DATE: Friday, September 22, 2017; Registration 8:00 – 8:25 a.m., Program 8:30 a.m. – 4:30 p.m.
LOCATION: College of Dentistry, Galagan Auditorium
CE CREDIT: 7 hours relicensure course

REGISTRATION DEADLINE IS SEPTEMBER 8, 2017
THE PROGRAM and OBJECTIVES

**Topic 1 and 2: Endodontic Biofilm and Disinfection: Foundation and Advances**
Endodontic disease is known as the host-immune response to the existence of opportunistic oral bacteria as biofilms within a previously sterile pulp space. The response of host-immune system to microbial biofilm is distinctly different to their planktonic counterpart. Consequently, different clinical presentations are possible when they are associated with a chronic disease. Thus microbial biofilms are considered the key therapeutic target in the treatment of endodontic disease. This lecture will cover the evolving perspectives of root canal biofilm in disease, root canal irrigation dynamics and current status of root canal irrigation strategies.

**Topic 3: Fractures in Endodontically Treated Teeth: Common Risk Factors and Strategies for Avoidance**
Fractures of endodontically treated teeth are not an uncommon occurrence in clinical practice. Iatrogenic and non-iatrogenic risk factors have been associated with the loss of mechanical integrity in restored root-filled teeth. This lecture will offer a biomechanical foundation to explain the causes and steps to prevent clinically relevant fractures in root-filled teeth.

**Topic 4: Nanomaterials in Endodontics: A Potential Game Changer**
The major challenge in any endodontic regenerative procedures is the inability to recondition previously infected root dentin, which in turn would support tissue engineering. This lecture will cover the challenges involved in regenerative endodontic procedures, and the fundamentals of novel nanomaterial based strategies for biologically based endodontic therapy.

**At the completion of the program, participants should be able to:**
- Know the basics of biofilm-mediated infections and their role in disease process;
- Understand the challenges involved in root canal disinfection;
- Know the steps to improve efficacy of root canal disinfection;
- Know the biomechanical response of endodontically treated teeth to forces;
- Understand the causes and role of risk factors for fractures in endodontically treated teeth;
- Understand the essentials of regenerative based endodontic procedures;
- Know the basics of bioactive nanoparticles; and
- Understand the application of bioactive nanoparticles for regenerative endodontics.

**PROGRAM SCHEDULE**

8:00 a.m.  Registration, College of Dentistry, First Floor
8:30  Welcome and Opening Remarks – Ms. Penni Ryan
8:35  Bacterial Biofilm: What Clinicians Should Know
9:45  Break
10:00  Endodontic Disinfection: Foundations and Advances
12:00 N  Lunch
1:00 p.m.  Fractures in Endodontically Treated Teeth: Common Risk Factors and Strategies for Avoidance
2:15  Break
2:30  Nanomaterials in Endodontics: A Potential Game Changer
4:30  Adjourn
Anil Kishen, BDS, MS, PhD, is a Professor of Endodontics at the University of Toronto, Faculty of Dentistry in Toronto, Canada. Dr. Kishen received his BDS from the University of Madras, and his MS in Endodontics & Operative Dentistry from the Tamil Nadu Dr.MGR Medical University, Madras, India. He subsequently received his PhD in Biomedical Engineering from the Nanyang Technological University, Singapore. After his stint as Assistant Professor at the Faculty of Dentistry in the National University of Singapore, he moved to the Faculty of Dentistry in the University of Toronto, where he is currently a full Professor of Endodontics.

Dr. Kishen has published over 200 peer-reviewed publications, and is a co-inventor in 8 patents/invention disclosures. He is a recipient of many awards and honors including, The Enterprise Challenge Innovator Award in Singapore, Honorary Diplomate of the Indian Board of Endodontics, the AAE Foundation-Denstply-Research Excellence Award (2014) and the Journal of Endodontics Publication Awards (2015, 2016). Dr. Kishen has published 19 book chapters, and has co-edited three textbooks. He serves as an Associate Editor for the Journal of Endodontics, Endodontic Topics and BMC Microbiology and serves as an Editorial Board Member for several international journals. At the University of Toronto, Dr. Kishen is involved with the undergraduate/graduate level teaching and is the Principal Investigator of a research lab, funded by the Canadian Foundation of Innovation, American Association of Endodontists Foundation and Natural Sciences & Engineering Research Council of Canada.
The College of Dentistry and the Center for Conferences will make every reasonable effort to assure that requested continuing education programs are provided, but assumes no liability for failure to deliver beyond the refunding of any fees paid to The University of Iowa. The University of Iowa reserves the right to limit registration to the size of the available classroom or clinical space. Sponsorship of this course does not imply subject matter, product or technical endorsement. This material is offered to the profession for educational and informational purposes in a spirit of academic freedom.

