

American Association
of Endodontists



CHICAGO

59TH ANNUAL SESSION APRIL 10 - 14
BACK TO OUR ROOTS

Mayor's Welcome



RICHARD M. DALEY
MAYOR



OFFICE OF THE MAYOR
CITY OF CHICAGO

April 10, 2002

GREETINGS

As Mayor and on behalf of the City of Chicago, it is my pleasure to welcome everyone attending the 59th Annual Session of the American Association of Endodontists.

Throughout many centuries of continuous technological development, endodontics has evolved into a distinct dental specialty, requiring years of intensive training in advanced surgical and nonsurgical skills. This conference offers an opportunity for endodontists from across the country to learn about new treatments, advance their expertise and network with colleagues. I commend the organizers of this event for their hard work and commitment to promoting excellence in endodontics.

While you are here, I hope you will take time to discover all that makes Chicago a great place to live and visit. I know you will like what you find, from our great architecture to our beautiful Lake Michigan shoreline with its refurbished Navy Pier, from our exciting nightlife with famous restaurants and theaters to our many world-renowned cultural institutions, excellent shopping and inviting neighborhoods.

Best wishes for an enjoyable and memorable event.




Sincerely,

A handwritten signature in blue ink that reads 'Richard M. Daley'. The signature is stylized and cursive, with a large initial 'R' and 'D'.

Mayor

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	<p>Appli-Vac™ II</p> <ul style="list-style-type: none"> Fingertip-controlled macro/micro irrigation and evacuation system 1/4"- and 1/8"-diameter handpiece provides simultaneous high-volume irrigation and evacuation Micro handpiece allows for site-specific micro irrigation and evacuation Decreases procedure time 		<p>S.I.R.™ System</p> <ul style="list-style-type: none"> For the removal of separated instruments, Gutta Percha carriers and Silver Points from root canal systems Simple and effective method for the removal of metallic obstructions Forms powerful metal-to-metal bond between flexible dead-soft Appli-Vac™ tips and metallic obstructions



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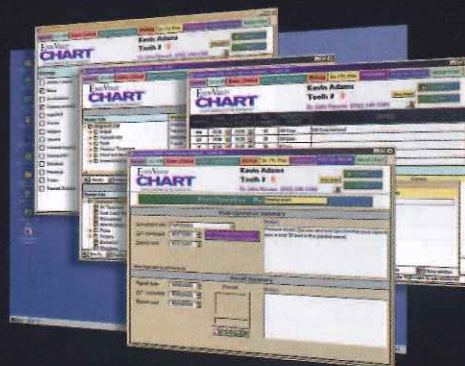
 American Association of
Endodontists

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- 3 Clinical Exam
- 4 Radiographic Exam

- 5 Etiology
- 6 Diagnosis /
Treatment Plan
- 7 Treatment
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Back to Our Roots

Dear Colleagues,

On behalf of the American Association of Endodontists, its officers and directors, and the 2002 Annual Session Committee, I welcome you to the 59th Annual Session and the city of Chicago!

It was in this very town that our founding members established a pioneering group, which half a century later has developed into a distinguished professional association playing a significant role in the reshaping of modern dentistry. This year's theme brings us "Back to Our Roots," connecting the spirit and dedication of our first members with a commitment to continued advancement and success.

With this focus, we have assembled a faculty representing the foremost educators and researchers in the endodontic field. Founding members together with guest speakers, including Dr. Lawrence A. Tabak, endodontist and Director of the National Institute of Dental and Craniofacial Research, will give you insight on traditional topics and cutting-edge scientific findings.

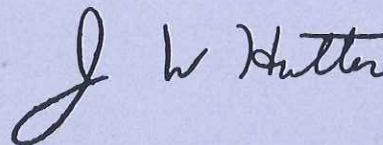
This year's meeting allows you to customize your educational experience by participating in the Wednesday Symposium, titled *Maximizing Success in Nonsurgical Endodontics*, presented by the Continuing Education Committee. Throughout the Annual Session, you will be able to choose from a wide selection of concurrent, informative principal sessions, such as *25 Years of Pulp Biology; A Look into the Future in Periodontics, Orthodontics and Restorative Dentistry; Advances in Instruments—What, When and Why; Systemic Disease; Oral Medicine Considerations for the Endodontist* and *Evidence-Based Endodontics*, to name just a few. These sessions will re-emphasize that endodontics is a science-based specialty and that the practice of endodontics must continually be "rooted" in sound scientific evidence.

The latest endodontic products and technological developments will be on display in the extensive exhibit hall, where you will also find, for the first time, an *AAE Oasis*. This area, in addition to being a comfortable rest stop, will showcase the best of what our association has to offer in products and services. Visitors to the *Oasis* will also have the opportunity to see our new line of AAE logo items that will be available for sale on-site. Take some time to meet with AAE staff, look at the AAE Foundation's Donor Wall, or ask about the American Board of Endodontics' certification process at this exciting new area!

We've also set aside ample time for you to meet and exchange ideas with your peers at daily breakfasts and luncheons. As you look through this program, you'll see many exciting events that will enhance your Chicago networking experience, such as our annual auctions, alumni and affiliate functions, special tours of the newly re-designed AAE Headquarters, and the new Friday night *Celebrate Chicago!* event.

I think you'll agree that Chicago is the place to reconnect with the past, and prepare for the changes and challenges that lie ahead. I am confident that our hard work and efforts will make this year's Annual Session the most memorable to date!

Sincerely,



Jeffrey W. Hutter, D.M.D., M.Ed.
President



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West Des Moines, Iowa



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Brentwood, Tenn.



Michele M. Whitley
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General Interest Sessions

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New York, N.Y.



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Kenneth M. Hargreaves,
D.D.S., Ph.D.
San Antonio, Texas



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David E. Witherspoon,
B.D.S., M.S.
Plano, Texas



Exhibits

Sheldon R. Mann, D.D.S.
Sarasota, Fla.



Wednesday Symposium

Shepard S. Goldstein, D.M.D.
Framingham, Mass.



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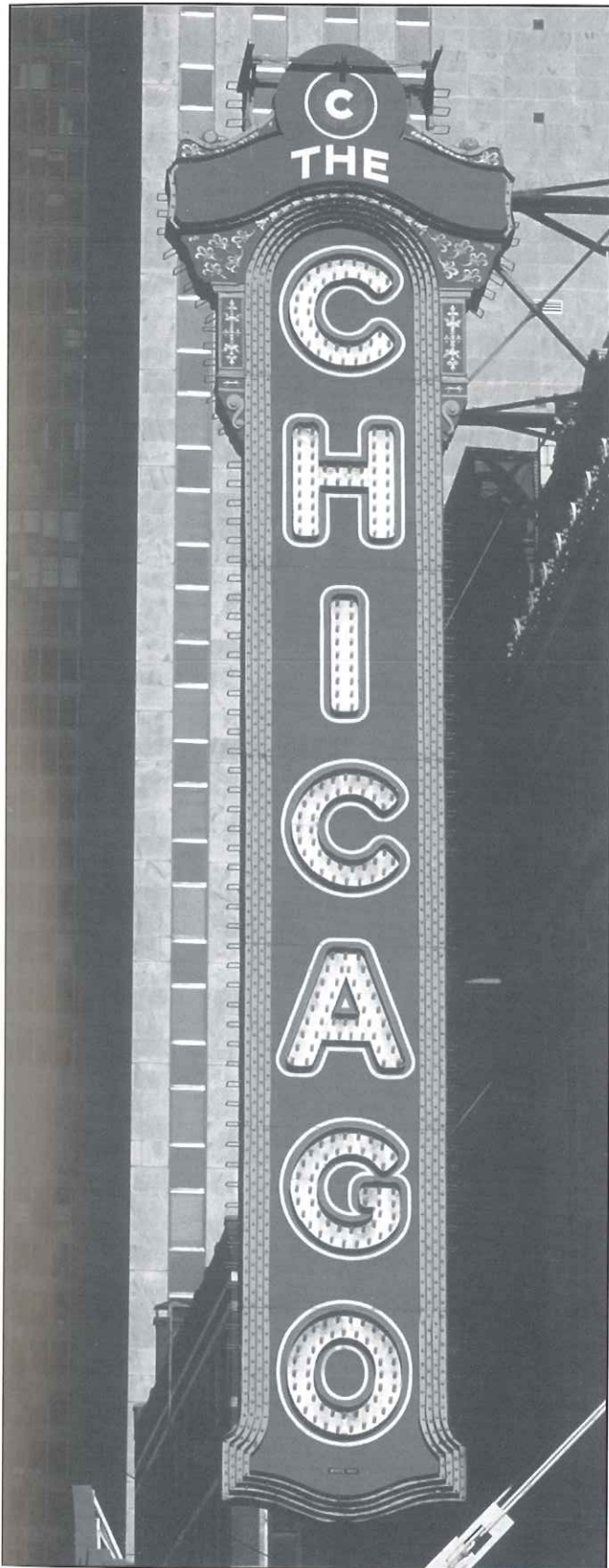


Billie G. Jeansonne,
D.D.S., Ph.D.
New Orleans, La.



Martin Trope, B.D.S., D.M.D.
Chapel Hill, N.C.

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Program Schedule

KEY:	Red = Optional Tours	Blue = Special Events
<u>DATE/TIME</u>	<u>ACTIVITY</u>	<u>LOCATION</u>
Tuesday, April 9 - - - -		
3 – 8 p.m.	Registration and Information	8 th Street Foyer
Wednesday, April 10 -		
7 – 8 a.m.	Symposium Continental Breakfast	Grand Ballroom
7 a.m. – 8 p.m.	Registration and Information	8 th Street Foyer
8 a.m. – 4:15 p.m.	Wednesday Symposium	International Ballroom
9 a.m. – noon	Che-ca-gou City Tour	
11:45 a.m. – 1:15 p.m.	Wednesday Symposium Luncheon	Grand Ballroom
1 – 5 p.m.	Art Institute of Chicago	
6:30 – 8 p.m.	Welcome Reception and Silent Auction	Grand Ballroom/Normandie Lounge
Thursday, April 11 - - - -		
7:30 a.m. – 5 p.m.	Registration and Information	8 th Street Foyer
8 – 10 a.m.	Opening Session Breakfast	International Ballroom
9 a.m. – noon	Che-ca-gou City Tour	
10 – 10:45 a.m.	District Caucuses	I—Waldorf II—PDR 2 III—PDR 3 IV—Marquette V—Joliet VI—PDR 1
10 a.m. – 5 p.m.	Exhibit Hall Open	Southeast/Southwest Halls
10:30 a.m.	Beverage Service	Exhibit Area
10:30 a.m. – noon	Educational Program	See page 20 for detail
10:45 a.m. – noon	Affiliate Leadership Meeting	Marquette
11 a.m. – 2 p.m.	SCOOZI ME!	
12:15 – 1:45 p.m.	Edgar D. Coolidge Luncheon	International Ballroom
12:30 – 3:30 p.m.	Shedd Aquarium and Oceanarium	
1 – 4:30 p.m.	Alliance Hospitality	PDR 4
2 – 5 p.m.	Educational Program	See page 20 for detail
3 p.m.	Beverage Service	Exhibit Area
5:30 – 10:30 p.m.	Second City and Adobo Grill	
Friday, April 12 - - - -		
6:30 a.m.	Fun Run	8 th Street Entrance
7:30 – 8:30 a.m.	Continental Breakfast	Northwest Hall
7:30 a.m. – 5 p.m.	Registration and Information	8 th Street Foyer
8 a.m. – 5 p.m.	Exhibit Hall Open	Southeast/Southwest Halls
8:15 – 10:30 a.m.	Alliance Continental Breakfast	PDR 4

Program Schedule

<u>DATE/TIME</u>	<u>ACTIVITY</u>	<u>LOCATION</u>
Friday, April 12 (cont.)		
8:30 – 9:15 a.m.	Alliance General Membership Meeting	PDR 4
9 – 11 a.m.	Architectural Walking Tour II	
9 a.m. – noon	Educational Program	See page 31 for detail
9 a.m. – 2 p.m.	Frank Lloyd Wright Home and Studio	
10 a.m. – 2 p.m.	AAE Headquarters Open House	
10:30 a.m.	Beverage Service	Exhibit Area
10:30 a.m. – 4:30 p.m.	Alliance Hospitality	PDR 4
11:30 a.m. – 3:30 p.m.	Marshall Field's Historic Tour and Lunch	
12:15 – 1:45 p.m.	Louis I. Grossman Memorial Luncheon	Grand Ballroom
1 – 5 p.m.	Art Institute of Chicago	
2 – 4 p.m.	Educational Program	See page 32 for detail
3 p.m.	Beverage Service	Exhibit Area
4 – 6 p.m.	Foundation Live Auction	Northwest Hall
9 p.m. – midnight	<i>CELEBRATE CHICAGO!</i> Sponsored by DENTSPLY Tulsa Dental	International Ballroom
Saturday, April 13		
7:30 – 8:30 a.m.	Continental Breakfast	Northwest Hall
7:30 a.m. – 1 p.m.	Registration and Information	8 th Street Foyer
8 a.m. – 1 p.m.	Exhibit Hall Open	Southeast/Southwest Halls
8:15 – 10:30 a.m.	Alliance Continental Breakfast	PDR 4
8:30 – 9:30 a.m.	Past Presidents Breakfast	PDR 2
9 a.m. – noon	Educational Program	See page 45 for detail
9 a.m. – 2 p.m.	Frank Lloyd Wright Home and Studio	
10 a.m. – 1 p.m.	Spago Chicago!	
10:30 a.m.	Beverage Service	Exhibit Area
10:30 a.m. – 4:30 p.m.	Alliance Hospitality	PDR 4
12:15 – 1:45 p.m.	Awards Luncheon	Grand Ballroom
2 – 4 p.m.	General Assembly	Waldorf
6:30 – 7:30 p.m.	President's Reception	Grand Ballroom
7:30 p.m. – midnight	President's Dinner	International Ballroom
Sunday, April 14		
8 a.m. – 1 p.m.	Faculty Development Seminar	Continental A

General Information

AAE Oasis

New this year!

Exhibit Hall

Stop by the AAE Oasis to check out the latest in AAE member services and products, including a brand new line of AAE logo items available for sale. AAE staff and members will be waiting to answer questions and to assist you with your product orders. While you are there, learn how to pledge your support to the Foundation, talk to a representative from the American Board of Endodontics, see the AAE Web site, and find out what lies ahead for Tampa 2003. Visitors will be able to register for several fabulous prizes to be given away throughout the session—you may be a lucky winner!

AAE Registration and Information

The AAE Registration and Information desk will be located in the 8th Street Foyer during the following hours:

Tuesday:	3 – 8 p.m.
Wednesday:	7 a.m. – 8 p.m.
Thursday:	7:30 a.m. – 5 p.m.
Friday:	7:30 a.m. – 5 p.m.
Saturday:	7:30 a.m. – 1 p.m.

Badges

We ask that you wear your name badge to all AAE functions. Your name badge is your admittance to the Welcome Reception, the *Celebrate Chicago!* event, educational sessions and the exhibit hall. A ticket is required for all other events. The bar code on the front of your badge is for exhibitor lead retrieval.

Beverage Service

Beverages will be served in the exhibit area at 10:30 a.m. and 3 p.m. on Thursday and Friday, and at 10:30 a.m. on Saturday.

Board and Committee Meetings

Please refer to page 12 for a complete listing of AAE Board and Committee meetings.

Career Opportunities Exchange

Check out the very latest job openings or post your opening on the Career Opportunities Exchange board, located in the AAE Registration and Information area. The job board is hosted and monitored by the Membership Services Committee.

Continuing Education Credits

A Continuing Education Certificate of Completion form is provided in this packet for your completion. The CE credits issued for participants may not be applicable for license renewal in all states. Since continuing education requirements and acceptance of credits offered vary among state boards of dentistry, each participant must verify the requirements of his/her state licensing board,

and whether the CE form should be retained by the participant or sent to the state board. The AAE is an ADA CERP recognized provider.



Evaluations

Your opinion counts! Assist us in preparing next year's program by completing an evaluation form for each session that you attend. Evaluation forms will be distributed at the beginning of each session and collected at the conclusion. Or, you may drop your completed forms in the receptacle located in the AAE Registration and Information area.

Exhibits

Please refer to the Exhibits section of this program for a complete listing of participating companies. Your name badge is required for admittance to the exhibit hall. Exhibits will be open during the following hours:

Thursday:	10 a.m. – 5 p.m.
Friday:	8 a.m. – 5 p.m.
Saturday:	8 a.m. – 1 p.m.

Headquarters Office

The AAE on-site headquarters office is located in the Moblely Room on the lower level of the Hilton Chicago.

Message Board

A message board will be available to Annual Session attendees in the Registration and Information area.

No Smoking Policy

For the comfort of all attendees, smoking is not permitted at any AAE function.

President's Dinner Seating

To reserve seating for the President's Dinner, you must exchange your voucher for a dinner ticket **no later than 5 p.m. on Thursday, April 11**. If you wish to have group seating, a voucher must be presented at the same time for each person in your group. Tables are reserved on a first-come, first-served basis. The Dinner Dance Seating desk will be located in the AAE Registration and Information area during the following hours:

Tuesday:	3 – 8 p.m.
Wednesday:	7 a.m. – 8 p.m.
Thursday:	7:30 a.m. – 5 p.m.
Friday:	Closed
Saturday:	Closed

General Information

Registration Categories

Annual Session registration categories include the following activities and events:

Professional Member: Sessions and Exhibits, Welcome Reception, Opening Session Breakfast, Continental Breakfasts, Coolidge and Awards Luncheons, President's Dinner.

Student Member: Sessions and Exhibits, Welcome Reception, Opening Session Breakfast, Continental Breakfasts, Coolidge and Awards Luncheons.

Auxiliary Member: Sessions and Exhibits, Welcome Reception, Continental Breakfasts, Coolidge and Awards Luncheons. (Note: Auxiliary member category is only for dental assistants or office administrators who have joined the AAE. An endodontist's AAE membership does not include membership for his/her staff.)

Alliance: Alliance program activities and Welcome Reception. (Fee includes \$50 for AAE Alliance membership dues.) Alliance registrants are welcome to attend exhibits and sessions but cannot receive continuing education credits.

Professional Guests/Student Guests/Auxiliary Guests and Children: Welcome Reception.

Restaurant and Activity Guide

A list of Chicago's finest dining and sightseeing locations is enclosed in this packet. Use this guide to make your reservations directly, or visit the hotel concierge for assistance.

Session Descriptions

The statements and opinions expressed in session synopses are solely those of the individual speaker. Their statements, opinions and written materials do not reflect any opinion or endorsement by the AAE. Speakers who serve as consultants and/or have a commercial interest in the subject matter are denoted by an asterisk ().*

The educational sessions listed in this program have been categorized as follows:

Principal Session (PS)—A scientific, clinical or practice management presentation for larger audiences by one or more invited members or guest speakers.

Limited Attendance Session (LAS)—Structured to provide an interchange of information between the presenter and the audience in a small group setting. LAS's are selected from submissions by AAE members.

Auxiliary Session (AUX)—Designed to be of interest to endodontic office staff.

