

MEETING OVERVIEW

MEETING SITE

The scientific sessions, registration, and the commercial exhibition will be held at the Hilton Anatole Hotel. The address is as follows:

Hilton Anatole Hotel
2201 Stemmons Freeway
Dallas, Texas 75207
Tel: +1-214-748-1200
FAX: +1-214-761-7520

REGISTRATION

The AADR Registration Area will be located in the Chantilly Ballroom Lobby located in the Tower section of the hotel. Registration will be open during the following hours:

Tuesday, April 1	2 p.m. – 5 p.m.
Wednesday, April 2	8 a.m. – 4:30 p.m.
Thursday, April 3	7:30 a.m. – 3:30 p.m.
Friday, April 4	7:30 a.m. – 3:30 p.m.
Saturday, April 5	8:30 a.m. – noon

ACCOMPANYING PERSON(S) (GUESTS)

Accompanying persons are adult non-dentists, non-researchers, non-IADR/AADR members who may be traveling to Dallas with a meeting delegate and have no scientific interest in the meeting. Meeting participants' students, lab technicians, colleagues, etc., do not qualify as accompanying persons and should pay the appropriate registration fee if they wish to attend the meeting.

If your accompanying person wishes to hear your presentation, he or she must go to the Meeting Services counter in the registration area on site, purchase a badge for \$45.00, and receive a special color-coded badge-holder. The badge will admit an accompanying person to one session only (morning or afternoon) and will not be honored at any other session during the meeting. Anyone who wishes to attend more than one session will be required to pay the appropriate full registrant fee. All accompanying persons may attend the Opening Ceremonies on Wednesday and the Plenary Sessions on Thursday and Friday mornings.

BADGES

Admission to all sessions and all other events during the Meeting will be by badge only. Please wear your badge at all times. Guest badges and special color codes for specific sessions will be available at the Meeting Services counter in the registration area, and guest badges are required for all social functions. If you lose your badge, you will be required to show your receipt to obtain a replacement badge.

CELL PHONES AND PAGERS

All cell phones and pagers must be turned OFF or set on "vibrate mode" during sessions.

PHOTOGRAPHS & TAPE RECORDINGS

Individuals desiring to take photographs or make tape recordings during the session must obtain prior permission from the speakers, as well as from the session chair.

PROGRAM AND ABSTRACTS

A Flash drive of abstracts, generously sponsored by Straumann, will be produced for the AADR meeting delegates (and *JDR* institutional subscribers). All meeting delegates will receive the Flash drive on site. Members not attending the meeting can purchase a copy after the meeting. The Program will be printed and distributed on site to all meeting delegates. If you need a replacement or extra copy, the fee is \$25.00 each.

The Program and abstracts are available online at <http://iadr.confex.com/iadr/2008dallas/techprogram/index.html>

LISTING OF PRESENTERS AND AUTHORS

The Program lists the primary presenter's name, co-author's name(s), and their institutions. Abstracts numbers of presenters are listed in the Author/Co-author Index in bold-face type. In cases of multiple authorship, the speaker is identified in the abstract by an asterisk (*) following his or her name in both the Program and Abstracts.

The number of each abstract printed in the Abstracts is the same as the corresponding paper in this book. Abstracts are printed exactly as submitted by the authors, without subsequent editing.

CHILD ACCESS TO SESSIONS

Children are allowed access to the exhibition hall ONLY during poster presentation/exhibition hours. Children are NOT allowed access to the oral session meeting rooms.

SMOKING POLICY

The AADR meeting is a non-smoking meeting. The Hilton Anatole is a 100% non-smoking hotel.

PARTICIPANTS WITH DISABILITIES OR SPECIAL NEEDS

If you have a disability or special need that may have an impact on your participation in the Annual Meeting, please contact the AADR Meetings Department either prior to the meeting or on site to discuss your requirements.

CONTINUING EDUCATION CREDITS

The IADR is an ADA CERP recognized provider. Delegates are eligible to receive continuing education credits for attending the scientific oral and poster sessions throughout the meeting. One hour of program time is equivalent to one credit hour. Delegates are responsible for completing the forms accurately and keeping their forms for auditing purposes. (Do NOT return the forms to the IADR/AADR.) For questions regarding CERP, please contact Janis Flemming, Senior Program Manager, at jflemming@iadr.org.



JOB OPPORTUNITY BULLETIN SERVICE (JOBS)

A Job Opportunity Bulletin Service, located in the registration area, is available to all registrants. Bulletin boards will be available to job recruiters to post job vacancies. If you would like to post an opening available at your university, private organization, and/or within the Government, please make sure that a contact name and address are listed on your sheet so that prospective candidates can contact you both on site and/or after the meeting.

PRESENTER'S NOTE

SPEAKER READY ROOM

The Speaker Ready Room is located in **Coral Room** (Tower section) at the Hilton Anatole Hotel and will be open during the following hours:

Tuesday, April 1	2 p.m. – 5 p.m.
Wednesday, April 2	8 a.m. – 4:30 p.m. (peak usage: Noon – 2 p.m.)
Thursday, April 3	7 a.m. – 4 p.m. (peak usage: 7 a.m. – noon)
Friday, April 4	7 a.m. – 2:30 p.m. (peak usage: 7 a.m. – noon)
Saturday, April 5	8:30 a.m. – 11 a.m.

To alleviate waiting for a computer station, you may wish to avoid peak times.

PRESENTER'S OBLIGATION

AADR regulations state that submission of an abstract carries with it the obligation of the author to present the paper in person. Requests to withdraw papers must have been made in writing BY THE PRESENTER (requests from anyone other than the presenter will not be honored) and submitted to the Central Office prior to the meeting. If a presenter finds it impossible to give the paper, the presenter must send written notification with an explanation and the name of a substitute presenter. The substitute should not already be presenting a paper on the program, and should be a co-author who is listed on the abstract. If an acceptable reason is not given, the presenter will not be allowed to submit a paper for the next General Session. **NOTE:** Lack of travel funds is not an acceptable reason to withdraw an abstract or delegate a substitute presenter.

IMPORTANT NOTE:

All oral presenters must check in at the Speaker Ready Room prior to their presentations. The room will be equipped with rehearsal computer stations for PowerPoint presenters. Any PowerPoint presenter who has not pre-submitted his/her presentation must bring it to the Speaker Ready Room (on CD-ROM or Flash drive) at least 24 hours prior to the presentation to have it uploaded onto the server.

HILTON ANATOLE HOTEL

MEETING ROOMS

All scientific sessions will be held in the Hilton Anatole Hotel. Please check the Schedule of Events for the location of specific meetings and functions. You are encouraged to find rooms in which you plan to present or hear presentations well in advance of the times of the functions.

