p.m.  S-2 R. Rubinstein
3 - 3:30 p.m.	Mandibular Molar
Break	Microsurgical Workshop Offsite - University of Pacific
3:15 - 4:15 p.m.	Advance registration required.
TTP-3 (C. Safi	8 - 9:30 a.m.
Root Repair Material as a Retro- Filling Material During Endodontic Microsurgery: An Evidence-Based ApproachExhibit Hall	President's Breakfast T. Propper Moscone West - 3rd Floor Ballroom Sponsored by DENTSPLY Tulsa Dental Specialties
Sponsored by Brasseler USA No CE awarded.	9:30 a.m 3:30 p.m.
3:30 - 5 p.m.	Napa Valley Excursion
EP-8 D. Moss	Departs from Marriott Marquis Lobby Advance ticket purchase required.
Accounts Receivable Systems That Enhance Profits2006	9:30 a.m 5 p.m.
mat Limance Fronts2006	Exhibit Hall / AAE Member Center Open Exhibit Hall

9:45 a.m 12:45 j	p.m.	NS-1 A. Castellucci, G. Yared
CW-3  New File Advantechnology for	Root ZX II	Importance of Obturating Lateral Canals
Low Speed Hand Sponsored by J. M	dpieceExhibit Hall	and Future2005
Advance registrati No CE awarded.		OR62-OR67  Instruments and Devices 12002
10 - 10:30 a.m.		S-3 ☒ S. Kim
CEX-1 A 40-Year Journ Tips for Success	ful Endodontic	Endodontic Microsurgery: Integral and Important Part of Endodontic Practice - Update2014
	2004	10 a.m 1 p.m.
SP-1 Endodontic Res Where Are the	C. Aznar Portoles urgery: Limits?2006	Poster Research and Table ClinicsExhibit Hall
10 - 11 a.m.		10:30 - 11 a.m.
TTP-4 (A) A Solo Practitio	ner's Perspective:	CEX-2 K. Baker Drug Interactions Significant in Clinical Endodontics2004
Why 3-D Imagir Endodontics Sponsored by Care No CE awarded.	Exhibit Hall	SP-2 B. Cha Maxillary Sinus and Endodontic Implications2006
10 - 11:15 a.m.		11 - 11:30 a.m.
OR57-OR61 🕅	ing 2000	CEX-3 M. Propper Pulp and Personality: Psychiatrist Tells (Almost) All
10 - 11:30 a.m.		SP-3 R. Luciano
D-1	K. Coury, W. Nudera, D. Simon, K. Zucker	Persistent Symptoms After Endodontic Treatment,
Looking Throug spective Scope"	'- How I Would	What a Pain!
Have Done It Di	ases)2020	CEX-4 J. Gutmann
EP-9	A. Borgia	Finding the 4th Canal and Hoping
	evitability of Facing	There Isn't a 5th or 6th!2004
	actice Suit: You CAN Win!2010	11:30 a.m 1 p.m.
EP-10 📓 Oral Systemic C	L. Knowles	Past Presidents' Luncheon
How We Decod		11:45 a.m 12:45 p.m.
_	2008	Exhibit Hall Lunch Exhibit Hall
	. Bakland, B. Barsness, C. Killian, R. Steelman	Sponsored by DENTSPLY Tulsa Dental Specialties
Dental Trauma:	From	

Assessment to Action......2001

Noon - 12:30 p.m.	1:15 - 3:45 p.m.
CEX-5 E. Herbranson Dentin Preservation	I-2 M K. Baker, R. Carter, A. Clavel, L. Morrow, D. Nixdorf, P. Tawil
Noon - 1 p.m.  TTP-5  Speaker TBD	Managing the Acute and Chronic Pain Patient2001
The Endodontist of the Future:	1:15 - 4:45 p.m.
20/20 Vision Through the Eyes of John WestExhibit Hall Sponsored by DENTSPLY Tulsa Dental Specialties. No CE awarded.	EP-11 T. Low Dog Dietary Supplements: The Good, Bad and Unknown2010
12:30 - 1 p.m.	EP-12 J. Mausolf
CEX-6  R. Slosberg Endodontic CBCT in 20 Minutes or Less	Delivering W.O.W. Service: People Will Forget Everything Except How You Made Them Feel2008  NS-5 A. Azarpazhooh The Literature: How Do I Know If It Is Relevant and How Can I Use It in My Practice? (Workshop)2007
CEX-7 M. Fayad	1:30 - 2 p.m.
Is CBCT Becoming an Emerging Standard of Practice?2004	CEX-8 E. Lam CBCT: What Am I Seeing? 2004
1:15 - 2:15 p.m.	1:45 - 4:45 p.m.
D-2 R. Roda 10 Ways to Lose a Referring Dentist	CW-4 S. Alborz, B. Muller Experience the Newest Innovation in NiTi Rotary Files – HyFlexEDM Exhibit Hall Sponsored by Coltene Endo Advance registration required. No CE awarded. 2 - 2:30 p.m.
Reciprocation and Rotation 2005	CEX-9 S. Kim
OR68-OR71  Irrigation and Techniques 1 2000	Highlights for Endodontic Surgery2004
OR72-OR75  Instruments and Devices 22002	2:15 - 2:30 p.m.
SP-4 D. Mattscheck	Break
ABE Boardwalk2006	2:30 - 3 p.m.
TTP-6 M. Ree Clinical Use of Premixed Bioceramic MaterialsExhibit Hall Sponsored by Brasseler USA No CE awarded. 1:15 - 3:15 p.m.	CEX-10  Becoming the Expert Witness 2004  SP-5 J. West Disruptive Endodontics 2006
S-4 G. Bruder, D. Landwehr	
Detreet or Correct or Desision	