General Interest Session (GI)—Structured to provide all attendees with current topics of general interest applicable to some aspect of endodontic practice or quality of life issues.

Special Interest Session (SI)—A nonclinical workshop or seminar targeted for a specific audience (e.g., educators).

Oral Research Presentation (OR)—A 10-minute lecture on a completed clinical or basic science investigation.

Poster Research Presentation (PR)—A 5-10 minute explanation of clinical or basic science investigation displayed on a poster board.

Table Clinic (TC)—A 5-10 minute demonstration of a time-saving procedure, technique or an interesting scientific phenomenon.

Session Recording

Many of the sessions presented will be recorded and available for purchase on audiotape or CD-ROM. Please refer to the Audio Recording Order form provided in this packet, or visit the Sound of Knowledge sales desk in the AAE Registration and Information area.

Shirt Sales

Stop by the AAE Oasis in the exhibit hall to purchase your "Back to Our Roots" commemorative T-shirt or golf shirt. Quantities are limited.

Speaker Ready Room

Presenters may view their presentations or obtain assistance in PDR 5, located on the third floor of the Hilton Chicago.

Special Assistance

If you have a physical, communication or dietary restriction that may affect your participation in Annual Session activities, please see Joan Kulikowski at the AAE Registration and Information desk. Please note that neither the AAE nor the Hilton Chicago can ensure the availability of appropriate accommodation without sufficient notification of need.

Special Events and Ticket Sales

Please refer to the Special Events section of this program for a listing of special events taking place in conjunction with the Annual Session. Tickets are required for all listed events with the exception of the Welcome Reception and *Celebrate Chicago!* Your name badge will admit you to these two events.

On-site ticket sales are subject to availability. Tickets must be purchased at least 24 hours prior to the event, with the exception of the President's Dinner, for which tickets must be purchased by 5 p.m. on Thursday, April 11. If you are uncertain whether a ticket is included in your registration fee, please see the Registration Categories explanation above.

Tour Program

The optional tour program, offered by In the Loop—Chicago, INC., has been designed exclusively for AAE attendees. Pre-paid tickets must be picked up in advance of the tour. Stop by the tour desk in the AAE Registration and Information area during registration hours for details. Tour departure locations will be denoted and provided when picking up tickets. All tours depart from the Hilton Chicago.

Special Events



AAE Headquarters Open House

Friday, April 12
10 a.m. - 2 p.m.

The AAE staff is delighted to welcome you to OUR town and YOUR association headquarters. Plan to stop by, meet staff and see where AAE activities come alive! Transportation will depart from the Hilton's 8th Street Entrance. Please refer to the schedule located in the AAE Registration and Information area for specific departure times.

Wednesday

Welcome Reception and 5th Annual Alliance Silent Auction

6:30 - 8 p.m.

Grand Ballroom and Normandie Lounge

Don't miss this opening night event, which provides you the opportunity to see old friends and meet new colleagues. Once again, the AAE Alliance will dazzle you with an array of items for auction. Past items have included hotel get-a-ways, original art, autographed items and much more. Make sure you bid early. Your support will assist the Alliance in meeting its \$300,000 pledge to the Foundation.

Thursday

Opening Session Breakfast

8 - 10 a.m.

International Ballroom

Moderator: Louis E. Rossman, D.M.D.

Join your friends and colleagues at the breakfast table to kick-off the 59th Annual Session! Dr. Jeffrey W. Hutter, AAE President, will present the keynote address, inviting participants to reflect on the progress that has been made by the endodontic profession since its formation in Chicago many years ago. Dr. Hutter will present the President's Award to a member who, behind the scenes, has actively participated in the AAE during his or her professional lifetime. The recipients of the 2002 Endodontic Educator Fellowship Awards will also be recognized.

Edgar D. Coolidge Luncheon

12:15 - 1:45 p.m.

International Ballroom

Moderator: Louis E. Rossman, D.M.D.

Be sure to join us in congratulating this year's recipients of the Edgar D. Coolidge Award and Honorary Membership.

Edgar D. Coolidge Award



Richard C. Burns, D.D.S.

The Edgar D. Coolidge Award, AAE's highest honor, is presented to an individual who has displayed leadership and exemplary dedication to dentistry and endodontics.

Honorary Membership



Shiro Kudo

Honorary members are those elected by the Board of Directors because of significant contributions that have furthered the advancement of endodontics.

Friday

Fun Run

6:30 a.m.

Departs From 8th Street Entrance

Join fellow AAE members, family and friends for a refreshing and scenic morning run along Chicago's lakeshore. Route maps will be available the morning of the run.

Louis I. Grossman Memorial Luncheon

12:15 - 1:45 p.m.

Grand Ballroom

Moderator: Thomas O. Mork, D.D.S.

Sponsored by the College of Diplomates of the American Board of Endodontics, this year's luncheon program will recognize endodontists who achieved Board certification during 2001. In addition, Dr. Lawrence A. Tabak, endodontist and Director of the National Institute of Dental and Craniofacial Research, will address the audience. His enlightened presentation will outline some of the major scientific opportunities afforded by the post-genomic era, and how such findings may alter the manner in which dental disease is diagnosed and treated. In conclusion, Dr. Tabak will propose how these findings will help catalyze our health care system from one of disease detection to health surveillance.

Foundation Live Auction

4 p.m. - Libations and snacks

4:45 p.m. - Bidding opens

Northwest Hall

Going Once . . . Going Twice . . . SOLD! Thank Goodness It's Foundation Friday! If you are in the market for a microscope, endodontic software or surgical instruments, the Foundation Live Auction is the place for you. Don't miss your chance to bid on quality products at incredible prices. Join auctioneer Dr. Denis E. Simon III for munchies, music, and bargains, bargains, bargains. Proceeds benefit the AAE Foundation.

New! CELEBRATE CHICAGO!

9 p.m.

A party celebration sponsored by

DENTSPLY Tulsa Dental

International Ballroom

This new late-night event gives you the chance to pull out all the stops in a casual atmosphere while getting a taste of sweet home Chicago. As you enter the room, you will get a true feel of the Chicago blues music scene. You will mingle to the soulful sounds of the enchanting diva, Lynne Jordan, and her multi-talented band, with alternate performances from the Queen of Chicago Blues, Bonnie Lee. Join us for an evening of great music and help us celebrate Chicago!

Saturday

Awards Luncheon

12:15 – 1:45 p.m.

Grand Ballroom

Moderator: Ronald I. Deblinger, D.M.D.

The Louis I. Grossman Award, I.B. Bender Lifetime Educator Award, Edward M. Osetek Educator Award and Distinguished Philanthropist 2002 will be presented at this annual luncheon event. In addition, awards will be given to the graduate student winners for oral and poster research presentations, and table clinics. Plan now to be a part of the ceremonies to honor these outstanding AAE members.

Louis I. Grossman Award



Martin Trope, B.D.S., D.M.D.

Recognizes an author for cumulative publication of significant research studies that have made an extraordinary contribution to endodontics.

Edward M. Osetek Educator Award



Donna Mattscheck, D.M.D.

Presented to a full-time educator, with less than six years teaching experience, who has earned the esteem and respect of students and faculty associates. The award is named in honor of Dr.

Edward M. Osetek who was an influence and inspiration to many students during his teaching career.

I.B. Bender Lifetime Educator Award



Raymond G. Luebke, D.D.S., M.S.D.

Presented to an individual who has been a full-time educator for at least 15 years, whose contributions to endodontics have demonstrated excellence through selfless commitment to full-time educational pursuits, and whose valuable contributions have instilled in his/her students the desire to pursue excellence in their careers. The award is named in honor of Dr. I.B. Bender in recognition of his legacy as an outstanding teacher and mentor.

Distinguished Philanthropist 2002



Wayne G. Bemis, D.D.S.

This award is given to individuals who demonstrate outstanding philanthropic leadership.

General Assembly

2 – 4 p.m.

Waldorf

Join the AAE leadership and voice your opinion! Your opportunity for personal input on official AAE business occurs at the General Assembly. Ask questions of your officers and district directors. Express your view on the plans to move the AAE strategically forward. Elect your colleagues and give them your support as President Jeffrey

W. Hutter installs them in their respective offices. Come see first-hand what your association is doing for you!

President's Dinner

6:30 p.m.—Reception, Grand Ballroom

7:30 p.m.—Dinner, International Ballroom

As the doors open, you will enter the Hilton's elegant Grand Ballroom, a testimony to architectural beauty and host to many kings, queens and presidents over the past 75 years. Dinner and dancing to the Dan Hayes Orchestra in the adjacent International Ballroom will follow. The evening will take you on a Musical Journey Through the Ages . . . from the roaring sounds of a 1920s speakeasy, to the beloved Beach Boys, to some retro dance music! Join us for this Annual Session farewell event!

(Black tie optional. Advance table assignment is required. Please see page 8 for details. A cash bar will be available throughout the reception, dinner and dancing.)

Sunday

Faculty Development Seminar *(For Educators)*

7:15 a.m.—Continental Breakfast

8 a.m. – 1 p.m.—Seminar

Continental A

T. Howard Howell, D.D.S.

Nadeem Y. Karimbux, D.M.D., M.MSc.

Moderator: Gerald N. Glickman, D.D.S., M.S., J.D.

(This session will not be recorded.)



THH

NYK

This seminar covers problem-based learning, a group activity that is student centered, with a focus on solving clinical and basic science problems in the context of real patient cases. This presentation will expose endodontic faculty and advanced graduate educators to the problem-based learning pedagogy. Participants will be exposed to global issues surrounding the implementation of problem-based learning in a dental curriculum, as well as case writing techniques and how to facilitate a tutorial.

At conclusion, participants should be able to:

- ▶ Define problem-based learning.
- ▶ Facilitate group learning in a problem-based format.
- ▶ Write cases, mini-cases and tutor guides for a problem-based curriculum by looking at examples.

Board and Committee Meetings

Sunday, April 7

ABE Board of Directors
8 a.m. – 6 p.m. McCormick

Monday, April 8

AAE Board of Directors
8 a.m. – 5 p.m. Marquette

Tuesday, April 9

AAE Foundation Board of Trustees
8 a.m. – 5 p.m. Marquette

Continuing Education Committee
12:30 – 3:30 p.m. Pullman

Endodontic Software Committee
8 a.m. – 5 p.m. 4A

Endodontic Workforce Assessment Committee
8 a.m. – 2 p.m. 4K

Wednesday, April 10

Honors and Awards Committee
9 a.m. – noon 4B

Friday, April 12

The following committee meetings are scheduled from
7 – 8:30 a.m.:

Clinical Practice 4B
Dental Benefits 4J
Educational Affairs 4H
Endodontic Educator Fellowship Awards 4M
Governmental Affairs and Federal Dental Health Services ... 4D
Membership Insurance 4E
Membership Services 4K
Oral Disease, Endodontic Treatment and Systemic Health ... 4G
Professional Standards, Peer Review and Ethics 4I
Public and Professional Affairs 4L
Research and Scientific Affairs 4F

Saturday, April 13

Budget and Finance Committee
9 – 10 a.m. Conrad Suite

Editorial Board
7 – 8:30 a.m. 4M

Past Presidents Breakfast
8:30 – 9:30 a.m. PDR 2

Sunday, April 14

AAE Board of Directors
8 a.m. – 3 p.m. Marquette

Alliance Activities

All events will be held in the **Alliance Hospitality Room**, located in PDR 4, with the exception of the auctions.

Wednesday

6:30 p.m. – 8 p.m. Fifth Annual Silent Auction
The 5th Annual Silent Auction to benefit the AAE Foundation will take place at the Welcome Reception. Proceeds from the auction will be presented to the AAE Foundation at the Edgar D. Coolidge Luncheon.*

Thursday

1 – 4:30 p.m. Hospitality Room
Open to Alliance members.

Friday

7 – 8:15 a.m. Alliance Board of Directors Meeting
Alliance members welcome.

8:15 – 10:30 a.m. Continental Breakfast
Complimentary to registered Alliance members.

8:30 – 9:15 a.m. Alliance General Membership Meeting

10:30 a.m. – 4:30 p.m. Hospitality Room
Open to Alliance members.

4 – 6 p.m. Foundation Live Auction
The 2nd Annual Live Auction will be conducted by the AAE Foundation Board.

Saturday

7 – 8:15 a.m. ... Alliance Incoming Board of Directors Meeting
Alliance members welcome.

8:15 – 10:30 a.m. Continental Breakfast
Complimentary to registered Alliance members.

10:30 a.m. – 4:30 p.m. Hospitality Room
Open to Alliance members.

*Ticket required.

AAE Alliance Officers

President Beverly Paulk (Glenn)	Treasurer Robin Mann (Sheldon)
President-Elect Rebecca Funderburk (David)	Parliamentarian Phil Bartling (Clara)
Secretary Martha Hunter (Schuyler)	

Alumni and Affiliate Functions

Wednesday, April 10

Baylor College of Dentistry
Reception: 9 – 11 p.m. Joliet

Medical College of Georgia
Reception: 4:30 – 6 p.m. 4D

U.S. Army Association of Endodontists
Meeting: 4:30 – 6 p.m. 4C

Thursday, April 11

Boston University
Dinner: 7 – 11 p.m. .. Nick's Fishmarket

Florida Association of Endodontists
Meeting: 4:30 – 6:30 p.m. 4A

Louisiana State University
Reception: 7 – 9 p.m. Lake Erie

Loyola University
Dinner: 7 – 9 p.m. Marquette

Michigan Association of Endodontists
Reception: 6:30 – 8 p.m.
..... Lake Michigan

Nova Southeastern University
Reception: 6:30 – 8:30 p.m. ... Williford A

Tufts University
Reception: 6 – 7:30 p.m. PDR1

University of Illinois
Dinner: 6 – 9 p.m. Chicago Yacht Club

University of Maryland
Reception: 6:30 – 8 p.m. Boulevard B

UNC Tarheel Endodontists
Meeting: 5 – 6 p.m. Lake Huron
Reception: 6 – 8 p.m. Lake Huron

University of Pennsylvania
Reception: 6 – 7:30 p.m.
..... Imperial North

University of Pittsburgh
Reception: 6 – 8 p.m. 4D

University of Texas Health Science
Center—San Antonio
Reception: 6 – 8 p.m. Astoria

U.S. Navy Association of Endodontists
Reception: 5:30 – 7:30 p.m.
..... Normandie Lounge

Virginia Commonwealth University/
Medical College of Virginia
Reception: 5:30 – 7 p.m. PDR3

West Virginia University
Meeting: 5 – 7 p.m. 4B

Friday, April 12

Albert Einstein Medical Center
Reception: 6 – 7 p.m. Williford C

Case Western Reserve University
Reception: 5:30 – 7:30 p.m. PDR2

Columbia University
Reception: 6:30 – 8:30 p.m. ... Williford A

Iowa Endodontic Group
Reception: 6 – 8 p.m. Boulevard C

Marquette University
Reception: 6:30 – 8:30 p.m. ... Williford B

New York University
Reception: 6 – 8 p.m. Boulevard A

Northwestern University School of
Dentistry
Reception: 5:30 – 8 p.m.
..... Lake Michigan

Oklahoma Association of Endodontists
Breakfast Meeting: 7 – 8:30 a.m. 4A

Oregon Health Sciences University
Reception: 6:30 – 8 p.m. Marquette

Temple University
Reception: 7:30 – 8:30 p.m.
..... Lake Huron

University of Buffalo School of Dental
Medicine
Reception: 5 – 7 p.m. PDR3

University of Louisville
Reception: 6 – 8 p.m. Lake Erie

University of Minnesota
Reception: 6 – 8 p.m. PDR1

University of Southern California
Reception: 6:30 – 8:30 p.m.
..... Boulevard B

University of Washington
Reception: 6 – 8 p.m. Lake Ontario

Saturday, April 13

Boston University
Breakfast Meeting: 7 – 8:30 a.m.
..... Boulevard A/B

University of Michigan
Breakfast Meeting: 7 – 8:30 a.m. Joliet

U.S.A.F. Association of Endodontists
Breakfast Meeting: 7 – 8:30 a.m. 4A

U.S. Navy Association of Endodontists
Breakfast Meeting: 7 – 8:30 a.m.
..... Marquette

Other Functions

Tuesday, April 9
Treloar & Heisel (by invitation only)
Reception: 6:30 – 8 p.m. Joliet

Wednesday, April 10
Endodontic Standards Subcommittee
3 – 6 p.m. 4A
College of Diplomates
Board of Directors Meeting
4:30 – 6 p.m. 4M

Thursday, April 11
Christian Endodontic Society
Reception: 5 – 6 p.m. 4M

Harry J. Healey Endodontic Study Club
Reception: 6:30 – 8 p.m. Boulevard C

International Federation of Endodontic
Associations
Board of Directors Meeting:
2 – 4:30 p.m. 4J
Reception: 6 – 7:30 p.m. ... Lake Ontario

Friday, April 12
American Dental Education
Association, Endodontic Section
Meeting: 11 a.m. – noon Waldorf

College of Diplomates
Annual Business Meeting:
1:45 – 2:15 p.m. Grand Ballroom

International Federation of Endodontic
Associations
Breakfast Meeting: 7 – 8:30 a.m. 4C

SOFFE
Reception: 5:30 – 7:30 p.m.
..... Chicago Yacht Club

Saturday, April 13
Endodontic Section of Triple O
Breakfast Meeting: 7 – 8:30 a.m. .. PDR3

Society of Apical Excellence
Breakfast Meeting: 7 – 8:30 a.m. .. PDR1

In Appreciation

The American Association of Endodontists appreciates the cooperation of the following companies, which have generously supported the 59th Annual Session.

Please show your appreciation of the support of these companies by visiting their booths in the exhibit hall and/or contacting their representatives after the meeting.

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CELEBRATE CHICAGO!

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The American Association of Endodontists does not endorse any product or service exhibited at the Annual Session except the following:



Publisher of textbooks and journals of interest to endodontists.
Booth #910



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Publisher of the *Journal of Endodontics*.
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DISCUS DENTAL

For EndoVision practice management software.
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Issuer of the AAE Platinum Plus Visa Card.
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For discounts on car rentals in the U.S. and worldwide.
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& Heisel, Inc.**
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Administering insurance programs for AAE members.
Booth #913

Maximizing Success in Nonsurgical Endodontics

8 a.m. — 4:15 p.m., International Ballroom



SC JLG RDJ OAP MT LSWS

Stephen Cohen, D.D.S.

James L. Gutmann, D.D.S.

Richard D. Jordan, D.D.S., M.S.

Ove A. Peters, D.M.D.

Martin Trope, B.D.S., D.M.D.

Larz S.W. Spångberg, D.D.S.

Moderator: **Shepard S. Goldstein, D.M.D.**

The Continuing Education Committee will present a challenging program to provide evidence-based information on "Maximizing Success in Nonsurgical Endodontics." Dr. Spångberg aptly defined "evidence-based" as . . . "The explicit and judicious use of the current best evidence in conjunction with clinical practice" (June 2001 *Oral Surg Oral Med Oral Pathol Oral Radiol Endod Journal*). Five distinguished, well-qualified speakers will address the issue of enhancing success in nonsurgical endodontics.

