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Refer to the back inside cover for Fall 2019 courses.
January 2019

Dear lifelong learner,

Your feedback on our CE courses and what you want from your continuing dental education is sincerely appreciated. Your input helps us offer a program that is tailored to your needs. Our goal is to reach more people and to offer you continuing education options to help you provide the best in patient care.

In response to the great popularity of CE courses offered outside Halifax, we have already offered courses in Saint John and St. John's this year, with courses in Moncton and Fredericton taking place in early 2019. We will also be offering a combined oral and nitrous oxide sedation course and a second cone beam computed tomography certification course in Halifax in the spring. Watch for more courses like this in the future. We also continue to work with companies so that you can network with the people involved in product research and development.

Two Continuing Dental Education course catalogues are published each year: the autumn one covers the September to December 2018 term and this winter/spring one covers the January to June 2019 terms.

Please remember that if you pay for three CE courses by February 15, 2019, you can take a fourth course (lecture) for half price. There is also a group discount if a number of people register from the same office. Please go to dal.ca/dentistry/cde for full promotion details.

We hope you have enjoyed the new look of our emails, and we are excited to be launching our CE Facebook and Twitter accounts and our online registration system soon.

Thank you to our sponsors for their support and to our participants for continuing to enroll in the courses we offer. Please keep the feedback coming! We look forward to seeing you soon.

With kind regards,

Catherine Lyle
Manager
Continuing Professional Education

Please display this catalogue in your office so that all members of your team have access to these continuing education opportunities.
Office of Continuing Professional Education

MISSION
To provide evidence-based education and encourage lifelong learning in order to promote overall health.

VISION
- We will provide continuing dental education opportunities for our regional, national and international communities. We will focus on the evolving oral health needs in these communities.
- Our program will be based on intellectual integrity, ethics, and enthusiasm for scientific and professional activities.
- Our courses will be integral to promoting excellence at Dalhousie University.
- We will establish and foster active partnerships with the university, alumni, and with external institutions.

SPECIAL OFFER

The Lord Nelson Hotel is pleased to offer a special rate of $125.00 + tax per night for January to March 2019 to participants of the CDE program.

SPECIAL WINTER RATES AT THE LORD NELSON HOTEL
To take advantage of this special rate, please let the reservation agent know you are registered for a Dalhousie CE course when you make your reservation. *Please note that this rate is for Classic One Queen and Classic Two Queen Guestrooms only and is based on single/double occupancy. Subject to availability.

To make your reservation, please call 1-800-565-2020 or email ask@lordnelsonhotel.com to speak to a reservation agent.

SPECIAL CE COURSE RATES
Pay for 3 CE courses by February 15 and get 50% off your 4th CE lecture course.

Group rates are available when registering four or more people.
CONTINUING DENTAL EDUCATION

COURSE CATALOGUE

CDE Course Catalogue

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OFFICE OF CONTINUING PROFESSIONAL EDUCATION
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Halifax, NS B3H 4R2

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A portion of the program is being generously sponsored by an unrestricted educational grant from the ADEA Gies Foundation

Dalhousie University Faculty of Dentistry is a member of the Association for Continuing Dental Education

DISCLAIMER
Dental education institutions have an obligation to disseminate new knowledge related to the dental practice. In doing so, some presentations may include controversial materials or commercial references. Sponsorship of a Dalhousie continuing education course does not imply that Dalhousie University endorses a particular philosophy, procedure, or product.
Upcoming Dentistry Alumni Events

For more information on these and other events, please visit: www.dal.ca/dentistry or email alumni.dentistry@dal.ca

JANUARY 25, 2019
Table Clinics, Halifax, NS
Dentistry Building
5:00 pm to 8:00 pm
Awards and reception to follow

JANUARY 26, 2019
Dentistry Winter Ball, Halifax, NS
Halifax Marriot Harbourfront Hotel
6:00 pm to 1:00 am

FEBRUARY 8, 2019
Alumni Reception, Moncton, NB
5:30 pm to 7:00 pm

FEBRUARY 22, 2019
Alumni Social, Fredericton, NB
5:30 pm to 7:00 pm

MARCH 7, 2019
Alumni Reception at PDC, Vancouver, BC
Vancouver Convention Centre
East Meeting Room 20
5:30 pm to 7:00 pm

MAY 9, 2019
Alumni Reception at ODA, Toronto, ON
Scaddabush Italian Kitchen
200 Front Street
5:30 pm to 7:00 pm
An evening of CE for clinicians while supporting our students’ education

DENTISTRY STUDENT TABLE CLINICS
This year marks the 49th anniversary for student table clinics at Dalhousie University. A table clinic is a brief (5-10 minute) oral presentation on areas of clinical application and techniques, or they can be basic science, research, or oral health promotion. The table clinic exercise is a student-centred learning activity that is completed with the support of a faculty advisor and is part of their course requirements. Students select a topic they wish to present, thoroughly research it, and provide a critical analysis, conclusions, and recommendations, or they may conduct an original research project and present their results and conclusions. The students can use display boards in their presentation and may also display clinical and research equipment and materials.

DENTAL HYGIENE STUDENT PROFESSIONAL PRESENTATIONS
Second-year dental hygiene students select and research topics of their choice with the support of a faculty advisor. Groups of four students give 15-20 minute presentations focusing on the best practice standards of care. A brochure summarizing key information will be available.

AGENDA
Registration: 4:30 pm to 6:00 pm
Presentations: 5:00 pm to 8:00 pm
Social Hour: 8:00 pm to 9:00 pm
Awards: 9:00 pm to 9:45 pm

We would like to thank our many sponsors who help make our Student Table Clinic Night a success!

Dalhousie Dental Student Society | Cape Breton Island Dental Society | Dr. James Craft
Halifax County Dental Society | Dalhousie Dental Hygiene Society
Rehabilitation of the totally edentulous patient using implant-assisted prostheses (lecture and hands-on)

PIERRE-LUC MICHAUD, DMD, MSc, Cert. Prosth, FRCD(C) AND ADITYA PATEL, HBSc, DDS, MPerio, FRCD(C)

Dr. Pierre-Luc Michaud is an associate professor of prosthodontics at Dalhousie University. Dr. Michaud received his prosthodontics degree from the Université de Montréal in 2011. He joined Dalhousie University full time in 2012 and is currently the course director for the Prosthodontics 3 and 4 courses. He maintains a part-time private practice in the Dalhousie intramural faculty practice, where he covers all aspects of prosthodontics.