Retreat or Surgery: Decision
Planning Dilemmas ......2014

2:30 - 3:30 p.m.	NS-8 🖟 A. Kishen
D-3 B. Peltier Derailment Patterns and Effective Remediation	Biomechanics of Root-Filled Teeth: The Missing Link in Understanding Fractures
TTP-7 (**) (**) (**) See mobile app for details	CEX-13 P.N.R. Nair Pulp Canal Colonization:
Sponsored by J. Morita USA No CE awarded.	What Are We Trying to Eliminate with Root Canal Treatment?2004
3 - 3:30 p.m.	4 - 5 p.m.
CEX-11 L. Bakland Root Fractures Actually Have a Good Prognosis	I-3 M. K. Baker, R. Carter, A. Clavel, L. Morrow, D. Nixdorf, P. Tawil Managing the Acute and Chronic Pain Patient2001 S-5 N. Ruparel Anesthesia and Hemostasis in Microsurgery2014
3:30 - 3:45 p.m.	4 - 5 p.m.
Break 3:30 - 4 p.m.	Louis I. Grossman Ceremony Marriott Marquis - Golden Gate A
CEX-12 E. Herbranson	4:30 - 5 p.m.
Microsurgical Photography 1012004	CEX-14 J. Maggio Beyond Conventional
3:45 - 4:45 p.m.	Canal Disinfection2004
D-4 P. Morgan, M. Whitley Staff: Breaking Up Is Hard to Do	5 - 6 p.m.  Louis I. Grossman Reception Marriott Marquis - Golden Gate B Advance ticket purchase required. Professional Staff Reception Moscone West - 3rd Floor Foyer Sponsored by Brasseler USA, Henry Schein Dental and EndoVision

# FRIDAY, APRIL 8

FRIDAY, APRIL 8	9 - 10:30 a.m.
7 a.m 6 p.m.	Professional Staff Coffee and Peer Experts Roundtable 2022 Alcove
AAE Store Registration and Information 8 - 8:45 a.m.	D-5 L. Berman, K. Krell Cracked Teeth: To Treat or Not to Treat? That Is the Question2020
District Caucuses:         2010           District I         2008           District III         2006           District IV         2018           District V         2005           District VI         2020           District VII         2002	I-4 A. Clavel, L. Morrow, D. Nixdorf, B. Rundquist Complicated Pain Presentations: Working Through the Pain2001 NS-10 C. Boutsioukis, M. Haapasalo Advances in Root Canal Irrigation
8 a.m noon  NS-12  M. Fayad  CBCT Diagnosis and Treatment  Planning Workshop3018  Advance registration required.  NS-13  M. Y. Terauchi  Instrument Retrieval  Workshop3014  Advance registration required.	The Root Canal Biofilm Biological Framework: From Basic Biology to Clinical Therapy
9 - 9:30 a.m.  SP-7 R. Salehrabi	Exhibit Hall / AAE Member Center Open Exhibit Hall
The Future of Dentistry and	9:15 a.m 12:15 p.m.
Endodontics: Can Current Trends Be Reversed?	CW-5 ♀ ⋒ See mobile app for detailsExhibit Hall Sponsored by Sirona Dental. Advance registration required. No CE awarded. 9:30 - 10 a.m.
sp-27 R. Ordinola-Zapata The Mandibular First Premolar Anatomical Variations: A Microcomputed Tomographic View	SP-8  T. McClammy Molar Implant Magic2006 SP-20 G. Yared Initial Canal Negotiation, Glide Path Creation and Canal Preparation with Stainless Steel or Nickel-Titanium Engine-Driven Instruments Used
Resident and New	in Reciprocation Without the Risk of Instrument Fracture: The

Practitioner Coffee.....

.... Moscone West - 3rd Floor Foyer Sponsored by American Dental Partners 9 - 10:30 a.m.

Endurance Limit Concept .....2002

SP-28 R. Pullen The Good, the Bad and the Ugly: BIG Mistakes in Practice and How to Manage Them Clinically	EP-14  L. Knowles Ready on the Set – Is Your Team Prepared for Your Daily Show?
SP-21 D. Jaramillo, M. Leon Evaluation of Efficacy of a New Tridimensional Instrumentation System in the Reduction of the Bacterial Load in the Root Canal System	The Endodontist and the Sinus: Keeping a Healthy Relationship
SP-9 R. Miotto Palo Pursuing a Stress-Free Endodontic Preparation; Understanding the 'V-Zone'	Developed by Instrumentation and Obturation
Break	11:15 - 11:45 a.m.
10:45 - 11:15 a.m.	CEX-16 M. Hyman
CEX-15 C. Loretto Why Owning Your Practice Is the Key to Your Future	The Grand Slam Early Years of Private Practice
CEX-15  C. Loretto Why Owning Your Practice Is the Key to Your Future	The Grand Slam Early Years of Private Practice

12:30 - 2 p.m.	SP-31 J. Gibson
Edgar D. Coolidge Luncheon Moscone West - 3rd Floor Ballroom Sponsored by DENTSPLY Tulsa Dental	Reputation Management in a Digital World: Strategies for Endodontic Practices2007
Specialties	2:15 - 5:30 p.m.
2:15 - 2:45 p.m.	EP-15 🕅 J. Lichon
CEX-20 G. Baumwoll Legal Issues in Employment and Practice Transitions: Understanding Employment Contracts and Buy/Sell Agreements	More Things You Didn't Learn in Dental School: Cardiovascular Disease to Celiac Disease2010  EP-16 J. Mausolf Communication Solutions: Attitudes, Breakdowns and Conflict Resolutions
2:15 - 3:45 p.m.	CEX-18 S. Johnson, J. Keirns
Software Users Group: EndoVision	Insurance Basics for the Endodontist
I-6 G. Avila-Ortiz, M. Odom,	
A. Williamson, R. Williamson The Endodontist and the Compromised Tooth: Should	<b>CEX-19</b> J. Wherry Financial Transitions from Resident to Practitioner2004
l Stay or Should I Go Now?2001	SP-15 L. Lin
NS-16	Regenerative Endodontic Procedures for Mature Teeth with Necrotic Pulps and Teeth with Endodontic Treatment Failure
NS-17 S. Buchanan, W. Johnson Root Canal Preparation	3:45 - 4 p.m.
Instruments: Where Are	Break
We Now and Where May We Be Going?2005	4 - 4:30 p.m.
S-8 M. Fayad Presurgical CBCT Anatomic Evaluation: Implications for	SP-16 C. Berthold Splinting of Traumatized Teeth: When, Why and How?2006
Surgical Treatment Planning 2014	4 - 5 p.m.
SP-25 S.G. Kim, A. Kishen, R. Pileggi, I. Rotstein, C. Sedgley, F. Teixeira	NS-18         A. Nasseh           MTA vs. Bioceramics2018
It's a Small World After All: Understanding the Diversity of International Endodontic Education (Educator Forum)2002	S-9 B. Johnson Treatment Considerations for the Medically Complex Endodontic Surgery Patient2014