Dr. Gutmann will include in his discussion case selection, outcomes assessment, and success and failure based on sound scientific rationale. Dr. Peters will present his findings on nickel-titanium endodontic instruments and their appropriate use in performing nonsurgical endodontics. Dr. Jordan, a restorative dentist, will consider restorative implications in case selection and methods and materials to properly restore the treated tooth. The controversy of successful treatment resulting from one-visit versus multi-visit continues. Drs. Trope and Cohen will offer their opinions and recommendations on case selection and appropriate treatment to produce predictably successful results.

Following these presentations, Dr. Spångberg will address the subject of "Evidence-Based Practice" and then will moderate a panel of speakers for a question-and-answer session.

SYMPOSIUM SCHEDULE

7 a.m.	Continental Breakfast Grand Ballroom
8 a.m.	Introduction
8:15–9:15 a.m.	Part I
9:15–10:15 a.m.	Part II
10:15–10:45 a.m.	Break Grand Ballroom
10:45–11:45 a.m.	Part III
11:45 a.m.– 1:15 p.m.	Lunch Grand Ballroom
1:15–2:30 p.m.	Part IV
2:30–3:30 p.m.	Part V
3:30–4:15 p.m.	Panel Discussion
4:15 p.m.	Adjourn

At the conclusion of this symposium, the participant should be able to:

- ▶ Use a sound approach in selecting cases and making reasonable predictions of success.
- ▶ Select the appropriate instruments to reduce problems and provide for predictable success.
- ▶ Offer the best recommendations on restoring the treated tooth to enhance success.
- ▶ Make a biologically-based decision on the number of visits that will provide for the most predictable success.
- ▶ Make technical treatment decisions based on sound biological criteria to enhance success.

PART I

Endodontic Success: Realistic Perspectives vs. Perceived Outcomes James L. Gutmann, D.D.S.

Each participant should be able to state and describe the intrinsic and extrinsic factors that impact upon success with nonsurgical endodontic treatment. Furthermore, each participant should be able to integrate these factors into a meaningful pattern of application in the clinical setting based on a sound scientific rationale, as opposed to merely considering the concept of radiographic "esthetodontics" that is commonly purported as contemporary criteria for success.

At conclusion, participants should be able to:

- ▶ State accepted clinical criteria that must be considered when determining success with nonsurgical endodontic treatment.
- ▶ Identify accepted scientific criteria for determining success in treatment.
- ▶ Maximize success levels with nonsurgical endodontics based on sound scientific criteria.

PART II

Foundations For Success: Understanding Rotary Root Canal Instrumentation and More Ove A. Peters, D.M.D.

Each participant should be able to describe the potential of, and limitations in, the use of nickel-titanium root canal instruments in nonsurgical endodontics.

At conclusion, participants should be able to:

- ▶ Judge the specific effects and performance of various endodontic preparation instruments on three-dimensional root canal geometry.
- ▶ Describe important physical parameters such as apically directed force and torque during the use of nickel-titanium instruments in curved root canals.
- ▶ Select appropriate preparation instruments in order to optimize preparation efficiency while minimizing the incidence of instrument separation.

PART III

Restoring Endodontically Treated Teeth to Maximize Success Richard D. Jordan, D.D.S., M.S.

Each participant should be able to describe the principles involved in successfully diagnosing and restoring a patient who presents following endodontic treatment.

At conclusion, participants should be able to:

- ▶ Describe the parameters that must be met to provide coronal protection of endodontically treated teeth.
- ▶ Describe the preparation parameters to conserve the remaining tooth structure and maintain the apical seal.
- ▶ Describe the restorative materials available to restore endodontically treated teeth.



PART IV

Biologic Requirements For Success: Can We Achieve Them in One Visit?

Martin Trope, B.D.S., D.M.D.

An endodontic practitioner must have a solid biologic basis for all treatments that he/she performs. All new techniques or technologies must be assessed in the context of their ability to achieve the biologic objective to ensure maximal success. The biologic requirements for predictably successful endodontics will be presented. In the context of these requirements, the advisability of one-step endodontic procedures will be discussed for different diagnostic categories and with the use of modern instruments and techniques.

At conclusion, participants should be able to:

- ▶ Know the biologic requirements for endodontic success.
- ▶ Differentiate between a vital and nonvital tooth in terms of meeting these requirements.
- ▶ Know to what extent the newest technologies in endodontics assist in attaining these biologic goals.

PART V

Indications and Procedures For One-Visit, Complete Endodontic Therapy

Stephen Cohen, D.D.S.

Each participant should be able to select vital and some nonvital teeth for one-visit endodontic treatment and recognize the contraindications for one-visit endodontic treatment. Each participant should be able to employ the concepts, techniques and materials that allow one-visit endodontic treatment for most teeth.

At conclusion, participants should be able to:

- ▶ Select teeth for one-visit, complete endodontic treatment.
- ▶ Recognize cases that should not be endodontically treated in one visit.
- ▶ Treat most endodontic cases in one visit.



CCTB/Palmisano

Educational Program by Session Category

THURSDAY EDUCATIONAL SCHEDULE

10:30 a.m.–noon	OR—	Oral Research Presentations
	PR—	Poster Research Presentations
	TC—	Table Clinics
2–3:15 p.m.	LAS 100—	Torque-Control Motors for Nickel-Titanium Rotary Instrumentation
	LAS 101—	Treatment-Resistant Apical Periodontitis
	LAS 102—	Retreatment
2–5 p.m.	PS 100—	25 Years of Pulp Biology
	PS 101—	The Digital Office
	PS 102—	A Look Into the Future in Periodontics, Orthodontics and Restorative Dentistry
	PS 103—	Resorptions: Diagnosis and Treatment
	PS 104—	Pain From Endodontic and Non-dental Origin: Basic Mechanisms, Differential Diagnosis and Clinical Management
	AUX 1—	Dental and Medical Considerations in Treating the Female Patient
	GI 1—	Chicago Architecture
	SI 1—	ABE Boardwalk
	SI 2—	Evidence-Based Endodontics
	OR—	Oral Research Presentations
3:30–5 p.m.	LAS 103—	Apex Locators
	LAS 104—	Multiple Versus One-Step Apexification
	LAS 105—	Computerized Animations for Removal of Posts and Separated Instruments

Principal Sessions

PS 100—25 Years of Pulp Biology

2 – 5 p.m., Continental A



GRH LGL HOT

Graham R. Holland, B.D.S., Ph.D.

Linda G. Levin, D.D.S., Ph.D.

Henry O. Trowbridge, D.D.S., Ph.D.

Moderator: Calvin D. Torneck, D.D.S., M.S.

Participants will hear a 25-year historical perspective on the evolution of knowledge in the area of endodontic microbiology and learn how scientific advances have improved our understanding and treatment modalities for apical periodontitis. The need for evidence-based therapies for the treatment of endodontic infections will be stressed while looking at how future developments may change or enhance the practice of endodontics.

At conclusion, participants should be able to:

- ▶ Understand the principal etiologic factor in endodontic disease is bacteria.
- ▶ Understand how the treatment of endodontic infections has evolved with enhanced scientific technologies.
- ▶ Aim for evidence-based endodontic therapies to disinfect or maintain sterility of the root canal system.

PS 101—The Digital Office

2 – 5 p.m., Continental B



JAK MDL

* **John A. Khademi, D.D.S., M.S.**

* **Martin D. Levin, D.M.D.**

Moderator: Kenneth J. Spolnik, D.D.S., M.S.D.

To assess patient status, communicate with co-therapists and patients, evaluate treatment options and determine treatment outcomes, clinicians depend on images, words and numerical data. Each participant should be able to design office systems that use the latest equipment to gather and document this vital information.

At conclusion, participants should be able to:

- ▶ Describe the functions of the chairside, front desk, administrative and reception room computer systems.
- ▶ Describe the basic principles of office design to incorporate information technology (IT) systems.
- ▶ Describe the role of the endodontist in coordinating the purchase, installation and training required to implement a state-of-the-art information technology program.

PS 102—A Look Into the Future in Periodontics, Orthodontics and Restorative Dentistry

2 - 5 p.m., Continental C



DM

HS

TVD

*David Musich, D.D.S., M.S.

*Howard Strassler, D.M.D.

*Thomas Van Dyke, D.D.S., Ph.D.

Moderator: Harmon R. Katz, D.D.S.

David Musich, D.D.S., M.S.

Technological and philosophical changes have led the orthodontic specialty into the 21st century. For the first 80 years of the specialty (1900-1980), the adolescent patient dominated orthodontic practices. Now orthodontists see patients from ages 3 to 85. For the younger patients, more aggressive orthopedic appliances have been successful in correcting skeletal malocclusions. For the adult patient, new surgical techniques (distraction osteogenesis) have allowed stable correction of complex skeletal imbalances.

Orthodontic practices are broader in scope than they have ever been.

At conclusion, participants should be able to:

- ▶ Understand why new techniques are more successful when treating growing patients with skeletal malocclusions.
- ▶ Understand how the orthodontist's role in the management of interdisciplinary cases has broadened.
- ▶ Be familiar with facial and occlusal changes possible when surgical/orthodontic intervention is undertaken.

Howard Strassler, D.M.D.

Each participant should be able to describe the concepts and principles for decision making and treatment planning for restoring the endodontically treated tooth with bonded esthetic fiber-reinforced post systems. Each participant will also understand the decision making for the selection of the correct bonding system to allow these posts to structurally reinforce the endodontically treated tooth.

At conclusion, participants should be able to:

- ▶ Describe the procedures for reinforcing endodontically treated teeth with adhesive bonding systems, adhesive cements and fiber reinforced posts.
- ▶ List the materials that should be used for reinforcement of the endodontically treated tooth.
- ▶ List the indications of fiber reinforced esthetic posts vs. metal posts when restoring endodontically treated teeth.

Thomas Van Dyke, D.D.S., Ph.D.

Each participant should be familiar with new advances in the diagnosis and treatment of periodontal diseases.

At conclusion, participants should be able to:

- ▶ Describe advances in genetic-based diagnostics and prognostic tests for periodontitis.
- ▶ Describe the latest advances in antibacterial therapy for periodontitis.
- ▶ Describe the latest advances in host modulation for the treatment of periodontitis.

PS 103—Resorptions: Diagnosis and Treatment

2 - 5 p.m., Waldorf



KK

DJM

AKM

DEW

Karl Keiser, D.D.S., M.S.

Donna J. Mattscheck, D.M.D.

André K. Mickel, D.D.S., M.S.D.

David E. Witherspoon, B.D.S., M.S.

Moderator: Noah Chivian, D.D.S.

This presentation will explore the molecular biological aspects, clinical and radiographic assessment, and diagnosis and treatment of the various resorptive defects that are encountered in clinical practice. The effect of various treatment options on eventual outcomes will be also discussed.

At conclusion, participants should be able to:

- ▶ Understand the molecular biological process of root resorption.
- ▶ Assess resorptive defects clinically and radiographically.
- ▶ Diagnose and formulate a treatment plan for resorptive tooth disease.
- ▶ Develop a rational for electing a particular treatment plan, including case prognosis.
- ▶ Discuss contemporary concepts of treating resorptive defects.

PS 104—Pain From Endodontic and Non-dental Origin: Basic Mechanisms, Differential Diagnosis and Clinical Management

2 – 5 p.m., Marquette



BEB



TD



AS

B. Ellen Byrne, D.D.S., Ph.D.
Thuan Dao, D.M.D., M.Sc., Ph.D.
Asgeir Sigurdsson, D.D.S., M.S.
Moderator: **Shimon Friedman, D.M.D.**

This three-part “mini-symposium” will take the practitioner from the origins of pain through differential diagnosis of pain and end with the treatment of inflammation. Topics to be discussed include a review of the basic mechanisms of referred and persistent pain associated with peripheral nerve damage, differential diagnosis of orofacial pain of pulpal and primarily non-pulpal origin and the role of nonsteroidal anti-inflammatory drugs (NSAIDS) in the treatment of pain.

At conclusion, participants should be able to:

- ▶ Understand the basic mechanisms of referred pain and persistent pain associated with peripheral nerve damage.
- ▶ Apply this knowledge toward differential diagnosis of orofacial pain of pulpal and non-pulpal origin.
- ▶ Compare and contrast the actions, including side effects and risks, associated with the various NSAIDS.

Limited Attendance Sessions

LAS 100—Torque-Control Motors for Nickel-Titanium Rotary Instrumentation

2 – 3:15 p.m., Boulevard C
Gianluca Gambarini, D.D.S.



Each participant should be able to describe the basic principles, advantages and limitations of torque-control endodontic motors and understand how to optimize low-torque rotary instrumentation and minimize intracanal nickel-titanium failure.

At conclusion, participants should be able to:

- ▶ Understand the concept and applications of torque-control electric motors.
- ▶ Understand advantages and limitations of low-torque instrumentation.
- ▶ Develop techniques to maximize efficiency of nickel-titanium rotary canal preparation while minimizing the risk of instrument separation.

LAS 101—Treatment-Resistant Apical Periodontitis

2 – 3:15 p.m., Joliet
Frederic Barnett, D.M.D.



Each participant should be able to describe the etiological factors responsible for treatment failure, understand the microbiology of refractory endodontic cases and describe the various treatment options available.

At conclusion, participants should be able to:

- ▶ Describe the etiological factors responsible for treatment failure.
- ▶ Understand the significance of extraradicular infection, periapical “sulfa-granules” and periapical plaque.
- ▶ Describe the various treatment options for refractory apical periodontitis.

LAS 102—Retreatment

2 – 3:15 p.m., PDR 2
C. J. R. Stock, B.D.S., M.Sc.

(This session will not be recorded.)



Each participant should be able to assess a failed root canal treatment and decide whether or not it is justifiable to carry out a retreatment procedure. The participant should also be aware of several different clinical retreatment procedures, including the removal of gutta-percha, posts, separated instruments, and the repair of perforations.

At conclusion, participants should be able to:

- ▶ List the situations when a retreatment should not be attempted.
- ▶ Describe the clinical procedure to remove gutta-percha from a previously root-filled tooth.
- ▶ Describe how a fractured instrument may be removed from a root canal.

LAS 103—Apex Locators

3:30 – 5 p.m., Boulevard C
Neville J. McDonald, B.D.S., M.S.



The electronic apex locator, having been available for 40 years, is a valuable adjunct to clinical practice. Anatomical and clinical research has demonstrated that these devices enable the clinician to accurately and predictably locate the dentinal-cemental junction significantly more accurately than any other method. This presentation will update the practitioner in the topography of the root apex and integrate this information into the principles upon which frequency-based electronic apex locators operate.

At conclusion, participants should be able to:

- ▶ Understand root apex anatomy.
- ▶ Relate root apex anatomy to clinical practice.
- ▶ Operate and troubleshoot frequency-based electronic apex locators.

LAS 104—Multiple Versus One-Step Apexification

3:30 – 5 p.m., Joliet

Mohamed I. Fayad, D.D.S., M.S., Ph.D.



To present and compare a new approach for treatment of necrotic teeth with wide open apex (single-step apexification to classical CA(OH)₂ apexification).

At conclusion, participants should be able to:

- ▶ Identify the problems and treatment plan and then treat necrotic teeth with wide open apices.
- ▶ Be familiar with different techniques and materials utilized to manage necrotic teeth with open apices.
- ▶ Know how to utilize the technology (operating microscope) and materials available to manage necrotic teeth with open apices.

LAS 105—Computerized Animations for Removal of Posts and Separated Instruments

3:30 – 5 p.m., PDR 2

Mian K. Iqbal, B.D.S., M.S.



This presentation will use computerized animations and clinical cases to describe currently used methods for removal of posts and separated instruments during nonsurgical root canal treatment. The presentation will also review contemporary instruments and materials used for removal of these obstructions.

contemporary instruments and materials used for removal of these obstructions.

At conclusion, participants should be able to:

- ▶ Understand the clinical techniques currently used for removal of posts and separated instruments.
- ▶ Understand instruments and materials currently available for removal of posts and separated instruments.
- ▶ Understand the mechanism behind instrument breakage.

Auxiliary Sessions

AUX 1—Dental and Medical Considerations in Treating the Female Patient

2 – 5 p.m., Northwest Hall 1

Barbara J. Steinberg, D.D.S.

Moderator: Cindy R. Rauschenberger, D.D.S., M.S.



This is an informative and compelling course that deals with issues specific to the female patient. The practitioner's understanding of these issues should impact positively and certainly contribute toward a greater sensitivity to the female patient. Topics cover, but are not limited to: menses,

pregnancy, perimenopause, menopause, hormone replacement therapy, and osteoporosis and their effect on the oral cavity and dental therapy. Eating disorders and their effect on the oral cavity will also be presented.

At conclusion, participants should be able to:

- ▶ Recognize special dental and medical considerations when treating the female patient during fluctuations in sex hormones during menses, pregnancy, menopause, etc.
- ▶ Be up to date on the latest information regarding cardiovascular disease in women, osteoporosis, and hormone replacement therapy and alternative therapies.
- ▶ Understand eating disorders and their effect on the oral cavity.

General Interest Sessions

GI 1—Chicago Architecture—Part I, Rise of the Skyscraper

2 – 3 p.m., Northwest Hall 5

Chicago Architecture Foundation Speaker

This presentation traces the evolution of the tall building over 13 decades, using a variety of contemporary and vintage slides that depict the construction of some of Chicago's most famous architectural treasures.

At conclusion, participants should be able to:

- ▶ Understand the role that the skyscraper plays in the history of the city of Chicago.
- ▶ Have a greater appreciation of the architectural beauty of Chicago.
- ▶ Recognize some of the architectural giants that grace the Chicago skyline.

Chicago Architecture—Part II, Chicago Theatres

3 – 5 p.m., Northwest Hall 5

Richard Sklenar



Participants will learn about the history of Chicago's many theatres, including its great movie palaces. Details of architectural styles, the economics of theatres and their importance as preserved places will be covered. This story of Chicago popular culture, especially as it relates to motion pictures, is a microcosm of America in that it reflects parallel development in cities and towns across the United States.

At conclusion, participants should be able to:

- ▶ Identify "hard top" and "atmospheric" theatres.
- ▶ Know the name "Rapp and Rapp."
- ▶ Relate their local Bijou or Palace Theatre to other theatres across the country.

Special Interest Sessions

SI 1—ABE Boardwalk

2 – 5 p.m., Boulevard A/B



PJA CJC PDE GNG GRH



BGJ KVK WGS MT

Paul J. Ashkenaz, D.D.S., M.S.
 Charles J. Cunningham, D.D.S.
 Paul D. Eleazer, D.D.S.
 Gerald N. Glickman, D.D.S., M.S., J.D.
 Gary R. Hartwell, D.D.S., M.S.
 Billie G. Jeansonne, D.D.S., Ph.D.
 Keith V. Krell, D.D.S., M.S., M.A.
 William G. Schindler, D.D.S., M.S.
 Martin Trope, B.D.S., D.M.D.
 Moderator: Charles J. Cunningham, D.D.S.