Dr. Aditya Patel received his DDS degree from the University of Toronto and completed his Master of Periodontics at Dalhousie University. He teaches graduate-level periodontics part time at Dalhousie and works in private practice in Halifax, Truro, and Sydney. Dr. Patel enjoys all aspects of periodontics and implantology and is co-director of the Perio By The Ocean Study Club.

COURSE OUTLINE
This course will cover several aspects of implant dentistry for edentulous patients. Topics such as case selection and assessment, surgical planification, surgical considerations, surgical complications, prosthodontic planification and treatment options, denture conversion into a provisional fixed restoration, and prosthetic complications will be discussed. During the hands-on portion of the course, participants will learn how to convert an acrylic denture into an implant-fixed temporary prosthesis.

COURSE OBJECTIVES
At the end of this course, participants will:

• Know more about treatment planning for edentulous patients with implant-assisted solutions
• Be able to identify patients who could benefit from different implant-assisted treatment options for totally edentulous patients
• Have a better understanding of prosthetic design
• Have greater knowledge and be able to execute implant-assisted treatments for totally edentulous patients
• Understand how to convert a conventional acrylic prosthesis into an implant-fixed prosthesis

Special Note to Dental Assistants
If you wish to attend a hands-on course, you may partner with a dentist for a special DA rate of $200/course.

LIMITED ENROLMENT: 20 participants (hands-on)
The cannabis craze: Dealing with reality – how to address substance abuse in the workplace

NADINE WENTZELL

Nadine Wentzell is a workplace drug and alcohol consultant who works with employers to help address the health and safety risks of substance abuse in the workplace. As a pharmacist consultant with over 25 years’ experience, many of which were spent as a narcotics inspector with Health Canada, Nadine brings a unique skillset and perspective on addressing the misuse and abuse of drugs and alcohol in the workplace.

COURSE OUTLINE
Whether your employees are using cannabis for medical or recreational purposes, the health and safety implications for workplaces are many. Managing this complex topic requires specialized knowledge in several key areas: how cannabis differs from alcohol in its impairing effects, the role of a workplace drug and alcohol policy, and strategies for effective workplace management.

COURSE OBJECTIVES
This session is designed to provide you with insight on proven strategies to educate your workforce, protect your organization, and mitigate overall risk. Current best practices will be presented and discussed.

Join us for Dalhousie’s Faculty of Dentistry Alumni Social

Friday, February 8, 2019
5:30 pm - 7:00 pm
Tide & Boar Gastropub
700 Main Street, Moncton, NB

For more information or to register, contact
Melanie Bremner at:
melanie.bremner@dal.ca or 902.494.2431

A portion of this program is being generously sponsored by an unrestricted educational grant from Hallmark Dental Laboratory.
Contemporary implant dentistry

PIERRE-LUC MICHAUD, DMD, MSc, Cert. Prostho, FRCD(C)

Dr. Pierre-Luc Michaud is a prosthodontist and an associate professor at Dalhousie University. He received his dental degree from Université de Montréal in 2007 and his prosthodontic degree in 2011. He joined Dalhousie University full time in 2012 and is now the course director for the Prosthodontics 3 and Prosthodontics 4 courses. Dr. Michaud’s research interests include implant dentistry, biomaterials, and surface bonding. He actively maintains a private practice in the Dalhousie intramural faculty practice, where he covers all aspects of prosthodontics. He is also a fellow and examiner of the Royal College of Dentists of Canada in prosthodontics and serves as a member of the editorial review board for the Journal of Prosthetic Dentistry.

COURSE OUTLINE
This course will cover several aspects of implant dentistry, with a focus on treatment planning and the restorative phase for various situations. A wide array of cases will be presented during the course, from single and multiple missing teeth to fully edentulous patients. The didactic lecture will cover a variety of topics, including treatment options and planning, implant options, esthetic optimization, options for prosthetic design and the choice of components, and the management of vertical space in totally edentulous patients.

COURSE OBJECTIVES
At the end of this course, participants will have a general understanding of how to make the ideal treatment plan in implant dentistry. Special consideration will be given to ensuring a stable and esthetic outcome.

Topics include:
• Treatment planning
• Choice of implant and components
• Improving esthetic outcome
• Single unit, multiple units, and edentulous patients

A portion of this program is being generously sponsored by an unrestricted educational grant from Hallmark Dental Laboratory, Hansamed, and Nobel Biocare.
SATURDAY, MARCH 2, 2019

Mastering restorative dentistry, A to Z: Adhesion to zirconia

ALAN ATLAS, DMD

Dr. Alan Atlas received his DMD degree from the University of Pennsylvania School of Dental Medicine and is currently a clinical professor in the departments of endodontics and preventive and restorative sciences. He is co-director of the Endodontic-Restorative Microscopy and Technology Clinic and is involved in the development and integration of clinical research studies for ceramics, CAD-CAM, and dental materials.

Dr. Atlas is selected annually by his peers as a "top dentist" in Philadelphia, and publishes on various topics in dentistry, including innovative research and clinical protocols on esthetic restorations. He lectures internationally and maintains a private practice that is dedicated to esthetic and comprehensive restorative dentistry.

COURSE OUTLINE
There are key concepts that will determine the long-term favorable outcome of composite and ceramic restorations. This interactive presentation will provide treatment planning guidelines with scientific updates of adhesive systems and esthetic materials. Evidence-based, step-by-step protocols for preparation, placement, and finishing techniques to achieve precise margins and eliminate post-operative sensitivity will be demonstrated with the dental microscope HD video.