SP-32 V. Hegde	5:30 - 6:30 p.m.
Glide Path and Its Management	Resident Reception (By Invitation)Offsite - Jillian's Sponsored by MedPro and Treloar & Heisel.
4 - 5:30 p.m.	8:30 - 11:30 p.m.
Resident and New Practitioner Career Fair Moscone West - 3rd Floor Foyer Sponsored by Radman, White & Associates, Inc. You must be a registered attendee or exhibitor at AAE16 to participate in the Career Fair.	Celebrate San Francisco!
Software Users Group: EndoTrak 2000	SATURDAY, APRIL 9
D-8 🕅 C. Ruddle	8:30 a.m 3 p.m.
The Broken File Dilemma: Solving Problems as They Occur2020	AAE Store
I-7 M G. Glickman, A. Law, M. Vujicic	Registration and Information
The Future of Endodontics:	8:45 - 11:15 a.m.
What's the Prognosis?	Alliance Breakfast and Meeting No membership, prior attendance or advance registration is required. Check mobile app for location.  9 - 9:30 a.m.  SP-35  A. Berdichewsky
Finding, Training and Empowering an Incredible Dental Team 2004	Removing Separated Instruments: Techniques and the Decision- Making Process
4:30 - 5 p.m.	9 - 10 a.m.
SP-17 C. Aznar Portoles Therapeutic Options for the Management of External Cervical Invasive Resorption	SP-38 A. Fleury, J. He, Y. Patel, K.  Woodmansey The Contemporary Science and Clinical Applications of Bioce- ramic Materials 2005 9 - 10:30 a.m.
• • • • • • • • • • • • • • • • • • • •	D-9 M M. Ree
SP-18 G. Jouanny Diagnosis and Treatment of Pathological Resorptive Lesions: A Modern Approach	Repair of Root Perforations with Bioceramic Materials

I-8 E. Lam, O. Peters, R. Todd	12:15 - 1:45 p.m.
CBCT: Clinical Use, Cautions and Cases2001	NS-20 K. Hargreaves, R. Holland,
S-10 M. Nevins	J. Nusstein, S. Simon Let's Talk Pulp2001
Bone Regeneration and Growth Factors2014	12:45 - 1:15 p.m.
9:30 - 10 a.m.	SP-34 N. Grande, G. Plotino
SP-36 F. Carvalho, A. Machado	Mechanical Scouting and
A New Surgical Technique to	Glide Path: When and How2006
Remove Fractured Files from the Apical Third of Curved Root	1:15 - 1:30 p.m. Break
Canals Based on the Apical Third	
Conservation2006	1:30 - 2 p.m.
10 - 10:30 a.m.	SP-40 C. Safi Medication-Related Osteonecrosis
SP-37 A. Sigurdsson Removal of and Cleaning	of the Jaw and Endodontics2006
Around and Beyond Separated	1:30 - 3 p.m.
Instruments Using the Multisonic Technology2006	D-11 🕅 S. Cohen, E. Zinman
10.45	Endodontics and the Law: Q&A2020
General Assembly	EP-19 🕅 C. Loretto
Moscone West - 3rd Floor Ballroom	The Critical Reasons for Owning in Dentistry2010
Sponsored by DENTSPLY Tulsa Dental Specialties	EP-20 E. Cunv
12:15 - 12:45 p.m.	OSHA: Not Just Another
SP-33 A. Berdichewsky	Four-Letter Word
Systematic Approach	NS-22 G. Carr, S. Friedman Critical Review of Endodontic
Techniques to Find Difficult and Calcified Canals2006	Treatment Outcomes2005
12:15 - 1:15 p.m.	S-11 T. von Arx Management of Surgical
D-10 M M. Haapasalo	Complications and How
To the Apex and Beyond:	to Avoid Them2014
Managing the Extrusion of Irrigants/Materials2020	2 - 2:30 p.m.
NS-21 R. Todd	SP-41 S. Hagel-Bradway
CBCT: Image Quality and Its	Treatment Considerations in Patients Taking Prolia2006
Impact on Interpretation and Misinterpretation2005	
SP-39 M. Marmo	
5 C D . L . D:	

From Gutta-Percha to Bioceramics: An Evidence-Based Analysis ...2008

# SPECIAL EVENTS

#### WEDNESDAY, APRIL 6

#### **Welcome Reception**

5:15 - 6:30 p.m.

Marriott Marguis - Yerba Buena Salon

Enjoy a taste of wine country while mingling with friends and colleagues. All attendees and their registered guests are welcome!

#### THURSDAY, APRIL 7

#### President's Breakfast

8 - 9:30 a.m.

Moscone West - 3rd Floor Ballroom

Join AAE President Dr. Terryl A. Propper to reflect on the past year and preview what's ahead for the AAE. PLUS. learn more about the AAE's new brand!

# FRIDAY, APRIL 8

#### Coolidge Luncheon

12:30 - 2 p.m.

Moscone West - 3rd Floor Ballroom

Be part of the ceremony to acknowledge the winners of the most prestigious AAE honors and awards.

### Happy Hour

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

End your day with a stop in the exhibit hall for a lively happy hour. Don't miss your chance to visit with vendors on this last day of the exhibit hall!



8:30 - 11:30 p.m. Exploratorium

Join your friends and colleagues for a night of interactive exhibits, live music, food and beverages. The Exploratorium isn't just a museum; it's an ongoing exploration of science, art and human perception — a vast collection of online experiences that feed your curiosity.







#### SATURDAY, APRIL 9

#### General Assembly

10:45 a.m. - noon Moscone West -3rd Floor Ballroom

The General Assembly is the AAE's annual business meeting. Hear reports from AAE leaders, vote on important changes to the Constitution and Bylaws. and see the installation of new officers

and Board members. The winners of the AAF/DENTSPLY Resident Awards will be announced at this event as well. All AAF members are encouraged to attend!



# SPOUSE / GUEST ACTIVITIES

#### WEDNESDAY, APRIL 6

# Life Is Your Best Medicine: Strategies for Optimal Health

1:30 - 5 p.m.

Moscone West - Room 2010

# THURSDAY, APRIL 7

#### Napa Valley Excursion

9:30 a.m. - 3:30 p.m.