The Directors of the American Board of Endodontics will discuss the process required for Board certification. Changes in the sequencing of the examination will be outlined. Each phase of the examination process (written examination, case history portfolio and oral examination) will be discussed and suggestions provided for preparation and successful completion of each portion of the certification process. The program is designed to provide interested individuals with the opportunity to interact with the Directors and to clarify concerns regarding the certification process.

SI 2—Evidence-Based Endodontics

2 – 5 p.m., Williford B



JLG JWH CWN MT RN

James L. Gutmann, D.D.S.
 Jeffrey W. Hutter, D.M.D., M.Ed.
 Carl W. Newton, D.D.S., M.S.D.
 Richard Niederman, D.M.D., M.A.
 Mahmoud Torabinejad, D.M.D., M.S.D., Ph.D.

Each participant should be able to describe the procedures used to systematically review the scientific literature and apply the results to clinical decision-making.

At conclusion, participants should be able to apply the results of systematic reviews to clinically relevant areas:

- ▶ The value of saving teeth with root canal treatment.
- ▶ The factors that determine successful outcomes.
- ▶ The effect of pulp disease and treatment on systemic health.

Oral Research Presentations

Oral Research Presentations I

Room: Williford A

Moderator: Bradford R. Johnson, D.D.S.

Graduate Student Section

10:30 a.m.

Anesthetic Efficacy of the Palatal Anterior Superior Alveolar (P-ASA) Nerve Block

Yvette Burns, D.D.S. (presenter)

A. Reader, J. M. Nusstein, M. Beck, J. Weaver, Ohio State University

10:45 a.m.

Anesthetic Success of the Bi-Directional Rotation Technique in Patients With Irreversible Pulpitis

Shawn R. Kennedy, D.D.S. (presenter)

A. Reader, J. M. Nusstein, M. Beck, J. Weaver, Ohio State University

11 a.m.

Molecular and Cellular Mediators of Orofacial Nociception in Nucleus Caudalis

(This session will not be recorded.)

Neil Begley, D.D.S. (presenter)

C.G. Fife, T.A. Sanchez, G.O. Dussor, G. Helesic, D.J. Jones, K.M. Hargreaves, C.M. Flores, University of Texas at San Antonio

11:15 a.m.

A Quantitative Analysis of COX-1 and COX-2 Enzymes in Inflamed Dental Pulp Following the Administration of Three Different NSAIDs

(This session will not be recorded.)

Ricardo M. Garza, Jr., D.D.S. (presenter)

R. Pileggi, M. Hutchins, University of Texas at Houston

11:30 a.m.

Pain From Pulpitis Correlated With Pulpal Neuropeptides and Inflammatory Mediators

Claudio H. Varella, D.D.S. (presenter)

C.A. Nosrat, G.R. Holland, University of Michigan and Unigranrio, Sao Paulo, Brazil

11:45 a.m.

Hydraulically Placed Residual Calcium Hydroxide: Does it Affect the Seal?

Yaser F. Roumani, D.D.S. (presenter)

P. Vaziri, A.K. Mickel, Case Western Reserve University

Oral Research Presentations II

Room: Williford C

Moderator: Robert J. Loushine, D.D.S.

Graduate Student Section

10:30 a.m.

Comparison of Various Calcium Hydroxide Removal Techniques

David M. Kenée, D.D.S. (presenter)
J.D. Allemang, J.D. Johnson, J. Hellstein, Naval Postgraduate Dental School

10:45 a.m.

Inactivation of Chlorhexidine

Ahmad Zamany, D.D.S. (presenter)
K. Safavi, L.S. Spångberg, University of Connecticut

11 a.m.

Venous Blood Concentrations of Lidocaine After Maxillary Infiltration and Intraosseous Injection

*Mark D. Wood, D.D.S., M.S. (presenter)
A. Reader, J.M. Nusstein, M. Beck, D. Padgett, J. Weaver, Ohio State University

11:15 a.m.

Effect of Catalase Supplementation in Storage Media for Avulsed Teeth

Thomas M. Buttke, D.D.S. (presenter)
M. Trope, University of North Carolina

11:30 a.m.

Effect of Systemic NSAIDs on Resorption of Replanted Dog Teeth

Francisco A. Banchs, D.D.S. (presenter)
E.C. Bryson, L. Levin, M. Trope, University of North Carolina

11:45 a.m.

Effectiveness of a Novel Bioresorbable Polymer in Preventing Root Resorption

T. Nguyen Nguyen, B.D.S., M.S.D. (presenter)
A.K. Mickel, S. Chogle, J.J. Jones, T.C. Dumsha, Case Western Reserve University and University of Maryland

Oral Research Presentations III

Room: Williford C

Moderator: Jeffrey P. Lilly, D.D.S.

Endodontist Section

2 p.m.

Bacterial Identification in Necrotic Pulp of Diabetic and Non-Diabetic Patients

Ashraf F. Fouad, D.D.S., M.S. (presenter)
J. Barry, Q. Zhu, M. Caimano, M. Clawson, R. Carver, K. Hazlett, J.D. Radolf, University of Connecticut

2:15 p.m.

Permeability of the Smear Layer to Enterococcus Faecalis
Yaara Berdan, D.D.S. (presenter)
B.R. Johnson, R. Murphy, E. BeGole, University of Illinois at Chicago

2:30 p.m.

Geographical Differences in Bacteria Detected in Endodontic Infections Using PCR

J. Craig Baumgartner, D.D.S., M.S., Ph.D. (presenter)
J.F. Siqueria, Jr., T.T. Xia, I.N. Rocas, Oregon Health and Sciences University and Federal University of Rio de Janeiro, Brazil

2:45 p.m.

Anesthetic Efficacy of the X-Tip Intraosseous Injection in Patients With Irreversible Pulpitis

John M. Nusstein, D.D.S., M.S. (presenter)
S. Kennedy, A. Reader, M. Beck, J. Weaver, Ohio State University

3 p.m.

Cytokine Expression Induced by Pulp Inflammation Leading to Root Resorption

Francisca Yacaman-Vidjak, D.D.S. (presenter)
A. Manoochehri, M. Chow, J. Reyna, P. Bringas, M. Zeichner-David, University of Southern California and University of California, Los Angeles

3:15 p.m.

Matrix Metalloproteinase Levels and Gelatinolytic Activity in Clinically Healthy and Inflamed Human Dental Pulps

Matthias Zehnder, D.M.D. (presenter)
H. Gusman, R.B. Santana, Boston University and University of Zurich, Switzerland

3:30 p.m.

Mercury Release From Amalgam Exposed to NaOCl and EDTA

Ilan Rotstein, C.D. (presenter)
M. Karawani, C. Mor, D. Steinberg, University of Southern California and Hebrew University-Hadassah Faculty of Dental Medicine, Jerusalem, Israel

3:45 p.m.

Intracanal Distribution Patterns of Three Endodontic Sealers as Observed in Situ

Richard E. Walton, D.M.D., M.S. (presenter)
S.R. Facer, University of Iowa

4 p.m.

Comparison of Variations in Rate of Insertion Using a Thermoplasticized Gutta-Percha Obturation Technique

Marc E. Levitan, D.D.S. (presenter)
V.T. Himel, University of Tennessee

4:15 p.m.

Infrared Thermographic Analysis of Temperature Rise on the Surface of Buchanan Plugger

Won-Mann Oh, D.D.S., Ph.D. (presenter)
S. Choi, Y. Kim, D. Kim, I. Hwang, Chonnam National University, Kwangju, Korea

4:30 p.m.

Incidence of Profile Separation and the Potential for Bypassing

Khalid S. Al-Fouzan, B.D.S., M.S.Ed. (presenter)
King Fahad National Guard Hospital, Saudi Arabia

4:45 p.m.

A Comparison of Two Different Rotary Nickel-Titanium Instrumentation Techniques in Apical Debridement

(This session will not be recorded.)

*Paul E. Gutt, D.D.S. (presenter)
K.R. Baumgardner, G.R. Holland, University of Michigan

Oral Research Presentations IV

Room: Williford A

Moderator: Clara M. Spatafore, D.D.S., M.S.

Graduate Student Section

2 p.m.

Chemotherapeutic Inhibition of Root Resorption in Replanted Dog Teeth

Edwin C. Bryson, D.D.S. (presenter)
F. Banchs, L. Levin, P. Abbott, M. Trope, University of North Carolina and University of Melbourne, Australia

2:15 p.m.

Evaluation of Fibroblast Adhesion to Endodontic Root-End Filling Materials

Mark A. Camp, D.D.S. (presenter)
B.G. Jeansonne, T. Lallier, Louisiana State University

2:30 p.m.

Mitogenic Effect of MTA on Mouse Odontoblast Cell Line (MDPC 23) is Mediated by Intracellular Ca²⁺ Signaling

*Su-Jung Shin, D.D.S. (presenter)
S. Kim, C. Ratisoontorn, H. Nah, University of Pennsylvania

2:45 p.m.

Effect of Root Resection on the Apical Sealing Ability of Mineral Trioxide Aggregate

Edwin L. Lamb, D.M.D. (presenter)
D.H. Pashley, R.N. Weller, R.J. Loushine, Medical College of Georgia

3 p.m.

The Molecular Regulation of Bone Regeneration

Hiran Perinpanayagam, B.D.S. (presenter)
R. Zaharias, K. Holtman, C. Stanford, G. Schneider, University of Iowa

3:15 p.m.

The Role of Epithelium in Periapical Pathosis: A Model System

David C. Han, D.D.S. (presenter)
G.T. Huang, L.M. Lin, N.A. Warner, J.S. Gim, A. Jewett, University of California, Los Angeles

3:30 p.m.

The Effect of Calcium Sulfate on Hard Tissue Healing Following Periradicular Surgery

Erol S. Apaydin, D.D.S. (presenter)
M. Torabinejad, Loma Linda University

3:45 p.m.

Cytomegalovirus and Epstein-Barr Virus DNA Detection and Transcription in Periapical Lesions

(This session will not be recorded.)

Mohammad A. Sabeti, D.D.S. (presenter)
H. Nowzari, J. Simon, Y. Valles, V. Kermani, J. Slots, University of Southern California, Los Angeles and Immuno-Biogene, Inc., Los Angeles

4 p.m.

Effects of Insulin-Like Growth Factor I (IGF-I) Overexpression on Primary Osteoblasts in Vitro

Jianing He, D.D.S. (presenter)
J. Jiang, A.C. Lichtler, B.E. Kream, University of Connecticut

4:15 p.m.

Diabetics Demonstrate Increased Inflammation in Response to Porphyromonas Gingivalis

George M. Brock, D.D.S. (presenter)
G. Naguib, S. Patel, N. Nooh, H. Schilder, J. Hutter, D. Graves, Boston University

4:30 p.m.

Identification of Resected Root-End Dentinal Cracks: A Comparative Study of Visual Magnification

C. Cornelious Slaton, D.M.D. (presenter)
R.J. Loushine, R.N. Weller, M.H. Parker, D.H. Pashley, Medical College of Georgia

4:45 p.m.

The Validation of an Electronic Visual Analogue Scale

Benoit M. Desjardins, D.M.D. (presenter)

T.T. Dao, K. Knight, University of Toronto

Poster Research Presentations

Northeast Hall

Graduate Student Section

10:30 a.m. - noon

PR 1

Root Canal Treatment in a Population-Based Adult Sample

Kenneth R. Tilashalski, D.M.D.
University of Alabama

PR 2

A Comparison of the Utilization of Endodontic and Tooth Extraction Services Between a Publicly and Privately Insured Population in Iowa
Mark B. Sweet, D.D.S.
University of Iowa

PR 3

The Effect of Chlorhexidine on Debris Removal From Endodontic Instruments
Brett E. Gilbert, D.D.S.
University of Maryland

PR 4

Effectiveness of Chlorhexidine as a Chairside Disinfectant
*I-Wen E. Wang, D.D.S.
University of Maryland

PR 5

Cleaning Efficiency of Ni-Ti Files in a Torque-Controlled Rotary Handpiece
Calvin B. Suffridge, D.D.S.
Virginia Commonwealth University

PR 6

A Comparison of Force Required to Fracture Three Different Nickel-Titanium Rotary Instruments Around Curves of Different Radii When Bound at the Tip
Jason R. Booth, D.M.D.
University of Alabama

PR 7

The Efficacy of Sterilization on Organic Debris in Endodontic Sponges
Derek A. Slosser, D.M.D.
University of Maryland

PR 8

SEM Evaluation of Techniques Used to Clean K-Type Stainless Steel Endodontic Files
Rashmi C. Patel, D.D.S.
University of Iowa

PR 9

Penetration of Residual Calcium Hydroxide Within Dentinal Tubules: An SEM Analysis
Priya Sharma, D.D.S.
Case Western Reserve University

PR 10

The Effect of Smear Layer Removal on Leakage of Temporary Restorative Materials
Daniel R. Loftus, D.V.M., D.D.S. and Joon W. Kim, D.D.S.
Baylor College of Dentistry

PR 11

Working Length Determination in Palatal Roots of Maxillary Molars
Melanie A. Kim-Park, D.D.S.
Virginia Commonwealth University

PR 12

The Effect of Electronic Apex Locators on Cardiac Pacemaker Activity
Raphael R. Garofalo, D.D.S.
Nova Southeastern University

PR 13

Temperatures Generated by Ultrasonic Vibration During in Vitro Post Removal
John T. Dominici, D.D.S.
University of Louisville

PR 14

The Effect of Endodontic Solutions on Resorcinol-Formalin Paste
Ronald N. Vranas, D.D.S.
Virginia Commonwealth University

PR 15

Effect of Cutting Efficiency of Ultrasonic Tips at 90° and 45°
Alvaro F. Gonzalez, D.M.D.
Case Western Reserve University

PR 16

A Comparative Assessment of Primary Osteoblasts and MG-63 Osteosarcoma Cells When in Contact With ProRoot MTA vs. White MTA: An SEM Study
Ana L. Perez, D.D.S. and Saud Al-Awadhi, D.D.S.
Baylor College of Dentistry

PR 17

The Effect of Three Root-End Filling Materials on Mice Osteoblast Cells
Jess A. Kelly, D.D.S.
Marquette University

PR 18

Neurotoxic Evaluation of Root-End Filling Materials in Cortical Cell Cultures
Mahshid Asrari, D.D.S.
Marquette University

PR 19

Survey of Barrier Membrane Selection by Practicing Endodontists
Anand W. Suresh, D.D.S.
Case Western Reserve University

PR 20

Sterilization of Geristore® Contaminated With Enterococcus Faecalis, Set on Surgical Instruments
John W. King, D.D.S.
Case Western Reserve University

PR 21

A Comparative Analysis of Mineral Trioxide Aggregate and Portland Cement
Urania R. Funteas, D.D.S.
University of Pittsburgh

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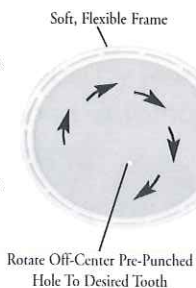
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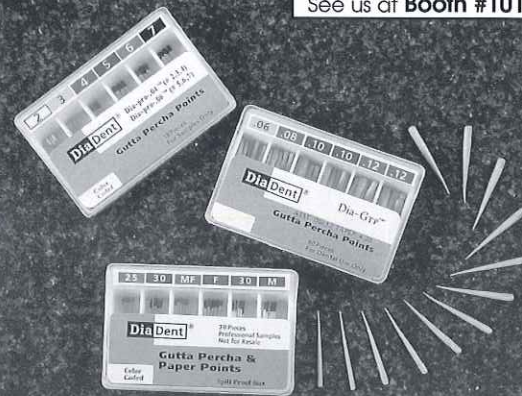
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PR 22

Scanning Electron Microscopic Study of Tooth Replantation in Ferrets

Tuan H. Nguyen, D.D.S.,
Case Western Reserve University

Table Clinics

Northeast Hall

Endodontist Section (** Denotes Dental Student)

10:30 a.m. - noon

TC 1

Evaluation of Periodontal Ligament Cells After Intentional Replantation Procedures

Ralan D. Wong, D.D.S., San Francisco and **Mr. Keven Herold,
University of the Pacific

TC 2

New Rotary Instrumentation Technique with Parallel and .02 Taper Files: PS System Technique

*Franklin Pineda, D.D.S.
Mexico City

TC 3

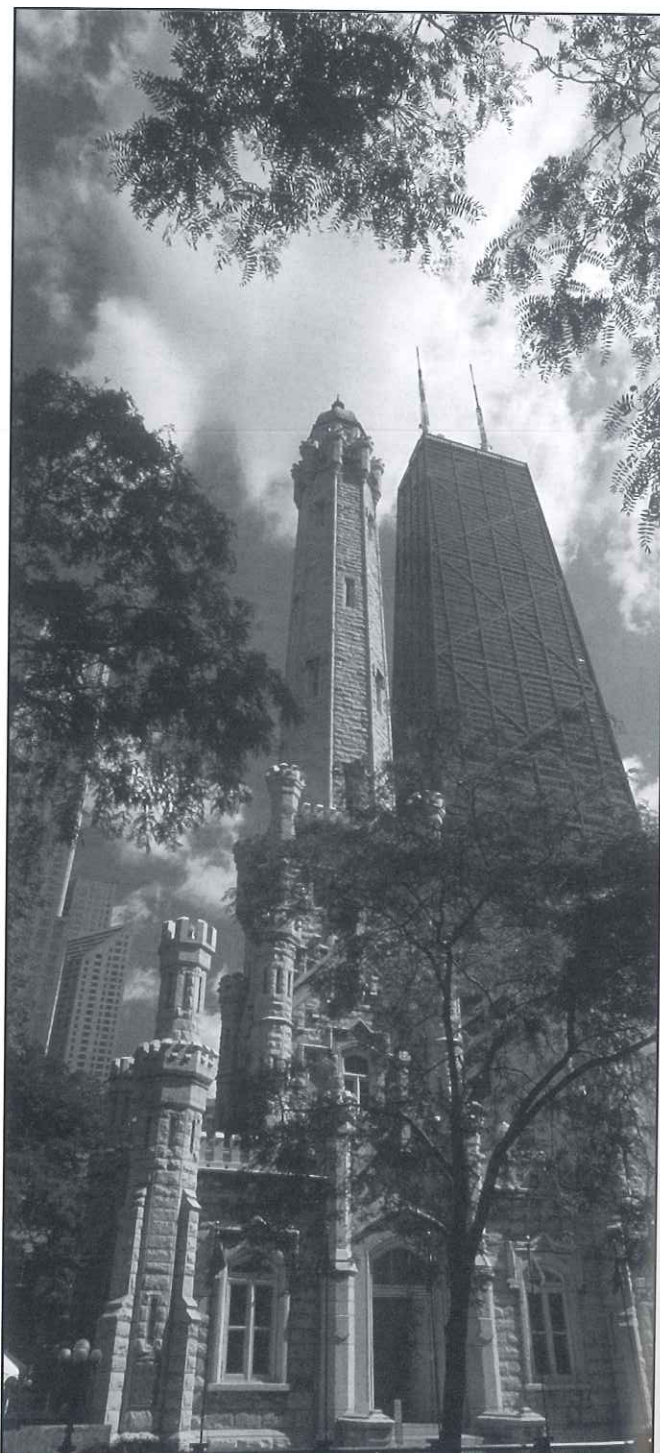
Are Endodontists Liable for Oral Cancer Detection?