**PRE-REGISTRATION:** Pre-registration is recommended at least two weeks before course date – September 8, 2017.

**REGISTRATION OPTIONS:** Registrations will not be accepted without payment. You may register using any of the following methods:

- **Online registration at:** www.continuetolearn.uiowa.edu/UIConferences/
  For Full-Day **Only**
- **Mail your registration form and check or credit card information to the address indicated**
- **Phone your credit card information to Center for Conferences:** 1-800-551-9029 (local: 335-4141)
- **FAX your credit card information to Center for Conferences:** 1-319-335-4039

**CANCELLATIONS/REFUNDS:** Fees paid will be refunded less a $55 per person processing fee following notice of cancellation. Refunds will not be granted for cancellations received after the course begins. For registrations charged to your credit card, the refund will be credited to your account. If insufficient enrollment necessitates canceling a course, all fees will be refunded.

**CONTINUING EDUCATION CREDIT/RECORD KEEPING:** CEU verification will be provided (by email following the program) only for those individuals completing/submitting a CEU card at the completion of the program. Credit will be appropriately adjusted for those individuals who do not attend the entire program. All attendees are encouraged to submit a CEU card which will ensure that a letter documenting attendance will be sent following the program. The University of Iowa College of Dentistry designates this activity for 7 hours continuing education credit (0.7 CEU).

**FOOTBALL TICKETS:** Full day course registrants will receive first priority for football ticket purchases. After that, tickets will be available on a first come, first served basis. Tickets for Iowa vs. Penn State on 9/23/17 are available at $95 each plus a $1 per ticket handling fee (limit 2 tickets per registration). Ticket requests will be filled until supply is exhausted. To order tickets, you must register and prepay for the continuing education program. Tickets MUST be picked up at the course registration desk before course adjournment. Tickets will not be mailed. Payment for tickets cannot be refunded except when ticket supply is exhausted during the pre-registration period. Tickets cannot be transferred with a registration to another course.

**HOUSING:** A limited number of rooms have been reserved at the:

- **Heartland Inn located at 87 Second Street, Coralville, IA 52241; Phone 1-319-351-8132**
  Use the Code: College of Dentistry – (release date 8/26/17).

Please indicate that you are attending the College of Dentistry's continuing education program and designate the appropriate code when making your reservations. The rooms will be held until supply is exhausted or release dates as previously stated. It is the responsibility of registrants to reserve their own lodging.

**PARKING:** Parking is included with the course registration. All registrants must be pre-registered to gain entrance to the Dental visitor's parking lot. Bring your course confirmation letter with you to ensure admittance to the lot. Otherwise, you may be directed to a remote lot.

**COMFORT ZONE:** Although every effort is made to have a comfortable temperature in the meeting room, we realize everyone's comfort zone is different. Please bring a jacket or sweater in case the room is too cool for your comfort.

**THANK YOU FOR PARTICIPATING** in our continuing dental education courses. We appreciate your support and interest in our dental programs. Your patronage allows us to provide the highest quality and most current education in dentistry. If you have any suggestions for the Office of Continuing Education or would like further information about our programs, please visit us online at www.dentistry.uiowa.edu/ce or contact:

Ms. Penni Ryan, Director | Continuing Dental Education | The University of Iowa
346 Dental Science N | Iowa City, IA 52242-1010
319/335-7166 | penni-ryan@uiowa.edu

**We look forward to seeing you at our programs!**

*Individuals with disabilities are encouraged to attend all University of Iowa sponsored events. If you are a person with a disability who requires a reasonable accommodation in order to participate in this program, please contact Penni Ryan in advance at 319-335-7166.*

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