Meet in Marriott Marguis Lobby

Advance registration required. Visit the registration desk to check availability.

#### FRIDAY, APRIL 8

#### **Breakfast Open House**

8:45 - 10:15 a.m.

Check mobile app for location.

# Alliance Meeting

10:15 - 11:15 a.m.

Check mobile app for location.

# LIST OF EXHIBITORS

Company Name	Booth#	Company Name	Booth#
Acadental	104	Essential Dental Systems	823
Accurate Manufacturing, Inc	234	Fontona/Lasers4Dentistry	817
ACTEON North America	522	Global Surgical	501
American Association		Great Expressions Dental Centers	122
of Endodontists		Hartzell Instruments by DenMat.	100
American Dental Partners		Hawaiian Moon	535
${\sf AmericanExpressOPEN\ldots}.$	239	Helse Dental Technology	629
Angelus		Henry Schein Dental	223
Aseptico		Hu Friedy	
ASI		HUBERMED	831
Aspen Dental	627	ILC New York, Inc	725
Avalon Biomed Inc	117	Infinite Therapeutics	331
B & L Biotech USA, Inc		Infinite Trading, Inc.	238
Benco Dental		J. Morita USA	711
Bisco Dental Products	526	JEDMED	601
${\sf BMTMedizintechnikGmbH.} \ldots$	134	Jordco, Inc.	124
Brasseler USA	517	Journal of Endodontics	211
Burkhart Dental Supply	529	JS Dental Manufacturing, Inc	425
CareCredit	822	Kerr Corporation	
Carestream	701	Komet USA	
CJ Optik	129	Labo America Inc	828
Clear Optix	838	Laschal Surgical Instruments, Inc.	106
Coast Dental	833	Laschal Surgical Instruments, Inc.	
Coltene Endo	217	LED Dental	
Dental Cadre	439	Leica Microsystems	
Dental Laser Coaching	636	LumaDent, Inc.	
Dental Specialist Institute	639	Mani, Inc.	716
Dental Tribune	834	Maruchi	534
dentalfone	801	Medidenta	412
DentalOne Partners	839	MedPro	311
<b>DENTSPLY</b> International	401	Meta Biomed, Inc	821
DENTSPLY Maillefer	401	Microsurgery Instruments, Inc	428
DENTSPLY Tulsa Dental Special	ties 401	MoraVision	436
Denttio, Inc	537	MounceEndo	539
Designs for Vision, Inc	413	Munce Discovery Burs /	
DEXIS	327	CJM Engineering, Inc	230
DiaDent Group International	807	NSK America	235
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Elsevier	213	Osada, Inc.	634
Endo Mastery	631	Otto Trading, Inc.	131
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Endodontic Practice US	738	Pacific Dental Services	528
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PBS Endo	512
PDT, Inc./	
Paradise Dental Technologies	
Phase II Associates	
Planmeca USA, Inc	
PMPH USA Ltd	
Porter Instrument	
Premier Dental Products Company	
Prescott's Inc	
Protrain - Simit Dental	
${\sf QualityAspiratorsInc\&Q-Optics.}$	
$\label{eq:Quintessence} Quintessence \ Publishing \ Co., Inc. \ \ .$	
Radman, White & Associates	
Renew Digital	
RGP Dental	
Roydent Dental Products	
Saeshin America, Inc	
Schwed Co, Inc	
Scott's Dental Supply	
Seiler Instrument	729
Shenzhen Superline	
Technology Co., LTD	
Sirona Dental, Inc	
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Tech.Co.,Ltd.	
TDO/EIE2	
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TransFirst	
Treloar & Heisel, Inc.	
UBS Financial	
Ultimate Dental	
Ultradent Products, Inc	
United Community Bank	
Vista Dental Products	
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XDR Radiology	
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Zendo Online	
Zumax Medical Co., Ltd	135

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#### DIAMOND LEVEL



PLATINUM LEVEL



## GOLD LEVEL







# EXHIBIT HALL MAP



# POSTER RESEARCH AND TABLE CLINICS

#### **EDUCATION IN THE EXHIBIT HALL**

Make sure to consult the schedule and look for directional signage in the exhibit hall for Poster Research and Table Clinic Presentations, Corporate Workshops and To the Point Corporate Lectures.

# WEDNESDAY, APRIL 6

# **THURSDAY, APRIL 7**

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

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

# FRIDAY, APRIL 8

Check out the interactive exhibit floor plan or the AAE16 meeting website and mobile app.

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

839	838

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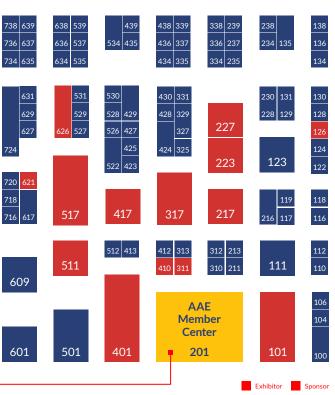
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- Browse publications and resources.
- Get to know the AAE staff.





On Friday, during the Exhibit Hall Happy Hour, make sure to stop by and pick up your FREE koozie!

PLUS, don't miss the NEW Doctor is IN sessions!

Check page 6 for the complete schedule.



# ALUMNI AND AFFILIATE EVENTS

All events will be held at the San Francisco Marriott Marquis unless otherwise noted.

#### **TUESDAY, APRIL 5**

Endodontic Standards Business Meeting...... Sierra H Noon-5 p.m.