MEETING ROOM LOCATOR

<u>Room Name</u>	<u>Section</u>	<u>Level</u>
Amethyst	Atrium	Lobby
Anatole Sculpture Park	Tower	Lobby (outside)
Batik	Atrium	Mezzanine
Cardinal	Atrium	Mezzanine
Chambers Lecture Hall	Atrium	Lobby
Chantilly Ballroom	Tower	Lobby
Cooper	Atrium	Lobby
Coral	Tower	Lobby
Dardenelles	Atrium	Mezzanine
Edelweiss	Atrium	Mezzanine
Emerald	Tower	Lobby
Fleur-de-Lis	Atrium	Mezzanine
Grand Ballroom (A-E)	Atrium	Lobby
Governors Lecture Hall	Tower	Lobby
Inverness	Atrium	Mezzanine
Jade	Atrium	Lobby
Khmer Pavilion	Atrium	3rd Level
Lalique	Atrium	Mezzanine
L'Entrecote	Atrium	Lobby
Library	Tower	Mezzanine
Madrid	Tower	Mezzanine
Manchester	Tower	Mezzanine
Metropolitan	Tower	Mezzanine
Milan	Tower	Mezzanine
Miro	Tower	Mezzanine
Monet	Tower	Mezzanine
Morocco	Tower	Mezzanine
Obelisk	Atrium	Mezzanine
Opal	Tower	Lobby
Peacock Terrace	Tower	Lobby
Peridot	Atrium	Mezzanine
Plum Blossom	Atrium	Lobby
President's Boardroom	Tower	27th Floor
Rosetta	Atrium	Mezzanine
Ruby	Tower	Lobby
Sapphire	Tower	Lobby
Senators Lecture Hall	Tower	Lobby
Stemmons Ballroom	Atrium	Lobby
Steuben	Atrium	Mezzanine
Topaz	Tower	Lobby
Travertine	Atrium	Mezzanine
Trinity I & II Exhibition Hall	Tower	Lobby (behind the park)
Wedgewood	Tower	Lobby
Wyeth	Atrium	Mezzanine

LUGGAGE STORAGE

Facilities for luggage storage will be available at the front desk of the hotel for the duration of the meeting. Please do not bring your luggage to the meeting rooms.

RESTAURANTS/BARS

There are nine (9) on-site restaurants and bars (in addition to room service) open during the AADR meeting (please check with the individual location or the concierge for the exact hours of operation).

<u>Atrium Section</u>	<u>Open For</u>
The Terrace	breakfast, lunch, and dinner
Common Ground	breakfast and lunch
La Esquina	lunch and dinner
Crocodile Disco Bar	drinks only in the evening
214 Bar	drinks only in the evening
<u>Tower Section</u>	
Gossip Bar	continental breakfast and evening sushi
Rathskeller Sports Bar	lunch and dinner
Nana Restaurant and Bar	dinner (5-star rating) plus nightly entertainment and dancing
<u>Verandah Club</u>	
Pool Bar	lunch (weather permitting)

VERANDAH CLUB & SPA

The Verandah Club & Spa is an upscale, 80,000-square-foot, private club located in the beautiful seven-acre Anatole Sculpture Park at the Hotel. The facility is open Monday through Friday from 5:30 a.m. to 9:30 p.m. and Saturday and Sunday from 7 a.m. to 8 p.m. There is a daily guest fee of \$15.00 (guests must be 17 years of age or older).

Verandah facilities include:

- cardio and strength training room
- 25-meter indoor lap pool
- outdoor play pool
- 1/4-mile secure outdoor track
- full-court basketball court
- tennis
- racquetball and squash courts
- aerobics classroom
- boxing gym
- spinning room
- sauna, steam, eucalyptus steam, and whirlpool
- complete locker rooms

Verandah services include:

- personal training
- exercise prescription
- group exercise classes
- massage therapy
- tennis lessons and clinics
- laundry and private lockers
- social events
- skin care treatments

FEATURED PRESENTATIONS

DISTINGUISHED LECTURE SERIES SPEAKERS

WEDNESDAY, APRIL 2; 11:00 A.M. – NOON

Location: Stemmons Ballroom (Atrium, Lobby Level)

Note: This program will immediately follow the Opening Ceremonies & Awards Program.



Jim Baker, Jr.

Michigan Nanotechnology Institute
for Medicine & Biological Science
Ann Arbor, Mich., USA

*Nanotechnology for the Enhancement
of Human Health*

The application of nanotechnology to the prevention and treatment of human diseases holds great promise, but faces huge hurdles. Nanomaterials must be biocompatible, non-toxic and functional in biologic (wet) conditions, and sufficiently well-defined to pass the scrutiny of regulatory agencies. Early applications of nanomaterials will likely involve the development of medications that take advantage of unique aspects of nanostructures to achieve or enhance therapeutic activity. Examples will be provided for the design, synthesis, and analysis of therapeutic nanomaterials where distinct kinds of attached molecules allow for unique therapeutic functions. These applications include antimicrobial compounds, drug and gene delivery, and functional imaging. Concepts of future nanotechnology applications—such as cellular engineering, human performance augmentation, and genetic manipulation for the treatment of human disease—will be addressed.

THURSDAY, APRIL 3; 11:30 A.M. – 12:15 P.M.

Location: Stemmons Ballroom (Atrium, Lobby Level)



Milton Packer

University of Texas, Southwestern Medical Center
Dallas, Texas, USA

*Engineering the Clinical Research Enterprise in a
Multi-institutional and Multidisciplinary Environment*

Modern clinical research is reaching well beyond the confines of traditional health care disciplines to incorporate multidisciplinary perspectives and, in the process, is reshaping approaches to disease and treatment. Yet creating a workable academic and community-based multi-institutional infrastructure to facilitate such perspectives is a great challenge. This session will present the view of the Medical Center in developing a modern clinical research enterprise that ensures a synergy created by cooperation and involvement across health care disciplines. A key question of such integration is: How do we effectively merge the interests and activities of those medical disciplines with long histories of high-level clinical research investigation with other health science fields, such as oral health, in which clinical research expertise and infrastructure are less-well-developed?

FRIDAY, APRIL 4; 11:30 A.M. – 12:15 P.M.

Location: Stemmons Ballroom (Atrium, Lobby Level)

Eric Olson

University of Texas,
Southwestern Medical Center
Dallas, Texas, USA



*Genetic Control of Heart Development
and Disease*

Heart formation involves a precisely orchestrated series of morphologic and molecular events that, if perturbed even subtly, can have catastrophic consequences. Many of the transcription factors that control heart development also regulate remodeling of the adult heart in response to injury and stress-signaling. Mechanistic dissection of the transcriptional circuits that regulate cardiac gene expression has opened opportunities for genetic and pharmacological modification of cardiac function. We have discovered several signal-responsive and cell-type-restricted transcriptional co-activators and co-repressors that control cardiac development and remodeling. For example, the myocardin family of co-activators stimulates the activity of SRF, and CAMTA co-activates Nkx2-5, whereas Class II histone deacetylases (HDACs) function as signal-dependent repressors of MEF2. The functions of co-activators and co-repressors, as well as the involvement of specific microRNAs, in the control of cardiac gene expression during development and disease will be discussed.

STUDENT & MENTOR PLENARY SESSION

THURSDAY, APRIL 3

Location: Stemmons Ballroom (Atrium, Lobby Level)

4 p.m. – 4:45 p.m. Program: Careers in Dental and Craniofacial Research: The Good, The Bad, and The Ugly—Mainly the Good!
4:45 p.m. – 5:15 p.m. Mentor “Meet & Greet” Reception

Panelists:

Mary MacDougall	University of Birmingham, Ala., USA
Marc Heft	University of Florida, Gainesville, USA
George Taylor	University of Michigan, Ann Arbor, USA

Three prominent researchers working in dental academe will outline their career paths and will discuss why they have made this their career choice. They will also outline why their careers have been so successful and what challenges, if any, they have met while climbing the academic ladder. Finally, they will discuss why they would advise a dental student to choose a research/teaching career in dental academe.