COURSE OBJECTIVES
At the end of this course, participants will:
• Have a greater knowledge of the best adhesives and materials for specific cavity preparations and innovative ceramic options for crowns, inlays, onlays, and veneers
• Be able to use simplified protocols for preparing, placing, and finishing posterior composites restorations
• Know how to achieve precise margins and consistent contacts, and eliminate post-operative sensitivity
• Be able to demonstrate step-by-step preparation techniques with the dental microscope HD video using specific diamonds for perfect finish lines for all ceramic crowns, veneers, inlays, and onlays
• Understand the scientific and clinical differences between intra-oral scanning/chairside milling versus conventional impressions and lab-directed scanning and milling
• Be able to use simple and predictable smile design methods to plan esthetic anterior restorations, including veneers and full-mouth reconstruction.
FRIDAY, MARCH 8 AND SATURDAY, MARCH 9, 2019

Small field of view cone beam computed tomography for dentistry: Applications and interpretation

CURTIS GREGOIRE, BSc, DDS, MD, MSc, FRCD(C)

Dr. Curtis Gregoire is an assistant professor at Dalhousie University where he is actively involved in both undergraduate and graduate teaching in the Faculty of Dentistry. He completed his oral and maxillofacial surgery training at Dalhousie University in 2008 and a fellowship in head and neck oncology and pathology at Legacy Emanuel Hospital in Portland, OR in 2009. He is currently the program director for the Oral and Maxillofacial Surgery Residency Program at Dalhousie University and the division head of Oral and Maxillofacial Radiology.

COURSE OUTLINE
This three-day hands-on course offers both didactic and clinical hands-on instruction. The third day, March 29, involves an introduction to a CBCT unit and a 3-hour examination. This certification course will meet the PDBNS CBCT requirements. Participants will be required to read some course material in advance of the course, and it will be distributed about one week prior to the start of the course through Dal’s LMS - Brightspace.

COURSE OBJECTIVES
At the end of this course, participants will know more about:

• Radiation biology and physics
• Radiographic anatomy
• Indications for the use of CBCT
• Radiographic approaches to different conditions
• Interpretation and case reporting
• Patient positioning
• Image prescription

LIMITED ENROLMENT: 24 participants

A portion of this program is being generously sponsored by an unrestricted educational grant from Nobel Biocare and Sinclair Dental.
Photons to voxels – the new role of 3D imaging in dentistry

BRUNO AZEVEDO, DDS, MS

Dr. Bruno Azevedo has been an assistant professor at the University of Louisville School of Dentistry in the Department of Surgical and Hospital Dentistry since 2014. Prior to this, he was a founding faculty member at Western University of Health Sciences, College of Dental Medicine in Pomona, California. He attended the University of Texas Health Science Center in San Antonio, where he received both a certificate in oral maxillofacial radiology and a masters in dental diagnostic science in 2009. He is a Diplomate of the American Board of Oral and Maxillofacial Radiology. Dr. Azevedo operates an intramural CBCT imaging facility at the University of Louisville and provides consulting services in oral maxillofacial radiology with an emphasis on 3D imaging and 3D printing.

COURSE OUTLINE
Cone beam computed tomography (CBCT) is one of the most exciting topics in dentistry today. 3D imaging is becoming an essential part of patient care to help guide treatment planning and to improve treatment outcomes. Understanding 3D imaging technologies and knowing how to interact with 3D data are necessary in today's modern dental practice. This lecture is designed to provide general dentists and specialists with the latest information regarding advances in the field of oral radiology. This interactive and evidence-based course will focus on current digital trends regarding 3D cone beam computed tomography (CBCT) imaging applications.

COURSE OBJECTIVES
Topics include:

• Overcoming patient fear of dental x-rays/radiation
• The impact of 3D imaging and treatment planning
• Troubleshooting 3D acquisition problems
• 3D imaging navigation principles
• How to systematically review 3D scans
• 3D imaging integration to CAD/CAM and 3D printing technologies
### October 2018

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<tr>
<th>Date</th>
<th>Event</th>
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<th>Presenter(s)</th>
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<tbody>
<tr>
<td>Saturday, October 13, 2018</td>
<td>Paediatric dentistry update 2018</td>
<td>St. John’s, NL</td>
<td>Dr. Ross Anderson</td>
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<tr>
<td>Saturday, October 20, 2018</td>
<td>Contemporary fixed prosthodontics</td>
<td>Saint John, NB</td>
<td>Dr. Pierre-Luc Michaud</td>
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<tr>
<td>Friday, October 26 &amp; Saturday, October 27, 2018</td>
<td>Obstructive sleep apnoea: A multi-health disciplinary approach with an emphasis on oral appliances</td>
<td>Halifax, NS</td>
<td>Drs. Fernando Almeida, Dr. Reginald Goodday, Dr. Richard Batya, Dr. Margaret Rajda, Dr. Daniel Stuart</td>
<td>Limited enrolment: 24 participants (hands-on)</td>
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### November 2018

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<tr>
<td>Saturday, November 3 &amp; Sunday, November 4, 2018</td>
<td>Small field of view cone beam computed tomography for dentistry: Applications and interpretation</td>
<td>Halifax, NS</td>
<td>Dr. Curtis Gregoire</td>
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<tr>
<td>Saturday, November 17, 2018</td>
<td>The cannabis craze: Dealing with reality – how to address substance abuse in the workplace</td>
<td>Halifax, NS</td>
<td>Nadine Wentzell</td>
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### December 2018

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<tr>
<td>Saturday, December 8, 2018</td>
<td>R2C™ – the root to crown solution: The endodontic CE solution from diagnosis through to restoration (lecture and hands-on)</td>
<td>Halifax, NS</td>
<td>Dr. Pierre-Luc Michaud</td>
<td>Limited enrolment: 24 participants (hands-on)</td>
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<tr>
<td>Saturday, December 23, 2018</td>
<td>Contemporary implant dentistry</td>
<td>Fredericton, NB</td>
<td>Dr. Pierre-Luc Michaud</td>
<td>Limited enrolment: 24 participants (hands-on)</td>
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<tr>
<td>Friday, January 26, 2019</td>
<td>Rehabilitation of the totally edentulous patient using implant-assisted prostheses (lecture and hands-on)</td>
<td>Halifax, NS</td>
<td>Dr. Pierre-Luc Michaud</td>
<td>Limited enrolment: 24 participants (hands-on)</td>
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<tr>
<td>Saturday, February 9, 2019</td>
<td>The cannabis craze: Dealing with reality – how to address substance abuse in the workplace</td>
<td>Moncton, NB</td>
<td>Nadine Wentzel</td>
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### March 2019