#### WEDNESDAY, APRIL 6

<u></u>	
Army-Navy Affiliate Cocktail Reception (I	by Invitation)Offsite 6-8:30 p.m.
Louisiana State University Reception	Foothill H <b>7</b> -9p.m.
Scientific Advisory Board Reception	Foothill F 6:30 - 7:30 p.m.
Texas A&M University Baylor College of Dentistry Reception	Club Room <b>8-11p.m</b> .
University of Detroit Mercy Dinner (by Invitation)	Offsite <b>7-10 p.m</b> .
University of Michigan Reception (by Invitation)	Offsite <mark>6-8 p.m.</mark>
University of Minnesota Reception	Atrium 6:30 - 8:30 p.m.
University of the Pacific Reception	Offsite 6:45 - 8:30 p.m.
University of Toronto Reception	Foothill E <b>7-9 p.m.</b>
U.S. Air Force Association of Endodontists Business Meeting	. Moscone West - Room 2005 <mark>8 - 9 a.m.</mark>
U.S. Air Force Association of Endodontist Reception (by Invitation)	
West Virginia University Reception	Pacific J <b>6-8 p.m.</b>

# THURSDAY, APRIL 7

Albert Einstein University Reception Sierra Suite A 6:30-8 p.m.	
Boston University Reception	
Case Western Reserve University Reception	
Columbia University Reception	
French Society of Endodontics Reception Foothill E <b>7-10 p.m.</b>	
Harry J. Healey Endodontic Study Club Reception	

# THURSDAY, APRIL 7 (continued)

United States Navy Association of

THORSDAT, AT RIE 7 (continued)	
Marquette University Reception	Sierra Suite C 6 - 7:30 p.m.
New York University Reception	Sierra Suite H 6-8 p.m.
Nova Southeastern University Reception	uena Salon 5-6 <b>8:30 - 10 p.m.</b>
Ohio State University Reception	Sierra Suite I 6:30 - 9 p.m.
Oregon Health & Science University Reception (by Invitation)	Offsite 6-8 p.m.
Saint Louis University Reception (by Invitation)	Offsite 6-9p.m.
Temple University Reception	Foothill F 6:30 - 8 p.m.
Tufts University Alumni Reception	Willow 6:30 - 8:30 p.m.
University of Buffalo Reception	Laurel 6-8 p.m.
University of California San Francisco Reception	Walnut 6-7:30 p.m.
University of Illinois Endodontics Alumni Dinner (by Invitation)	Offsite 6-9p.m.
University of Iowa Reception	Foothill G 6-8:30 p.m.
University of Louisville Endodontics Reception	Sierra Suite K 6-8 p.m.
University of Maryland ReceptionYerba B	uena Salon 2 <b>6:30 - 8:30 p.m.</b>
University of North Carolina & TarHeel Endodontic Association Reception	Foothill D 8:30 - 10 p.m.
University of Southern California Reception	Atrium 7-9p.m.
University of Texas at Houston ReceptionYerba B	uena Salon 3 <b>6:30 - 8:30 p.m.</b>
University of Texas Health Science Center at San Antonio ReceptionYerba B	uena Salon 4 <b>6:30 - 9:30 p.m.</b>
University of Washington Reception	
Virginia Commonwealth University Reception	Sierra Suite J <b>6:30 - 8 p.m.</b>
FRIDAY, APRIL 8	
University of Pennsylvania Reception	Club Room 6:30 - 8 p.m.
SATURDAY, APRIL 9	

# 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 6

Regeneration 2...... 2000

G. Nielsen, Z. Abdelaziz, L. Guajardo,

OR29-OR32 📓

C. Pirani

9 - 10:30 a.m.	1:45 - 3:15 p.m.
OR01-OR06 A A. Albassam, S. Jain, A. Alaqla, S. Lee, D. Whiting, K. Maheshwari Basic Science Research 2000	OR33-OR38 W. Lam, C. Heslington, J. Rivera, D. Abide, A. Shrestha, M. Coelho Restorative Considerations 2000
OR07-OR12 A. Desta, S. Bjarnason, C. Safi, S. Khaliq, K. Ramey, S. Johnson Clinical Outcomes 1	OR39-OR44 ₪ T. Bonar, S. Webster, K. Bultema, E. Smith, T. Taggar, B. Glenn Pain Control
0:45 a.m 12:15 p.m.	3:30 - 5 p.m.
OR13-OR18 ₪ Gharavi, M. Jamal, T. Al Saeed, O. Jenks, S. Alyas, A. St. Paulr Regeneration 1	OR45-OR50 ₪ J. Steffen, N. Dinsbach, J. Hawkins, S. Küçükkaya, D. Dua, I. Chen Materials
OR19-OR24 M H. Berenji, M. Lessani, C. Falcon, C. Diegritz, W. Ode, A. Flouriot Clinical Outcomes 22002 12:30 - 1:30 p.m.	OR51-OR56   W. Sakr, H. Lim, B. Moore, J. McFarland, B. Briseno, T. Wolf  Anatomy and Instrumentation
OR25-OR28 📓 I. Yui, C. Bellamy, S. Shrestha, Q. Zeng	



#### THURSDAY, APRIL 7

OR57-OR61	*
J. Parker, B. Be	hm, J. Fike, B. Pitcher

10 - 11:30 a.m.

10 - 11:15 a.m.

#### OR62-OR67 3

A. Hieawy, A. Pioch, Y. Alnowailaty, K. Alfouzan, J. Weigle, A. Mainkar Instruments and Devices 1....2002

12:30 - 1:30 p.m.

#### OR68-OR71 📓

K. Kunz, I. Grayson, O. Abusteit, J. Reaves Irrigation and Techniques 1 ... 2000

#### OR72-OR75 📓

Y. Yahata, P. Lundine, F. Iacono, T. Abu-Haimed and W. Khalil Instruments and Devices 2.....2002 2:30 - 3:30 p.m.

OR76-OR79 

G. Zilinski, Z. Wang, H. Aksel, A. Dua

G. Zilinski, Z. Wang, H. Aksel, A. Dua Irrigation and Techniques 2 . . . 2000

OR80-OR83 📓

3:45 - 4:45 p.m.

OR85-OR87 🕅

OR88-OR91 3

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

Friday, 4 - 5:30 p.m. in the 3rd Floor Foyer

Thank you to our sponsor Radman, White & Associates, Inc.