NIDCR National Institute of Dental and Craniofacial Research

ACTIVITIES

Celebrating NIDCR's 60th Anniversary

TUESDAY, APRIL 1

10:30 a.m. – noon NIDCR T32 Training Directors' Meeting
Location: Stemmons Ballroom, Section C

1 p.m. – 3 p.m. NIDCR Trainees' Poster Session
Location: L'Entrecote

3:30 p.m. – 4:30 p.m. NIDCR Director's Meeting with
Research Trainees and Junior Scientists
Location: Stemmons Ballroom, Section C

WEDNESDAY, APRIL 2

2 p.m. – 3 p.m. Enhancing Peer Review at NIH
Location: Emerald Room

NIDCR Director Lawrence Tabak has co-chaired a trans-NIH effort to examine the two-level NIH peer review system with the goal of optimizing its efficiency and effectiveness, and to ensure that the NIH will be able to continue to meet the needs of the research community and the public-at-large. The peer review study involves both external and internal working groups. Dr. Tabak will review the working groups' recommendations to the NIH Director and discuss potential actions.

3:15 p.m. – 4:45 p.m. Updating NIDCR's Strategic Plan
Location: Emerald Room

This session will give an opportunity for AADR attendees to provide input for the leadership of the NIDCR on the development of the Institute's next Strategic Plan (FY2009-2013). As the only Institute of the NIH devoted to dental, oral, and craniofacial research, the NIDCR has a distinguished record of supporting oral health research. Having a strategic plan that identifies the most promising opportunities for investment and that delineates the Institute's priorities is essential to achieving the NIDCR's mission of advancing oral health and well-being for all. The session will enable participants to suggest research priorities, offer input regarding directions for future research, and otherwise comment on how the NIDCR can most effectively achieve its mission. The input of AADR participants is vital to the development of a comprehensive strategic plan that reflects the wisdom and advice of the oral, dental, and craniofacial research communities.

THURSDAY, APRIL 3

8 a.m. – noon Hands-on Workshop:
Essentials in Grant Writing
Location: Morocco

This seminar teaches new investigators how to write a grant application, a subject that is missing from the educational backgrounds of most junior faculty members. The program content is appropriate for senior graduate students, post-doctoral research fellows, and non-tenure-track faculty members who aspire to the tenure track and have never written a successful grant application. The seminar is a modification of the advanced seminar, "Write Winning Grants". The difference is that the pace here is slower. For example, more time is allowed for questions and discussions, and more basic material is included (e.g., organizational structures of the major Federal funding agencies, how priority scores are calculated, what facilities and administrative costs are, how to analyze a critique in anticipation of resubmission, etc.). As would be expected, greater emphasis is given on how one starts to build an academic career, including how to write a career development award.

Another difference is that the last hour is devoted to questions and answers. For example: What should a trainee be thinking about with respect to proposal writing while still in training? When and how should a mentor be approached by a senior graduate student/post-doctoral research fellow who wants to take a project with him/her? How does a student gradually become independent of a mentor? Why do so many assistant professors fail to merit promotion and tenure?

9:45 a.m. – 11:45 a.m. NIDCR 60th Anniversary
Symposium: Looking Toward the Future
Location: Grand Ballroom E

As the NIDCR celebrates its 60th anniversary in 2008, it is a pleasure to recognize that a growing cadre of new scientists and professionals is emerging and making an impact in the oral health research community. This Symposium highlights this development by selecting five emerging scientists from this group. The Symposium has no unifying theme, but highlights oral health research and scientific inquiry over a broad field, from the basic sciences through translational research to the social and behavioral sciences. Each of these talented individuals has been, or is currently being, supported by one or more of the NIDCR's training and career development mechanisms.

FRIDAY, APRIL 4

8 a.m. – 10 a.m. NIDCR 60th Anniversary Symposium:
Dental Practice-based Research –
Practitioner-driven Evidence-based Dentistry
Location: Governors Lecture Hall

Practice-based research holds great potential for answering the questions that practitioners face daily in the routine care of their patients. This symposium will focus on the important aspects of the conduct of oral health research in a general dental practice. The Practitioners Engaged in Applied Research and Learning (PEARL), the Practice-based Research Collaborative in Evidence-based Dentistry (PRECEDENT), and the Dental Practice-Based Research Network (DPBRN) are NIDCR-funded dental Practice-Based Research Networks (PBRN) that conduct clinically relevant clinical research studies in practitioners' offices. The network directors and one dental practitioner-investigator from each Network will provide an overview of an active dental PBRN, using a network study to illustrate the tremendous potential and significant challenges involved in conducting networked research in general dental practices.

9:15 a.m. – 10:45 a.m. NIDCR Research Training & Career
Development Opportunities
Location: Obelisk Room

SATURDAY, APRIL 5

9 a.m. – 11 a.m. NIDCR 60th Anniversary Symposium:
Building on Our Strengths
Location: Grand Ballroom B

As the NIDCR celebrates its 60th anniversary in 2008, it is gratifying to acknowledge that many NIDCR-supported scientists have made highly significant and career-long contributions to the field of oral health research which have helped improve oral health conditions for Americans. The NIDCR proposes to celebrate the anniversary by highlighting four individuals who continue to make high-impact contributions to oral health research. The Symposium does not have a single unifying theme, but highlights four different and important fields of oral health research.

SYMPOSIA

All symposia will take place at the Hilton Anatole Hotel and are open for all to attend. Visit the AADR Web site or view the Flash drive for a description of each symposium.

WEDNESDAY, APRIL 2 1:30 P.M. – 3 P.M.

Challenges of Clinically Relevant Testing:

Advanced Methods on the Horizon

Organizer: Hockin Xu (ADA, Gaithersburg, Md., USA)
Sponsors: Dental Materials Group, ADA Standards Committee on Dental Products, NIST, and NIDCR
Seq #: 2, Governors Lecture Hall

Improving Oral Health and Promoting the Well-being of the Geriatric Population: Education Research Issues

Organizer: Helen Best (HEQ Consulting Ltd, London, UK)
Sponsors: Education Research and Geriatric Oral Research Groups
Seq #: 3, Monet Ballroom

New Insights into Tooth and Craniofacial Development

Organizer: Hitesh Kapadia (Baylor College of Dentistry, Dallas, Texas, USA)
Sponsors: Craniofacial Biology, Implantology Research, and Mineralized Tissue Groups
Seq #: 4, Grand Ballroom E

WEDNESDAY, APRIL 2 3:15 P.M. – 4:45 P.M.

Bone Augmentation Alternatives in the Craniofacial Skeleton

Organizer: Mohammed Elsalanty (Medical College of Georgia, Augusta, USA)
Sponsors: Craniofacial Biology and Implantology Research Groups
Supported by: Craniotech ACR Devices, LLC, and Medtronic, Inc.
Seq #: 5, Monet Ballroom

THURSDAY, APRIL 3 8 A.M. – 9:30 A.M.

Bisphosphonates & Osteonecrosis: Evidence from Population Research in the United States

Organizer: Athanasios Zavras (Harvard School of Dental Medicine, Boston, Mass., USA)
Sponsor: Behavioral, Epidemiologic & HSR Group
Seq #: 14, Monet Ballroom

Dental School Involvement in the Planning and Implementation of NIH Clinical and Translational Science Awards: We Are at the Table... What Do We Do Now?

Organizer: Paul Dechow (Baylor College of Dentistry, Dallas, Texas, USA)
Sponsor: Craniofacial Biology Group
Seq #: 15, Grand Ballroom E

Host Immunotherapeutic Approaches for the Treatment of Periodontal Diseases

Organizer: William Giannobile (University of Michigan, Ann Arbor, USA)
Sponsors: Periodontal Research and Microbiology/Immunology Groups
Seq #: 16, Governors Lecture Hall

THURSDAY, APRIL 3

9:45 A.M. – 11:15 A.M.

