

Health Technology Committee Meeting Agenda	
February 8, 2017	12:00 – 12:50; N304
Dr. Erica Teixeira, Chair	Recorder: Ms. Lauren Moniot

Agenda Items	Responsible Individual
1. Approval of January 11, 2017 Minutes	E. Teixeira
2. CAD/CAM Scholarship application – Review & Selection	E. Teixeira
3. Predoctoral Endodontics Technology Request	E. Teixeira
4. CDT/Digital – Update on search position	E. Teixeira
5. Next Meeting: March 8, 2017	

Action Items			
Status	Action to be taken	Responsible	Due Date
Pending	HTC Content on Intradent	Maia/Garcia	
Pending	Educational video tutorials re: digital equipment	Restrepo-Kennedy/Maia/Medin	

Health Technology Committee (2016-2017)

Dr. Erica C. Teixeira – Chair
 Dr. Zeina I. Al-Salihi
 Dr. Piriya Boonsiriphant
 Dr. Manuel R. P. Gomez
 Dr. David A. Jones
 Dr. Leo Marchini
 Mr. Charles W. McBrearty
 Mr. Ivan Medin
 Dr. Patricia K. Meredith
 Dr. Michael D. Murrell
 Dr. Rodrigo Rocha Maia
 Dr. Kyle M. Stein
 Dr. Marcos Vargas
 D3 – Elliott Glenn

ex officio:
 Dr. Veeratrishul Allareddy, University Academic Technology
 Advisory Committee
 Dr. Ronald D. Elvers, Director of Clinics
 Dr. Lily T. Garcia, Associate Dean for Education
 Ms. Michelle M. Krupp, Director of Education Development
 Dr. Galen Schneider, Executive Associate Dean

Health Technology Committee

Minutes – February 8, 2017

Members Present: Drs. Erica Teixeira (Chair), Zeina I. Al-Salihi, Manuel Gomez, David A. Jones, Leo Marchini, Patty Meredith, Michael D. Murrell, Rodrigo Rocha Maia, Marcos Vargas, Trishul Allareddy, Mr. Charles W. McBrearty, Mr. Ivan Medin and Elliott Glenn (D3)

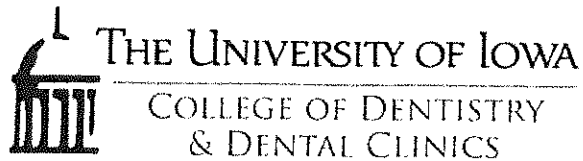
Absent: Drs. Piriya Boonsiriphant, Kyle Stein, Ron Elvers, Lily T. Garcia and Galen Schneider⁸⁶

Guest: n/a

Meeting called to order 12:03 p.m.

- I. **Approval of January 11, 2017 Minutes** – Dr. Erica Teixeira
 - Approved
- II. **CAD/CAM Scholarship application – Review & Selection** – Dr. Erica Teixeira
 - No dates have been announced for training yet, although may occur after the ADEA Annual Session in March 2017. Information about the CEREC-user session will be announced and occurs on March 17, 2017 at ADEA; only four (4) people can represent the College.
 - There are two (2) scholarships available to partially support attendance for CEREC training at their main education center. The committee has received four (4) applications. The committee opted to review applications for the “beginner” education program
 - After careful deliberations and voting, the following two faculty will be notified they have been selected to participate: Dr. Mike Murrell and Dr. Cristina Vidal.
- III. **Predoctoral Endodontics Technology Request-** Dr. Manuel Gomez
 - Presentation was made to describe the need, rationale for improvement of the educational experience. (*Please see attachment*) The request reflects a purchase of ~80 units, specifically designed for use in endodontic procedures requiring reciprocating action as opposed to rotary; this is an electric handpiece.
 - Discussion ensued regarding variations to support the purchase, limited to 20 units, 40 units, and for the full request.
 - Due to time constraints, an electronic ballot will be distributed by Dr. E. Teixeira in the coming days in order to proceed with the request through the Administration.
- IV. **CDT/Digital – Update on search position** – Dr. Erica Teixeira
 - Postponed due to time constraints.
- V. **Round Table Comments** – Committee
 - Postponed due to time constraints.
- VI. **Next Meeting: March 8, 2017**

