

▲ MEETING OVERVIEW ▲

MEETING SITE

The scientific sessions, registration, and the commercial exhibition will be held at the Metro Toronto Convention Centre, located at

255 Front Street West
Toronto, Ontario, Canada M5V 2W6

REGISTRATION

The IADR Registration Area will be located on Level 600 in the South Building of the Convention Centre. Registration will be open during the following hours:

Tuesday, July 1	12:30 p.m. – 4:30 p.m.
Wednesday, July 2	8 a.m. – 4:30 p.m.
Thursday, July 3	7:30 a.m. – 5 p.m.
Friday, July 4	7:30 a.m. – 4:30 p.m.
Saturday, July 5	8 a.m. – 3 p.m.

ACCOMPANYING PERSON(S) (GUESTS)

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

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 and Welcome Reception 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, AND PODCASTING

Photography, tape recordings, or the conducting of podcasts is not permitted without prior approval from the IADR Central Office. If permission is granted, then permission from the speakers, as well as from the session chair, must also be obtained.

PROGRAM AND ABSTRACTS

A CD-ROM of abstracts, generously sponsored by Straumann, will be produced for the IADR meeting delegates (and *JDR* institutional subscribers). Pre-registered meeting delegates received the CD-ROM in advance of the meeting in the mail, and all remaining delegates can pick up their copy 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/2008Toronto/techprogram/index.html>

LISTING OF PRESENTERS AND AUTHORS

The Program lists the primary presenter's name, co-author's name(s), and their institutions. Abstract 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. Authors are not allowed to reference their abstract if the presentation was withdrawn or cancelled.

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. If you need day care assistance, please contact your assigned hotel to assist with making the necessary arrangements.

SMOKING POLICY

The IADR meeting is a non-smoking meeting. All public areas in Toronto are also smoke-free.

PARTICIPANTS WITH DISABILITIES OR SPECIAL NEEDS

If you have a disability or special need that may have an impact on your participation in the General Session, please contact the IADR 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.) 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.

IADR GOING GREEN

As part of planning for future events, the IADR is currently making environmental considerations that can make a significant difference in the amount of food, paper, and packaging waste generated. In an effort to support this green initiative at the IADR, we are pleased to inform you that the Metro Toronto Convention Centre—with its green roof, deep lake water-cooling system, and comprehensive recycling program—is a signature host of environmentally friendly events. We believe that it is our duty to act as responsible global citizens to support local sustainability and reduce, re-use, and recycle whenever possible. Many thanks to our delegates and partners, who share this common vision and work with us to support it.

METRO TORONTO CONVENTION CENTRE MEETING ROOMS

All scientific sessions will be held in the Metro Toronto Convention Centre. 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.

COAT CHECK/LUGGAGE STORAGE

Facilities for coat check and luggage storage will be available at the Convention Centre in the registration area for the duration of the meeting. Please do not bring your luggage to the meeting rooms.

PRESENTER'S NOTE

SPEAKER READY ROOM

The Speaker Ready Room is located in **Room 714B** at the Convention Centre and will be open during the following hours:

Tuesday, July 1	12:30 p.m. – 4:30 p.m.
Wednesday, July 2	8 a.m. – 4:30 p.m. (<i>peak usage: noon – 2 p.m.</i>)
Thursday, July 3	7:30 a.m. – 3:30 p.m. (<i>peak usage: 7 a.m. – noon</i>)
Friday, July 4	7:30 a.m. – 3:30 p.m. (<i>peak usage: 7 a.m. – noon</i>)
Saturday, July 5	8:30 a.m. – 12:30 p.m.

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

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 presenters. Any presenter who has not pre-submitted his/her presentation must bring it to the Speaker Ready Room (on CD-ROM or USB drive) at least **24 hours** prior to the presentation to have it uploaded onto the server.

PRESENTER'S OBLIGATION

IADR 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.

FEATURED PRESENTATIONS

DISTINGUISHED LECTURE SERIES SPEAKERS

On Thursday and Friday mornings, the meeting will begin with a plenary session designed to interest delegates from all Scientific Groups. Join us for complimentary coffee and continental breakfast prior to the plenary session.

THURSDAY, JULY 3, 8 A.M. – 8:45 A.M.

W.J. Gies Distinguished Speaker

Location: Room 808, Convention Centre



Eric Meslin
Indiana University Center for Bioethics
Indianapolis, Indiana, USA

Can Ethics Be Both Local and Global? Current Challenges in Conducting International Health Research

Health research is now a global activity,

with studies carried out on every continent, involving thousands of human beings, diverse sponsors and partners, and varied oversight mechanisms for ensuring ethical integrity. This presentation will describe how these issues influence international research today.

The event is generously sponsored by
Quintessence Publishing.



FRIDAY, JULY 4, 8 A.M. – 8:45 A.M.

Location: Room 808, Convention Centre



B. Brett Finlay
Biotechnology Laboratory
University of British Columbia
Vancouver, BC, Canada

The Unholy Trinity of Infectious Diseases: Role of the Pathogen, Host, and Microbiota

Pathogenic *E. coli* cause much morbidity and mortality worldwide. Two types of *E. coli* (enteropathogenic *E. coli* [EPEC] and enterohemorrhagic *E. coli* [EHEC, or O157]) cause severe diarrhea, with EHEC also causing hemolytic uremic syndrome in a subset of cases. These pathogens subvert host epithelial cells, exploiting cytoskeletal processes to build a cellular protrusion (pedestal) on the cell surface, and subverting various innate immune pathways. The host response also plays a critical role in disease development, and we have been exploiting a murine infection model to study host contribution to disease. Finally, we have begun to examine the impact of diarrheal disease and inflammation on the normal microbiota during infection. Collectively, these three components contribute to disease, and only by studying all three does one fully understand the molecular complexity of bacterial disease.

SYMPOSIA

All symposia will take place at the Metro Toronto Convention Centre and are open for all to attend. Visit the IADR Web site or view the CD-ROM for a description of each symposium.

WEDNESDAY, JULY 2 1:45 P.M. – 3:45 P.M.

NIDCR's 60th Anniversary Symposium: Contributions of Canadian Pain Research

Sponsored and Supported by: NIDCR

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

Seq #: 2, Room 701A

WEDNESDAY, JULY 2 2:15 P.M. – 3:45 P.M.

Knowledge Translation: How to Get Your Research to the People to Whom it Matters Most

Sponsors: Evidence-based Dentistry Network, Behavioral, Epidemiologic & HSR, Periodontal Research, Cariology, and Prosthodontics Groups

Organizer: Debora Matthews (Dalhousie University, Halifax, NS, Canada)

Seq #: 4, Room 718A

Zirconia-based Restorations: Successes, Failures, and Clinical Recommendations

Sponsor: Dental Materials Group

Supported by: Ivoclar Vivident

Organizer: Sibel Antonson (Ivoclar Vivident, Amherst, NY, USA) & Huakun Xu (ADA, Gaithersburg, Md., USA)

Seq #: 5, Room 718B

THURSDAY, JULY 3 9 A.M. – 10:30 A.M.

Glass-ionomer Cements – Current and Future Performance

Sponsors: Dental Materials and Cariology Groups and Elsevier Science and the Academy of Dental Materials.

Organizer: Martin Tyas (University of Melbourne, Australia) and Huakun Xu (ADA, Gaithersburg, Md., USA)

Seq #: 24, Room 718B

Periodontal Therapy and Systemic Health Outcomes—What Have We Learned from Intervention Trials?

Sponsor: Periodontal Research Group

Organizer: Panos Papapanou (Columbia University, New York, NY, USA)

Seq #: 25, Room 718A

Strategic Research Training Initiatives, International Perspectives

Sponsors: Education Research Group and Evidence-based Dentistry Network

Organizer: Richard Ellen (University of Toronto, ON, Canada)

Seq #: 26, Room 701A

THURSDAY, JULY 3 10:45 A.M. – 12:15 P.M.