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<td>Saturday, March 2, 2019</td>
<td>Mastering restorative dentistry, A to Z: Adhesion to zirconia</td>
<td>Halifax, NS</td>
<td>Dr. Alan Atlas</td>
<td>Limited enrolment: 24 participants (hands-on)</td>
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<tr>
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<td>Small field of view cone beam computed tomography for dentistry: Applications and interpretation</td>
<td>Halifax, NS</td>
<td>Dr. Curtis Gregoire</td>
<td>Limited enrolment: 24 participants (hands-on)</td>
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### April 2019

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<tbody>
<tr>
<td>Saturday, April 6, 2019</td>
<td>Applying biological and mechanical fundamentals in mechanical instrumentation in clinical practice (lecture and hands-on)</td>
<td>Halifax, NS</td>
<td>Dr. Marcelo dos Santos, Dr. Isabel Mello</td>
<td>Limited enrolment: 24 participants (hands-on)</td>
</tr>
<tr>
<td>Friday, April 6, 2019</td>
<td>Staying ahead of the ultrasonic curve (lecture and hands-on)</td>
<td>Halifax, NS</td>
<td>Dani Botbyl</td>
<td>Limited enrolment: 14 participants (hands-on)</td>
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### May 2019

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<tr>
<td>Saturday, May 25 &amp; Saturday, May 26, 2019</td>
<td>Update on advanced periodontal instrumentation (lecture and hands-on)</td>
<td>Halifax, NS</td>
<td>Dr. Anna Pattison</td>
<td>Limited enrolment: 52 participants (hands-on)</td>
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Other events include:
- **PLENARY SESSION**
  - The role of dentists in the opioid crisis: A presentation and panel discussion
    - Dr. Maureen A. Allen, Dr. James Brady, Dr. Chris Lee, Dr. John Fraser

- **BREAKOUT SESSIONS (MORNING)**
  - Dental care for children with autism spectrum disorder and silver diamine fluoride: How to implement it in your clinical practice
    - Dr. Isabelle Chase, Dr. Tracy Doyle
  - Oral manifestations of systemic diseases: The mouth as the window into the body
    - Dr. Carol Anne Murdock-Kinch
  - Approach to interpretation of cone beam computed tomography and clinical pharmacology
    - Dr. Curtis Gregoire, Dr. Chris Lee

- **BREAKOUT SESSIONS (AFTERNOON)**
  - Preventing impacted maxillary canines in 9 to 10-year-old patients & care of patients with cleft lip and palate
    - Dr. Jean-Charles Doucette, Dr. Kathy Russell
  - The millennial patient and the colourful world of piercing and other bod mods
    - Dr. Sara Gordon, Dr. Sachin Seth
  - What is current in dental hygiene practice: Short presentations
    - Effective biofilm and stain removal
    - Oral cancer screening: Breaking the time barrier
    - Silver diamine fluoride: What’s all the buzz about?
    - Facial trauma
      - Dr. James Brady, Dr. Robert Green
Saturdays, April 6, 2019

Applying biological and mechanical fundamentals in mechanical instrumentation in clinical practice (lecture and hands-on)

Marcelo dos Santos, DDS, MSc, PhD and Isabel Mello, DDS, MSc, PhD, FRCD(C)

Dr. Marcelo dos Santos received his DDS degree in 1981 from OSEC University and completed both his Masters in Endodontics and his PhD at the University of São Paulo (USP) in 1990. He is an associate professor at USP where he has been teaching since 1987, both in the undergraduate and graduate programs. He is the chairman of endodontics at the University of Brazil and director of the endodontics residency program at FUNDECTO-USP, APCD-Santo Andre, ABO-Osasco and IIMDS-Porto, Portugal. Dr. Santos has mentored several postgraduate students and has published over 120 papers in peer-reviewed journals.

Dr. Isabel Mello received her DDS degree from the Federal University of Alfenas, Brazil in 1996, and then completed her residency and Master of Sciences in Endodontics degree at USP. In 2008, she defended her PhD in Dental Sciences in a joint program between USP and the University of British Columbia. She moved to Nova Scotia in 2014 to become division head of endodontics at Dalhousie University. She has received three teaching awards, including the prestigious W.W. Wood award for excellence in dental education. Actively involved in research, Dr. Mello has published over 30 papers in peer-reviewed journals and is a reviewer for the Journal of Endodontics. She is a fellow of the Royal College of Dentists of Canada, a member of the American Association of Endodontists and the Canadian Academy of Endodontics, and a guest mentor for the East Coast Endodontic Study Club. Dr. Mello is also a consultant at the IWK Health Centre and maintains an endodontic practice in Dartmouth.

Course Outline

This course is designed to improve a clinician’s ability to manage anatomic and microbiologic challenges during endodontic treatment using mechanical instrumentation and ultrasonic tips. Participants will learn how to select the best instruments for a case and to work efficiently with a dental assistant. The hands-on session will allow participants to experiment with different instruments and tips in simulated canals to achieve the best possible outcome.

Course Objectives

Topics include:

• How anatomic complexities interfere with instrument selection
• The mechanical concepts of NiTi instruments and how to make them work for you
• The difference between different systems kinematics: rotary, reciprocation, and hybrid
• How the use of ultrasonic can help maximize instrumentation
• The use of different file systems and ultrasonic tips in simulated canals

Limited Enrolment: 24 participants (hands-on)

A portion of this program is being generously sponsored by an unrestricted educational grant from Clinical Research Dental, Dentsply Sirona, and Kerr Endodontics.
Early Bird Deadline
March 15, 2019

Registration Check-in
8:30 am

Course Times
9:00 am to 4:00 pm

CE Credits
3 lecture hours
3 hands-on hours

Limited Enrolment
14 participants
(hands-on)

Location
Dalhousie University
Faculty of Dentistry
5981 University Avenue
Halifax, NS

SATURDAY, APRIL 6, 2019
HALIFAX, NS

Staying ahead of the ultrasonic curve (lecture and hands-on)

DANI BOTBYL, RDH, BEd

Dani Botbyl is a leading authority in ultrasonic education and has served as the national clinical educator with Dentsply Sirona Canada for the past 18 years. She has lectured nationally and internationally and has published numerous articles in industry and peer-reviewed journals. Current research interests include the educational preparedness of dental hygienists for ultrasonic instrumentation. This presentation will cover several clinically relevant topics focused on enhancing the practice of dental hygiene.