# POSTER RESEARCH PRESENTATIONS

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

#### THURSDAY, APRIL 7 - 10 a.m. - 1 p.m.

#### RESIDENT PRESENTATIONS

#### PR01 N. Akbarzadeh

The Effect of Lipopolysaccharide on Dentin Sialophosphoprotein Production of Immortalized Stem Cells of Human Exfoliated Deciduous Teeth

#### PR02 M. Alghofaily

Effect of Statins on Healing of Periapical Lesions Following Nonsurgical Root Canal Treatment

#### PR03 D. Bachala

The Effect of the Currently Existing Crown, Amalgam or Composite Restoration on the Endodontic Periapical Diagnosis in Teeth Prior to Root Canal Treatment

#### PR04 V. Ball

A Micro-CT Assessment of Dentin Removal Following Passive Ultrasonic Irrigation Comparing Stainless Steel and Nickel-Titanium Tins

#### PR05 P. Batra

Analysis of Radiographic Changes Associated with the Periradicular Diagnosis of Symptomatic Apical Periodontitis

# PR06 Y. Benjamin

Comparative Quantitative Analysis of Bacterial Removal on Mandibular Molars Accessed with Minimally Invasive and Conventional Techniques

#### PR07 B. Berson

The Effect of a New Self-Sealing Obturation Technique on Fracture Resistance of Teeth with or Without a Post-and-Core Restoration

# PR08 J. Bleuel, C. Gleis

Clinical Outcome of Unfilled Post Spaces

### PR09 C. Boyd, B. Bakhshoudeh

Influence of Clinical and Demographic Factors on Pain Following Pulpectomies for Teeth with Symptomatic Irreversible Pulpitis

#### PR10 R. Brennan

Fracture Resistance of Mandibular Molars Using Conventional and Minimally Invasive Endodontic Access

#### PR11 D. Cecchin

Comparison of Microbial Reduction Between Mechanical Techniques of Root Canal Instrumentation

# PR12 S Cho

Synergistic Antifungal Activity of a Synthetic Human Beta-Defensin 3 Peptide with Chlorhexidine Against Candida albicans Biofilms

# R13 Y. Chung, W. Lee

Evaluation of Tensile Bond Strength of Gutta-Percha Cone Obturated with Different Sealers

#### PR14 P. Wohlgemuth, D. Cuocolo

Effectiveness of the GentleWave® System in Removing Separated Instruments

#### PR15 C. Czaperacker

Hypoxia-Induced Adipogenic Lineage Differentiation Modulates Pulp Tissue Regeneration

#### PR16 P. Duquette

Spectrophotometric Analysis of Teeth Discoloration in the Presence of Blood with Different Pulp Capping Materials PR17

A. Eid

Are Clinical Trials of Nonsurgical Endodontic Treatment Outcome Adequately Powered?

PR18 A. Farina

Effect of Ferrule and Posts System on Fracture Resistance of Endodontically Treated Teeth

PR19

E. Geisler

Success Rate of Single-Versus
Two-Visit Endodontic Treatment on
Necrotic Teeth with Intraoral Sinus
Tracts: Retrospective Cohort Study
with Minimum One-Year Evaluation

PR20

G. Geraets

The Correlation of the Pulpal Diagnoses with the Remaining Dentin Thickness Between the Restoration and Pulp at the Time of Endodontic Treatment

PR21 M. Gerges

The Impact of the Opposing Dentition on the Survival of Endodontically Treated Teeth

PR 22 P. Goforth

A Five-Year Retrospective Outcome Study of Nonsurgical and Surgical Root Canal Therapy: A Postgraduate Analysis

PR23 B. Hill

Bacterial Removal Following
Instrumentation with TruShape™:
Does Size Matter?

PR24 A. Hsin

Quantitative Analysis of Bacterial Removal from Root Canal Systems Using Different Concentrations of Sodium Hypochlorite

PR25 E. Hunter

Evaluation of Five Electronic Apex Locators Ability to Determine the Major and Minor Foramen: An *In Vitro* Study PR26

D. Hwang

Root Canal Disinfection Efficacy
Using Different Carriers During
Regenerative Endodontic
Procedures

PR27

A. Innes

Comparison of Cyclic Fatigue Resistance Amongst Conventional and Proprietary Heat-Treated NiTi Rotary Instruments

PR28

Y. Kamura, C. Lee

Outcomes of Regenerative Endodontics and Apexification: A Meta-Analysis

PR29

S. Kheirieh

A Nanogel-Based Scaffold in Endodontics

Cancelled PR30

E. Kim

Multidisciplinary Surgical Approach to the Endodontic-Periodontal Combined Lesion

PR31

K. Kim, S. Baek

Bone Regeneration of Experimentally Induced Large Periapical Bone Defect Using Membranes and Calcium Sulfates in Dogs

PR32

N. Latifi, V. Ramesh

Clinical Outcomes of Endodontic Treatment in Children with Immature Permanent Teeth: An Interim Analysis

PR33

J. Lee

Current Trends in Regenerative Endodontic Procedures Among Endodontists: A Web-Based Survey

PR34

Y. Lee

Histopathological Profile of Periapical Radiolucent Lesions: A Retrospective Study

**PR35** 

M. Leon

Evaluation of the Pulp Response in Patients Receiving Full-Crown Preparations

# RESIDENT PRESENTATIONS (continued)

# PR36

S. Manne

A Retrospective Study on Pulp Capping in the Dental Curriculum: Obstacles and Concerns

PR37 Y. Marder

Comparing the Effectiveness of Removal of GuttaCore™ Using Different Protocols

PR38

G. McLean

A Comparison of Biofilm Formation Abilities of Clinical Isolates of Enterococus faecalis on Dentin

PR39 A. Mehrfar

Efficacy of Cone Beam Computed Tomography in Detecting MB2 Canals in Maxillary First Molars

PR40 R. Mikulik

Apical Biofilm Removal by 3% Sodium Hypochlorite Activated by Different Acoustic Irrigation Techniques

PR41 K. Morio

Development of a New Multispecies Biofilm Model for Root Canal Disinfection Laboratory Testing

PR42 M. Morris

Osteogenic Potential of Osteogenic Lineage-Committed Human Dental Pulp Stem Cells in the Presence of an Experimental Discoloration-Resistant Calcium Aluminosilicate Cement

PR43 K. Newton, R. Drummond

CBCT as a Tool to Identify the Presence of Middle Mesial Canals in Mandibular Molars: An *In Vitro* Study

PR44 L. Nguyen

The Association of Various Restorative Modalities with the Differential Endodontic Pulpal Diagnosis of Teeth Prior to Endodontic Intervention

#### PR45

T. Niemi

Effect of S-Curved Instruments and Access Outlines on the Removal of Root Canal Obturation Materials in Oval-Shaped Canals

PR46 F. Douglas, T. Oliveira

Comparison of Color Stability After Treatment with Four Calcium Silicate-Based Cements

PR47 M. Packer

Comparison of Treatment Planning Decisions for NSReTx Using Digital Radiographs Versus Digital Radiographs and CBCT