Biom mineralization Explained? Proteins as Regulators of Crystal Formation in Physiology and Pathology

Sponsors: Mineralized Tissue and Dental Materials Groups
Supported by: Institute of Musculoskeletal Health and Arthritis and the Canadian Arthritis Network

Organizer: Graeme Hunter (University of Western Ontario, London, Canada)

Seq #: 46, Room 718A

Health Behavior Change in Oral Health Research: Use of Motivational Interviewing

Sponsors: Oral Health Research and Behavioral, Epidemiologic & HSR Groups

Supported by: Crest Oral-B, P&G Professional Oral Health
Organizer: MaryAnn Cugini (Forsyth Institute, Boston, Mass., USA)
Seq #: 47, Room 701A

Osteoimmunology and Host Defense in the Periodontium

Sponsors: Periodontal Research and Microbiology/Immunology Groups

Organizer: Jack Caton (University of Rochester, NY, USA)

Seq #: 48, Room 718B

FRIDAY, JULY 4 9 A.M. – 10:30 A.M.

Biomechanical Response and Control at the Bone-Biomaterial Interface

Sponsored and Supported by: Prosthodontics, Implantology Research, and Oral & Maxillofacial Surgery Groups and the Japan Prosthodontic Society

Organizer: Keiichi Sasaki (Tohoku University, Sendai, Japan)

Seq #: 137, Room 718B

Designing Dental Programs for High-risk Children

Sponsors: Cariology, Oral Health Research, and Behavioral, Epidemiologic & HSR Groups

Supported by: Ontario Dental Association

Organizer: Stephen Abrams (Ontario Dental Association, Toronto, Canada)

Seq #: 138, Room 718A

Zebrafish as a Model for Craniofacial and Tooth Development and Regeneration

Sponsor: Craniofacial Biology Group

Organizer: Wolfgang Arnold (University of Witten, Germany)

Seq #: 139, Room 701A

FRIDAY, JULY 4 10:45 A.M. – 12:15 P.M.

Animal Model Selection Alternatives for Dental Implant Research

Sponsors: Craniofacial Biology and Implantology Research Groups
Supported by: Nobel Biocare

Organizer: James Borke (Medical College of Georgia, Augusta, USA)

Seq #: 160, Room 718B

Can We Promote Cementogenesis to Facilitate Periodontal Regeneration?

Sponsors: Mineralized Tissue and Periodontal Research Groups

Organizer: Christopher McCulloch (University of Toronto, ON, Canada)

Seq #: 161, Room 718A

Oral Health Literacy in Older Adults

Sponsor: Geriatric Oral Research Group

Supported by: J. Morita Corp.

Organizer: Herenia Lawrence (University of Toronto, ON, Canada)

Seq #: 162, Room 701A

SATURDAY, JULY 5 9 A.M. – 10:30 A.M.

Meeting Oral Health Needs to Promote the Well-being of the Geriatric Population

Sponsors: Education Research and Geriatric Oral Research Groups

Organizer: Alison Bullock (University of Birmingham, UK)

Seq #: 250, Room 718A

Methodological Challenges in the Design and Analysis of Split-mouth Trials

Sponsors: Evidence-based Dentistry Network, Cariology, Periodontal Research, and Behavioral, Epidemiologic & HSR Groups

Supported by: GSK - Sensodyne

Organizer: Ian Needleman (Eastman Dental Institute, London, UK)

Seq #: 251, Room 718B

Orofacial Pain in Children and Adolescents: Epidemiology, Risk Factors, Impact, and Management

Sponsors: International RDC/TMD Consortium and Neuroscience Group

Organizer: Mark Drangsholt (University of Washington, Seattle, USA)

Seq #: 252, Room 701A

HANDS-ON WORKSHOPS

The workshops will take place at the Metro Toronto Convention Centre. The workshops are complimentary; however, attendance is limited at all workshops except #4, 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 IADR Web site or view the CD-ROM for a description of each workshop.

HOW #1: *Validation Studies of the RDC/TMD: Progress toward Version 2*

Date/Time: Wednesday, July 2, 8:30 a.m. – 4 p.m. (break from Noon – 1 p.m.)

Sponsors: International RDC/TMD Consortium Network and Neuroscience Group

Organizer: Richard Ohrbach (University of Buffalo, NY, USA)

Seq #: 1, Room 711

HOW #2: *Nutrition and Oral Health Outcomes Research: State of the Science and Future Directions*

Date/Time: Wednesday, July 2, 2:15 p.m. – 3:45 p.m.

Sponsors: Nutrition Research, Periodontal Research, and Geriatric Oral Research Groups

Organizer: Riva Touger-Decker
(New Jersey Dental School, Newark, USA)

Seq #: 3, Room 809

HOW #3: *Second Life as a Virtual World for Research and Teaching*

Date/Time: Thursday, July 3, 9 a.m. – 10:30 a.m.

Sponsor: Education Research Group

Organizer: Sharon Grayden
(University of Michigan, Ann Arbor, USA)

Seq #: 23, Room 809

HOW #4: *Publishing Your Manuscript – A JDR Perspective*

Date/Time: Thursday, July 3, 10:45 a.m. – 12:15 p.m.

Sponsor: *Journal of Dental Research*

Organizer: Anthony Smith (University of Birmingham, UK)

Seq #: 45, Room 809

HOW #5: *Recommendations for Conducting Controlled Clinical Studies of Dental Restorative Materials*

Date/Time: Friday, July 4, 10:45 a.m. – 12:15 p.m.

Sponsor: Dental Materials Group

Organizer: Reinhard Hickel
(University Ludwig Maximilian, Munich, Germany)

Seq #: 159, Room 809

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, EPIDEMIOLOGICAL, & HEALTH SERVICES RESEARCH

Carlos Quiñonez (University of Toronto, ON, Canada)

The Politics of Spending: Public Dental Health Care Policy and Access to Care in Canada

Thursday, July 3, 9 a.m. – 9:30 a.m.

Seq #27: Room 701B

Canada is entering a time of public dental health care reform. Nationally, regionally, and locally, events mirror those in the United States only 10 years ago, one result of which was Oral Health in America: A Report of the Surgeon General. By presenting national and/or regional trend data on: (a) dental caries, 1950 to 2005; (b) dental care utilization and insurance coverage, 1951 to 2005; (c) total, private, and public per capita dental expenditures, 1926 to 2005; (d) private and public dental human resources, 1945 to 2005; (e) the household budgetary share for dental care, 1969 to 2003; (f) visual and print media of dental relevance, 1945 to 2005; and (g) a 2005/06 survey of public and dentists' opinions on publicly financed dental care, we will consider the linkages between and among professional policy, a developing welfare state, the predominant social values surrounding oral health, and subsequent impacts on access to care. It will be argued that, using Canada as an example, there is now opportunity to better meet the dental health care needs of all citizens, with relatively little political struggle for the dental profession and governments.

CARIOLOGY RESEARCH

Hyun (Michel) Koo (University of Rochester, N.Y., USA)

The Role of Extracellular Polysaccharide Matrix in Cariogenic Biofilms

Thursday, July 3, 10:45 a.m. – 11:15 a.m.

Seq #50: Room 701B

Biofilms are composed of bacteria and salivary constituents enmeshed in an extracellular polysaccharide (EPS) matrix, which adheres tightly to the tooth surface. The EPS are synthesized by micro-organisms (*Streptococcus mutans*, a key contributor) by means of extracellular enzymes, e.g. glucosyltransferases (GTFs), with sucrose as the primary substrate. These biopolymers, such as glucans and fructans, promote the accumulation of micro-organisms on the tooth surface, and provide bulk and structural integrity for the biofilms. Furthermore, EPS also protect the bacteria from inimical influences of antimicrobials and other environmental assaults, and affect the porosity and inorganic composition of the biofilm matrix. Clearly, EPS are essential for the formation and establishment of cariogenic biofilms. This presentation will provide an overview of the role of the EPS matrix in the development of cariogenic biofilms at biochemical and molecular levels, and furthermore, will discuss the potential of biofilm-control strategies based on disruption of the synthesis of these polymeric substances.