**Ms. Sunia Abdula
University of Maryland

TC 4

The Endodontic Cube: A System for Evaluation of Root Canal Anatomy and Canal Preparation

Sergio Kuttler, D.D.S., M.S.
Ft. Lauderdale, Fla.



CCTB/Rosenberg

Principal Sessions

PS 200—A Trilogy of Endodontic Software— Piece by Piece

9 a.m. - noon, International South



PWC **GBC** **BL** **GR**
Philip W. Cohen, D.D.S., M.S.
***Gary B. Carr, D.D.S.**
***Bruce Lieberthal, D.D.S.**
***Gorganna Randolph**

This unique course will present the three major endodontic practice management software products. Participants will be able to compare the features of each program as well as learn how to facilitate purchase, application and integration into their own practices. Philip W. Cohen, D.D.S., M.S., Chair of the AAE Endodontic Software Committee, will facilitate this session.

At conclusion, participants should be able to:

- ▶ Understand the features and differences of the three major endodontic software products.
- ▶ Understand the scope of capabilities of today's endodontic software.
- ▶ Understand how endodontic software can provide the potential of a "paperless office."

PS 201—Bugs and Drugs

9 a.m. - noon, Continental B



JCB **RD** **KMH**
J. Craig Baumgartner, D.D.S., M.S., Ph.D.
Raymond Dionne, D.D.S., Ph.D.
Kenneth M. Hargreaves, D.D.S., Ph.D.
Moderator: Bruce H. Seidberg, D.D.S., M.Sc.D., J.D.

In this three-part presentation, attendees should be able to: 1) describe the disease process involved in endodontic infections and develop a sound rationale for effective management of endodontic infections; 2) describe the methods and rationale for clinical studies used to evaluate the effectiveness and safety of analgesics; 3) describe the most effective treatment strategies for managing odontogenic pain.

FRIDAY EDUCATIONAL SCHEDULE

- 9-10:15 a.m.**
- LAS 200**—Legal Vulnerabilities in the Dental Practice
 - LAS 201**—Present Techniques to Remove Nickel-Titanium Separated Instruments
 - LAS 202**—Efficient Endodontic Access in Posterior Teeth: Rapid Pulpotomies With a Safe-Ended Diamond
 - LAS 203**—Digital Photography With the Microscope
 - LAS 204**—Aesthetic Endodontics: It Looks Good, But Will it Work?
- 9-11 a.m.**
- SI 3**— Endodontic Educators Forum—Mechanisms for Faculty Recruitment and Retention
- 9 a.m.-noon**
- PS 200**— A Trilogy of Endodontic Software—Piece by Piece
 - PS 201**— Bugs and Drugs
 - PS 202**— Systemic Disease
 - PS 203**— The Impact of Modern Periodontics and Prosthodontics on the Endodontist
 - PS 204**— Latex Allergy
 - AUX 2**— Office Issues and Practical Solutions
 - GI 2**— Anti-Stress Eating
 - OR**— Oral Research Presentations
 - PR**— Poster Research Presentations
 - TC**— Table Clinics
- 10:30-11:45 a.m.**
- LAS 205**—Digital Documentation
 - LAS 206**—Endodontic Office Design
 - LAS 207**—Fiber-Optic Visualization in Endodontics
 - LAS 208**—Interactive CD-ROM on Tooth Anatomy
 - LAS 209**—Realizing Your Dream . . . The Keys to Creating Your Own Practice

continued on page 32

FRIDAY EDUCATIONAL SCHEDULE (CONT.)

- 2-4 p.m.
- PS 205— Sinus Implications for the Endodontist
 - PS 206— Treating Retreats
 - PS 207— Oral Medicine Considerations for the Endodontist
 - PS 208— Rotary Instrument Design Concepts
 - PS 209— What Every Endodontist Should Know About Dental Trauma
 - PS 210— Future Role of Lasers in Modern Endodontics

 - LAS 210—Clinical Management of Odontogenic Infections
 - LAS 211—Legal Odysseys in Endodontic Practice
 - LAS 212—Clinical and Experimental Experiences with Nickel-Titanium Rotary Engine-Driven Instruments
 - LAS 213—How to Prevent Office Emergencies and Avoid Becoming One Yourself
 - LAS 214—An Introduction to PowerPoint

 - AUX 3— Customer Service: A Strategy for Success

 - GI 3— De-Clutter Your Life and Your Practice

 - OR— Oral Research Presentations

At conclusion, participants should be able to:

- ▶ Describe the predominant microorganisms in endodontic infections, and the endodontic and pharmacologic treatment strategies for the treatment of endodontic infections.
- ▶ Describe the importance of evidence-based studies in making appropriate treatment decisions, and understand the advantage of preemptive analgesia and the risks of NSAID-induced adverse events.
- ▶ Describe the best pre-operative predictors of post-endodontic pain, and the efficacy of endodontic and pharmacologic strategies for managing post-endodontic pain.

PS 202—Systemic Disease

9 a.m. - noon, Continental C



JB

RG

James Beck, Ph.D.

Raul Garcia, D.M.D.

Moderator: James L. Gutmann, D.D.S.

James Beck, Ph.D. *(This session will not be recorded.)*

This presentation reviews the evidence on the re-emerging concept that various oral conditions may be risk factors for important medical outcomes, concentrating on the evidence regarding the role of oral infections as risk factors for coronary heart disease/stroke and preterm birth. It describes the epidemiologic evidence implicating periodontal disease and other oral infections as risk factors for coronary heart disease/stroke and preterm birth. Hypothetical mechanisms that have been proposed to explain these relationships are critically analyzed.

At conclusion, participants should be able to:

- ▶ Describe the biologically plausible mechanisms to explain how oral infection could act as a risk factor (i.e., causally related) for coronary heart disease/stroke and preterm birth.
- ▶ Explain to patients why the epidemiologic and clinical evidence available to date is insufficient to conclude that there is a causal connection.
- ▶ Describe the rationale for why intervention trials are one good approach to answer the question.

Raul Garcia, D.M.D.

Practitioners need to understand and explain to patients the evidence implicating oral infections as potential risk factors for important medical outcomes. Participants will learn how to critically evaluate the evidence that chronic oral infections, as in periodontal disease, may increase risk for poor diabetic glycemic control and risk for exacerbations of chronic obstructive pulmonary disease.

At conclusion, participants should be able to:

- ▶ Critically evaluate the epidemiologic evidence implicating periodontal disease and other oral infections as risk factors for diabetes and respiratory diseases.
- ▶ Understand the hypothetical mechanisms proposed to explain the relationships between oral infections and diabetes and respiratory diseases.

PS 203—The Impact of Modern Periodontics and Prosthodontics on the Endodontist

9 a.m. – noon, Continental A



JPA HB

Jean Pierre Arnoux, D.D.S.
Harold Baumgarten, D.M.D.
 Moderator: Arlene Stein, D.M.D.

Our current concepts of periodontal diseases are changing drastically, leading to major evolutions in our methods of treatments and assessment of prognosis. Dramatic success rates in patients treated with osseointegrated implants have been reported and have changed the way we treat our patients. The current state of the art in modern prosthodontics impacts on the endodontist's decision making process.

At conclusion, participants should be able to:

- ▶ Have a good understanding of the new concepts of periodontal diseases.
- ▶ Assess a prognosis in view of these new concepts.
- ▶ Make a good decision either to maintain a tooth, to extract a tooth or to place an implant.
- ▶ Describe the biological and technical factors that affect the ability of the prosthodontist to achieve an ideal esthetic and functional result.
- ▶ Describe how these limitations must change the endodontist's thought process when planning treatment.

PS 204—Latex Allergy

9 a.m. – noon, Marquette

*Curt Hamann, M.D.

Moderator: Leslie R. Eifenbein, D.M.D.



Each participant will be able to describe irritations common in health care and both Type I and Type IV allergic reactions to natural rubber latex and rubber containing products. Participants will review the underlying immunologic mechanisms, risk factors, clinical manifestations and both employee and patient management strategies.

At conclusion, participants should be able to:

- ▶ Describe natural rubber latex hypersensitivity as it affects patients and health care workers.
- ▶ Understand the differences between allergic and irritant reactions associated with NRL exposure and/or other occupational allergens and describe appropriate diagnostic options.

- ▶ Plan and implement latex-avoidance protocols and management strategies.

PS 205—Sinus Implications for the Endodontist

2 – 4 p.m., Continental A

Jean-Yves G. Cochet, D.D.S.

Moderator: Mary T. Pettiette, D.D.S.



Endodontic pathology can induce sinus diseases because of the anatomic relationship. Classic sinusitis, pain, otolaryngological pathologies and opthalmic reactions are the most common side effects. Proper investigation procedures followed by a faithful diagnosis will enable effective treatment to be administered. The frequency of these pathologies and the possibilities of current treatment can increase your professional activity.

At conclusion, participants should be able to:

- ▶ Determine the pathophysiology and management of endodontic sinus disease.
- ▶ Understand clinical evaluation and specific investigation (C.T. scan/MRI) for determining the precise diagnosis and rational treatment, and modulate the clinical approach depending on the size of the lesion, the extension of the sinus disease and the anatomical considerations.
- ▶ Describe when a surgical approach should be performed according to the latest radiological, biochemical and clinical studies on tissue regeneration.

PS 206—Treating Retreats

2 – 4 p.m., Continental B

David B. Rosenberg, D.D.S.

Moderator: Kirk A. Coury, D.D.S., M.S.



This presentation will explore methods that can be used to salvage teeth that may otherwise require extraction.

At conclusion, participants should be able to:

- ▶ Identify teeth that are candidates for retreatment.
- ▶ Describe procedures that can be used to regain patency in previously treated canals.
- ▶ Describe techniques used to complete retreatment or treatment in complex anatomical situations.

PS 207—Oral Medicine Considerations for the Endodontist

2 - 4 p.m., Continental C



MG

MAS

Michael Glick, D.M.D.

Michael A. Siegel, D.D.S., M.S.

Moderator: Carol E. Mann, D.M.D.

Each participant should be able to recognize historical, radiographic, and clinical signs and symptoms in a patient who presents to the endodontist without obvious signs of pulpal disease; to evaluate patients with HIV disease to ensure appropriate and safe endodontic care; and to assess complications associated with dental care in patients with HIV disease.

At conclusion, participants should be able to:

- ▶ Obtain a medical history that will alert the endodontist that a systemic disorder is likely responsible for the patient's presentation.
- ▶ Recognize disease patterns that suggest a patient's pain is not likely endodontic in origin.
- ▶ Evaluate appropriate laboratory data on patients with medically complex disease.

PS 208—Rotary Instrument Design Concepts

2 - 4 p.m., International South



DB

KK

***Dennis Brave, D.D.S.**

***Kenneth Koch, D.M.D.**

Moderator: Roger R. Lacoste, D.M.D.

(This session will not be recorded.)

If you are using third generation nickel-titanium rotary instruments, you are using sophisticated instruments that incorporate design concepts requiring your understanding. You should understand the difference between such things as rake and cutting angles and variable pitch and variable helical angle. Do you know why they are a design feature of the rotary file you choose to use? You will gain an intimate knowledge of all the third generation rotary files at the completion of this presentation.

At conclusion, participants should be able to:

- ▶ Appreciate the stress factors that affect nickel-titanium instruments and how to compensate for them.

- ▶ Understand what each design feature of a rotary instrument accomplishes and why it is utilized.
- ▶ Be able to evaluate the claims of the various manufacturers as they relate to the objective design elements of the third generation instruments.

PS 209—What Every Endodontist Should Know About Dental Trauma

2 - 4 p.m., Waldorf

Leif K. Bakland, D.D.S.

Moderator: Larz Spångberg, D.D.S.



Endodontists are increasingly involved in treatment of patients with dental injuries. Colleagues turn to us for advice regarding pulpal conditions, resorption of roots and alveolar bone, and long term outlook for traumatized teeth. In this lecture, the most current concepts in evaluation and treatment planning for dental trauma will be presented, based on available evidence.

At conclusion, participants should be able to:

- ▶ Recognize the effects of impact trauma on teeth and supporting tissues.
- ▶ Evaluate the treatment needs of patients with dental trauma and predict the expected outcome of treatment.
- ▶ Identify complex situations that may require multidisciplinary treatment approaches.

PS 210—Future Role of Lasers in Modern Endodontics

2 - 4 p.m., Marquette



JM

AS

***Joshua Moshonov, D.M.D.**

***Adam Stabholz, D.M.D.**

Moderator: Seymour Oliet, D.D.S.

Each participant should be able to describe the principles of operation and types of dental lasers currently in use, as well as their characteristic structure and their possible clinical applications in endodontics.

At conclusion, participants should be able to:

- ▶ Describe the characteristics of the different types of lasers used for dental applications.
- ▶ Describe the interaction of lasers with biological tissues and their effect on the soft and hard tissues of the oral cavity as well as on the dental pulp.
- ▶ Describe the possible future role of lasers in endodontics.

Limited Attendance Sessions

LAS 200—Legal Vulnerabilities in the Dental Practice

9 – 10:15 a.m., Boulevard A
Steven A. Arena, D.M.D., M.Sc.D., J.D.

Photo
not
available

Participants will be able to complete an evaluation of their practice for potential areas of liability.

At conclusion, participants should be able to:

- ▶ Recognize the aspects of good risk management to limit liability exposure.
- ▶ Address the professional liability risk aspects of a practice.
- ▶ Address potential liability risks associated with service related businesses.

LAS 201—Present Techniques to Remove Nickel-Titanium Separated Instruments

9 – 10:15 a.m., Boulevard B
Giuseppe Cantatore, D.D.S., D.M.S.



The risk of separations remains a serious drawback when using nickel-titanium instruments, even with the introduction of new sophisticatedly designed instruments. DVD movies will illustrate the various available techniques to remove the fragments. Each participant should thus improve success rates through a correct use of the best technique under different clinical situations.

At conclusion, participants should be able to:

- ▶ Choose between orthograde and surgical therapeutic approach.
- ▶ Select the best technique for various clinical situations.
- ▶ Safely use removal devices minimizing the risk of complications.

LAS 202—Efficient Endodontic Access in Posterior Teeth: Rapid Pulpotomies With a Safe-Ended Diamond

9 – 10:15 a.m., Boulevard C
Augustyne V. Hill, D.D.S., M.S.



Each participant should be able to describe the procedure and sequences of operations to start and complete access preparations in posterior teeth using a safe-ended diamond bur.

At the conclusion, participants should be able to:

- ▶ Describe the major objectives of access preparations.
- ▶ Describe the procedure for the initial assessments of access openings in posterior teeth.
- ▶ Describe the sequence and burs used for the safe-ended diamond access opening technique.

LAS 203—Digital Photography With the Microscope

9 – 10:15 a.m., Joliet
*Eric J. Herbranson, D.D.S., M.S.



The objective of this course is to review the current state of art in digital photography and how it applies to imaging through the microscope. Cameras, camera mounts, photography skill, software and clinical uses will be reviewed and discussed.

At conclusion, participants should be able to:

- ▶ Describe the current digital camera equipment and camera mounts available for the surgical microscope.
- ▶ Describe the skills necessary to produce high quality images.
- ▶ Describe how to use digital images in the endodontic practice.

LAS 204—Aesthetic Endodontics: It Looks Good, But Will it Work?

9 – 10:15 a.m., PDR 2
Kenneth Green, B.D.S.

Photo
not
available

The “in look” occurs in endodontics, and as in other fields, “the look” will depend on where, when and from whom you received your training. This presentation will explore the options available in current clinical techniques, which should enable clinicians to achieve predictable long-lasting root fillings. “The look” may differ, yet the long-term results should be similar, as long as the basic scientific criteria are satisfied.

At conclusion, participants should be able to:

- ▶ Describe the scientific criteria currently accepted as an aim in endodontics.
- ▶ Describe the clinical options available to achieve this aim.
- ▶ Appreciate that different treatment modalities can achieve the same results.

LAS 205—Digital Documentation

10:30 – 11:45 a.m., Boulevard A
James B. Satovsky, D.D.S., M.S.
(This session will not be recorded.)



Each participant should be able to describe the steps involved in digital documentation. These steps go from image capture and digital camera operation, through computer manipulation and production of a final document. Also included

continued on page 36

will be camera set-ups using the microscope, both still and video.

At conclusion, participants should be able to:

- ▶ Know the difference between digital and analog images.
- ▶ Know the sequence for converting images to a digital format and importing them into a computer.
- ▶ Know the ways to manipulate images and produce a final document.

LAS 206—Endodontic Office Design

10:30 – 11:45 a.m., Boulevard B

Paul G. Satchell, B.Arch., D.D.S., M.S.



While endodontic practice has benefited from technical and scientific advances in recent years, one aspect that has not necessarily kept pace is the development of the office environment. Each participant should be able to understand endodontic office design principles so that they can integrate these ideas with the functional needs of their own office and maximize the benefits of the endodontist-designer relationship.

At conclusion, participants should be able to:

- ▶ State the elements of a stress-free environment for endodontists, patients and staff.
- ▶ Identify endodontic office design trends and considerations for new and renovated offices and integrate these ideas with the functional needs of their own office.
- ▶ State and describe the three classic components of the design process and know their role in that process.

LAS 207—Fiber-Optic Visualization in Endodontics

10:30 – 11:45 a.m., Boulevard C



JKB



JTB

James K. Bahcall, D.M.D., M.S.

Joseph T. Barss, D.D.S., M.S.

Each participant should be able to understand the advantages and usage of fiber-optic technology for visualization in conventional and surgical endodontic treatment.

At conclusion, participants should be able to:

- ▶ Understand the difference between the old fiber-optic technology vs. new fiber-optic technology.
- ▶ Understand when fiber-optic visualization is used during endodontic treatment.
- ▶ Learn how fiber-optic visualization and instrumentation is incorporated to perform endodontic treatment.

LAS 208—Interactive CD-ROM on Tooth Anatomy

10:30 – 11:45 a.m., Joliet



WPB

EJB

*W. Paul Brown, D.D.S.

*Eric J. Herbranson, D.D.S., M.S.

The objective of this course is to demonstrate a new paradigm in tooth anatomy education. New computer technology has allowed us to create completely interactive 3-D images from micro CT scans and high resolution serial sectioning. The resultant atlas will be available in CD-ROM form and will run on a normal desktop computer.

At conclusion, participants should be able to:

- ▶ Describe the rationale for a new anatomy atlas.
- ▶ Describe the technology used in the atlas.
- ▶ Describe the educational use of this atlas.

LAS 209—Realizing Your Dream... The Keys to Creating Your Own Practice

10:30 – 11:45 a.m., PDR 2

Brian E. Hornberger, D.D.S., M.S.



Participants will learn the fundamentals of beginning a start-up endodontic practice. Topics to be covered will include selection of location, expected budget, business loan proposal, development of vision, equipment needs, office design, staff hiring and initial marketing needs. An emphasis will be made on creating a joyful, fun, exciting team and work environment resulting in the "practice of your dreams."