Minutes recorded: Ms. Lauren Moniot



Scholarship Application Form for CEREC Training

Faculty/Staff Requesting: Michael Murrell

Department: FAMD

Contact Info: michael-murrell@uiowa.edu

RETURN COMPLETED FORM TO CHAIR, HEALTH TECHNOLOGIES COMMITTEE

Brief description of why the training is necessary
FAMD has very few faculty to cover digital procedures. Upcoming D4 students will be trained to use CEREC but implementation will be severely limited without more trained faculty.

II. In which courses/capacities the training will be used? Clinical instruction in FAMD:8487 & FAMD:8488

III. Applicant agrees to present a summary of learning outcomes from the course.
Yes

Scholarship includes tuition of the course, 2 nights hotel and most meal once in Charlotte, NC (supported by Sirona-CEREC CLUB agreement). Applicant will be responsible for additional costs, including air-fare.

Faculty Signature: Michael Murrell Date: 2/3/17

DEO Signature: [Signature] Date: 2/7/2017

Form should be submitted to HTC Chair

Scholarship Application Form for CEREC Training

Faculty/Staff Requesting: Carolina Garcia

Department: Prosthodontics

Contact Info: Carolina-garciamartinez@uiowa.edu

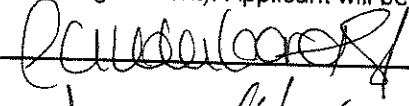
RETURN COMPLETED FORM TO CHAIR, HEALTH TECHNOLOGIES COMMITTEE

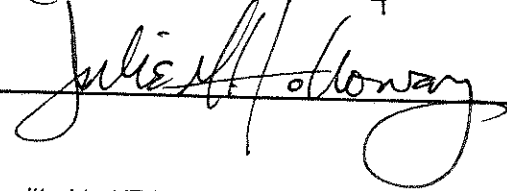
I. Brief description of why the training is necessary: As Faculty of Junior Clinic, I supervise students on their Pros Digital Experience with CEREC Scanners. I believe this training will help me improve my skills in CAM projects, to support students on their Clinical and academic progress in Digital Dentistry.

II. In which courses/capacities the training will be used?
Pros Junior Clinic

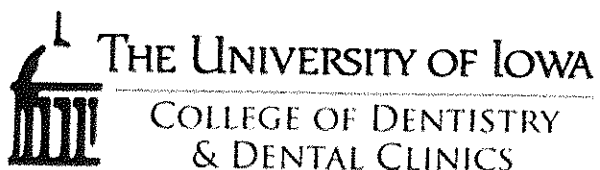
III. Applicant agrees to present a summary of learning outcomes from the course.
✓

Scholarship includes tuition of the course, 2 nights hotel and most meal once in Charlotte, NC (supported by Sirona-CEREC CLUB agreement). Applicant will be responsible for additional costs, including air-fare.

Faculty Signature:  Date: 1-25-2017

DEO Signature:  Date: 1-25-2017

Form should be submitted to HTC Chair



Scholarship Application Form for CEREC Training

Faculty/Staff Requesting: Cristina de Mattos Pimenta Vidal

Department: Operative Dentistry.

Contact Info: DSB-S245, 319-335-8871, cristina-vidal@uiowa.edu

RETURN COMPLETED FORM TO CHAIR, HEALTH TECHNOLOGIES COMMITTEE

- I. Brief description of why the training is necessary:
I do not have previous experience with CEREC. This training would help me to mentor pre-doctoral students in their clinical activities as well in simulation clinic. Also, it will expand my clinical skills at FGP to offer more restorative treatment options for my patients.
- II. In which courses/capacities the training will be used?
Operative Dentistry I, II and III.
- III. Applicant agrees to present a summary of learning outcomes from the course. Yes.