CRANIOFACIAL BIOLOGY

Alexandre Vieira (University of Pittsburgh, Pa., USA)
Subclinical Phenotypes in Families with Non-syndromic Orofacial Clefts (Cleft Lip/Cleft Palate): Genetic Analyses and Implications for Clinical Practice

Saturday, July 5, 9 a.m. – 9:30 a.m.

Seq #255: Room 701B

The orofacial cleft phenotype has usually been defined as a qualitative trait (*i.e.*, affected or unaffected), with additional information relating to the cleft status (*e.g.*, cleft lip alone, cleft lip with cleft palate, complete vs. incomplete, unilateral vs. bilateral). However, numerous lines of evidence suggest that orofacial cleft phenotypes are far more complex than has been assumed and are characterized by a variety of associated subclinical markers or endophenotypes. Recent studies consistently demonstrated that there may be subepithelial defects in superficially unaffected relatives, and that both affected individuals and their relatives are more likely to have differing facial morphology and dentition than do matched controls. If we can broaden the cleft phenotype to identify non-cleft individuals at increased risk to be carrying cleft genes, then our research efforts (for example, gene identification) will have increased power, and our ability to provide effective genetic counseling, particularly information on the risk of recurrence, will be markedly improved.

DENTAL ANESTHESIOLOGY RESEARCH

Zakaria Messieha (University of Illinois, Chicago, USA)
Ambulatory and Office-based Anesthesia—A Discussion of Current Research

Wednesday, July 2, 2:15 p.m. – 2:45 p.m.

Seq #9: Room 703

Ambulatory and office-based surgery and anesthesia care are among the fastest-growing fields. As of 2003, office-based surgical and anesthesia care increased, in the United States alone, from 8% (20 years earlier) to approximately 26% of all surgical procedures conducted. Dental ambulatory and office-based procedures have been in the lead of such growth. This presentation will review the trends in research that address this rapidly growing segment of anesthesia care in areas such as new drug applications, monitoring, cost-effectiveness, and patient safety.

DENTAL MATERIALS

Hidehiko Sano (Hokkaido University, Japan)
Bond Strength Testing and Possible Tooth Adhesion Mechanisms

Thursday, July 2, 10:45 a.m. – 11:15 a.m.

Seq #52: Room 801A
Current bond strength testing methods have made significant contributions to the improvement of bond performances of adhesives. With these testing methods, research focus is shifting to create clinically stable bonds over time. Understanding the mechanisms of tooth adhesion should be very important for obtaining long-term durability of resin/tooth interfaces. This presentation will provide a general view of bond strength tests currently used, and the possible tooth adhesion mechanisms elucidated by these testing methods will also be discussed.

Ricardo Carvalho (Bisco, Inc., Schaumburg, Ill., USA)
Bond Strength vs. Microleakage – Are They Related?

Friday, July 4, 9 a.m. – 9:30 a.m.

Seq #143: Room 801A

While bond strength data are the most widely used approach to the characterization of the “bond-ability” of adhesive restorations, clinical trials indicate that lack of marginal sealing is probably the major cause of failure of such procedures. Clinical survival rates of Class V restorations indicate the superior performance of glass ionomer, regardless of its low bond strength values. The concept that high bond strength is associated with low leakage values may not be appropriate, and more attention should be given to better understanding of the relationship between these phenomena.

Gottfried Schmalz (University of Regensburg, Germany)
Standardization of Biocompatibility Testing of Dental Materials

Thursday, July 2, 9 a.m. – 9:30 a.m.

Seq #32: Room 801A

During recent decades, biocompatibility of dental materials has attracted increasing interest from a scientific, clinical, and administrative point of view. Many different test methods and approaches have been developed to characterize new materials to protect the patient, the user, and the environment. In the 1970s and '80s, international standard protocols, Recommended Standard Practices for Biological Evaluation of Dental Materials, and national documents have been published. In 1997, the ISO issued the “ISO 7405: Dentistry—Preclinical evaluation of biocompatibility of medical devices used in dentistry—Test methods for dental materials”, which is currently under revision. Since many aspects of biological testing of dental materials are valid for all biomaterials being used in medical devices, the ISO TC 194 was developed, which regulates the ISO standards series, “Biological Evaluation of Medical Devices”, with more than 20 different parts being issued so far. Standards of the series are considered as the roof under which the dental standard (ISO 7405) takes care of the special needs and experiences in dentistry. Standardization is subject to certain constraints—*e.g.*, the test methods should be applicable in laboratories all over the world, and methods are based on experiences with existing materials, but are not necessarily valid for new materials. Therefore, new insights from research must be reflected in revised versions of standards. The ISO and other similar organizations have a policy of regularly (*e.g.*, every 5 years) revising such standards. It should be the duty of the scientific community to actively engage in these revision processes.

Jeffrey Stansbury (University of Colorado, Aurora, USA)
Use of Well-designed Polymers and Polymerization Methods to Address Challenges in Dental Materials

Friday, July 4, 10:45 a.m. – 11:15 a.m.

Seq #168: Room 801A

Polymeric matrices used for dental composite restoratives must meet a variety of very demanding clinical performance properties while accommodating the polymerization process constraints imposed by the oral environment. For decades, the resin phases of most commercial composites have been constituted from various combinations of a relatively small number of dimethacrylate monomers. This presentation will focus on new monomers and new co-monomer mixtures that have been designed specifically to

address many of the critical issues associated with current composite materials, such as the relatively low values of conversion attained during photopolymerization, limited polymer mechanical strength, as well as the development of excessive polymerization shrinkage and shrinkage-induced stress. In some cases, the polymers involved are obtained with conventional free-radical methacrylate polymerization, but examples of materials with polymerization routes novel to dentistry will also be highlighted. In addition, new visible-light-initiating systems, as well as the effects of non-uniform photocuring protocols on polymer properties, will be considered.

Carlos González-Cabezas (Indiana University, Indianapolis, USA)
Evaluation of Laboratory Methods to Assess the Performance of Remineralizing Therapies/Materials
Saturday, July 5, 9 a.m. – 9:30 a.m.
Seq #259: Room 801A

Since incipient caries lesions can be remineralized, new remineralization therapies/materials are being developed and studied by numerous dental researchers. Performance of these therapies/materials is usually thoroughly evaluated in the laboratory by a variety of methods. The principles, advantages, and limitations of most available or soon-to-be-available methods will be presented and discussed.

EDUCATION RESEARCH

Richard Valachovic (American Dental Education Association, Washington, DC, USA)
A Report of the Global Congress in Dental Education, Dublin, 2007
Thursday, July 3, 10:45 a.m. – 11 a.m.
Seq #56: Room 707

Dublin Castle served as the global knowledge center on dental education from 6–8 September 2007. Participating were 330 delegates from 66 countries. The Global Congress was held under the joint auspices of DentEd III, IFDEA, ADEE, and ADEA. This unique congress was the culmination of three years' preparatory work by 14 working groups, each of which prepared reports through an interactive Web site; the reports were finalized in Dublin. The 14 working groups addressed: inequalities in access to education and health care; adapting to changes in molecular biosciences; evidence-based care and the curriculum; IT and dental education; curriculum structure; quality assurance, benchmarking, testing and assessment, and mutual international recognition of qualifications; profile of the oral health care team in countries with developed economies; the academic environment from the students' perspective; leadership, governance, and management in dental education; staff/faculty recruitment, development, and global mobility; balancing the role of the dental school in teaching, research, and patient care; including care for underserved areas; exploring opportunities for collaboration between the corporate sector and the dental education community; and a Global Network on Dental Education - a new vision for IFDEA.