Advances in Imaging Hard Tissues in vivo

Organizer: Lynne Opperman (Baylor College of Dentistry, Dallas, Texas, USA)
Sponsors: Craniofacial Biology, Mineralized Tissue, and Implantology Research Groups
Seq #: 27, Governors Lecture Hall

Bisphosphonates & Osteonecrosis of the Jaw (ONJ)

Organizer: Sarandeep Huja (Ohio State University, Columbus, USA)
Sponsors: Craniofacial Biology and Implantology Research Groups
Seq #: 28, Monet Ballroom

THURSDAY, APRIL 3

9:45 A.M. – 11:45 A.M.

NIDCR's 60th Anniversary Symposium: Looking Toward the Future

Organizer: Henning Birkedal-Hansen (NIDCR, Bethesda, Md., USA)
Sponsored and Supported by: NIDCR
Seq #: 29, Grand Ballroom E

FRIDAY, APRIL 4

8 A.M. – 9:30 A.M.

Genomics & Oral Pathogen Research: Making the Connection

Organizers: Gary Xie and Thomas Brettin (Los Alamos National Laboratory, N.M., USA)
Sponsor: NIDCR
Seq #: 79, Monet Ballroom

TMJ Pain Mechanisms

Organizer: Phillip Kramer (Baylor College of Dentistry, Dallas, Texas, USA)
Sponsors: Craniofacial Biology and Neuroscience/TMJ Groups
Supported by: Baylor College of Dentistry and Texas A&M HSC
Seq #: 81, Grand Ballroom E

FRIDAY, APRIL 4

8 A.M. – 10 A.M.

NIDCR's 60th Anniversary Symposium: Dental Practice-based Research – Practitioner-driven Evidence-based Dentistry

Organizer: Henning Birkedal-Hansen (NIDCR, Bethesda, Md., USA)
Sponsored and Supported by: NIDCR
Seq #: 80, Governors Lecture Hall

FRIDAY, APRIL 4

9:45 A.M. – 11:15 A.M.

Bioactive and Caries-inhibiting Resin-based Materials

Organizer: Hockin Xu (ADA, Gaithersburg, Md., USA)
Sponsors: Dental Materials and Cariology Groups and Academy of Dental Materials
Seq #: 92, Monet Ballroom

Stem Cells at Work

Organizer: Brian Clarkson (University of Michigan, Ann Arbor, USA)
Sponsors: Mineralized Tissue and Pulp Biology & Regeneration Groups
Seq #: 93, Grand Ballroom E

SATURDAY, APRIL 5

9 A.M. – 10:30 A.M.

Local Anesthesia: New and Improved?

Organizer: Sharon Gordon (University of Maryland, Baltimore, USA)

Sponsors: Pharmacology, Toxicology & Therapeutics, and Dental Anesthesiology Research Groups

Supported by: Dentsply Pharmaceuticals and Novalar Pharmaceuticals, Inc.

Seq #: 140, Governors Lecture Hall

Mechanotransduction in Mineralized Tissues

Organizer: Lynda Bonewald (University of Missouri, Kansas City, USA)

Sponsors: Mineralized Tissue and Implantology Research Groups

Seq #: 141, Grand Ballroom E

SATURDAY, APRIL 5

9 A.M. – 11 A.M.

NIDCR's 60th Anniversary Symposium: Building on Our Strengths

Organizer: Henning Birkedal-Hansen (NIDCR, Bethesda, Md., USA)

Sponsored and Supported by: NIDCR

Seq #: 142, Grand Ballroom B

HANDS-ON WORKSHOPS

The workshops will take place at the Hilton Anatole Hotel. The workshops are complimentary; however, attendance is limited at workshops #1 and #3, and registrations were processed on a first-come, first-served basis. If you registered in advance, your ticket was included in your registration packet. Visit the AADR Web site or view the Flash drive for a description of each workshop.

HOW #1: *Essentials in Grant Writing*

Date/Time: Thursday, April 3, 8 a.m. – noon

Organizer: Kevin Hardwick (NIDCR, Bethesda, Md., USA)

Sponsor: NIDCR

Seq #: 25, Morocco Room

HOW #2: *Publishing Your Manuscript – A JDR Perspective*

Date/Time: Thursday, April 3, 9:45 a.m. – 11:15 a.m.

Organizer: Anthony Smith (University of Birmingham, UK)

Sponsor: *Journal of Dental Research*

Seq #: 26, Rosetta Room

HOW #3: *Oral Pathogen Sequence Analysis and Comparative Study*

Date/Time: Friday, April 4, 9:45 a.m. – 11:15 a.m.

Organizer: Gary Xie
(Los Alamos National Laboratory, N.M., USA)

Sponsor: NIDCR

Seq #: 91, Rosetta Room

KEYNOTE SPEAKERS

Each Scientific Group has been asked to select a keynote speaker to give an overview of research in that area of expertise. Delegates can benefit from these 30-minute presentations by getting an overall understanding of what is currently being done in other disciplines. Listed below are the speakers:

BEHAVIORAL, EPIDEMIOLOGIC & HEALTH SERVICES RESEARCH

Luisa Borrell (Columbia University, New York, N.Y., USA)

Race and Ethnicity as Social Determinants of Oral Health
Thursday, 8 a.m.

Seq # 17: Senators Lecture Hall

Disparities in oral health between racial and ethnic groups have been pervasive, persistent, and increasing over time in the US. The persistence of these findings over time begs us to question the repetition of findings documenting racial/ethnic disparities as an expected fact and to ask the question: What is it about race and ethnicity as social constructs that affect an individual's oral health in the US? First, race and ethnicity are proxies for an array of unmeasured exposures (i.e., racial discrimination, segregation, environmental exposure, unequal opportunities for social mobility, access to quality of care) in US society that may act directly or indirectly on oral health. Moreover, because racial/ethnic membership channels people to advantages or disadvantages according to their race/ethnicity, this membership determines the education that individuals receive in the US and, further, may influence their occupation and income. Race/ethnicity also influences social and physical characteristics of an individual's neighborhood of residence that may either promote oral health or cause it to deteriorate. This presentation aims to provide evidence of racial/ethnic disparities in oral health and discuss the potential causal pathways by which race/ethnicity affects oral health.

CARIOLOGY RESEARCH

Dominick Zero (Indiana University, Indianapolis)

Improvements in Clinical Diagnosis and Management of Caries
Thursday, 8 a.m.

Seq # 18: Miro Room

There is increasing interest in when and how we detect caries and the development of new technologies to assist in this process. Several clinical caries detection systems have been recently developed (International Caries Detection and Assessment System and the Nyvad Method) that include the early staging of caries and assessment of lesion activity. QLF and DIAGNOdent are examples of currently marketed technology-based quantitative methods of scoring early caries. Caries risk assessment tools have been developed, but past caries experience remains the best predictor of future caries. The recognition that dental caries can be arrested and possibly reversed if detected at an early stage is leading to renewed interest in innovative intervention strategies. There is considerable enthusiasm for the "medical model" approach of managing caries as an infectious disease; however, current intervention strategies are effective by containment of the disease

process and not by eliminating target micro-organisms, such as mutans streptococci. Toothbrushing as a means of delivering fluoride dentifrice, professionally applied fluoride (varnish), preventive and therapeutic use of dental sealants, and the chewing of sugar-free gum are the mainstays of caries prevention, with other remineralization strategies in need of further testing. While the traditional surgical approach still has its role, the possibility of conservatively managing coronal caries that has progressed into dentin is also being considered. The development of innovative approaches to meet the oral health needs of underserved populations remains a high priority.