At conclusion, participants should be able to:

- ▶ Understand the key steps and logistics of setting up a new practice.
- ▶ Create a vision that provides direction for all aspects of the project.
- ▶ Understand how to create a joyful, fun, exciting workplace.

LAS 210—Clinical Management of Odontogenic Infections

2 – 4 p.m., Boulevard A

Peter M. Di Fiore, D.D.S., M.S.



Participants will be able to understand the microbial and host factors in the etiology and pathogenesis of odontogenic infections and be able to describe the criteria and principles involved with the examination, diagnosis,

treatment and prognosis of odontogenic infections.

At conclusion, participants should be able to:

- ▶ List the major microbes involved and understand the pathogenicity of their interactions.
- ▶ Describe the host responses involved in odontogenic infections.
- ▶ Define examination criteria, make accurate diagnostic decisions and enumerate appropriate treatment modalities.

LAS 211—Legal Odysseys in Endodontic Practice

2 – 4 p.m., Boulevard B

Gerald N. Glickman, D.D.S., M.S., J.D.

(This session will not be recorded.)



Endodontists and staff must be concerned about the delivery of care within a highly skeptical and litigious society. Plaintiffs' attorneys are introducing new legal concepts as well as resurrecting older legal doctrines in order to have stronger cases for the patients. Each participant should be able to understand key principles of negligence, standards of care, informed consent, record documentation, teledentistry, specialist-generalist relations and employer-employee relations as they relate to emerging trends in the legal world.

At conclusion, participants should be able to:

- ▶ Identify the key litigated areas in endodontic practice.
- ▶ Learn the emerging legal trends in order to reduce risk in clinical practice.
- ▶ Adopt a practice philosophy that will adhere to contemporary legal and ethical standards.

LAS 212—Clinical and Experimental Experiences with Nickel-Titanium Rotary Engine-Driven Instruments

2 – 4 p.m., Boulevard C

Fred Barbakow, B.D.S., M.Sc.



Each participant should be able to describe the principles involved when using nickel-titanium rotary engine-driven instruments during root canal preparation and understand the instruments' therapeutic possibilities and some of their limitations.

At conclusion, participants should be able to:

- ▶ Describe a proven classical technique for using nickel-titanium rotary engine-driven instruments.
- ▶ Describe experiments undertaken during the last five years with nickel-titanium rotary engine-driven instruments using several analytical techniques.
- ▶ Describe how to shape canals adequately, minimizing dentin removal.

LAS 213—How to Prevent Office Emergencies and Avoid Becoming One Yourself

2 – 4 p.m., Joliet

Frederick R. Liewehr, D.D.S., M.S.



Each participant will learn which features of a patient's medical history must be understood in order to prevent the occurrence of a medical emergency during dental treatment, as well as the questions to ask in order to elicit this information.

At conclusion, participants should be able to:

- ▶ Decide what questions to ask on the medical history and why.
- ▶ Conduct a brief review of the patient's major physiologic systems.
- ▶ Understand how the results of a physical examination impact on the provision of dental care.

LAS 214—An Introduction to PowerPoint

2 – 4 p.m., PDR 2

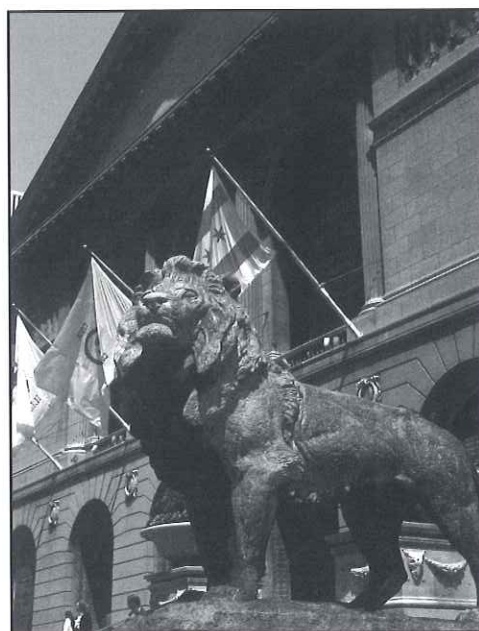
Richard A. Rubinstein, D.D.S., M.S.



PowerPoint is an extremely powerful software program that enables the user to design slides and computer presentations. The objective of this presentation is to introduce the participant to PowerPoint and to illustrate its creative possibilities.

At conclusion, participants should be able to:

- ▶ Understand the anatomy and navigation within PowerPoint.
- ▶ Understand the basics of editing pictures in Photoshop.
- ▶ Create a computer presentation in PowerPoint, using animated text and objects.



CCTB/Rosenberg

Auxiliary Sessions

AUX 2—Office Issues and Practical Solutions

9 a.m. – noon, Northwest Hall 1



NLS



MS

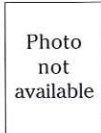


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RS



SCS

Nora L. Salinas
Marci Simpson
Ricki Skelnik
Susie C. Stoulig

Moderator: Michael S. Bond, D.D.S.

This panel of experienced office managers and staff comes from a variety of geographic locales and practice settings. The problems that face all endodontic practices are universal and it will be interesting to compare and contrast among the offices. The panel discussion will focus on two issues that we all deal with on a daily basis: scheduling dilemmas and integrating an associate.

At conclusion, participants should be able to:

- ▶ Be better prepared to schedule same day emergencies, later-in-the-day emergencies and handle demanding referral sources.
- ▶ Learn how to manage a stress-free schedule for doctor and staff.
- ▶ Utilize selective scheduling for best referral sources.
- ▶ Understand issues associated with scheduling for a new doctor.
- ▶ Have a good understanding of multiple practice location issues.
- ▶ Assess staffing issues involved in integrating an associate.
- ▶ Understand the importance of the practice's philosophy.

AUX 3—Customer Service: A Strategy for Success

2 – 4 p.m., Northwest Hall 1

Jinny Jacobs, M.A.

Moderator: Marc A. Schachman, D.M.D.



The specific purpose of customer service is to provide guidance in listening and communication skills, proper telephone techniques, developing a professional attitude, dealing with higher- or lower-level employees in an appropriate manner, dealing with angry or difficult customers, and gaining self-awareness and personal control.

At conclusion, participants should be able to:

- ▶ Practice active listening skills and focused speaking skills that are necessary in person or on the telephone.
- ▶ Recognize the importance of personal behaviors: visual, vocal and verbal input.
- ▶ Appreciate the importance of intraoffice cooperation: Giving good service externally and being a cooperative *internal customer*.

General Interest Sessions

GI 2—Anti-Stress Eating

9 a.m. – noon, Northwest Hall 5

Christine Palumbo, R.D., M.B.A.

Moderator: Irving Fried, D.D.S., M.A.



Feeling a little stressed? Who isn't these days? Do you respond to stress by medicating yourself with food? Find out about the connection between diet and stress. Hear how stress affects your body's mineral levels and waistline. Can stress formula vitamins help? Then, a light-hearted approach will be taken when discussing widely-held beliefs about so-called nutritious foods. Is it true about chocolate being a health food? Learn how to be a supermarket sleuth.

At conclusion, participants should be able to:

- ▶ Recognize how diet can reduce the effects of stress hormones.
- ▶ Learn how to manage your stress without turning to self-destructive eating.
- ▶ Identify foods that masquerade as healthful options.

GI 3—De-Clutter Your Life and Your Practice

2 – 4 p.m., Northwest Hall 5

Melly Kinnard

Moderator: Stephen M. Wechsler, D.D.S.

(This session will not be recorded.)



Denver's De-Clutter Queen will help you learn how to streamline the clutter in your personal life and practice. From files to patients, you will be better prepared to decide what to toss and what to keep. Marketing ideas to attract new patients and keep your best patients will be covered. Learn to implement ideas and put them to immediate use. A less cluttered life is more focused and brings peace of mind.

At conclusion, participants should be able to:

- ▶ Know what to save and what to throw away.
- ▶ Implement marketing ideas.
- ▶ Have a plan for the entire office.

Special Interest Sessions

SI 3—Endodontic Educators Forum Mechanisms for Faculty Recruitment and Retention

9 – 11 a.m., Waldorf



Eric J. Hovland, D.D.S., M.Ed., M.B.A.
Paul A. Rosenberg, D.D.S.
Martin Trope, B.D.S., D.M.D.
Richard E. Walton, D.M.D., M.S.
Moderator: Gerald N. Glickman, D.D.S., M.S., J.D.

Time has come to address the increasing shortage of qualified endodontic educators. The problem does not end there: university administrators must understand that current faculty along with any new recruits must be properly nurtured in order to retain them for the long-term. This forum will focus on the potential impact of future faculty recruitment and retention problems in the specialty of endodontics and will highlight some creative models and solutions that have been successful at a number of institutions. Dr. Eric J. Hovland will describe some of the activities of ADEA, NIDCR, and ADA in addressing these problems, and Dr. Richard E. Walton will discuss why the changing face of dental academics gives more attractive alternatives and opportunities for dental academicians. Dr. Paul A. Rosenberg will present ways part-time faculty can be used to achieve a department's goals, and Dr. Martin Trope will describe his experiences in attracting specialized faculty from overseas to help the educational atmosphere.

At conclusion, participants should be able to:

- ▶ Appreciate the significance of the national problem of future recruitment and retention.
- ▶ Describe the challenges of an academic career that often involve the "triple threat."
- ▶ Discuss innovative ways to recruit and retain both full-time and part-time faculty.
- ▶ Develop an educational atmosphere required to recruit and retain faculty.

Oral Research Presentations

Oral Research Presentations V

Room: Williford A

Moderator: Harold E. Goodis, D.D.S.

Graduate Student Section

9 a.m.

A Comparison of the Quality and Safety of Root Canal Preparation Using Rotary Nickel-Titanium Systems

Manish Garala, B.D.S. (presenter)

S. Dorn, A. Fizschang, S. Kuttler, Nova Southeastern University

9:15 a.m.

Crown Down, Tip Design and Shaping

Nancy S-T Wang, D.D.S. (presenter)

T. Ponce De Leon Del Bello, J.B. Roane, University of Oklahoma

9:30 a.m.

Effect of Coronal Flaring on Working Length Change in Curved Canals Using Rotary Nickel-Titanium vs. Stainless Steel Instruments

Richard D. Davis, D.D.S. (presenter)

J.G. Marshall, J.C. Baumgartner, Oregon Health and Sciences University

9:45 a.m.

Efficacy of Irrigation With Rotary Instrumentation

Matthew J. Walters, D.D.S. (presenter)

J.C. Baumgartner, J.G. Marshall, Oregon Health and Sciences University

10 a.m.

An in Vivo Comparison of Two Frequency-Based Electronic Apex Locators

Aaron R. Welk, D.M.D. (presenter)

J.C. Baumgartner, J.G. Marshall, Oregon Health and Sciences University

10:15 a.m.

Apical Transportation Comparison: ProTaper vs. ProFile Series 29

Sinisa Firic, D.M.D. (presenter)

J. Tulcan, M.K. Iqbal, M. Yang, S. Kim, University of Pennsylvania

10:30 a.m.

A Comparison of Film Types and Image Densities in Endodontic Measurement

John C. Sheaffer, D.D.S. (presenter)

J.P. Scheetz, S.J. Clark, P.D. Eleazer, A.G. Farman, University of Louisville and University of Alabama

10:45 a.m.

Analysis of Post-Obturation Pain After Root Canal Therapy Using Ni-Ti Rotary Instrumentation and Continuous Wave Technique

Myoung K. Kim, D.M.D. (presenter)

H. Park, D.H. Nguyen, A.A. Johansson, M.K. Iqbal, S. Kim, University of Pennsylvania and Postgraduate Dental Education Center, Orebro, Sweden

11 a.m.

Quality of Life Outcome of Endodontic Treatment

Natalie N. Dugas, D.D.S. (presenter)

H.P. Lawrence, P. Teplitsky, M.J. Pharoah, S. Friedman, University of Toronto and University of Saskatchewan

11:15 a.m.

A Comparison of Laterally Condensed Gutta-Percha, Thermoplasticized Gutta-Percha and Mineral Trioxide Aggregate as Root Canal Filling Materials

Paul J. Vizgirda, D.D.S. (presenter)

F.R. Liewehr, W.R. Patton, J.C. McPherson, T.B. Buxton, U.S. Army Dental Activity, Ft. Gordon and Eisenhower Army Medical Center, Ft. Gordon

Oral Research Presentations VI

Room: Williford C

Moderator: Linda G. Levin, D.D.S., PhD.

Graduate Student Section

9 a.m.

Antimicrobial Effects of Fiber Delivered Ultraviolet Light on Endodontic Pathogens

David R. Steuer, D.D.S. (presenter)

R.R. White, P.P. Stashenko, Harvard School of Dental Medicine and Forsyth Institute, Boston

9:15 a.m.

Evaluation of Canal Cleanliness and Smear Layer Removal Utilizing the Quantec-E Irrigation System: An SEM Study

Jason D. John, D.D.S. (presenter)

M.L. Fayad, M. Bruzick, University of Illinois at Chicago

9:30 a.m.

An In Vitro Evaluation of the Root ZX[®] and Tri Auto-ZX[®] Handpiece Electronic Apex Locators

Krieger W. Brasseale, D.D.S. (presenter)

Indiana University

9:45 a.m.

An Evaluation of the Root Canal Centering Abilities of ProTaper and RaCe Ni-Ti Rotary Files and Flexofiles

Mohammad G. Elasaad, D.D.S. (presenter)

A.E. Isler, N.J. McDonald, University of Michigan

10 a.m.

Thermocouple Analysis of System B Pluggers

Christopher J. Cook, D.D.S. (presenter)

J. Scheetz, S.J. Clark, University of Louisville

10:15 a.m.

Tissue Reaction to Implanted Mineral Trioxide Aggregate or Portland Cement

Jacob Saidon, D.M.D. (presenter)

J. He, K. Safavi, L.S. Spångberg, University of Connecticut

10:30 a.m.

Effect of Root-End Filling Material on Cell Growth

Robert R. Haglund, Jr., D.D.S. (presenter)

J. Jarvis, Q. Zhu, University of Connecticut

10:45 a.m.

Effect of Root-End Filling Materials on Fibroblast Differentiation

Scott E. Bonson, D.D.S. (presenter)

B.G. Jeansonne, T. Lallier, Louisiana State University

11 a.m.

The Antimicrobial Efficacy of MGP Gutta-Percha

Andrew L. Shur, D.M.D. (presenter)

C.M. Sedgley, J.C. Fenno, University of Michigan

11:15 a.m.

Evaluation of the Wicking Behavior of Several Multifilament Sutures

Theodore R. Grigg, D.M.D. (presenter)

F.R. Liewehr, W.R. Patton, T.B. Buxton, J.C. McPherson, U.S. Army Dental Activity, Ft. Gordon and Eisenhower Army Medical Center, Ft. Gordon

11:30 a.m.

Thermal Testing of Full Coverage Restorations

Stuart O. Miller, D.D.S. (presenter)

J.D. Johnson, J.D. Allemang, J.M. Strother, Naval Postgraduate Dental School

11:45 a.m.

Anesthetic Efficacy of the Anterior Middle Superior Alveolar (AMSA) Nerve Block

Shelly L. Lee, D.D.S. (presenter)

A. Reader, J.M. Nusstein, M. Beck, J. Weaver, Ohio State University

Noon

Research and Analysis Capabilities of a Shared Endodontic Clinical Database

Garrett M. Guess, D.D.S. (presenter)

M.K. Iqbal, S. Kim, University of Pennsylvania

Oral Research Presentations VII

Room: Williford A

Moderator: Marc E. Levitan, D.D.S.

Graduate Student Section

2 p.m.

The Effect of Ethylene Glycol Analogs on Mechanical Properties of Moist, Demineralized Dentin Matrix

Terry E. Callison, D.D.S. (presenter)
D.H. Pashley, W.K. Lee, K.A. Agee, W.R. Patton,
F.A. Rueggeberg, U.S. Army Dental Activity, Ft. Gordon, Medical
College of Georgia and Chonbuk National University, Korea

2:15 p.m.

Effect of Intracanal Restorative Material on the Strength of Endodontically Treated Teeth

Stephen J. Langan, D.M.D. (presenter)
F.R. Liewehr, W.R. Patton, J.C. McPherson, R.R. Runner, U.S.
Army Dental Activity, Ft. Gordon and Eisenhower Army
Medical Center, Ft. Gordon

2:30 p.m.

Bond Strengths of Resin-Based Composite to Calcium Hydroxide-Treated Dentin

William C. Windley, III, D.D.S. (presenter)
A.V. Ritter, M. Trope, University of North Carolina

2:45 p.m.

The Effect of Different Visible Dental Curing Light Intensities on the Intrapulpal Temperature Rise in Intact and Prepared Premolars

Christoph I. Langer, D.D.S. (presenter)
F.A. Rueggeberg, F.R. Liewehr, W.R. Patton, U.S. Army Dental
Activity, Ft. Gordon and Medical College of Georgia

3 p.m.

A Comparative Analysis of Methods for Removing "Esthetic" Posts

Ronald C. Campbell, D.D.S. (presenter)
G.N. Glickman, S. Makins, S. Narendran, J. Powers,
J. Suchina, T. Svec, University of Texas at Houston and
University of Washington

3:15 p.m.

The Influence of Biofilms on Fluid Transport Measurements
(This session will not be recorded.)

Carlene Tsai, D.M.D., M.P.H. (presenter)
R.R. White, S. Socransky, Harvard School of Dental Medicine
and Forsyth Institute

3:30 p.m.

Histological, SEM and Immunohistochemical Assessment in Contemporary Vital Pulp Therapy

*Mercedes S. Dominguez, D.D.S. (presenter)
D.E. Witherspoon, J.L. Gutmann, L.A. Opperman, Baylor
College of Dentistry

3:45 p.m.

Patterns of Endodontic Care for a Washington State Population

Troy E. Hull, D.D.S. (presenter)
J.C. Steiner, M.A. del Aguila, P.B. Robertson, University of
Washington

Oral Research Presentations VIII

Room: Williford C

Moderator: Darrell W. Zenk, D.D.S., M.S.D.

Endodontist Section

2 p.m.

Smooth Flexible vs Active Tapered Shaft Design Using Ni-Ti Rotary Instruments

Lars Bergmans, D.D.S. (presenter)
J. Van Cleynenbreugel, M. Beullens, M. Wevers,
B. Van Meerbeek, P. Lambrechts
BIOMAT, Catholic University of Leuven, Belgium

2:15 p.m.

A Prospective Evaluation of Two Obturation Techniques Used in a Second-Year Dental Student Laboratory Course

Amir H. Mehrabi, D.D.S. (presenter)
V.T. Himel, University of Tennessee

2:30 p.m.

Chemical and Physical Properties of MTA, Portland Cement, and a New Experimental Material, Fast-Set MTA

Brock F. Deal, D.D.S. (presenter)
C.S. Wenckus, B.R. Johnson, M.I. Fayad, University of
Illinois at Chicago

2:45 p.m.

Hard Tissue Healing Following Fresh or Set MTA as Root-End Filling Material

Shahrokh Shabahang, D.D.S., M.S., Ph.D. (presenter)
E.S. Apaydin, M. Torabinejad, Loma Linda University

3 p.m.