GERIATRIC ORAL RESEARCH

Judith Jones (Boston University, Mass., USA)
Does Periodontal Treatment Improve Glycemic Control in Diabetes?
Friday, July 4, 9 a.m. – 9:30 a.m.
Seq #148: Room 717A

While periodontal disease is referred to as the "sixth complication

of diabetes" (Löe, 1993), the efficacy of periodontal treatment in the improvement of diabetes remains unclear. The variability in the results of clinical studies points to the complexity of the question. This presentation will use data from the VA Dental Diabetes Study as well as other clinical studies to examine the link between periodontal disease and diabetes. The parallelism and connections in the underlying mechanisms for both diseases will be presented, along with directions for future research.

MINERALIZED TISSUE

James Simmer (University of Michigan, Ann Arbor, USA)
New Perspectives on Dentin and Enamel Proteins
Friday, July 4, 9 a.m. – 9:30 a.m.
Seq #152: Room 701B

This presentation reviews recent advances in the evolution, biochemistry, and genetics of non-collagenous proteins of dentin and enamel. The major non-collagenous proteins of dentin and enamel belong to the Secretory Calcium-binding Phospho-Protein (SCPP) gene family. The principal feature shared by SCPP members is the targeting system for secretion. SCPPs appear to be intrinsically disordered proteins—that is, they do not adopt a well-defined conformation unless induced to do so by binding to a partner, such as another protein or crystal. All SCPP members are secreted and are modified following translation. The post-translational modifications are believed to be critical for function, and include phosphorylations, hydroxylations, N- and O-linked glycosylations, glycan attachments, and proteolytic processing. Genes encoding selected proteases and SCPPs have been implicated in the etiologies of inherited dentin and enamel defects. These include MMP-20, KLK4, amelogenin, enamelin, and dentin sialophosphoprotein.

NEUROSCIENCE/TMJ

Barry Sessle (University of Toronto, ON, Canada)
A 30-year Historical Perspective of the IADR Neuroscience Group: Research Advances in Orofacial Pain
Thursday, July 3, 9 a.m. – 9:30 a.m.
Seq #38: Room 714A

The Neuroscience Group was established 30 years ago (with R. Dubner, President, and B.J. Sessle, Secretary/Treasurer), and IADR meetings have since incorporated several oral and poster presentations and symposia focusing especially on orofacial sensory and motor mechanisms and their behavioral and clinical expressions. This presentation will focus on the research advances in orofacial pain over the past 30 years, to exemplify the contributions of neuroscience research to the dental and craniofacial field.

Many details have been provided of orofacial nociceptors and their afferent inputs into the brainstem, revealing the vast array of ion channels, receptors, and chemical mediators involved in their activation, modulation, and peripheral sensitization. This continues to be an important research area in view of its promise of identifying potential targets for the development of new or improved peripherally based approaches to manage orofacial pain. Much research in acute and, more recently, chronic pain models has focused on the brainstem regions receiving and relaying these nociceptive afferent inputs, and has documented the integral role that the subnucleus caudalis plays in central processing related to orofacial

pain, as well as the contributions of other brainstem regions. Some of the central neural substrates that underlie the sensory/discriminative and affective/motivational dimensions of orofacial pain, as well as related sensorimotor and other behavioral manifestations, have been identified in animals, and correlated human studies have expanded the repertoire of sensory, motor, and psychological measures of perceptual or behavioral responses in experimental and clinical orofacial pain. Also noteworthy has been the discovery of intrinsic brain pathways and some of their neurochemical and genetic substrates that modulate orofacial nociceptive transmission and its behavioral expression. This includes central sensitization of trigeminal nociceptive pathways that appears to be a fundamental facilitatory process underlying hyperalgesia, allodynia, and pain referral. Despite these new insights, the pathogenesis and especially the etiology of most chronic orofacial pains and related conditions remain an enigma and represent a major challenge to the orofacial pain field. Nonetheless, there have been some notable advances in characterizing and improving diagnostic and management approaches for these conditions and in fostering a paradigm shift away from etiological concepts based only on local/peripheral factors to those embracing a broader, biopsychosocial substrate. Greater attention to these more broadly based concepts as well as emerging or improved technologies, particularly in imaging and sensory testing, and biological markers stemming from genetic and molecular biological approaches, hold the promise of improved clinical approaches for these conditions. Finally, these examples taken from the orofacial pain field reveal that neuroscience has “come of age” in Dentistry, and now represents an integral and important component of dental and craniofacial research.

NUTRITION RESEARCH

Elizabeth Krall Kaye (Boston University, Mass., USA)

The Obesity Epidemic: Implications for Oral Health

Friday, July 4, 10:45 a.m. – 11:15 a.m.

Seq #174: Room 705

Obesity is recognized as a growing world-wide problem that increases the risks of and affects treatments for multiple systemic disorders, such as cardiovascular disease, diabetes, and certain cancers. Recent observational studies suggest that periodontal disease may be an additional complication of obesity. Before we can fully understand the complex relationship between obesity and periodontal disease, or other oral health outcomes, we must validly define obesity. Height and weight measures are easily accessible, but do not describe patterns of body fat distribution that may have greater relevance to disease outcomes. Waist and hip circumferences, skin-fold measurements, bioelectric impedance, and x-ray densitometry are alternate means to estimate body composition. Each has important strengths and limitations when used in research and clinical settings.

PERIODONTAL RESEARCH

Richard Darveau (University of Washington, Seattle, USA)

Porphyromonas gingivalis Lipopolysaccharide: Modulation of Innate Host Defense

Wednesday, July 2, 2:15 p.m. – 2:45 p.m.

Seq #19: Room 701B

This talk will describe environmental conditions that alter

lipopolysaccharide (LPS) structure and how these minor structural alterations can have profound effects on innate host responses. LPS modifications that alter innate host responses will be put into the context of periodontal disease.

PHARMACOLOGY, THERAPEUTICS & TOXICOLOGY

Elliot V. Hersh (University of Pennsylvania, Philadelphia, USA)

Supporting Marketing Claims: One Aspect of This Clinical Pharmacologist's Career

Wednesday, July 2, 2:15 p.m. – 2:45 p.m.

Seq #20: Room 715

Randomized controlled clinical trials are pivotal for the eventual FDA approval of analgesic and local anesthetic products. In addition, these types of studies, whether done pre- or post-marketing, also support various claims of efficacy and superiority compared with other products. This presentation will focus on clinical trials performed by the speaker that have supported claims widely promulgated in the print and broadcast media.

PROSTHODONTICS RESEARCH

Clark Stanford (University of Iowa, Iowa City, USA)

Dynamic Prosthodontics: the Translation of the Basic Sciences into Clinical Realities

Friday, July 4, 10:45 a.m. – 11:14 a.m.

Seq #179: Room 701B

Prosthodontic tooth replacement therapy in the anterior esthetic region has made significant strides through improvements in implant design, surface technologies, and procedural gymnastics. These innovations have been critical to the acceptance of implant-based tooth replacement, but we need to continue to develop new patient-centered metrics to capture what is most important. Most importantly, this includes long-term patient satisfaction with the outcomes of care. Over the past five years, improvements have included surface roughness features, nano-etching, nano-level coating, and alternatives to expedite bone healing. There have also been attempts to integrate active biological mediators on implant surfaces, with limited success. Critical, though, to the outcomes of long-term success is the stability of the mucosal tissues, which relates to an implant's transmucosal design. This is a metric rarely discussed, but potentially is most important to patient outcomes. Abutment to implant interference abutments that are stable (with minimal micro-motion) and minimal abutment to implant gap can now be combined to provide an advantage to modular (two-part) implant systems with the mechanical advantages of a one-piece implant design. The end result, though, of any form of tooth replacement lies with a systematic assessment of the outcomes and the clear documentation of both the efficacy and effectiveness of tooth replacement therapy.