LECTURE SESSION COURSE OUTLINE
The science behind ultrasonic debridement is changing rapidly. Current research shows that Canadian dental hygienists are under using and incorrectly implementing ultrasonics. Case studies, clinical images, and video will be used to guide participants through a ‘start to finish’ ultrasonic debridement approach that will help dental hygienists to improve their ultrasonic technique. This course is appropriate for RDHs of all levels and users of magnetostrictive or piezoelectric technology.

COURSE OBJECTIVES
Course participants will learn about:

• The benefits and challenges of ultrasonic technology for the removal of calculus and biofilm
• The differences and similarities between traditional and contemporary ultrasonic debridement
• Different ultrasonic instrument characteristics (diameter, shape, cross section, length, tip activity) and the sequencing needed to reduce the adjunct use of hand instruments, rubber cup or air polishing
• The benefits and limitations of straight and curved ultrasonic instruments and gain confidence in using left and right inserts/tips
• Ways to achieve better patient comfort while using ultrasonic technology

HANDS-ON SESSION COURSE OUTLINE
The hands-on workshop is a continuation of the morning lecture. Participants will have the opportunity to try out enhanced ultrasonic technique skills as they rotate through quick-paced activities focused on the removal of simulated calculus and biofilm. RDHs of all levels and users of magnetostrictive or piezo technology will see improved clinical performance after completing this workshop.

COURSE OBJECTIVES
Topics include:

• The principles of ultrasonic instrumentation, including grasp, fulcrum, insertion, lateral pressure, activation, and adaptation
• The removal of calculus and biofilm, using a minimum of six different varieties of ultrasonic instruments
• The rationale for reducing/eliminating curettes
• Effective curved instrument adaptation in furcations, concavities and curved root surfaces in all four quadrants of the oral cavity. Participants will be asked to use a curved ultrasonic instrument to completely remove simulated biofilm from an artificial furcation.

LIMITED ENROLMENT: 14 participants (hands-on)

A portion of this program is being generously sponsored by an unrestricted educational grant from Dentsply Sirona.
7th annual bike and learn: A joint medicine and dental CE program (Asheville, North Carolina)

DR. CHAD ROBERTSON, DDS, MD, MSc, FRCD(C)

The 7th annual Bike and Learn will take place in North Carolina, US and will combine five days of cycling and CE. The event begins with a group dinner with the coaches from Carmichael Training Systems (CTS) on the evening of April 8, 2019, and we will cycle out of Brevard, North Carolina, the next day. Each day, we will finish riding by early afternoon and have a catered lunch at the CTS facility. The course will conclude by mid-afternoon on April 13th. The CE component of the program will take place in the evenings, from Tuesday to Friday. The line-up of speakers and presentations will be released in the coming weeks.

A block of rooms is on hold at the Hampton Inn and Suites Asheville Biltmore Village. The group rate is $149 USD for a room with two Queen beds and breakfast. The hotel is 10 miles from the Asheville Regional airport. The Greenville, SC, airport is 1 hr 20 min away and the Charlotte, NC, airport is 2 hrs away.

The cost of the cycling component is $1,199 USD. This includes:

- 5 days of riding with coaches
- mechanical support
- sag wagon
- on-bike nutrition and hydration
- 1 dinner and 5 lunches
- CTS jersey

Riders of all skill and fitness levels are welcome. It will be a great week of cycling and learning with a fabulous group of like-minded people.

A portion of this program is being generously sponsored by an unrestricted educational grant from KLS Martin Group.

If you wish to attend the 7th Annual Bike and Learn, you must contact Dr. Robertson at chad.robertson@dal.ca. Dr. Robertson will also answer any questions you may have.

Note: Dr. Robertson and a number of other participants will be arriving on Saturday, April 6 to enjoy a couple of additional days of riding prior to the start of the course. Please feel free to join them.
Contemporary management of dental traumatic injuries

Jennifer MacLellan, DDS, MSc, Cert. Paed., FRCD(C), ABPD Diplomate

AND Isabel Mello, DDS, MSc, PhD, FRCD(C)

Jennifer MacLellan graduated from Dalhousie University with a DDS degree in 1994. She practiced general dentistry in Truro for eight years prior to completing her master of science degree and certificate in the specialty of pediatric dentistry at the University of Michigan. Since 2005, she has been a staff paediatric dentist at the IWK Health Centre and associate professor at Dalhousie University. Dr. MacLellan is an NSDA Governing Council member, vice-president of the Canadian Academy of Pediatric Dentistry, and serves on the NDEB and American Board of Pediatric Dentistry written examination committees.

Dr. Isabel Mello received her DDS degree from the Federal University of Alfenas, Brazil in 1996, and then completed her residency and Master of Sciences in Endodontics degree at USP. In 2008, she defended her PhD in Dental Sciences in a joint program between USP and the University of British Columbia. She moved to Nova Scotia in 2014 to become division head of endodontics at Dalhousie University. She has received three teaching awards, including the prestigious W.W. Wood award for excellence in dental education. Actively involved in research, Dr. Mello has published over 30 papers in peer-reviewed journals and is a reviewer for the Journal of Endodontics. She is a fellow of the Royal College of Dentists of Canada, a member of the American Association of Endodontists and the Canadian Academy of Endodontics, and a guest mentor for the East Coast Endodontic Study Club. Dr. Mello is also a consultant at the IWK Health Centre and maintains an endodontic practice in Dartmouth.

Refer to CPE website for course details
dal.ca/dentistry/cde

Course information will be available in February.
Local anesthesia for the dental hygienist (lecture and hands-on)

BEN DAVIS, DDS, FRCD(C), JEAN-CHARLES DOUCET, DMD, MD, MSc, FRCD(C) AND JAMES BRADY, BSc, DDS, MSc

Dr. Ben Davis finished his oral and maxillofacial surgery training at the University of Toronto and then completed fellowship training at Dalhousie. He is currently dean at the Dalhousie Faculty of Dentistry. Dr. Davis is an examiner for the Royal College of Dentists of Canada and is on active staff at the QE II Health Sciences Centre and consulting staff at the IWK Health Centre. Dr. Davis’s interests include pain management, TMJ surgery, trauma, and facial reconstruction.