Healing of Intact Interdental Papilla in Endodontic Surgery Following Papilla Base Incision

Peter Velvart, D.M.D. (presenter)
University of Basel, Switzerland

3:15 p.m.

Microcrack Formation on Resected Root Surfaces With Ultrasonics

Scott E. Risser, D.D.S., M.S.D. (presenter)
C.E. Brown, Indiana University

3:30 p.m.

Statistical Evaluation of the Apical Region of First Upper Molars

(This session will not be recorded.)
Benjamin M. Briseño, D.D.S. (presenter)
M. El-Sayed, B. Willershausen, University of Mainz, Germany

3:45 p.m.

Statistical Evaluation of the Apical Region of Lower Premolars

Brita Willershausen, D.D.S. (presenter)
M. El-Sayed, B. Briseño, University of Mainz, Germany

4 p.m.

Contemporary Endodontic Retreatments: An Analysis Based Upon Clinical Treatment Findings

Michael M. Hoen, D.D.S. (presenter)
F.E. Pink, University of Detroit Mercy

Poster Research Presentations

Northeast Hall

Endodontist Section (** Denotes Dental Student)

9 a.m. - noon

PR 23

In Vitro Evaluation of the Rubber Dam Leakage: Comparison of Five Different Techniques

Yi-Tai Jou, D.D.S., Philadelphia, Penn.

PR 24

Procedural Errors With the Use of Nickel-Titanium Rotary Instruments in Undergraduate Endodontics

Mary T. Pettiette, D.D.S., Chapel Hill, N.C.

PR 25

Evaluation of Canal Preparation With Ni-Ti Rotary Files by Micro-Computed Tomography

Jeong-Ho Lee, D.D.S., and Seung-Ho Baek, D.D.S., Seoul, Korea

PR 26

SEM Observation of Debris Distribution on the Surface of Endodontic Instruments: A New Quantitative Method

**Mr. Rand Russell, University of Maryland

PR 27

A Comparison of Shaping Ability of Four Nickel-Titanium Rotary Instruments in Simulated Root Canals

Sung-Kyo Kim, D.D.S., M.S.D., Ph.D., Daegu, Korea

PR 28

Radiographic Evaluation of Root Canal Multiplicity in the Mandibular First Premolar

Takatomo Yoshioka, D.D.S., Ph.D. and Chihiro Kobayashi, D.D.S., Ph.D., Tokyo, Japan

PR 29

C-Shaped Root Canals in Mandibular Second Molars in a Korean Population: Clinical and Experimental Study

Minseock Seo, D.D.S., Seoul, Korea

PR 30

Effectiveness of EZ-Fill Instrumentation, Modified Balanced Force and GT-Profile .04 Rotary Instrumentation Techniques

Augusto S. Kato, D.D.S., Sao Paulo, Brazil

PR 31

Apical Sealing Ability of the EZ-Fill Obturation Technique
Gin-Ichiro Hata, D.D.S., Osaka, Japan, and Noburu Imura, D.D.S., M.Sc., Sao Paulo, Brazil

PR 32

Comparative Evaluation of Gutta-Percha Removal Using the Optical Microscope for Dentistry

Carlos E.S. Bueno, D.D.S., M.S., Campinas, Brazil

PR 33

Comparison of Radiographic Density Between Lateral Condensation and Continuous Wave Condensation Methods

**Mr. Brandon K. Peterson, University of Iowa

PR 34

Substantive Antimicrobial Activity in Chlorhexidine-Treated Human Root Dentin

Bettina R. Basrani, D.D.S., Halifax, Nova Scotia

PR 35

Cytotoxicity and Antibacterial Property of a New Resin-Based Sealer

So-Young Park, D.D.S., and Sung Sam Lim, D.D.S., Seoul, Korea

PR 36

Film Thickness and Radiopacity of Four Endodontic Sealers
Giancarlo Pongione, D.D.S., Naples, Italy

PR 37

Biocompatibility of Two Newly-Developed Resin-Based Root Canal Sealers

Jee-Hyun Lee, D.D.S., and Kwang-Shik Bae, D.D.S., Ph.D., Seoul, Korea

PR 38

Micro Leakage and Fracture Resistance of Three Intraradicular Posts Using Three Types of Cements

Ricardo Caicedo, D.D.S., New Orleans, La., and Lourdes Amador, D.D.S., Bogota, Colombia

PR 39

The Effect of Three Commonly Used Endodontic Materials on the Strength of Root Dentin

Paul D. Eleazer, D.D.S., Birmingham, Ala., and
**Mr. J. Derek White, University of Alabama

PR 40

Effect of Dexamethasone on Periodontal Healing After Delayed Replantation of the Rat Tooth

Euiseong Kim, D.D.S., M.S.D., Seoul, Korea

PR 41

Periapical Lesions: A Radiographic, Histological and Histobacteriological Study

Elizeu A. Pascon, D.D.S., M.S.D., Toronto, Canada

PR 42

Histological Evaluation of Induced Acute Pulpal Inflammation on the Mandibular Nerve
James A. Wallace, D.D.S., M.D.S., Pittsburgh, Penn.

PR 43

Substance P Induces IL-8 and MCP-1 Production by Human Pulpal Cells
Tushar Patel, D.D.S., and George T.J. Huang, D.D.S., M.S.D., D.Sc., Los Angeles, Calif.

PR 44

Cytotoxicity of Propolis on PDL Cells and Pulp Fibroblasts
Dean Baugh, D.D.S., Pittsburgh, Penn.

PR 45

The Influence of Storage Conditions on the Viability of Periodontal Ligament Cell in Rat Tooth
Seong-Jong Lee, D.D.S., M.S., Seoul, Korea

PR 46

Adhesion of Streptococcus Mutans to Tooth Enamel After Vital-Bleaching Technique
Noriyasu Hosoya, D.M.D., Ph.D., Yokohama, Japan

PR 47

Effect of Intracoronary Bleaching on Microhardness of Human Dentin
Hui K. Chng, D.D.S., Singapore

PR 48

Replantation: New Concept, New Techniques in Endodontics
Wahid M. Elbahr, D.D.S., Pittsburgh, Penn.

Table Clinics

Northeast Hall Graduate Student Section 9 a.m. – noon

TC 5

Beware, Latex is Lurking!
Clifford T. Wong, D.D.S.
Case Western Reserve University

TC 6

Surgical Alveolar (Cortical) Trephination: Is It a Viable Option?
Anne E. Williamson, D.D.S.
University of Iowa

TC 7

Non-Surgical and Surgical Endodontic Treatment Considerations for the Patient With HIV
Kim A. Menhinick, D.D.S. and Tamara Gravely, D.M.D.
Baylor College of Dentistry

TC 8

What's Wrong With This Picture?
Richard W. Stevens, D.D.S. and Bernard H. Hofmann, D.D.S.
Naval Postgraduate Dental School

TC 9

Is It Completed or Not?
Claudia Moore, D.D.S. and Paul Weller, D.D.S.
University of Texas at Houston

TC 10

Is It Failing or Is It Actinomycosis?
Margaret Martin, D.D.S. and Zachary Schnoor, D.D.S.
University of Texas at Houston

TC 11

Diagnostic Confusion Due to Convergence, Sensitization and Anxiety
Gary D. Matt, D.D.S. and Saman Gharai, D.D.S.
Naval Postgraduate Dental School

TC 12

Cemental Tears: A Case Report
Nasreen S. Qader, D.D.S. and Lynn S. Brinker, D.M.D.
Naval Postgraduate Dental School

TC 13

Operating Microscope in Endodontic Diagnosis
Ming-Lung Yang, D.D.S.
University of Pennsylvania

TC 14

PCR: Amping Up Our Way of Life
Terry M. Crawford, D.M.D.
Case Western Reserve University

TC 15

Masseteric Space Diagnosis and Treatment
Joseph C. Mavec, D.D.S. and Robert B. Folk, D.D.S.
Naval Postgraduate Dental School

TC 16

In Vivo Comparison of Debris Removal Utilizing the Profile™ and K3™ File Systems
Sheila E. Stover, D.D.S.
Marquette University

TC 17

Controversies in Endodontic Treatment
Dzuy M. Nguyen, D.D.S. and Eric A. Vetter, D.D.S.
University of Washington

TC 18

Contemporary Parameters of Practice in Endodontic Programs
Emmanouil Sigalas, D.D.S. and Torsten Steinig, D.M.D.
Baylor College of Dentistry

TC 19

Re"form"ulating the Formed Cone Technique
Tony G. Bassili, D.M.D. and Ryan W. Wynne, D.D.S.
University of Washington

TC 20

Evaluation of Nickel-Titanium File Sharpness After Repeated Use
Michael S. Gideon, D.D.S., M.S.D.
Indiana University

TC 21

Post-Space Preparation: Conserving Tooth Structure to Minimize Fracture
Charles P. Kass, D.D.S. and Eleonora Bakiri, D.D.S.
University of Texas at Houston

TC 22

Veterinary Endodontic Therapy
Michael J. Mayerchak, D.M.D. and Douglas E. Thomas, D.D.S.
Wilford Hall U.S.A.F. Medical Center

TC 23

Relationship of the Radiographic Apex to the Apical Foramen in Human Teeth
James A. DeVengencie, D.D.S., M.S.
Marquette University

TC 24

Managing the Maxillary Sinus During Endodontic Microsurgery
Manor Haas, D.D.S.
Albert Einstein Medical Center

TC 25

Virtual Reality-Enhanced Assisting in Endodontic Microsurgery
Alex A. Parsi, D.D.S.
Albert Einstein Medical Center

TC 26

Decision-Making in Potential Endodontic Retreatment Cases
Michael S. Winick, D.D.S.
Albert Einstein Medical Center

TC 27

Detecting Occult Canals
Edward B. Noakes III, D.M.D.
Albert Einstein Medical Center

TC 28

Endodontic Implications of "Esthetic Posts"
Walter R. Long, D.M.D. and Sheri A. Opp, D.D.S.
University of Washington

TC 29

TACT Detection of MB2 Canals Compared With D and F Speed Radiographs
Daniel J. Barton, D.D.S.
University of Louisville

TC 30

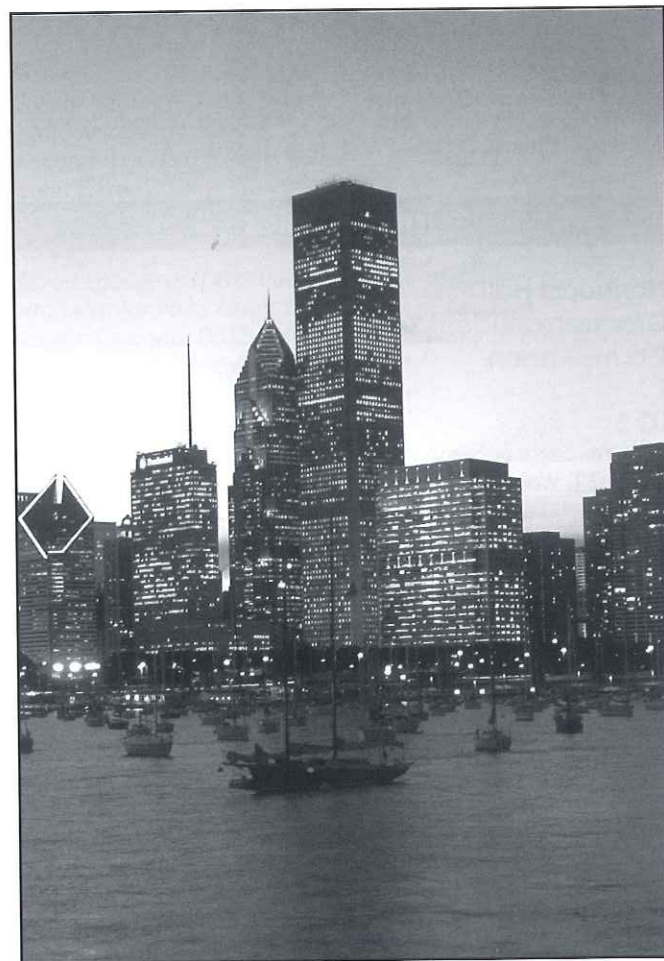
Method of Digital Photography Through an Operating Microscope
*Paul A. Shepherd, D.M.D.
University of Louisville

TC 31

Effect of Calcium Hydroxide as an Interim Post-Space Medicament
Reginald R. Westphal, D.D.S.
Marquette University

TC 32

A Novel Approach to Midroot Perforation Repair
Ali Behnia, D.M.D. and Mark L. Grosko, D.D.S.
University of Maryland



CCTB/Hillstrom

Principal Sessions

PS 300—Microsurgery

9 a.m. – noon, Continental B



SK

SIK

*Syngcuk Kim, D.D.S., Ph.D.

Samuel I. Kratchman, D.M.D.

Moderator: Harold E. Goodis, D.D.S.

Each participant should be able to describe the principles involved in endodontic microsurgery, which include the use of the microscope, patient positioning, soft tissue management, hemostasis, osteotomy, ultrasonic retropreparation, sinus infringement and mental nerve management, intentional replantation and retrofilling.

At conclusion, participants should be able to:

- ▶ Describe the differences between microsurgical techniques and nonmicrosurgical techniques.
- ▶ Describe the details of the appropriate microsurgical techniques, procedures and instruments.
- ▶ Describe the utility of the intentional replantation procedure as an integral part of surgical management of endodontically involved teeth.

PS 301—Bone Filling Materials

9 a.m. – noon, Continental C



GP

JR

*Gabriele Pecora, D.D.S.

*John Ricci, Ph.D.

Moderator: Mitchell H. Davich, D.M.D.

There are many clinical situations where guided bone regeneration (GBR) principles may be applied, through the use of bone fillers and membranes, to reliably and predictably regenerate bone. Many bone filler materials are available, and they have a wide range of properties, mechanisms of action, and advantages and disadvantages. Clinical evaluation, selection of materials, and optimal use of bone regenerating materials in endodontic cases will be discussed.

At conclusion, participants should be able to:

- ▶ Evaluate difficult endodontic cases with respect to the use of bone filling materials.
- ▶ Select bone filler materials based on their properties and the requirements of the clinical case.
- ▶ Optimally use bone fillers to achieve clinically consistent, cost-effective bone regeneration.

SATURDAY EDUCATIONAL SCHEDULE

9–11:30 a.m.	AUX 4— How to Collect for Control
	AUX 5— Patient Satisfaction Points
9 a.m.–noon	PS 300— Microsurgery
	PS 301— Bone Filling Materials
	PS 302— Advances in Instruments—What, When and Why

PS 302—Advances in Instruments—What, When and Why

9 a.m. – noon, International South



LSB

WBJ

JTM

ESS

JDW

*L. Stephen Buchanan, D.D.S.

*Wm. Ben Johnson, D.D.S.

*John T. McSpadden, D.D.S.

*E. Steve Senia, D.D.S., M.S., B.S.

*John D. West, D.D.S., M.S.D.

Moderator: Richard E. Walton, D.M.D., M.S.

L. Stephen Buchanan, D.D.S.

(This session will not be recorded.)

This presentation features Dr. Stephen Buchanan who will review the development process he has led since 1986 to create variably-tapered shaping files. Included will be safety and functional requirements for files needed to create these predefined shapes. Also described will be the imperative for system-based instrument design.

Dr. Buchanan will conclude by discussing instruments that will be introduced in the next year as well as the creative possibilities of file design in the next 15 years.

At conclusion, participants should be able to:

- ▶ Understand the conceptual legacies in endodontics—how we got to where we are—and where to expect credible new advances in endodontic technology.
- ▶ Understand present clinical imperatives to achieving consistent endodontic success—new tools that get there quicker, safer and easier.
- ▶ Understand the importance of creating predefined shapes in root canals and why smaller coronal shapes are a dramatic advancement in short- and long-term prognoses.

Wm. Ben Johnson, D.D.S.

Participants should understand that the classification of all rotary nickel-titanium instruments on the market today may be categorized into three types according to action: passive, active and semi-active. The clinical effectiveness and usage of these instruments will be demonstrated and discussed. The factors that lead to instrument separation are identified and discussed in detail. Attendees will learn how to decide which instruments to use in various clinical situations and why.

At conclusion, participants should be able to:

- ▶ Classify each nickel-titanium instrument available in the marketplace.
- ▶ Understand the factors that lead to instrument separation.
- ▶ Decide which instrument to use in each clinical situation and understand that these instruments are not exclusive of one another, but inclusive.

John T. McSpadden, D.D.S.

As increasing product introductions and voices of advocates confuse the endodontist, as products become obsolete before they can be thoroughly evaluated, and as more instrument descriptions and evaluations encompass only a small portion of the total functionality of instrumentation, the need for understanding the design principles of rotary instrumentation becomes imperative. The purpose of this presentation is to provide the principles necessary for understanding, evaluating and using these and future instruments to their greatest benefit.

At conclusion, participants should be able to:

- ▶ Recognize the risks and attributes of existing and future instruments independent of advocacy claims.
- ▶ Design the technique approach that is most appropriate for a particular tooth status and anatomy.
- ▶ Maximize canal preparation effectiveness and efficiency while minimizing risks.

E. Steve Senia, D.D.S., M.S., B.S.

Participants should understand: the design features of instruments and how these features can significantly impact instrumentation; how recent innovations have significantly reduced the number of instruments and procedural steps for instrumentation; and which design is best capable of instrumenting to apical sizes based on anatomical studies.

At conclusion, participants should be able to:

- ▶ Describe the benefits of unique instrument designs.
- ▶ Describe the research findings on apical canal diameter.
- ▶ Describe how an instrument design can contribute to three-dimensional cleaning.

John D. West, D.D.S., M.S.D.

When we are faced on Monday morning, not with the easy case, but with the curved and/or calcified case, what is the simplest, safest, and most efficient mechanical technology we can use to prepare reproducible radicular shapes that enable successful obturation? Yes, when "crooked or gnarly" type root canal systems peer at us first thing in the morning, knowing we can consistently achieve great results not only has biologic value but gives us, in return, deep personal and professional satisfaction.

At conclusion, participants should be able to:

- ▶ Understand the critical distinctions: efficient + effective = effortless.
- ▶ Appreciate the safety features and benefits of passive progressive shaping.
- ▶ Immediately apply progressively tapered technique skills to take your shaping and cleaning to a consistently higher level.

Auxiliary Sessions

AUX 4—How to Collect for Control

9 - 11:30 a.m., Northwest Hall 1

Jeff Staads

Moderator: Joseph P. McMenamen, D.M.D.

(This session will not be recorded.)



Each participant should be able to create an effective external and internal financial policy, collect more money at time of service and increase the bottom line by collecting from existing patients and not having to schedule more patients.

At conclusion, participants should be able to:

- ▶ Develop internal and external financial policies.
- ▶ Communicate financial expectations more effectively with patients.
- ▶ Shorten payment days out and increase the bottom line.

AUX 5—Patient Satisfaction Points

9 - 11:30 a.m., Northwest Hall 5

Deborah Odell, M.B.A.