SALIVARY RESEARCH

Eva Helmerhorst (Boston University, Mass., USA)

The Dynamic Composition of Whole Saliva

Thursday, July 3, 9 a.m. – 9:30 a.m.

Seq #44: Room 705

In contrast to the proteome of serum, the proteome of whole saliva is highly susceptible to a variety of physiological and

biochemical processes. First, salivary protein secretion is under neurological control and hence is dependent on a neurological stimulus. Second, salivary secretory proteins are extensively modified in the oral cavity, which harbors a large variety of host- and bacteria-derived enzymes. Salivary protein biosynthesis starts with transcription and translation of salivary protein genes in the gland, followed by post-translational processing involving protein glycosylation, phosphorylation, and proteolysis. Upon the release of glandular secretions into the non-sterile oral environment,

proteins are subjected to additional protein modifications, leading to proteolytic cleavage, partial protein deglycosylation, and protein-protein complex formation. These processes occur in the dynamic environment of the oral cavity, where proteins are continuously synthesized and removed by swallowing. Understanding the proteome of whole saliva in an environment of continuous protein turnover will aid in unraveling the physiological and pathological processes that are at the basis of oral health and disease.

LUNCH & LEARNING

THURSDAY, JULY 3, 12:15 P.M. – 1:30 P.M.

Location: Level 600 Foyer (Registration)

During lunch, you may discuss topics of current interest with the researchers as identified below. There is a \$55.00 fee 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 IADR Web site or view the CD-ROM for a description of each table presentation.

CRANIOFACIAL BIOLOGY GROUP

Table #1) *Potential Function of Small RNA in Craniofacial Development*
Speaker: Akira Yamane (Tsurumi University, Yokohama, Japan)

DENTAL MATERIALS GROUP

Table #2) *Clinical versus Statistical Significance – Statistical Methods and the Interpretation of Results*
Speaker: Jeffrey Platt (Indiana University, Indianapolis, USA)

Table #3) *Dental Alloys, Electrochemistry, and Biological Outcomes*
Speaker: Regina Messer (Medical College of Georgia, Augusta, USA)

Table #4) *Dental Resin Composites – Is 'Nano' Worth the 'Buzz'? (in vitro and in vivo Performance of Dental Resin Composites)*
Speaker: Roland Frankenberger (University of Erlangen, Germany)

Table #5) *Fatigue Failure and its Relevance to the Dental Field*
Speaker: Jamie Kruzic (Oregon State University, Corvallis, USA)

Table #6) *Finite Element Analysis (FEA): A Scientific Approach to 3D Non-linear Models*
Speaker: Fernando Zarone (University of Naples, Italy)

Table #7) *Resin Infiltration of Enamel Caries Lesions*
Speaker: Sebastian Paris (Charité University, Berlin, Germany)

Table #8) *Tissue Engineering – Its Relevance to Dentistry*
Speaker: David Kohn (University of Michigan, Ann Arbor, USA)

GERIATRIC ORAL RESEARCH

Table #9) *Qualitative Research of Oral-health-related Beliefs and Behaviors*
Speaker: Michael MacEntee (University of British Columbia, Vancouver, Canada)

IMPLANTOLOGY RESEARCH

Table #10) *Cutting Edge of Implant Surfaces and Design – Clinical Significance*
Speaker: Seong-Joo Heo (Seoul National University, Korea)

MINERALIZED TISSUE

Table #11) *Pyrophosphate and SIBLING Proteins Regulating Mineralization*
Speaker: Marc D. McKee (McGill University, Montreal, QC, Canada)

PERIODONTAL RESEARCH

Table #12) *Animal Models for Periodontal Regeneration: Clinical Relevance*
Speaker: Andreas Stavropoulos (Royal Dental College, Aarhus, Denmark)

Table #13) *Antiseptic Rinses for the Control of Subgingival Biofilm. Is there Evidence?*
Speaker: Nicole Arweiler (University of Freiburg, Germany)

Table #14) *Cementogenesis and Periodontal Regeneration. Is It Still an Issue?*
Speaker: Dieter Bosshardt (University of Berne, Switzerland)

Table #15) *Microbiological Diagnostics in Periodontal Treatment Planning*
Speaker: Thomas Beikler (University of Seattle, Wash., USA)

Table #16) *Microbiota and Host Genome Interactions in Aggressive Periodontitis*
Speaker: Luigi Nibali (Eastman Dental Institute, London, UK)

Table #17) *New Ways for Resolution of Inflammation in Periodontitis*
Speaker: Alpdogan Kantarci (Boston University, Mass., USA)

Table #18) *Periodontitis and Diabetes: a Two-way Relationship*
Speaker: Giovanni Salvi (University of Berne, Switzerland)

Table #19) *Stem Cell Therapy in Periodontal Tissue Engineering*
Speaker: Darnell Kaigler (University of Michigan, Ann Arbor, USA)

▲ SPECIAL EVENTS ▲

NEW MEMBER ORIENTATION RECEPTION

WEDNESDAY, JULY 2, 1:15 P.M. – 2 P.M.

Location: Room 810, Convention Centre

All new members and first-timers at the General Session are invited to attend the reception. 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/CADR, please join us for refreshments. The reception is generously sponsored by Colgate-Palmolive.

3M ESPE HOSPITALITY & WIFI CENTERS

WEDNESDAY - SATURDAY, JULY 2-5

3M ESPE will provide a Hospitality Center (cyber café) located in the Exhibit Hall, along with a WiFi Center located in 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.

OPENING CEREMONIES & AWARDS PROGRAM, FOLLOWED BY THE WELCOME RECEPTION

WEDNESDAY, JULY 2

Location: Exhibit Halls F-G, Convention Centre

The Opening Ceremonies & Awards Program will begin at 4 p.m. and will include presentations of the various IADR Awards and Fellowships and the President-elect address by J.M. "Bob" ten Cate (ACTA, Amsterdam, The Netherlands). After the Opening Ceremonies, all meeting participants are invited to the Welcome Reception next door in Exhibit Hall G. The reception is generously sponsored by Wrigley Oral Healthcare Programs.

CADR ACTIVITIES

THURSDAY, JULY 3

5:30 p.m. – 6:30 p.m. CADR Business Meeting
Location: Room 701A,
Convention Centre

7:00 p.m. - CADR Reception (*invitation only*)
Location: Admiral Ballroom (3rd Floor),
Radisson Hotel Admiral
Toronto-Harbourfront

Sponsored by Straumann Canada, Health Canada, and the Universities of Toronto and Western Ontario



SATELLITE SYMPOSIUM

How Do Medicine & Dentistry Collaborate on Oral/Systemic Health?

Innovative actions and information transfer

IADR 86th General Session

July 3, 2008 • 1:00 to 3:00pm

Metro Toronto Convention Centre • Room 717A
Toronto, ON

Presenters

Ira Lamster, DDS, MMSc
Columbia University
College of Dental Medicine

Bill Costerton, PhD
University of
Southern California

Maurizio Trevisan, MD, MS
University of Nevada
Health Sciences System

Anthony Iacopino, DMD, PhD
University of Manitoba
Faculty of Dentistry

Sponsored by:

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Division of Johnson & Johnson Consumer Companies, Inc.