PR48 K. Pajouhan

Regenerative Endodontic Procedures for Mature Teeth with Necrotic Pulps: A Case Series

PR49 I. Pratt

A Seven-Year Retrospective Study of the Critical Time Lapse Between Root Canal Completion and Crown Placement: Its Influence on the Survival of Endodontically Treated Teeth

PR50 A. Alshahrani, A. Jabali

Evaluation of Root Canal Morphology of Human Maxillary and Mandibular Molars Using Cone Beam Computed Tomography (CBCT)

PR51 M. Rancourt

Evaluation of Solubility and Surface Texture of EndoSequence® BC Sealer™ Following Immersion in Various Solvents

PR52 M. Rizk

Dentin Sialophosphoprotein Expression in Stem Cells of Human Exfoliated Deciduous Teeth After Exposure to Human Beta-Defensin 2 and 3

PR53 R. Romero

Torsional Properties of Proprietary Heat-Treated NiTi Rotary Instruments Versus Conventional NiTi

#### **PR54**

R. Fujimaki

Applicability of the Root Canal Irrigation with the Prototype EDTA Solution: Evaluation of the Effect on Root Canal Dentin

K. Sahlv

A Comparative Study of the Fivefold Decreased Survival of Posterior Teeth Restored with Amalgam or Composite Versus Crown Following Root Canal Treatment

**PR56** 

H. Wang, S. Sandhu

Smear Layer and Debris Removal from Dentinal Tubules Using Different Irrigation Protocols: Scanning Electron Microscopic Evaluation, an In Vitro Study

**PR57** 

J. Seung

**Ouaternary Ammonium and** Nano-Silver in Epoxy Resin-Based Endodontic Sealer

PR58

B. Shakiba, N. Khandhadiya

Do Antibiotics Reduce Post-Operative Pain and Flare-Ups? A Systematic Review

**PR59** 

R. Singh

Efficacy of the TRUShape® 3-D Conforming Files on Cleaning and Shaping Oval Canals: A Microbiological Evaluation

PR60

M. Soriano

Frequency of CBCT Utilization and Application in Endodontics

**PR61** 

J. Stern, M. Goswami

The Periapical Status Related to the Quality of Endodontic and Restorative Treatment of Root Canal-Treated Teeth

PR62

I. Suzuki

Evaluation of Root Canal Preparation by Prototype EDTA Gel and Optimum Torque Reverse Device

PR63

L. Taiman

Temperature Assessment of the GuttaCore™ and Obturator Oven by Infrared Thermographic Analysis: A Pilot Study

**PR64** 

T. Tawady

Prevalence of Hyperglycemia in a Diabetic and Nondiabetic **Endodontic Patient Population** 

K. Thames, D. Watson

Effects of a Discoloration-Resistant Calcium Aluminosilicate Endodontic Cement on the Viability and Proliferation of Undifferentiated Human Dental Pulp Stem Cells

**PR66** 

C. Tran Khanh

Chemical Analysis of Bioceramic Materials

**PR67** 

C. Waltz

Assessment of Solubility of Carrier-Based Obturation Systems: GuttaCore<sup>™</sup> and EdgeCore<sup>™</sup>

**PR68** 

F. Wang

Regulation of RUNX2 mRNA by Endoribonuclease IRE1α-Dependent Decay

**PR69** 

P. Yamamura

Characterization of the Differentiation Ability of Various Dental Mesenchymal Stem Cells

PR70

K. Yokota

Setting Time of Two Different Formulations of EndoSequence® Bioceramic Root Repair Material

PR71

A. Zedler

Understanding the Effect of Instrumentation on Root Fracture

PR72

D. Zosche, R. Snyder

The Functional Regeneration of the Pulp-Dentin Complex: A Systematic Review

# PREDOCTORAL, GENERAL DENTIST AND ENDODONTIST PRESENTATIONS

PR73 A. Aban

Treatment of Internal Root Resorption: A Conventional Approach

## PR74 Y. Beddawi, A. Abd-Elmeguid

Obturation of the Accessory Root Canals: A Clinical Descriptive Analysis

PR75 A. Adl

Spectrophotometric Analysis of Coronal Discoloration Induced by Two Endodontic Cements

PR76 E. AlShwaimi

Evaluation of the Internal and External Morphology of Maxillary Second Premolars in a Saudi Arabian Population: An *In Vitro* Micro-Computed Tomography Study

#### PR77 P. Amoroso Silva

Is Finishing 90°-Oscillatory Instrumentation with NiTi Hand Files Able to Improve the Final Mechanical Debridement Quality?

PR78 G. Cole

Cone Beam Computed Tomography Analysis of the Root Canal Morphology of Mandibular First Premolars in a Guatemalan Population Premolars in a Guatemalan Population

PR79 V. DiCarlo

The Radial Expansion of Hydrophilic Endodontic Obturation Points

**PR80** Y. *Tsujimoto*, *R. Gomi* Influence of the Phase

Transformation Behavior of R-Phase Nickel-Titanium on Its Torsional Fatigue Resistance and Cyclic Fatigue Resistance PR81 J. Ha

Bortezomib Modulates Dentin Regeneration After Cavity Preparation in Mouse Molars

PR82 Y. Yamazaki, N. Hosoya

Evaluation of Instruments for Removing Root Canal Filling Materials

PR83 C. Jacobsen

Retrospective Study of Radiographic Outcomes of Endodontic Treatment of Immature Teeth with Necrotic Pulps

PR84 M. Jeon

Genotoxicity of Calcium Silicate-Based Endodontic Sealers on Chinese Hamster Ovary (CHO) Cells

PR85 C. Jun

Effect of Enamel Matrix Derivative to Pozzolan Cement on Odontogenesis

PR86 K. Merdad

Comparative Study of Cyclic Fatigue Resistance for Six Rotary Instruments with Different Nickel-Titanium Wires

PR87 H. Kim

Geometric Effect From the Center-Off, Cross-Section of Nickel-Titanium Rotary Instruments: Finite Element Analysis Study

PR88 N. Kim

Comparing the Apical Marginal Adaptation of the New Pozzolan Cement, Conventional MTA and IRM

PR89 R. Knepper

Cholesterol Granuloma in Periapical Inflammatory Lesions Is Dictated by the Size of the Lesion but Not Patient Age