Dr. Jean-Charles Doucet completed his DMD degree at the University of Montreal, followed by a general practice residency at Notre-Dame Hospital, Montreal. He obtained his MSc in oral and maxillofacial surgery and his MD from Dalhousie University. He completed a cleft craniofacial fellowship at the University of Montpellier-1, France. He recently joined the staff at the QE II Health Sciences Centre and IWK Health Centre. He is also a professor of the division of oral and maxillofacial surgery at Dalhousie.

Dr. James Brady completed his DDS degree at Dalhousie University, followed by the GPR program at the University of Western Ontario, and the six-year MD/MSc in OMFS at Dalhousie. He pursued advanced training in trauma, and cleft lip and palate surgery in Glasgow, Scotland. Dr. Brady has a wide scope of practice, including dentoalveolar, trauma, orthognathic, pathology, and TMJ surgery, and he teaches at the Dalhousie University Faculty of Dentistry where he is a part-time faculty member in the OMFS department. Dr. Brady is a fellow of the Royal College of Dentists, a member of the Canadian Dental Association, the Canadian Association of Oral and Maxillofacial Surgeons, and the Halifax County Dental Society, and he is registered with the General Medical Council in the UK.

COURSE OUTLINE
This four-day course will provide dental hygienists with both didactic and clinical hands-on training in the administration of local anesthesia. The didactic lectures will cover the following topics:

- Neurophysiology of pain
- Mechanism of nerve blockade
- Assessing patients for local anesthesia
- Pharmacology of local anesthetics
- Pharmacology of vasoconstrictors
- Calculating doses administered
- Armamentarium
- Local and systemic complications of local anesthesia and their management
- Basic maxillary local anesthesia techniques
- Basic mandibular local anesthesia techniques
- Local anesthesia failures and their management
ADVANCED LOCAL ANESTHESIA TECHNIQUES PRE-COURSE
Two months prior to the course, the lecture material and a "self-assessment" quiz will be distributed electronically to all participants to allow for self-directed learning.

COURSE OBJECTIVES
Upon completion of this course, participants should have an appreciation of the necessary basic knowledge:

- In medicine, anatomy, physiology, pharmacology for the successful administration of local anesthesia for the dental hygiene patient
- The clinical hands-on training will allow participants to learn basic maxillary and mandibular local anesthesia techniques by performing on fellow course participants under local anesthesia

LIMITED ENROLMENT: 34 participants
FRIDAY, APRIL 26, 2019

Medical emergencies for the dental office
(lecture and hands-on)

LAUREL MURPHY, MD, FRCPC, CHRIS LEE, DDS, MSc, GPR, DARRYL CHICKNESS, CCP(F)
AND SUE MURPHY, BScN, RN

PRESENTER BIOS

Dr. Laurel Murphy practises as an emergency physician at the Halifax Infirmary. She completed medical school at the University of Toronto and residency training in emergency medicine at Dalhousie University. She is currently completing a fellowship in Critical Care Medicine, also at Dalhousie.

Dr. Chris Lee completed a MSc in pharmacology at the University of Ottawa before attending dental school at Dalhousie University. He completed a general practice residency program at Vancouver General Hospital and he practised in Ottawa before returning to Nova Scotia to design and implement a GPR program at the Faculty of Dentistry and run the emergency dental clinic. He is a consultant to the National Dental Examining Board of Canada.

Darryl Chickness is a critical care flight paramedic with air and ground ambulance and emergency department experience. He is co-owner of Frontline Medical Training and Consulting Inc., which specializes in advanced education programs, such as Advanced Cardiac Life Support, Pediatric Advanced Life Support and trauma programs. In 2005, Chickness founded a medical charity called Bandage International, which provides education to the general public and hospitals so that they can be self-sustainable and treat their own.

Sue Murphy graduated from Dalhousie University with a BScN in 2005. She worked in the neonatal intensive care unit at the IWK Health Centre before joining the Faculty of Dentistry in 2015 as the clinical nurse, where she concentrates on oral surgery. Sue is a certified BLS instructor and a certified mental health first aid instructor.

COURSE OUTLINE

Medical emergencies can happen anywhere, and all dental professionals should be able to recognize and manage many common scenarios. This course is designed to give the entire dental team the knowledge and skills to approach medical emergencies that could occur in your practice. A unique feature of the course is the opportunity for hands-on training using simulators.

COURSE OBJECTIVES

Participants will learn how to prevent, recognize, and manage emergency situations:

• Get tips on interpreting medical tests and analyzing medical records
• Review relevant drugs and their interactions
• Emergency equipment you should have in your office
• Review normal and abnormal vital signs, and features of common emergencies
• Hands-on practice with emergency equipment
• Simulator-based learning of high-yield scenarios

LIMITED ENROLMENT: 40 participants

Attendees should be knowledgeable in basic CPR. This course is a prerequisite for the nitrous oxide CE course on April 27 and 28, 2019.
Oral sedation and nitrous oxide sedation for the dentist (lecture and hands-on)

CURTIS GREGOIRE, BSc, DDS, MD, MSc, FRCD(C), CHRIS LEE, DDS, MSc, GPR
AND SHANNON FITZPATRICK, BSc, DDS, Cert. Paed. FRCD(C), ABPD Diplomate

Dr. Curtis Gregoire is an assistant professor at Dalhousie University, where he is actively involved in both undergraduate and graduate teaching in the Faculty of Dentistry. He completed his oral and maxillofacial surgery training at Dalhousie University in 2008 and a fellowship in head and neck oncology and pathology at Legacy Emanuel Hospital in Portland, OR in 2009. He is currently the program director for the Oral and Maxillofacial Surgery Residency Program at Dalhousie University.

Dr. Chris Lee completed an MSc in pharmacology at the University of Ottawa before attending dental school at Dalhousie University. He completed a general practice residency program at Vancouver General Hospital and he practised in Ottawa before returning to Nova Scotia to design and implement a GPR program at the Faculty of Dentistry and run the emergency dental clinic. He is a consultant to the National Dental Examining Board of Canada.