DENTAL MATERIALS

Susanne Scherrer (University of Geneva, Switzerland)
Optimizing the Survival of Ceramic Prostheses: Lessons Learned from the Analysis of Clinical Failures

Wednesday, 3:15 p.m.

Seq #7: Grand Ballroom D

The fracture surface analysis of failed ceramic restorations by stereomicroscopy as well as SEM assists in the pattern recognition of markings that are indicators of the direction of crack propagation. Mapping these crack features of the failed component provides evidence of where the failure started and what can be done to improve the lifetime of these restorations. The dimensions of the critical flaw can also be used to calculate the stress at failure if the fracture toughness is known. Several examples of fractographic analysis of fractured clinical prostheses will be presented, which will focus on the use of fracture markings in the ceramic veneer (such as wake hackle and twist hackle) to track the fracture path back to its origin.

Anil Misra (University of Missouri, Kansas City, USA)
Adhesive Dentin Interfacial Characterization and Micromechanical Behavior

Thursday, 8 a.m.

Seq #19: Grand Ballroom D

The adhesive/dentin (a/d) interface is a complex multi-phase material system consisting of the adhesive layer, the hybrid layer, the uninfiltreated demineralized dentin or exposed collagen, the partially demineralized dentin, and the native dentin. Needless to say, microstructure and phase micromechanical properties have a profound effect on the mechanical behavior of a/d interfaces. This presentation focuses on understanding the micromechanical stress development at the interface through the use of finite element analysis (FEA). Such analysis is now feasible, given that it is possible to measure micromechanical properties non-destructively and characterize the microstructure/composition of the same specimen. Based upon the microstructure measurements, computational unit cells have been identified to model the representative geometry of the a/d interface. These unit cells reduce the computation requirements considerably and provide us with the ability to perform investigations of parameters that influence stress development and, consequently, to understand how the interfacial stress distribution potentially contributes to its premature breakdown.

Larry Watanabe (University of California, San Francisco, USA)
Status of Standardization: Adhesion Test Methods to Tooth Structure
Thursday, 9:45 a.m.

Seq #32: Grand Ballroom D

Standardization of a method to test adhesion to tooth structure continues to be difficult, as evident at these meetings and the many publications using this type of modality. The need for a common method is universally understood, but consensus remains elusive. This presentation describes the state of standardization efforts from both the US (American Dental Association; Subcommittee on Dental Products; Working Group I.1 "Adhesion Test Methods to Tooth Structure" [ADA; SCDP; WG I.1]) and international perspectives (International Standards Organization; Technical Committee 106 Dentistry; Working Group 11 "Adhesion Test Methods to Tooth Structure" [ISO; TC 106; WG 11]). The many steps involved in the evolution of a standard will be presented. This presentation will also include various components within the ADA's method that are relevant to other methods and the importance of these components to the outcome of this type of testing. For 22 years, the ADA; SCDP; WG I.1 has met in conjunction with the AADR Annual Meeting. The goal was to devise a simple, reliable, and reproducible test. Various test methods were discussed, and the 'Single Plane Shear Test Assembly' (SPSTA) was chosen for in-depth evaluation; ultimately it was accepted and submitted to the international body (ISO; TC; WG 11). It has been included in the TS-11405 document, which is a precursor to a standard. ISO; WG 11 is currently involved in "round robin" testing of 2 methods, one of which will become the method in ISO's standard. In conclusion, standardization of 'Bond Strength Testing to Tooth Structure' remains elusive. The path toward standardization has been long, with many obstacles overcome and some that remain. An ISO standard is actively being pursued, and the journey along this path has certainly been interesting. Knowledge learned in this process should lend insight into the current state of "Adhesion Test Methods to Tooth Structure".

John Wataha (Medical College of Georgia, Augusta, USA)
Biocompatibility of Dental Materials: a Confusing and Uncomfortable Science

Friday, 8 a.m.

Seq #84: Grand Ballroom D

Biocompatibility is a challenging endeavor from concept to implementation. A primary goal of this field is to measure the biological responses of tissues to materials to ensure material safety and efficacy. Concerns about ethics, money, and time have driven the development of *in vitro* models that attempt to substitute for animal or human clinical trials as predictors of clinical safety. In the last decade, more sophisticated cell-culture techniques have been melded with molecular biological techniques to improve *in vitro* models considerably. For example, we are now measuring molecular signaling changes induced by sublethal and trace levels of material degradation products. With this knowledge, current *in vitro* models mimic even specialized clinical environments far better than did their predecessors. Furthermore, we are now measuring subtle changes in cellular behavior that may have gone undetected a decade ago. These advances will help forge a better understand-

ing of the biological effects of materials, and may provide opportunities to harness these effects for therapeutic advantage. Yet, with the intellectual rewards of this molecular level of knowledge come skepticism and even hostility, as data from new *in vitro* models often catalyze controversy and debate. Knowledge of the effects of material behavior at the molecular level brings the need to verify the role of these effects clinically. It is this need to link our molecular understanding with clinical outcomes and safety that will drive biocompatibility research for the next decade.

William Brantley (Ohio State University, Columbus, USA)

Metallic Materials Used in Dentistry

Friday, 9:45 a.m.

Seq #96: Grand Ballroom D

Metallic materials have widespread uses for restorative dentistry, prosthodontics, orthodontics, and endodontics. This presentation will review the compositions, structures and properties, and performance of dental amalgams, gold casting alloys for all-metal restorations, noble and base metal casting alloys for metal-ceramic restorations, base metal casting alloys for removable prosthodontics, and base metal wrought alloys for implant dentistry, orthodontics, and endodontics. In addition to gold casting alloys, other major casting alloys in widespread clinical use are palladium-based, Ni-Cr and Co-Cr, and there is considerable interest in cast titanium and titanium alloys. The major wrought alloys are stainless steel, Co-Cr-Ni, beta-titanium, and nickel-titanium. The advantages and concerns for clinical usage of this wide range of metallic materials will be discussed, and exciting future directions will be described.

Frederick Rueggeberg (Medical College of Georgia, Augusta, USA)

The History of Photopolymerization Units in Dentistry

Saturday, 9 a.m.

Seq #146: Grand Ballroom D

This seminar will focus on the history of the development of light-curing units used to photo-activate resin-based restorative materials in dentistry. Coverage of the chemical reactions occurring, the mechanical components required, light sources utilized, physics underlying transferring light from the source to the target, and steps needed to protect the oral environment from biological damage will be covered. The seminar will provide a background of past and current technology, plus take a glimpse at what possibilities the future holds in the area.

IMPLANTOLOGY

Ichiro Nishimura (University of California, Los Angeles, USA)

Implantology – The State of the Art in 2008

Wednesday, 3:15 p.m.