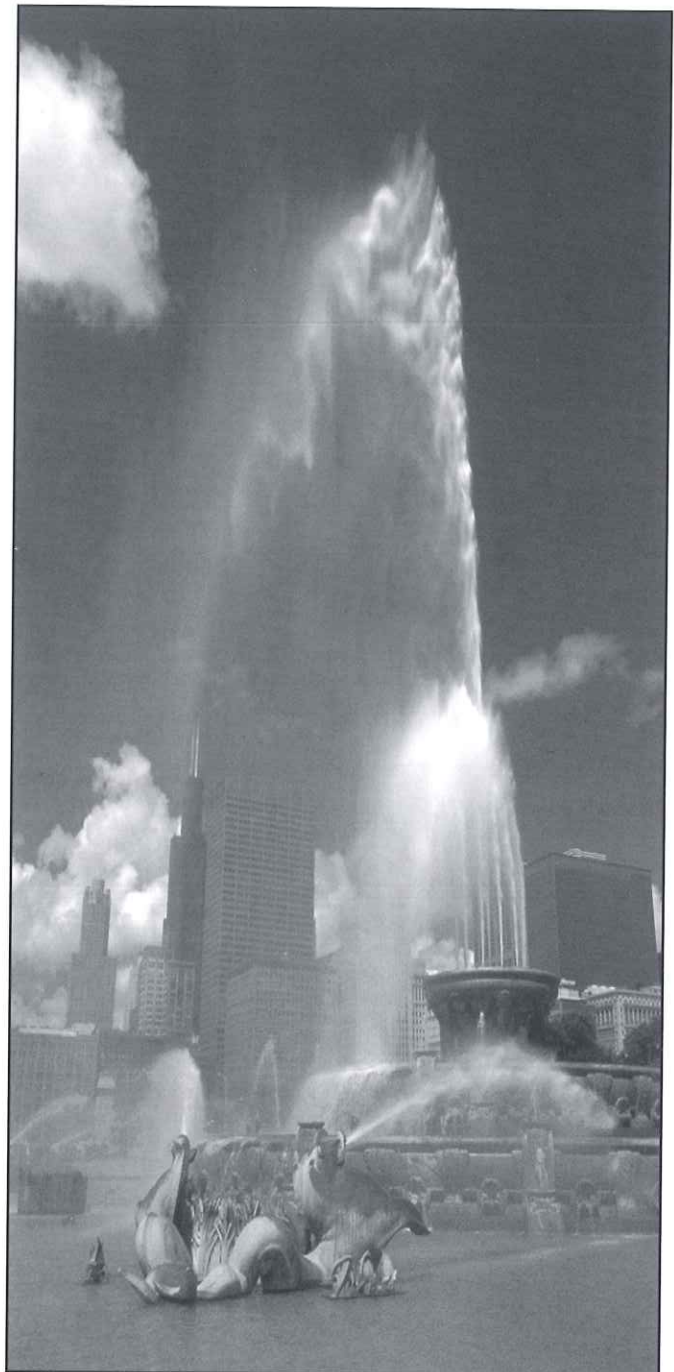
Moderator: Marc P. Gimbel, D.M.D.



Patient satisfaction is the number one tool offices can use to improve scheduling issues, collection problems and treatment acceptance. Participants will be able to identify various satisfaction points in the patient experience, improve the delivery of patient satisfaction and develop a “how to” action plan for improvement.

At conclusion, participants should be able to:

- ▶ Define patient satisfaction for your office.
- ▶ Identify and implement a patient satisfaction points (PSP) action plan.
- ▶ Measure the success of your PSP action plan.



CCTB/Palmisano

Exhibitors

	Booth #		Booth #		Booth #
A. Titan Instruments P.O. Box 930 Hamburg, NY 14075 716/648-9272	708	Dentsply Gendex 901 West Oakton St. Des Plaines, IL 60018 847/640-4800	403	Hartzell & Son, G. 2372 Stanwell Circle, P.O. Box 5988 Concord, CA 94520 925/798-2206	414
Aseplico, Inc. 8333-216th St., SE Woodinville, WA 98072 425/487-3157	720	Dentsply Maillefer 5001 East 68th St., 5th Floor Tulsa, OK 74136 918/878-0144	400	HealthFirst Corporation 22316 70th Ave. W., Unit A Mountlake Terrace, WA 98043 425/771-5733	603
ASI Medical, Inc. 14550 E. Easter Ave., Suite 700 Englewood, CO 80112 303/766-3646	1023	Dentsply Pharmaceutical 3427 Concord Road York, PA 17402 717/757-0227	302	High Q Dental 6302 E Aster Drive Scottsdale, AZ 85254 480/905-0664	510
Becker-Parkin Dental Supply Company 450 W. 33rd St. New York, NY 10001 212/216-0700	919	Dentsply Professional 901 West Oakton St. Des Plaines, IL 60018 800/800-2888	300	HPSC, Inc. 60 State St., 35th Floor Boston, MA 02109 800/225-2488	712
Bell Dental Products, LLC 3003 Arapahoe St., #101B Denver, CO 80205 303/292-2137	716	Dentsply Rinn 1212 Abbott Dr. Elgin, IL 60123 847/742-1115	401	Hu-Friedy Mfg. Co., Inc. 3232 N. Rockwell St. Chicago, IL 60618 773/975-6100	703
Benco Dental Company 360 N. Pennsylvania Ave. Wilkes-Barre, PA 18702 570/825-7781	710	Dentsply Tulsa 5001 East 68th St., 5th Floor Tulsa, OK 74136 918/493-6598	402	IntraVantage, Inc. 3500 Vicksburg Ln., #360 Plymouth, MN 55447 952/646-1674	1107
Bio-Lok International, Inc. 312 S. Military Trail Deerfield Beach, FL 33442 954/698-9998	213	Designs For Vision, Inc. 760 Koehler Ave. RonKonKoma, NY 11779 800/345-4009	500	J. Morita USA, Inc. 9 Mason Irvine, CA 92618 949/465-1012	1019
Bisco Dental Products 1100 West Irving Park Rd. Schaumburg, IL 60193 847/534-6000 Fax: 800/959-9550	714	Dexis Digital X-Ray 460 Seaport Court Redwood City, CA 94036 888/883-3947	214	Jedmed Instrument Company 5416 Jedmed Court St Louis, MO 63129 314/845-3770	719
Blackwell Munksgaard Osney Mead Oxford, United Kingdom OX20EL 44 1865 206 294	910	DiaDent Group International #11-3871 North Fraser Way Burbaby, B.C., CANADA V5J 5G6 604/451-8851	1011	Jordco, Inc. 595 NW 167th Ave. Beaverton, OR 97006 800/752-2812	514
Brasseler USA One Brasseler Blvd. Savannah, GA 31419 912/925-8525	301	Discus Dental Software 8550 Higuera St. Culver City, CA 90232 800/442-9448, ext 8357	819	Karl Storz Endoscopy America, Inc 600 Corporate Pointe Culver City, CA 90230 800/421-0837	1013
BRS Computing 420 Columbus Ave. Valhalla, NY 105095 866/937-4277	217	Dogbreath Software, Inc. 6440 Lusk Blvd., Suite D San Diego, CA 92121 858/558-3636	200	KaVo America Corp. 340 East Main St. Lake Zurich, IL 60047 800/323-8029	1105
CamSight Co., Inc. 1530 Beach St. Montebello, CA 90640 323/720-3100	1113	Easiman Kodak Company 343 State St. Rochester, NY 14650 800/933-8031	811	Kilgore International, Inc. 36 W. Pearl St. Coldwater, MI 49036 517/279-9000	504
Centrix Inc. 770 River Rd. Shelton, CT 06484 800/235-5862	313	Endo Technic P.O. Box 600341 San Diego, CA 92160 877/477-8899	412	Lexi-Comp Publishing 1100 Terex Rd. Hudson, OH 44236 330/650-6506	1018
Chige, R., Inc 4531 N. Dixie Hwy. Boca Raton, FL 33431 561/338-8866	601	Endoco, Inc. 5180 Park Avenue, Suite 160 Memphis, TN 38119 901/683-6677	506	LightSpeed Endodontics 403 E. Ramsey, Suite 205 San Antonio, TX 78216 210/495-4942	513
CK Dental Specialties, Inc. 1407 N. Batavia, Suite 110 Orange, CA 92867 714/639-6990	1123	Endodontic Practice Journal 524 Watford Way, Mill Hill London, United Kingdom NW7 4SY 011442089064003	718	Lippincott, Williams & Wilkins 530 Walnut St. Philadelphia, PA 19106 215/521-8423	815
Collene/Whaledent 750 Corporate Drive Mahwah, NJ 07430 201/512-8000	516	Endure Medical, Inc. 1490 Ventura Drive Cumming, GA 30040 770/888-3755	812	MBNA America, N.A. 1100 N. King, MS: 0176 Wilmington, DE 19884 302/432-1450	912
Denbur, Inc. 433 Plaza Drive, #4 Westmont, IL 60559 630/986-9667	1120	Global Surgical Corporation 3610 Tree Court Industrial Blvd. St Louis, MO 63122 800/767-8726	802/803	Medidenta Int'l 39-23 62nd St. Woodside, NY 11377 718/672-4670	204

Exhibitors

	Booth #		Booth #		Booth #
Meia Dental Corp. 41-19 77th St. Elmhurst, NY 11373 718/639-7460	711	Photomed International 14141 Covello St., #7-C Van Nuys, CA 91405 818/908-5369	709	Tampa Convention Bureau 400 North Tampa St., Suite 2800 Tampa, FL 33602 800/826-8358	911
Metalift Crown & Bridge Removal System 7855 Jefferson Hwy., Suite C Baton Rouge, LA 70809 225/928-0799	705	Planmeca, Inc. 1250 Greenbriar Ave., Suite A Addison, IL 60101 630/953-2368	1110	Tel-A-Patient 151 Kalmus, Suite K-1 Costa Mesa, CA 92626 714/428-0680	1014
Milestone Scientific, The Wand® 151 S. Pflugsten Rd., Unit D Deerfield, IL 60015 847/272-3207	512	PracticeWorks/SoffDent 1765 The Exchange Atlanta, GA 30339 678/589-8780	1117	Trelaar & Heisel, Inc 3132 Wilmington Rd. New Castle, PA 16105 800/345-6040	913
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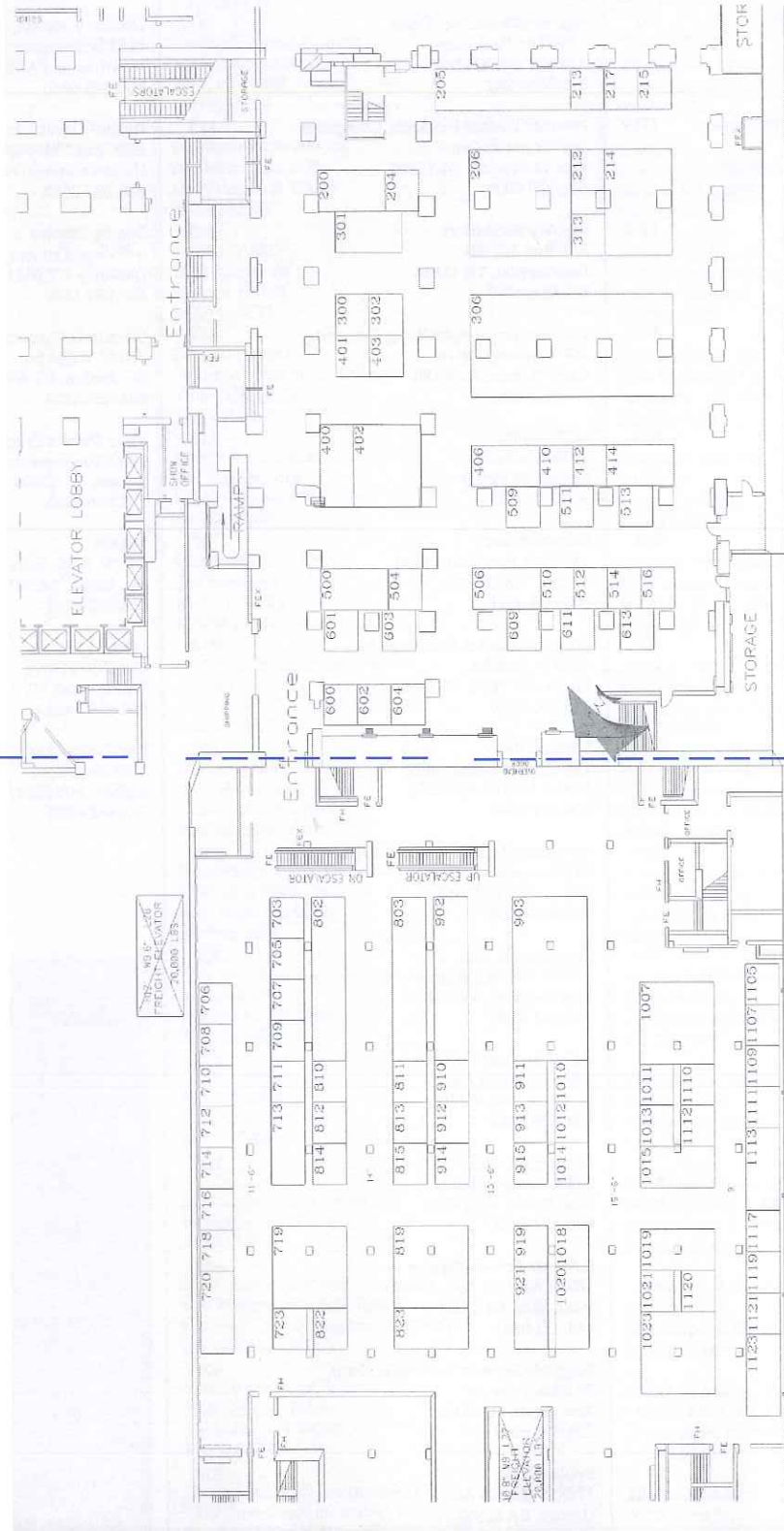
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Exhibit Hall Map

Exhibit Hall Schedule		
Thursday April 11 10 a.m. — 5 p.m.	Friday April 12 8 a.m. — 5 p.m.	Saturday April 13 8 a.m. — 1 p.m.

Southeast Hall

Southwest Hall



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*Harry J. Healey	'55-56	Herbert Schilder	'85-86
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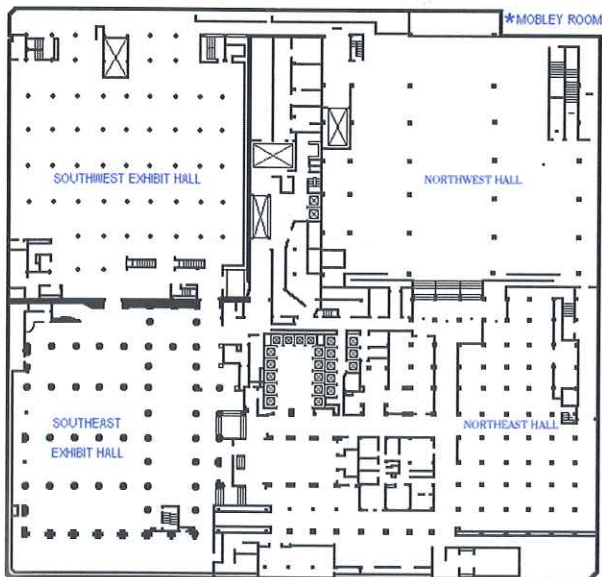
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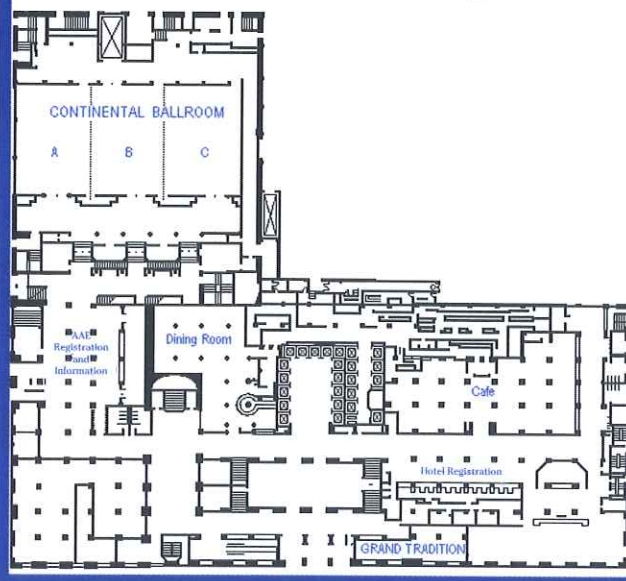
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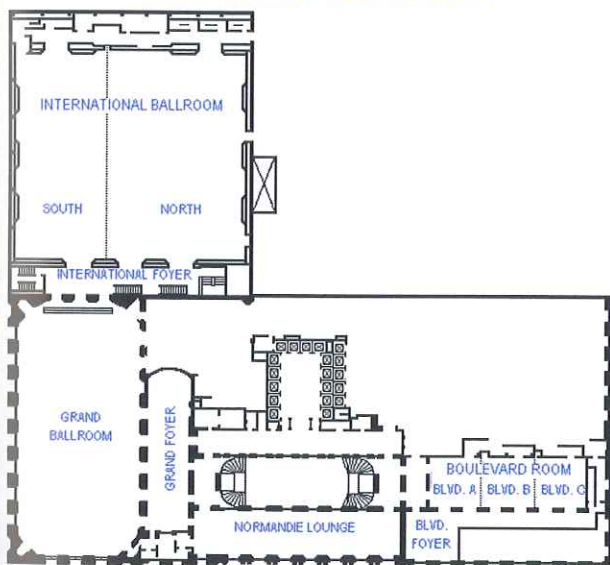
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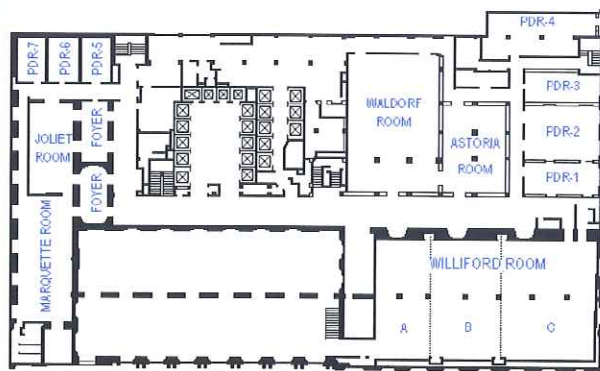
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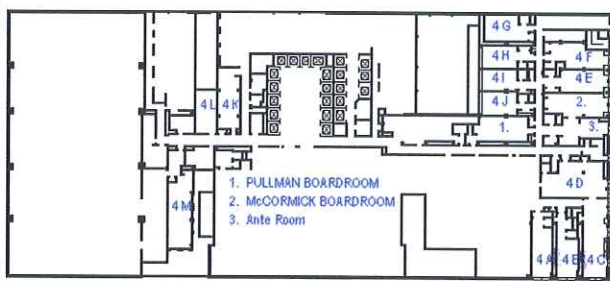
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