Dr. Shannon Fitzpatrick completed her dental degree at Dalhousie University in 2000, practised in Ottawa for three years as a general dentist, and then moved to Prince Edward Island to work in Health PEI's Dental Public Health Children's program. She completed a two-year residency in paediatric dentistry at the Eastman Institute for Oral Health in Rochester, NY, in June 2017. She is a Fellow of the Royal College of Dentists of Canada and a Diplomate of the American Board of Pediatric Dentistry. Since 2017, she has been employed as one of five staff paediatric dentists in the Dental Department at the IWK Health Centre and she also teaches in the Faculty of Dentistry at Dalhousie University.

COURSE OUTLINE

This two-day course offers both didactic and clinical hands-on instruction in all aspects of nitrous oxide/oxygen inhalation in general practice. It also covers oral sedation as a single agent and in combination with nitrous oxide/oxygen. Participants will learn about, and have the opportunity to try, several types of systems. Participants will be required to read material (which will be distributed) in advance of the course.

COURSE OBJECTIVES

Topics include:

- Hands-on administration of nitrous oxide using various techniques and equipment
- Clinical pharmacology, including nitrous oxide and oxygen, patient assessment, and risk management
- Clinical pharmacology of oral sedative agents, including mechanism of action, drug interactions, contraindications and reversal agents
- Indications and contraindications for the use of nitrous oxide sedation, oral sedation, and combined nitrous oxide sedation and oral agents
- Nitrous oxide equipment and various techniques for nitrous oxide sedation
- Nitrous oxide contamination and scavenging
- Monitoring – keeping patients safe, emergency kit, tips and tricks, drug interactions

LIMITED ENROLMENT: 40 participants

A portion of this program is being generously sponsored by an unrestricted educational grant from Surgically Clean Air.
Update on advanced periodontal instrumentation
(lecture and hands-on)

ANNA PATTISON, RDH, MS

Anna Pattison received her BS in dental hygiene from the University of Southern California and her MS in dental hygiene from Columbia University. An associate professor at USC for over 40 years, she has served as chair of the Department of Dental Hygiene and is an internationally recognized speaker on advanced periodontal instrumentation.

Pattison is co-author of Periodontal Instrumentation and has contributed to the last seven editions of Glickman’s and Carranza’s Clinical Periodontology and the last four editions of Wilkins’ Clinical Practice of the Dental Hygienist. She is the former editor-in-chief of Dimensions of Dental Hygiene and is currently the co-director of the Pattison Institute, which offers online videos, lectures, and hands-on workshops in the US and abroad.

In 2005, she received the Pfizer-ADHA Excellence in Dental Hygiene Award and the USC School of Dentistry Alumnus of the Year Award. In 2006, she received the California Society of Periodontists Award and in 2010 she was inducted into the USC School of Dentistry Hall of Fame.

LECTURE SESSION COURSE OUTLINE
In the past five years, significant developments in high-tech devices, hand instruments and ultrasonic tips have changed the way we teach and practise. This presentation for dentists and dental hygienists will tell you about the newest hand instruments and ultrasonic units and tips that will enhance your ability to treat advanced periodontitis and/or implants. Periodontal endoscopy videos will show the effectiveness of various ultrasonic tips and hand instruments on residual, burnished calculus. Online instructional videos from the Pattison Institute will demonstrate alternative fulcrums, new instruments, and advanced techniques. The latest titanium mini-bladed hand instruments and ultrasonic tips for implants will be shown and compared to subgingival air polishing with glycine and subgingival irrigation with antimicrobials.

COURSE OBJECTIVES
At the end of this course, participants will be able to identify the objectives of periodontal debridement, recognize the design, indications and sequence for the use of different types of curets, and recognize the indications for extraoral, opposite arch, and other fulcrums.

Topics include:
• The latest concepts in root debridement. Are viruses more important than bacteria?
• The influence of the dental endoscope on instrument selection and sequence
• The use of different curets, titanium implant instruments, and other new periodontal instruments.
• A comparison of magnetostrictive and piezoelectric ultrasonic units and tip designs for periodontal and implant scaling.
• A new subgingival air polishing technique for periodontal and implant maintenance.
• The efficacy of subgingival irrigation with antimicrobials.
• Innovative extraoral, reinforced, cross arch and opposite arch fulcrums and positions.
HANDS-ON SESSION COURSE OUTLINE
Advanced periodontal instrumentation on periodontal typodonts ***
This full-day laboratory course for dentists and dental hygienists features TV demonstration and videos plus a team of experienced instructors who provide individualized instruction throughout the day. Advanced instrumentation techniques are taught on periodontal typodonts using sickles and several types of curets: universal, Rigid Gracey, Pattison Gracey Lite maintenance, After-Fives, Mini-Fives, Micro-Minis, Gracey Curvettes, Diamond, and furcation curets. Extraoral, reinforced, cross-arch, and opposite-arch fulcrums are incorporated into innovative approaches for furcations, line angles, and deep, narrow pockets. Sharpening with the aid of a video, root planning exercises, and root morphology review using extracted teeth are also included.

COURSE OBJECTIVES
Topics include:
• The characteristics of a proper fit for gloves
• A demonstration of close overlapping strokes on an extracted tooth with a Gracey curet
• The design, indications, and sequence for use of universal curets, Gracey curets, mini-bladed and Micro-mini-bladed Gracey curets, new Pattison Gracey Lite curets, sickle scalers, files, furcation curets, and diamond-coated instruments
• The use of universal curets, Gracey curets, mini-bladed and Micro-mini-bladed Gracey curets, Pattison Gracey Lite curets, sickle scalers, files, furcation curets, and diamond-coated instruments on a periodontal typodont
• Techniques for scaling maxillary, and mandibular furcations
• Intraoral, finger-on-finger, extraoral, opposite arch, and reinforced fulcrums

***Participants are asked to bring safety glasses. Attendees are advised not to wear white clothing. Typodonts, poles, and complete instruction kits will be provided for use during the course.

LIMITED ENROLMENT: 50 participants (hands-on)

PHILIPS
INDUSTRY EXCLUSIVE SPONSOR

LEVEL 2 SPONSORS

A portion of this program is being generously sponsored by an unrestricted educational grant from Philips, Surgically Clean Air, Sunstar, Hu-Friedy, Park Lane Periodontics, and HANSAmed.
Building Access – Weekends and Evenings

The Faculty of Dentistry Building is located at 5981 University Avenue. If your CDE course takes place in the evening or on a weekend, please note there is no access off College Street due to the on-going clinic renewal construction. After-hours access to the Dentistry Building will be available at the main entrance located on University Avenue.