Seq #8, Morocco Room

The current extremely high survival rates of implant fixtures have been achieved in a relatively selected patient population; thus, the treatment success for implant-associated prostheses may be different in a wider range of populations. The Institute of Medicine (the National Academy of Science) recently reported alarmingly high levels of vitamin D insufficiency in European and North American human populations over 60 years of age. The deficit in serum vitamin D not only results in secondary hyperparathy-

roidism, but also limits the effectiveness of the human innate immune response to repel bacterial challenge, effectively corral the adaptive immune response to that bacterial challenge, and dysregulate T helper cell (Th) cytokine synthesis. In a recent study in a rat model, vitamin D insufficiency showed significant inhibitory effects of osseointegration. It is possible, therefore, that unexpected failures of implant osseointegration may be accounted for, in part, by subclinical manifestation of vitamin D insufficiency. This presentation initiates a new discussion of systemic and genetic influences in implant dentistry.

MINERALIZED TISSUE

Andrew Lidral (University of Iowa, Iowa City, USA)

Using Human Genetic Approaches to Identify Genes for Common Diseases: Cleft Lip/Palate as a Model

Friday, 8 a.m.

Seq #87: Emerald Room

Finding genes that cause nonsyndromic cleft lip with or without cleft palate (CL/P) has been particularly difficult, because this condition is not inherited in a typical recessive, dominant, or X-linked manner, not everyone having a mutation in a CL/P gene has a cleft, and there are multiple genes involved such that not everyone with cleft lip has a mutation in the same gene. This latter fact complicates genetic approaches that look for regions of the genome that are shared between affected individuals. If there are multiple genes involved, some families would show increased sharing in one region, while other families would not. CL/P fits the description of a genetically complex trait similar to hypertension, asthma, or Alzheimer's disease. This presentation will describe the successful application of contemporary genetic strategies to identify a novel gene for CL/P. This was accomplished by a genome-wide scan for CL/P genes on over 600 families including over 4500 individuals. This identified a genetically large region on chromosome 9 that was significantly shared between affected members within families compared with what was statistically expected. A strategy that looks for sharing between individuals across families was used to evaluate a large number of genes in the chromosome 9 region, narrowing the critical region to only 3 genes. The expression patterns of these genes during lip formation was determined in mouse embryos, revealing that two genes, HEMGN and C9orf156, were not expressed in the facial regions, while FOXE1 was expressed in the fusion between the medial nasal and maxillary processes. Genetic variants within FOXE1 were found to be highly shared between affected individuals. Analysis of these data strongly suggests that FOXE1 is a novel gene for CL/P. This discovery provides invaluable insight about the etiology of a very common facial birth defect.

ORAL HEALTH RESEARCH

Sushma Nachnani (University Health Resources Group, Inc., Culver City, Calif., USA)

Assessment and Treatment of Oral Malodor

Thursday, 9:45 a.m.

Seq #37: Sapphire Room

The objective of this keynote presentation is to provide up-to-date information and insight into the oral and non-oral causes of

oral malodor (oral halitosis). The most recent findings on the etiology, diagnosis, and treatment of oral malodor will be discussed. The presentation will focus on innovative diagnostic techniques such as the nasal powers of dogs to assess odors, the use of the artificial mouth system for screening and treating halitosis, the identification of a novel bacterium (the Gram-positive anaerobe *Solobacterium moorei*) found in most people with oral malodor, and the application of novel fluorescence imaging to assess tongue bacteria.

PROSTHODONTICS

Takahiro Ogawa (University of California, Los Angeles, USA)
Technological Breakthroughs for More Biocompatible and Bioactive

Pre-prosthetic and Prosthetic Devices and Materials

Friday, 9:45 a.m.

Seq #102: Grand Ballroom A

We have acquired a full line-up of convenient dental products responding to the increasing and expanding demands of dental treatments. It may be time to revisit the biocompatible nature and possible improvement of dental biomaterials. Prosthetic treatment involves various types of biomaterials, ranging from dental implants, bone substitute materials, and collagen membranes/sponges for bone generation/healing as pre-prosthetic materials, to polymethacrylate and ethyl methacrylate resins as prosthetic ones. Recent studies have demonstrated that some of these materials are cytotoxic to a biologically significant degree, i.e., the exposure of the cells to materials results in cell death or significantly impaired cell function. Titanium loses osteoconductivity over time and the dental implant materials in circulation may not exert their maximum potential. This presentation will discuss: 1) the toxicity of these materials; 2) whether the potential toxicity can be diminished or removed; 3) whether the reduced cellular function caused by the toxicity of the materials can be restored and even enhanced; and 4) whether the recently found aging property of titanium can be prevented.

SALIVARY RESEARCH

Charles Streckfus (University of Texas HSC, Houston, USA)
Proteomic Procedures to Discover Biomarkers for Systemic Cancers

Friday, 8 a.m.

Seq #90: Topaz Room

A surge of new technological developments, coupled with the limitations of existing disease detection methodologies, is propelling the field of medical diagnostics forward at unprecedented rates. Advancements in proteomics and nanotechnology are paving the way for diagnostic tests that will be capable of rapid multi-analyte detection in both laboratory and non-laboratory settings. Technological advancements have also benefited biomarker research to the point where saliva is now recognized as an excellent diagnostic medium that can be collected simply and non-invasively. Salivary biomarkers have been identified that may provide diagnostic information about a variety of cancers and other diseases. The emphasis of this presentation will be to inform the audience regarding the recent advances in proteomic procedures to discover biomarkers for systemic cancers.

LUNCH & LEARNING

THURSDAY, APRIL 3, 12:15 PM – 1:30 PM

Location: Trinity Hall 2

During lunch, you may discuss topics of current interest with the researchers as identified below. There is a \$55.00 fee to attend to cover the cost of the lunch, and attendance is limited to 10 persons per table, including the speaker. Assignments were processed on a first-come, first-served basis. If you purchased your ticket in advance, your Lunch & Learning ticket was included in your registration packet. Space permitting, tickets may be sold on site. Visit the AADR Web site or view the Flash drive for a description of each table presentation.

Table #1) *Imaging for the Facial Region*

Speaker: Chung Kau (University of Texas HSC, Houston, USA)

Table #2) *ADA Professional Product Review Program*

Speaker: David Sarrett (Virginia Commonwealth University, Richmond, USA)

Table #3) *Development of Stress-bearing, Caries-inhibiting Dental Nanocomposites*

Speaker: Hockin Xu (ADA, Gaithersburg, Md., USA)

Table #4) *Practice-based Research: A New Model for Obtaining Clinical Evidence*

Speaker: Tom Hilton (Oregon Health & Science University, Portland, USA)

Table #5) *Rampant Caries Control Program: Management of High-caries-risk / High-caries-activity Patients*

Speaker: Sandra Guzmán-Armstrong (University of Iowa, Iowa City, USA)

Table #6) *Update on the Effect of Polishing on Resin Composites*

Speaker: Juliana da Costa (Oregon Health & Science University, Portland, USA)

Table #7) *The Evidence Base for the Use of Amorphous Calcium Phosphate in Geriatric and Special Needs Dentistry*

Speaker: Jane Chalmers (University of Iowa, Iowa City, USA)

Table #8) *Gene Polymorphisms and Implant Failure*

Speaker: Sergio Line (University of Campinas, São Paulo, Brazil)

Table #9) *Enamel Regeneration Utilizing Novel Bio-nanocomposite Approaches*

Speaker: Yuwei Fan (University of Southern California, Los Angeles, USA)

Table #10) *From Human Pulp Stem Cells to Tubular Dentin Formation in vitro: Prospects and Problems*

Speaker: William Whitson (Southern Illinois University, Alton, USA)

Table #11) *An Overview of the Hispanic Community Health Study (HCHS) – Study of Latinos (SOL)*

Speaker: Maria Teresa Canto (NIDCR, Bethesda, Md., USA)

SPECIAL EVENTS

NEW MEMBER ORIENTATION BREAKFAST

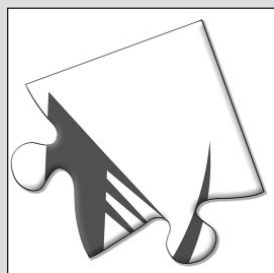
WEDNESDAY, APRIL 2, 8:30 A.M. – 9:30 A.M.