Scholarship includes tuition of the course, 2 nights hotel and most meal once in Charlotte, NC (supported by Sirona-CEREC CLUB agreement). Applicant will be responsible for additional costs, including air-fare.

Faculty Signature: *Cristina Vidal* Date: 02/07/2017

DEO Signature: *Steve Curtis* Date: 7 FEB 17

Form should be submitted to HTC Chair



Scholarship Application Form for CEREC Training

Faculty/Staff Requesting: Marcos A Vargas

Department: Family Dentistry

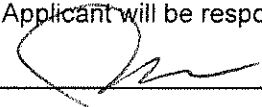
Contact Info: marcos-vargas@uiowa.edu

Applying to: Advanced course.

RETURN COMPLETED FORM TO CHAIR, HEALTH TECHNOLOGIES COMMITTEE

- I. Brief description of why the training is necessary:
I would like to take the advanced course to teach 3 unit bridges, porcelain veneers, implants and smile design to the senior dental students. These are applications that senior dental students are very eager to learn because some of them go to practices that have the Cerec system and we are not providing this content to them.
- II. In which courses/capacities the training will be used?
Teach senior dental students and to mentor faculty throughout school as I have done with the basic knowledge in single dental restorations in the past.
- III. Applicant agrees to present a summary of learning outcomes from the course.
Yes, I will provide the learning outcomes as soon as Cerec training provides the outcomes.

Scholarship includes tuition of the course, 2 nights hotel and most meal once in Charlotte, NC (supported by Sirona-CEREC CLUB agreement). Applicant will be responsible for additional costs, including air-fare.