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AMERICAN ACADEMY OF PERIODONTOLOGY AND COLGATE SYMPOSIUM

The Role of Inflammation in Periodontal Diseases

**IADR
GENERAL
SESSION**

DATE
Thursday,
July 3, 2008

TIME
3:00 – 5:00 pm

LOCATION
Convention
Centre,
Room 713B

This symposium examines the emerging concept of periodontal disease as an inflammatory disease and compares periodontal disease with other diseases having a inflammatory component, such as cardiovascular disease, diabetes and Alzheimer's disease. Additional concepts reviewed include the following:

- Examine the pathogenesis of periodontitis in light of current evidence as to influences on the inflammatory response.
- Review the role of inflammation in bone biology and wound healing.
- Explore new and future strategies for controlling periodontal as well as systemic inflammation.

SPEAKERS:

Dr. Ray Williams, University of North Carolina
Dr. Tom Van Dyke, Boston University

GSK proudly announces the following satellite symposium:

Clinical indices for measuring tooth wear: current status and future opportunities

Friday 4th July, 14.00-16.00, Room 717a

With four international speakers presenting both independent and collaborative research, this event provides a unique opportunity to hear about newly developed indices for assessing tooth wear in both a research and practice setting

Professor David Bartlett (King's College, London - UK)

Dr Máiréad Harding (University College, Cork - Ireland)

Professor Adrian Lussi (University of Bern - Switzerland)

Arie van 't Spijker (Radboud University Nijmegen - The Netherlands)

Moderated by Dr John Stamm (University of North Carolina - USA)



GROUP/NETWORK BUSINESS MEETINGS & RECEPTIONS

All business meetings will take place at the Convention Centre, and the Receptions will take place as noted below.

CC = Convention Centre, IC = InterContinental Hotel

	Business Meetings 5:15 p.m. – 6 p.m.	Receptions 6 p.m. –
Behavioral, Epidemiologic & HSR	Thursday CC – Room 716B	Thursday* IC - Ontario
Cariology Research	Thursday CC – Room 703	Thursday CC – Room 703
Craniofacial Biology	Thursday CC – Room 717A	Thursday CC – Room 717A
Dental Anesthesiology Research	Friday CC – Room 703	Thursday [^] CC – Room 704
Dental Materials	Thursday CC – Room 801A	Thursday (starts at 6:30 p.m.) Steam Whistle Brewery
Diagnostic Sciences	Thursday CC – Room 809	-
Education Research	Thursday CC – Room 707	Thursday* IC – Ontario
Evidence-based Dentistry	Friday (starts at 12:30 p.m.) CC – Room 710	-
Geriatric Oral Research	Friday CC – Room 803A	Thursday* IC - Ontario
Implantology Research	Thursday CC – Room 713A	Thursday [%] CC – Room 810
International RDC/TMD	Wednesday (starts at 5:30 p.m.) CC – Room 704	-
Microbiology/Immunology	Thursday CC – Room 716A	Thursday ⁺ IC – Ballroom A
Mineralized Tissue	Thursday CC – Room 714A	Thursday [#] CC – Room 802A
Neuroscience	Thursday CC – Room 705	Thursday CC – Room 705
Nutrition Research	Thursday CC – Room 803A	Thursday* IC - Ontario
Oral Health Research	Thursday CC – Room 709	Thursday CC – Room 709
Oral & Maxillofacial Surgery	Thursday CC – Room 801B	Thursday CC – Room 801B
Oral Medicine & Pathology	Thursday CC – Room 718B	Thursday CC – Room 718B
Periodontal Research	Thursday CC – Room 715	Thursday ⁺ IC – Ballroom A
Pharmacology, Therapeutics & Toxicology	Thursday CC – Room 718A	Thursday [^] CC – Room 704
Prosthodontics	Thursday CC – Room 717B	Thursday [%] CC – Room 810
Pulp Biology & Regeneration	Thursday CC – Room 711	Thursday [#] CC – Room 802A
Salivary Research	Thursday CC – Room 803B	Thursday CC – Room 803B
Practice-based Research (Network not approved by Council yet)	Friday (starts at 12:30 p.m.) CC – Room 802	-

* ^ % + Joint Receptions

STUDENT NETWORKING LUNCH

THURSDAY & FRIDAY, JULY 3-4, NOON – 2 P.M.

Location: InterContinental Hotel, Ballroom A

The University of Toronto Promotional Student Luncheons, which are open to all registered students, are intended to provide an informal forum for students to meet and talk to each other, as well as to have lunch with invited scientists. The invited scientists will have the opportunity to discuss with students their interests and their long-term goals. Attendance is limited, so arrive early if you wish to participate.

Sponsored by Straumann Canada and Dentistry Canada Fund.

DENTAL MATERIALS GROUP RECEPTION

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

Location: Steam Whistle Brewery

The Dental Materials Group is hosting a reception at the Steam Whistle Brewery (adjacent to the Convention Centre) 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.

LOCAL TOUR INFORMATION

To enhance your enjoyment of Toronto, the IADR has arranged with the Welcome To The City, Inc. tour company to offer you private customized activities. To provide the best possible service, a Welcome To The City, Inc. Tour Reservation Desk will be located in the IADR registration area at the Convention Centre. This desk will handle inquiries regarding any of the pre-arranged activities outlined below. In addition, information can be obtained for additional excursions, attractions, restaurant reservations, theatre tickets, and shopping suggestions. Tickets for the tours and activities outlined below may be available at the Tour Registration Desk during the meeting; however, space is limited, and advance registration is advised.

Exploring Toronto – By Land and By Sea

Price: CDN \$50.88 per person

- Tour Dates: Tuesday, July 1 and Wednesday, July 2
- Bus departs at 10 a.m., returns at 1 p.m.

Historic Homes – Past to Present

Price: CDN \$65.72 per person

- Tour Dates: Wednesday, July 2 and Thursday, July 3
- Bus departs at 10 a.m. and returns at 4 p.m.