Location: Wyeth Room

All new members and first-timers at the Annual Meeting are invited to attend the breakfast. Graduate and post-doctoral students are also welcome to attend. If you are interested in becoming more involved in the Association or learning more about specific Groups or Divisions within the IADR/AADR, please join us.

OPENING CEREMONIES & AWARDS PROGRAM

WEDNESDAY, APRIL 2, 10 A.M. – 11 A.M.



The Opening Ceremonies will take place in the Stemmons Ballroom and will include presentations of the various AADR Awards and Fellowships and the President-elect Address by Brian Clarkson (University of Michigan, Ann Arbor, USA). **Discover the final piece of the puzzle at the Opening Ceremonies!** Join Presi-

dent Marc Heft as he speaks about the future of the AADR and how the AADR will help you move your research into action. For more information visit the Membership Pavilion in the Registration area. AADR staff and volunteers will be available to answer your questions.

AADR PAVILION

Be sure to visit the AADR Pavilion located in the registration area to visit the following booths:

AADR Identity: Pick up your conference bag and Flash drive of abstracts with the new AADR logo and learn all about the new positioning of the Association.

2009 Meeting – Miami Beach: Stop by for a preview of the General Session in Miami and learn all about the city and what you can expect to see.

Government Affairs: Interested in knowing how you can get involved? Stop by and view the "Legislative Action Center" Web site and speak to the staff on hand.

Membership: Interested in joining the Association? Pick up a membership form and join today.

WELCOME RECEPTION

WEDNESDAY, APRIL 2

All meeting participants are invited to the Welcome Reception in the Anatole Sculpture Park (located outside the doors by the Peacock Terrace on the lobby level) from 5 p.m. to 6:30 p.m. The reception is to honor the 60th Anniversary of the NIDCR. In case of inclement weather, the reception will be moved indoors to the Chantilly Ballroom.

3M ESPE HOSPITALITY & WiFi CENTERS

WEDNESDAY - SATURDAY, APRIL 2-5

3M ESPE will provide a Hospitality Center (cyber café) located in the Exhibit Hall, along with a WiFi Center located in the Gossip Bar, adjacent to the registration area. Computer stations will be set with Internet access for delegates to check their e-mail or "surf the Web" in the Exhibit Hall. Admission is free, and all meeting participants are invited to visit at their convenience and enjoy light refreshments. The Hospitality Center will be open during the poster viewing and exhibition hours, Thursday through Saturday. Bring your laptop to the WiFi center, and you can have free Internet access (if you have a wireless card in your computer), all day Wednesday through Saturday. Both cyber cafés are graciously sponsored by 3M ESPE.

GROUP BUSINESS MEETINGS & RECEPTIONS

Group	Business Meetings 5:15 p.m. – 6 p.m.	Receptions 6 p.m.
Behavioral, Epidemiologic & HSR	Thursday - Morocco Room	Thursday* - Fleur-de-Lis
Cariology Research	Thursday - Emerald Room	(no reception)
Craniofacial Biology	Thursday - Grand Ballroom B	Thursday - Grand Ballroom B Foyer
Dental Materials	Thursday - Sapphire	Thursday (starts at 6:30 p.m.) - Wedgewood
Diagnostic Sciences	Thursday - Topaz	(no reception)
Geriatric Oral Research	(no meeting)	Thursday* - Fleur-de-Lis
Mineralized Tissue	Thursday - Monet Ballroom	Thursday# - Steuben
Nutrition	Friday - Topaz	Thursday* - Fleur-de-Lis
Oral Health Research	Thursday - Miro Room	Thursday - Miro Foyer
Oral & Maxillofacial Surgery	Thursday - Metropolitan Ballroom	Thursday - Metropolitan Foyer
Oral Medicine & Pathology	Thursday - Grand Ballroom D	Thursday - Grand Ballroom D Foyer
Pharmacology, Toxicology & Therapeutics	Thursday - Governors Lecture Hall	(no reception)
Pulp Biology & Regeneration	Thursday - Rosetta	Thursday# - Steuben

* Joint Receptions

NOTE: Groups not listed are hosting the meetings/receptions at the IADR meeting in Toronto.

AADR NATIONAL STUDENT RESEARCH GROUP BUSINESS MEETING & RECEPTION

THURSDAY, APRIL 3

The AADR National Student Research Group (NSRG) will hold its business meeting on Thursday, April 3, at 5:15 pm in Grand Ballroom E. AADR and IADR student members and all student non-members are encouraged to attend, as are SRG faculty advisors. The business meeting will include presentation of numerous awards, including the 2008 DENTSPLY/Caulk Student Research Group Awards for the best student presentations at the 2008 Annual Meeting.

Later that evening, a reception will take place in the Khmer Pavilion (third level, Atrium), generously sponsored by DENTSPLY International, from 6 p.m. – 8 p.m. Both AADR and

IADR students are encouraged to attend. If you are unable to attend the business meeting and reception, be sure to stop by the NSRG Booth in the AADR Pavilion in the registration area to obtain information on becoming more involved in the Association.

DENTAL MATERIALS GROUP RECEPTION

THURSDAY, APRIL 3, 6:30 P.M. – 8:30 P.M.

Location: Wedgewood Room

The Dental Materials Group is hosting a reception for members, friends, and students. Tickets for the event are \$30 per person and will be sold on site on a space-available basis only. If you purchased a ticket and later need to cancel, a full refund is available if notification was received up to one month prior to the date of the event. Pre-purchased tickets are included in your registration packet.

POSTER COMPETITIONS

AADR/Johnson & Johnson Oral Health Products Hatton Awards Competition

TUESDAY, APRIL 1

7 a.m. – 7:45 a.m.	Poster Set-up
7:45 a.m. – 8:20 a.m.	Poster Viewing by Judges
8:20 a.m. – 11:40 a.m.	Presentations (closed-door competition)
11:45 a.m. – noon	Poster Tear-down

Junior Category – Location: Morocco Room

Board #	Time	Name
#1	8:20 a.m.	Frank Huff
#2	8:40 a.m.	Jessica Boehrs
#3	9 a.m.	Benjamin Barbetta
#4	9:20 a.m.	Erica Scheller
Break	9:40 a.m.	
#5	10 a.m.	Bo Wang
#6	10:20 a.m.	Joe Vela
#7	10:40 a.m.	Annie Chou
#8	11 a.m.	Sarah Azhar
#9	11:20 a.m.	Nicholas Bennetts
Completion	11:40 a.m.	Deliberations begin.

Senior Category – Location: Obelisk A Room

Board #	Time	Name
#1	8:20 a.m.	Julio Rodriguez
#2	8:40 a.m.	Xiuli Sun
#3	9 a.m.	Baichun Jiang
#4	9:20 a.m.	Yu Lei
Break	9:40 a.m.	
#5	10 a.m.	Chetan Patil
#6	10:20 a.m.	Anjalee Vacharaksa
#7	10:40 a.m.	Tao Peng
#8	11 a.m.	Lauren Turner
#9	11:20 a.m.	Sarah Pollan-White
Completion	11:40 a.m.	Deliberations begin.