Faculty Signature: Marcos Vargas  Date: February 1, 2017

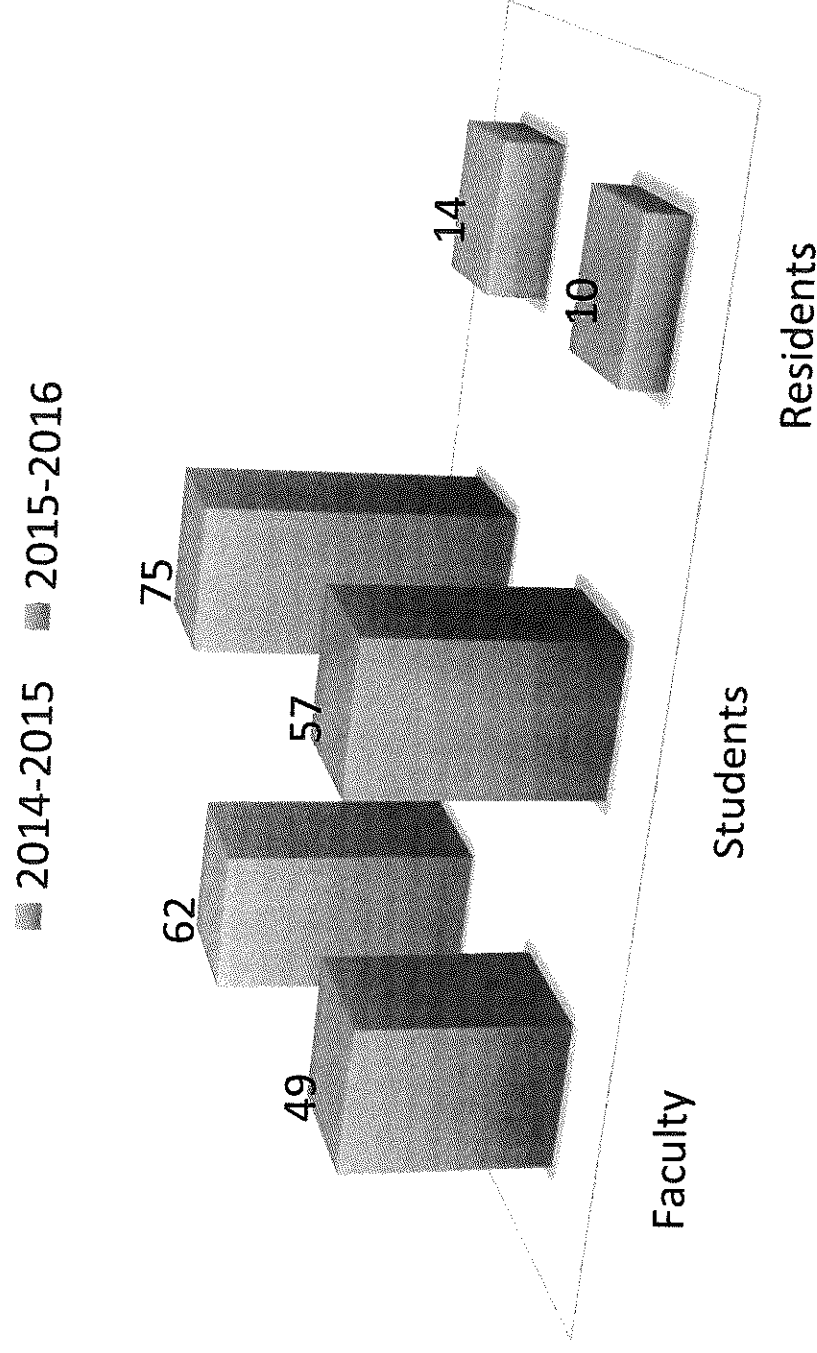
DEO Signature:  Date: 2/6/2017

Form should be submitted to HTC Chair

Blocks 7/16-1/17

Year	Requests made	E4D	Cerec
Student	55	2	61
Grad	19	6	18
Faculty	28	12	25
Totals	102	20	104

Estimate of chair-side CAD/CAM restorations at Ulowa-CoD



Overall, a 30% increase in one year.

Technology Request Form for Patient/Simulation Clinic
(Includes Software Installation)

Faculty/Department Requesting: Manuel R. Gomez, DDS, Endodontics.

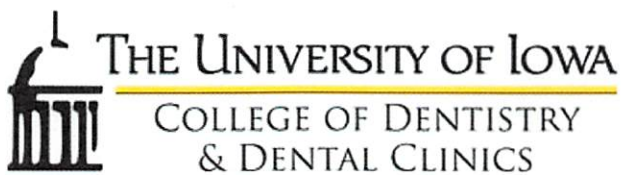
Technology (Equipment/Software) Name: Electric motors and contra angles.

Vendor Contact Information: BJ Lundsten. National Key Account Manager, Dentsply Sirona Endodontics.
Cell phone: (815) 315-3084. Brent.Lundsten@dentsplysirona.com

RETURN COMPLETED FORM TO CHAIR, HEALTH TECHNOLOGIES COMMITTEE

- I. Brief description of the purpose of the technology and how it will be used (consider potential learning outcomes, patient care benefits, utility, quality, acceptance and longevity):
- II. Canal instrumentation with Nickel-Titanium reciprocating instruments were incorporated in our curriculum in the sophomore preclinical course in April of 2013. Since then, we have taught a hybrid instrumentation technique which includes Gates-Glidden burs, stainless steel hand files and WaveOne Nickel-Titanium reciprocating instruments. Nickel Titanium instruments are very flexible and follow the original anatomy of the canal whereas the stainless steel files are stiffer and prone to cause procedural errors such as ledges, transportation or perforations. Over the years, we have seen that our students spend long and multiple appointments for the completion of a case and which is more relevant, they are finishing treatments with significant procedural errors that may impact the outcome of the endodontic treatment. Therefore, we have considered that it is time to re-evaluate the current technique and incorporate a more time, cost effective and predictable technique using Nickel-Titanium instruments and less stainless steel files. To achieve this objective, we'll need to implement a new technique using electric motors and contra angles for Nickel-Titanium instruments in the preclinical course. We have successfully used Nickel Titanium instruments, the Promark Endodontic Motor and corresponding contra angles since 2013 in the sophomore lab, junior and senior clinics. The electric motor is preloaded with a complete library of rotary and reciprocating settings and is fully programmable for individual preferences. It can also be updated with future endodontic innovations.
- II. In what location(s) is the technology to be installed?
It is going to be used at the Simulation Clinic
- III. Who is responsible for maintaining software/hardware updates?
The Promark Motor has a software that is updateable for future upgrades. DENTSPLY Sirona/Tulsa Dental representatives will be responsible for future upgrades.
- IV. Hardware specification requirements
Promark Motor, m4b motor cord, TUL8M contra-angle
- V. How is the software licensed (dongle, PC based, server based)?
PC based to each unit from internal DENTSPLY micro-program for file specifications of reciprocation & rotary file moments (wv1 specific)