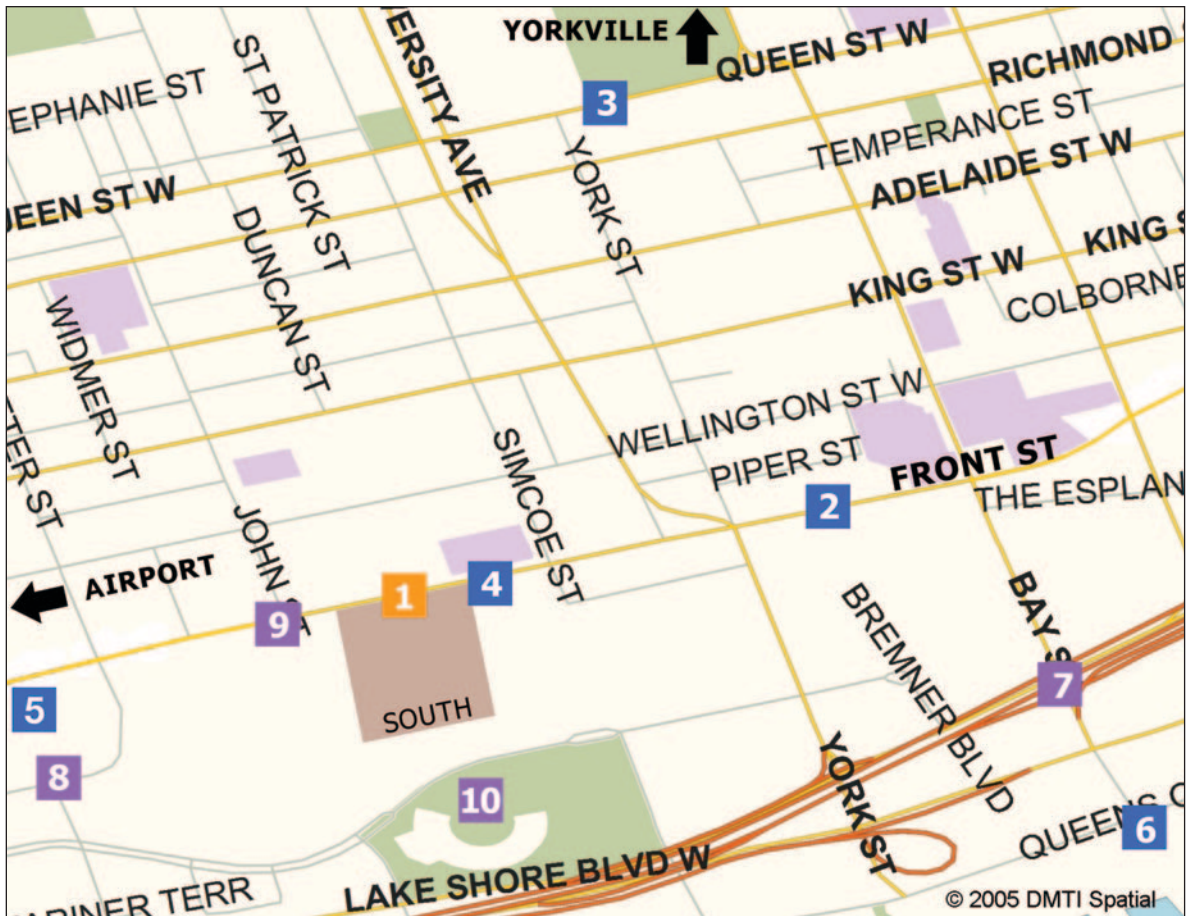
Niagara Falls

Price: CDN \$102.82 per person

- Tour Date: Saturday, July 5
- Bus departs at 9:00 a.m., returns at 5 p.m.

NOTE: All tours will depart from and return to the main entrance of the Convention Centre (South Building). Welcome To The City, Inc. reserves the right to cancel tours if the minimum number of registrants is not met; registrants will then receive a full refund. Cancelled checks or credit card charges are considered confirmation for the tours. All prices above include all Provincial and Federal taxes.

▲ HOTEL MAP ▲



Meeting Venue

- 1 Metro Toronto Convention Centre
(IADR Meeting in South Building)

Hotel

Hotel	Street Address	Telephone
2 Fairmont Royal York	100 Front Street, West	416-368-2511
3 Sheraton Centre	123 Queen Street West	416-361-1000
4 InterContinental Toronto Centre	225 Front Street, West	416-597-1400
5 Renaissance Toronto Downtown	1 Blue Jays Way	416-341-7100
6 Westin Harbour Castle	1 Harbour Square	416-869-1600

Attractions

- 7 Air Canada Centre
- 8 Rogers Centre
- 9 CN Tower
- 10 Steam Whistle Brewery
(DMG Reception)

▲ POSTER COMPETITION ▲

IADR/UNILEVER HATTON AWARDS COMPETITION

TUESDAY, JULY 1

7 a.m. – 7:30 a.m. Poster Set-up
 7:30 a.m. – 8 a.m. Poster Viewing by Judges
 8 a.m. – 7 p.m. Presentations (closed-door competition)

Posters will be moved by IADR to the Exhibit Hall.

Junior and Senior: Clinical Research Categories

Location: Room 802A, Convention Centre

Board #	Time	Name
#1	8 a.m.	M. Burashed
#2	8:20 a.m.	O. Deutsch
#3	8:40 a.m.	H. Higuchi
#4	9 a.m.	A. Nayak
#5	9:20 a.m.	S. Raju
Break	9:40 a.m.	
#6	10 a.m.	W. Wisitrasameewong
#7	10:20 a.m.	M. Yamamura
#8	10:40 a.m.	T. Abu Saleh
#9	11 a.m.	C. Bamise
#10	11:20 a.m.	P. Christou
#11	11:40 a.m.	S. Khoury
Lunch Break	Noon	
#12	1 p.m.	A. Perez-Soria
#13	1:20 p.m.	E. Scheller
#14	1:40 p.m.	J. Boehrs
#15	2 p.m.	B. Wang
Completion	2:20 p.m.	<i>Deliberations Begin</i>

Senior: Basic Science Category

Location: Room 802B, Convention Centre

Board #	Time	Name
#1	8 a.m.	C. Ang
#2	8:20 a.m.	M. Biz
#3	8:40 a.m.	S. Cho
#4	9 a.m.	L. Davies
#5	9:20 a.m.	I. Hosokawa
Break	9:40 a.m.	
#6	10 a.m.	S. Jettanacheawchanki
#7	10:20 a.m.	M. Kajiya
#8	10:40 a.m.	H. Kim
#9	11 a.m.	A. Koutoulaki
#10	11:20 a.m.	S. Lee
#11	11:40 a.m.	B. McManus
Lunch Break	Noon	
#12	1 p.m.	M. Miyazawa
#13	1:20 p.m.	P. Pärnänen
#14	1:40 p.m.	S. Rajbaran
#15	2 p.m.	G. Sanchez
#16	2:20 p.m.	D. Selimovic
Break	2:40 p.m.	
#17	3 p.m.	M. Shemesh
#18	3:20 p.m.	J. Suarez-Franco
#19	3:40 p.m.	Y. Wang
#20	4 p.m.	Q. Xu
#21	4:20 p.m.	A. Vacharaksa
Break	4:40 p.m.	
#22	5 p.m.	L. Turner
#23	5:20 p.m.	Y. Lei
#24	5:40 p.m.	R. Giacaman
#25	6 p.m.	M. Klein
#26	6:20 p.m.	N. Joo
#27	6:40 p.m.	C. Fujihara
Completion	7 p.m.	<i>Deliberations Begin</i>

IADR/GSK INNOVATION IN ORAL CARE AWARD RECIPIENTS

The following individuals are previous recipients of the IADR/GSK Innovation in Oral Care Award and are presenting their findings at the meeting. Be sure to stop by and listen to their presentations.

2005 Recipients

Peter Holbrook – P# 88
 Lin Tao - P# 1332

2006 Recipients

Hyun (Michel) Koo - P# 1472

2007 Recipients

Fionnuala Lundy - P# 769
 Toshihisa Kawai - P# 59



▲ CORPORATE SPONSORSHIP ▲

PROGRAMS AND ACTIVITIES

The IADR thanks the following companies for their generous support of the IADR General Session:



IADR Council Dinner
New Member Orientation
Research in Prevention Travel Awards and Luncheon
IADR Distinguished Scientist Award
Meeting-at-a-Glance
Satellite Symposium



P&G Professional Oral Health

IADR President's Induction Ceremony & Reception
IADR Young Investigator Award
IADR Distinguished Scientist Award



IADR/GSK Innovation in Oral Care Awards
Satellite Symposium



Unilever

IADR/Unilever Hatton Awards Ceremony
IADR Division Travel Awards
IADR Hatton Awards
Poster Boards
IADR Distinguished Scientist Award



WRIGLEY
ORAL HEALTHCARE PROGRAMS

Conference Bags, Pens, and Notepads
Welcome Reception
IADR Distinguished Scientist Award



Hospitality & WiFi Centers



Japan Night Reception



IADR/AADR William J. Gies Award
IADR Distinguished Service Award
J. Morita Award



IADR Past Officers' and CADR Past Presidents' Business Meeting
IADR Distinguished Scientist Award
Satellite Symposium



AADR Bloc Travel Grant



quintessence books

Distinguished Lecture Speaker



CD-ROM of abstracts



IADR Distinguished Scientist Award

For Tomorrow, For You



IADR/Lion Dental Research Award



IADR E.W. Borrow Memorial Award

Sarnat Family Foundation

IADR Distinguished Scientist Award



Church & Dwight

IADR Distinguished Scientist Award



IADR Distinguished Scientist Award



CAULK

IADR Distinguished Scientist Award



IADR Distinguished Scientist Award

SYMPOSIA

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

Canadian Arthritis Network – in support of the *Biom mineralization Explained? Proteins as Regulators of Crystal Formation in Physiology and Pathology Symposium*