Post-doctoral Category – Location: Obelisk B Room

Board #	Time	Name
#1	8:20 a.m.	Xiaojing Wang
#2	8:40 a.m.	Rene Olivares-Navarrete

#3	9 a.m.	Xiu-Ping Wang
#4	9:20 a.m.	Marlise Klein
Break	9:40 a.m.	
#5	10 a.m.	Ying Wang
#6	10:20 a.m.	Lei Chen
#7	10:40 a.m.	Nam Joo
#8	11 a.m.	Rodrigo Giacaman
#9	11:20 a.m.	Pui-yan Lee
Completion	11:40 a.m.	Deliberations begin.

AADR National Student Research Group DENTSPLY/Caulk Competition

THURSDAY, APRIL 3

8 a.m. – 8:30 a.m.	Poster Set-up
8:30 a.m. – 9 a.m.	Poster Viewing by Judges
9 a.m. – 11:40 a.m.	Presentations (closed-door competition)
11:45 a.m. – noon	Poster Tear-down

Basic Science Category – Location: Fleur-de-Lis A

Board #	Time	Name
#1	9 a.m.	Alpesh Patel
#2	9:20 a.m.	Beth Rainwater
#3	9:40 a.m.	Brandon Lloyd
#4	10 a.m.	Monet Ducksworth
Break	10:20 a.m.	
#5	10:40 a.m.	Jason Berk
#6	11 a.m.	Ren De Luna
#7	11:20 a.m.	Chi Viet
Completion	11:40 a.m.	Deliberations begin.

Clinical Science Category – Location: Fleur-de-Lis B

Board #	Time	Name
#1	9 a.m.	Suzanne Delima
#2	9:20 a.m.	Jody Chapman
#3	9:40 a.m.	Hareeti Gill
#4	10 a.m.	Ashley Gibbs
Break	10:20 a.m.	
#5	10:40 a.m.	Gail Garrett
#6	11 a.m.	Niyati Mehta
#7	11:20 a.m.	Jonathan Miller
Completion	11:40 a.m.	Deliberations begin.

CORPORATE SPONSORSHIP

The AADR is grateful to the following companies for their support of the AADR Annual Meeting:



P&G Professional Oral Health

AADR President's Induction Ceremony & Reception

High School Student Outreach Program

AADR William B. Clark Fellowship in Clinical Research



Hospitality & WiFi Centers



AADR Distinguished
Scientist Award



CAULK

AADR NSRG Competition



NSRG Reception



Past Editors', Executive Directors'
and AADR Past Presidents'
Luncheon

AADR Hatton Awards Competition



Flash drive of abstracts

Task Force on Design and Analysis, Inc.

Neal W. Chilton Fellowship

SYMPOSIA AND WORKSHOP

The AADR acknowledges the following companies and organizations for their support of symposia and workshops for this meeting:

Baylor College of Dentistry – in support of the *TMJ Pain Mechanisms* symposium.

Craniotech ACR Devices, LLC – in support of the *Bone Augmentation Alternatives in the Oral Cavity* symposium.

Dentsply Pharmaceuticals - in support of the *Local Anesthesia: New and Improved?* symposium.

Medtronic Inc. - in support of the *Bone Augmentation Alternatives in the Oral Cavity* symposium.

NIDCR – in support of the *Dental Practice-based Research – Practitioner-driven Evidence-based Dentistry* and the *Oral Pathogens Sequence Analysis and Comparative Study* symposia.

Novalar Pharmaceuticals, Inc. – in support of the *Local Anesthesia: New and Improved?* symposium.

Texas A&M Health Science Center - in support of the *TMJ Pain Mechanisms* symposium.

AWARDS AND FELLOWSHIPS

The Awards and Fellowships of the Association provide recognition of and support for individuals who have made significant contributions to dental research.

AADR Distinguished Scientist Award: This award is made to recognize and honor outstanding research of particular significance in any of the fields related to oral science. The award is supported by GlaxoSmithKline and is presented every two years.

AADR Student Research Group DENTSPLY/Caulk Competition: This competition is run entirely by the AADR Student Research Group and is generously supported by the L.D. Caulk Division of DENTSPLY International. First-, second-, and third-place winners are selected in two categories: Basic Science and Clinical Science.

AADR/Johnson & Johnson Oral Health Products Hatton Awards Competition: The winners of the AADR competition will compete in the IADR/Unilever Hatton Awards Competition in Toronto, ON, Canada, on Tuesday, July 1, 2008. The awards are supported annually by Johnson & Johnson Oral Health Products.

AADR William B. Clark Fellowship in Clinical Research: This award was established in memory of William B. Clark and is supported by the Crest Oral-B, P&G Professional Oral Health. The award recognizes investigators carrying out clinical research in periodontology.

IADR/AADR William J. Gies Award: This annual award recognizes the best papers published in the Journal of Dental Research for the period of July 1 through June 30 preceding the IADR General Session. One paper is selected in each category: Clinical, Biological, and Biomaterials & Bioengineering. The award is sponsored by J. Morita Corporation.

AADR Neal W. Chilton Fellowship: This annual Fellowship has been established in memory of Neal W. Chilton, the late Executive Director of the Task Force on Design and Analysis in Dental and Oral Research, a clinician and statistician who made major contributions to the advancement of clinical research in dentistry, and is funded by a generous donation from the Task Force on Design and Analysis in Dental and Oral Research. The purpose of this Fellowship is to enable dental clinical faculty to obtain training in clinical research.

AADR STUDENT RESEARCH FELLOWSHIPS

The AADR is grateful to the following companies and organizations that provided funding for the 2008 Fellowships (number of fellowships supported appears in parentheses):

3M ESPE Dental Products (1)
American Academy of Periodontology (1)
The ADA Foundation (2)
Colgate-Palmolive Company (1)
Crest Oral-B, P&G Professional Oral Health (2)
DENTSPLY International (2)
GlaxoSmithKline (2)
Johnson & Johnson Oral Health Products (3)
Sunstar Americas, Inc. (3)

The following AADR Sections and Group Chapters have donated or pledged to support a 2008 Fellowship (at the time of publication):

Sections:

Dallas
Georgia
Houston
Iowa
Indiana

Scientific Group Chapters:

Dental Materials
Geriatric Oral Research
Implantology
Microbiology/Immunology
Mineralized Tissue
Nutrition
Pharmacology/Therapeutics/Toxicology

AADR STUDENT FELLOWSHIP WINNERS PRESENTING AT THE 2008 MEETING

<u>2006 Winners</u>	<u>Institution</u>	<u>P#</u>
Alexander Campagna	State University of New York	151
Andrea Keith	Baylor College of Dentistry	601
Steven Obreiter	University of Michigan	434
Justin Wright	University of Texas HSC – Houston	429

<u>2007 Winners</u>	<u>Institution</u>	<u>P#</u>
Jessica Boehrs	University of Iowa	157
Brandon Burke	University of North Carolina – Chapel Hill	445
Adam Chorak	University of North Carolina – Chapel Hill	494
Jeffrey Kim	University of California – Los Angeles	770
Jamie Luria	University of Michigan	284
Melissa Talbert	University of Alabama – Birmingham	273
Joseph Tesene	University of Iowa	559
Chi Viet	University of California – San Francisco	635

ACKNOWLEDGMENTS

We thank the following individuals for their time and energy in finalizing the program for the 2008 Annual Meeting:

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