PARKING

We do not provide parking on campus, and are not responsible for parking tickets or any lost or stolen personal articles. Plan to arrive early for your CDE course to allow time for parking. There are two-hour public parking meters located on University Avenue and College Street and five-hour meters on Robie Street. Payment at public parking meters is in effect from 8 am to 6 pm, Monday to Friday, excluding holidays. In addition, the IWK Health Centre has an above-ground parkade available at hourly rates.
# 2019 CE Course Fees

<table>
<thead>
<tr>
<th>CE Courses</th>
<th>Early Bird Fee</th>
<th>Registration Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DDS/MD</td>
<td>ADHP/ Others</td>
</tr>
<tr>
<td>Lecture – full day</td>
<td>$350</td>
<td>$150</td>
</tr>
<tr>
<td>Lecture – half day</td>
<td>$175</td>
<td>$100</td>
</tr>
<tr>
<td>Lecture and hands-on – full day</td>
<td>$575</td>
<td>$350</td>
</tr>
</tbody>
</table>

## Exceptions

### March 8 & 9, 2019
Small field of view cone beam computed tomography for dentistry: Applications and interpretation

### April 8 to 13, 2019
7th annual bike and learn: A joint medicine and dental CE program

*Note: Cost is for cycling component only; hotel and airfare is an additional cost.*

### April 27 & 28, 2019
Oral sedation and nitrous oxide sedation for the dentist (lecture and hands-on)

### May 24 & 25, 2019
Update on advanced periodontal instrumentation (lecture and hands-on)

- Lecture only – May 24th
- Lecture and hands-on – May 24th and 25th

### SPECIAL OFFERS:
Pay for 3 CE courses from our 2019 program by February 15 and get 50% off your 4th CE lecture course.

Group rates are available when registering four or more people. Contact the CPE office for more information.

### SPECIAL NOTE TO DENTAL ASSISTANTS:
If you wish to attend a hands-on course, you may partner with a dentist for a special DA rate of $200/course.
Continuing Professional Education Policies

COURSE CANCELLATION POLICY
Dalhousie University’s Faculty of Dentistry reserves the right to cancel any course if there is not sufficient registration or there are circumstances beyond our control. In the event of a cancellation, please submit your request for a refund by fax or email.

EARLY BIRD REGISTRATION FEE
In order to receive the early bird discounted fee, your payment must be received by the CPE office by 4:00 pm on the last day of the early bird deadline date.

REGISTRATION WITHDRAWAL POLICY
If you are withdrawing your registration from a course, notify us by fax or email before the early bird deadline date. Course withdrawals are subject to a $50 processing fee for a lecture course and $100 for a hands-on course, including the local anesthesia course.

PHOTOGRAPHY
Occasionally a photographer may be present at courses and take photographs of instructors and attendees for marketing and advertising purposes. Participants who do not wish to be photographed should inform a CPE staff member.

CLINIC PROTOCOLS AND INFECTION CONTROL
Hands-on CE courses
Prior to the start of each hands-on course, it is the responsibility of the course participant to be familiar with the infection control protocol of the Faculty of Dentistry’s Infection Control Manual. The Infection Control Manual is available on the Faculty of Dentistry website at: https://cdn.dal.ca/content/dam/dalhousie/pdf/dentistry/IC%20Manual%2713.pdf.

If you are attending a hands-on course, participants must follow the protective attire guidelines for the labs and clinics. Participants are required to bring a lab coat, wear close-toed shoes, and safety eyewear. Masks and gloves will be provided.
Notes
CDE 2019 Courses
Fall Term (September 2019 – December 2019)

Saturday, September 28, 2019 (Halifax, NS)
Faculty of Dentistry – CE Day

Saturday, October 19, 2019 (Wolfville, NS)
Oral Pathology

Saturday, October 26, 2019 (Saint John, NB)
Topic – TBD

Saturday, November 2, 2019 (Halifax, NS)
Dental photography simplified

Saturday, November 16, 2019 (Halifax, NS)
Dental care for persons with intellectual disabilities and other special health care needs

Saturday, November 23, 2019 (St. John’s, NL)
The cannabis craze: Dealing with reality – how to address substance abuse in the workplace

Saturday, November 30, 2019 (Halifax, NS)
Topic – TBD (lecture and hands-on)

Refer to the front inside cover for Winter 2019 courses.
REGISTRATION FORM

DENTIST □ DENTAL HYGIENIST □ OTHER □

please specify (ie: dental assistant, dental technician)

COURSE DATE ___________ TUITION FEE $ ___________ COURSE TITLE ____________________________

COURSE DATE ___________ TUITION FEE $ ___________ COURSE TITLE ____________________________

COURSE DATE ___________ TUITION FEE $ ___________ COURSE TITLE ____________________________

COURSE DATE ___________ TUITION FEE $ ___________ COURSE TITLE ____________________________

DISCOUNT __________________

LAST NAME ___________________ FIRST NAME ___________________ INITIALS ___________________ DAYTIME TELEPHONE NUMBER ___________________

MAILING ADDRESS __________________________________________________________

CITY ___________________ PROVINCE ___________________ POSTAL CODE ___________________

EMAIL ADDRESS __________________________________________________________

PAYMENT INFORMATION

VISA □ MASTERCARD □ AMEX □ CHEQUE IS ENCLOSED □

CARD # ___________________________ EXPIRY DATE ___________ CHEQUES TO BE MADE PAYABLE TO DALHOUSIE UNIVERSITY

SIGNATURE __________________________________________________________

Full course payment required at time of registration. The tuition fee is deductible for Canadian Income Tax purposes.

Please see page 23 for course cancellation policies.

HOW TO REGISTER

1. Register by Email
   Email your registration information to: cde.dentistry@dal.ca

2. Register by Phone
   Call 902.494.1674

3. Register by Fax
   Fax the completed form to: 902.494.1662

4. Register by Mail
   Mail the registration form with payment to:
   Continuing Dental Education
   Faculty of Dentistry
   Dalhousie University
   5981 University Avenue
   PO Box 15000
   Halifax NS B3H 4R2