Crest Oral-B, P&G Professional Oral Health – in support of the *Health Behavior Change in Oral Health Research: Use of Motivational Interviewing Symposium*

Elsevier Science – in support of the *Glass-ionomer Cements – Current and Future Performance Symposium*

GSK-Sensodyne – in support of the *Methodological Challenges in the Design and Analysis of Split-mouth Trials Symposium*

Institute of Musculoskeletal Health and Arthritis – in support of the *Biom mineralization Explained? Proteins as Regulators of Crystal Formation in Physiology and Pathology Symposium*

Ivoclar Vivident – in support of the *Zirconia-based Restorations: Successes, Failures, and Clinical Recommendations Symposium*

Japanese Prosthodontic Society – in support of the *Biomechanical Response and Control at the Bone-Biomaterial Interface Symposium*

J. Morita Corp. – in support of the *Oral Health Literacy in Older Adults Symposium*

NIDCR – in support of the NIDCR's 60th Anniversary Symposium: *Contributions of Canadian Pain Research*

Nobel Biocare – in support of the *Animal Model Selection Alternatives for Dental Implant Research Symposium*

Ontario Dental Association – in support of the *Designing Dental Programs for High-risk Children 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.

IADR DISTINGUISHED SCIENTIST AWARDS, 2008

The IADR Distinguished Scientist Awards program includes 16 awards which have been designed to acknowledge renowned scientists who have made significant scientific contributions of original, outstanding, or innovative discoveries in the related field of research.

Basic Research in Biological Mineralization Award, supported by Unilever Oral Care.

Basic Research in Periodontal Disease Award, supported by the Colgate-Palmolive Company.

Behavioral, Epidemiologic, & Health Services Research Award, supported by Sunstar Americas, Inc.

Craniofacial Biology Research Award, sponsored by the IADR Craniofacial Biology Group and supported by Unilever Oral Care.

Geriatric Oral Research Award, supported by Sunstar Americas, Inc.

H. Trendley Dean Memorial Award, supported by the Colgate-Palmolive Co.

Isaac Schour Memorial Award, supported by an endowment provided by Dr. Bernard G. Sarnat and Rhoda G. Sarnat through the Sarnat Family Foundation.

Oral Medicine & Pathology Research Award, supported by Sunstar Americas, Inc.

Pulp Biology and Regeneration Award, sponsored by the IADR Pulp Biology & Regeneration Research Group and supported by the L.D. Caulk Division of DENTSPLY International.

PTT Research Award, sponsored by the IADR PTT Group and supported by Wyeth Consumer Healthcare.

Research in Dental Caries Award, supported by Johnson & Johnson Oral Health Products.

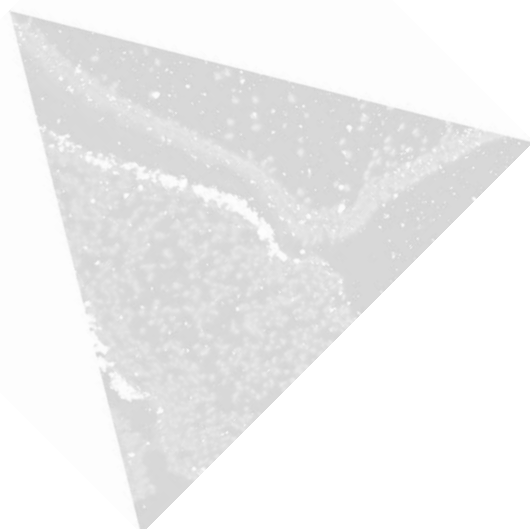
Research in Oral Biology Award, supported by the Church & Dwight Company.

Research in Prosthodontics and Implants Award, supported by Astra Tech Inc.

Salivary Research Award, supported by the Wm. Wrigley, Jr. Company.

Wilmer Souder Award, supported by the IADR Dental Materials Group and the William T. Sweeney Memorial Fund.

Young Investigator Award, supported by Crest Oral-B, P&G Professional Oral Health.



IADR AWARDS AND FELLOWSHIPS

IADR/GSK Innovation in Oral Care Award: The Innovation in Oral Care Awards are jointly sponsored by the IADR and GSK, with funding provided exclusively by GlaxoSmithKline. Proposals focus on new innovative oral care technologies that can be used routinely by the public to maintain and improve oral health and the quality of life.

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 supported by J. Morita USA, Inc.

IADR E.W. Borrow Memorial Award: This award is intended to recognize and stimulate research in oral health promotion for children. The plaque and cash award are generously supported by the E.W. Borrow Foundation.

IADR/Lion Dental Research Award for Young Investigators: Established to support improvements in the oral health sciences through the stimulation of junior researchers. This Award is generously supported by the Lion Corporation. The three awards this year are given in the Oral Health, Periodontal, and Salivary Research Groups.

IADR/Unilever Hatton Awards Competition: Awards are made to young investigators selected by each of the IADR Divisions and judged best in presenting meritorious poster presentations on original research at the IADR General Session. The competition is divided into three categories (junior, senior [basic science], and senior [clinical research]), according to the formal education of the competitors. In 2008, 42 individuals from 18 Divisions will receive funding for travel to this year's meeting. Two winners may be selected for each category, with each first- and second-place winner receiving a cash award and plaque. These awards are generously supported by Unilever Oral Care Division.

IADR/Colgate Research in Prevention Travel Award: Established to support students and young investigators doing research in the area of oral disease prevention. The award was given this year to six individuals through a generous donation from the Colgate-Palmolive Company.

IADR Distinguished Service Award: This award is presented to an individual member for outstanding instances of service to the Association or distinguished service over a period of time. It is intended to recognize members who have not served as officers of the IADR. The award is supported by J. Morita USA, Inc.

David B. Scott Fellowship: This annual fellowship rotates alphabetically through the IADR Divisions and is funded by the estate of the late Nancy M. Scott in honor of David B. Scott, IADR Past President and former Director of the NIDCR. The 2008 Fellowship will be awarded in the Chinese Division.

John A. Gray Fellowship: This biennial fellowship rotates alphabetically through the IADR Divisions. It is funded by donations from members and sponsors in tribute to John A. Gray, past Executive Director of the IADR. The next fellowship will be awarded in 2009.

Norton M. Ross Fellowship: This biennial fellowship rotates in reverse alphabetical order through the IADR Divisions and is in memory of the late Norton Ross. The 2008 Fellowship will be awarded in the Irish Division. This award honors the late Dr. Norton M. Ross, a dentist and pharmacologist, who made significant contributions to the fields of oral medicine and dental clinical research, creating a major impact on the public's oral health.

IADR Toshio Nakao Fellowship: Established to allow a young investigator to obtain training and experience in dental materials science at a center of excellence. This biennial fellowship is supported by the GC Corporation. The next Fellowship will be awarded in 2009.

John J. Clarkson Fellowship: The award is funded by donations from individual IADR members and the IADR Institutional Section in honor of John J. Clarkson, past Executive Director of the IADR. This biennial fellowship will be awarded next in 2008 to a worthy recipient who is conducting research in Public Dental Health.



▲ ACKNOWLEDGMENTS ▲

We thank the following individuals for their time and energy in finalizing the program for the 2008 General Session:

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FUTURE MEETINGS

2009

April 1-4

IADR/AADR/CADR General Session & Exhibition
Miami Beach Convention Center
Miami, Fla., USA

2010

March 3-6

AAADR/CADR Annual Meeting & Exhibition
Washington, D.C. Convention Center
Washington, D.C., USA

2010

July 14-17

IADR General Session & Exhibition
Centre de Convencions Internacional Barcelona
Barcelona, Spain

2011

March 16-19

IADR/AADR/CADR General Session & Exhibition
San Diego Convention Center
San Diego, Calif., USA