#### PR90 N. Kohly, A. Saadatisohi

Effect of Clonidine as an Adjunct to Lidocaine for Inferior Alveolar Nerve Block Anesthesia on Post-Operative Pain After Single-Visit Root Canal Treatment in Teeth with Irreversible Pulpitis

#### PR91

Physicochemical Properties of Various Bioceramic Root Canal Sealers

#### PR92

Effect of the New Root Canal Sealer Containing Oleic Acid, Eugenol and Zinc Oxide on the Polymerization of Resin Composite Materials

# **PR93** R. Perez-Alfayate, M. Mercade Some Clinical Indications for

Intentional Replantation

#### PR94

Anatomic Variations in Root Canal Morphology of Maxillary Second Molars in Korean Populations and Their Effect on Apical Leakage After Endodontic Treatment

#### PR95 G. Sánchez-Sanhueza

In Vitro Antimicrobial Action of Copper Nanoparticles on Enterococcus faecalis Strains Genotyped Epidemiologically

#### PR96 J. Santos

Evaluation of Cytotoxicity of a New Root Canal Sealer on Cell Cultures of Macrophages and Fibroblasts

#### Cancelled PR97 M. Zaccaro Scelza

Evaluation Comparative of Cytocompatibility of MTA and Biodentine®

#### PR98

M. Sekiya

Manufacture of the C-Shaped Root Canal Model with 3-D Printer, Part 1

#### PR99 E. Shadmehr, A Sahdmehr

Anesthetic Efficacy of Articaine/ Clonidine for Inferior Alveolar Nerve Block in Patients with Irreversible Pulpitis

#### PR100

J. Lee

M. Maeda

J. Park

S. Shin

Pulp Status Affects Levels of Angiogenic Factors in Human Pulp Cells Grown with Mineral Trioxide Aggregate

#### PR101 J. Thomas

Anatomical Position of the Palatal Root of the First Maxillary Molar: A CBCT Analysis

#### PR102

Y. Yoo

Comparison of Strains in Immature Teeth Depending on the Apexification Methods

#### PR103

S. Zhong

Viral microRNAs: New Players in Endodontic Disease?

# TABLE CLINIC PRESENTATIONS

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

#### THURSDAY, APRIL 7 - 10 a.m. - 1 p.m.

#### RESIDENT PRESENTATIONS

TC01 C. Allen

Cutaneous Sinus Tracts of Dental Origin: A Clinical Challenge

TCO2 C. Ardalan, H. Karashi Identification of Carrier-Based Obturators Using Digital Radiography

TCO3 E. Chybowski, C. Barnett
Time-Saving Methods for Endodontic
Flap Closure

TC04 B. Becker

Comparison of the Efficacy of 12.5% and 20% Citric Acid on Removal of Calcium Hydroxide from Root Dentin

**TC05** A. Biscontine Get That Sensor Out of My Mouth!

TC06 E. Bohlu

The Gene Network Underlying Apical Periodontitis: Understanding the Effects of DNA Variations Using an Interactive Visual Analysis

TC07 C. Bradley

Comparison of Different Solvents on Gutta-Percha

TC08 B. Braunstein

Management of Through-and-Through Lesions Using Guided Bone Regeneration

TC09 G. Burgdorf

What Kind of Dentin Is That?

TC10 B. Cheung, J. Jung A New Standard for Cervical Tooth Perforation Repairs

TC11 K. Chou, T. Cooper Cold Testing with a Cotton Pellet

TC12 D. Crossen

CBCT and 3-D Printing: Application for Fiber Post Removal

TC13 P. Erben, W. Chu

Locating Calcified Canals with the Aid of Contrast Medium and Bitewing Radiography

TC14 R. Finley, T. Schuurmans A Premalignant Lesion: Now What?

TC15 A. Moattar

Measurement Accuracy Using Rubber Stoppers Versus Calibration Rings with Rotary Endodontic Files as Used by Dental Students: A Pilot Study

TC16 F. Berdos, J. Garcia

Decompression: A Conservative Alternative for Treatment of Large Periapical Lesions

TC17 S. Gibbs

Color Stabilities of Calcium Silicate-Based Materials in Contact with Different Regenerative Endodontic Materials

TC18 M. Giron Cerrato

Human and Feline Invasive Root Resorption: Is There a Link?

TC19 A. Glinianska
Use of CBCT in Minimally Invasive

Access Preparation

TC20 B. Hermanson SIP/SAP, the Way Teeth Feel About Social Media's View of Endodontics

TC21 M. Tahmasbi

Soft-Tissue Calcifications in the Maxillofacial Region: What You May Not Notice in a Radiograph

TC22 P. Jalali

Stigmergy: The Hidden Brain in Bacterial Biofilm

C23 H. Johnson

Autotransplantation: An Alternative Solution

TC24 R. Joon, M. Dennison

3-D Printing Technology as a Treatment Planning and Educational Tool

TC25 M. Khan

3-D Navigation Through Operating Microscopes for Endodontists

**TC26** N. Khosravian, K. Songtrakul Modified Apexification: A Case Series

TC27

Is Next Generation Sealer/Root Filling Material Here Yet?

TC28 A. Marques

Calcium Silicate Bioactive Cements: Biological Properties and Clinical Applications

TC29 P. McKenzie

Transitioning from Cleaning and Shaping to Obturation: Maintaining the Chain of Sterility

TC30 M. Messing

Evolution of Regenerative Endodontic Therapy Protocols: Timeline and Case Series

TC31 M. Moran, R. Zhuk Suction-Based Intracanal Evacuation: A Paper Point Replacement

TC32 S. Morim

Adjunctive Method of Removing Residual Obturation Material During Retreatment

TC33 S. Perrins, D. Dow

The Wedging Technique During Surgical Root Amputation

TC34 M. Roque Ruano

Tooth Autotransplantation of Ectopic Lateral Incisor to Replace a Missing Contralateral Tooth: A Case Report

TC35 C. Saylor, M. Regan Anderson Endodontic Extrusions Into the Maxillary Sinus: Precautions and Management

TC36 S. Schroeder

An Endodontic Perspective in
Treatment and Management of a

TC37 R. Sturgill

Large Radicular Cystic Lesion

Investigation of Endodontic Irrigant Precipitates and an Evaluation of Perioperative Irrigation Protocol TC38

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