- VI. Does the use of the software involve patient protected health information?
No
- VII. Does the use of the software involve sending data outside the College of Dentistry?
No.
- VIII. Does the software integrate with axiUm or MiPACS?
No.
- IX. Does the software require workstation administrator rights to run?
No.
- X. Will the Vendor require remote access? No.
- XI. Evidence: Please include evidence available and/or best practices
It is well documented that bacterial infection of the root canal is the primary cause of apical pathosis. Chemomechanical preparation of the root canal includes both mechanical instrumentation and antibacterial irrigation and is principally directed toward the elimination of micro-organisms from the root canal. The use of stainless steel hand files is time consuming and tiring and it produces a high level of procedural errors. Since their introduction in 1998, Nickel-Titanium instruments have become a mainstay in clinical endodontics because their exceptional ability to shape root canals with potentially fewer procedural complications. Recently, the use of reciprocating motion has shown to extend the durability of a NiTi instrument and to increase its resistance fatigue in comparison with continuous rotation.(Yared 2008. Int Endo Jour 41: 339-44, Varela-Patino 2010 JOE 36: 157-59; You 2010. JOE 36: 1991-94). Also reciprocation and NiTi instruments maintain the original canal curvature better than SS hand files and rotary systems.(Yoo 2012. RDE. 37: 220-27; Burklein 2012. Int End Jour 45: 449-61).
- XII. Training: Is there a plan for training (student/faculty/residents/specify users)?
Faculty and residents are trained. Students will be trained during the sophomore lab before they start with patients in the junior clinic.
- XIII. Cost: How much will it cost? Include any annual maintenance/upgrade fees.
There are no annual maintenance/upgrade fees. Attached is the quote sent by Dentsply Sirona Endodontics.
- a. if supported by grant or external funding, include account and PI name:
No
- b. if a "Gift in Kind" or "Preferred Development Agreement", please see Dean Arneson and include with request form (yes/no/not applicable).
No
- XIV. Company characteristics (include name, reason for choice, alternative if company goes out of business, representative contact):
Dentsply Sirona, the world's largest manufacturer of professional dental products and technologies, develops, manufactures and markets a complete line of dental and oral health products, including dental consumables, CAD/CAM systems (CEREC and inLab), a full suite of dental restorative products, digital intra-oral, panoramic and 3D imaging systems, dental treatment centers, hygiene and preventive systems and products supporting the dental specialty markets of orthodontics, endodontics and implants. In 1995 DENTSPLY acquired



Tulsa Dental Products LLC and Maillefer Instruments S.A., further cementing itself as the market leader in endodontic technology.

XV. Self-bias or possible conflict of interest:
No

X. Implications for Curriculum – specify if related to predoctoral and/or advanced education curriculum:

This technology will be implemented in the sophomore endodontic preclinical course and then applied in the junior and senior clinics.

- a. Identify area of curriculum incorporation: Predoctoral and/or Advanced Education Program(s)
Sophomore endodontic preclinical course.
- b. Responsible individual to submit proposal into existing course or creation of new course:
Manuel R. Gomez, DDS
- c. Curriculum proposal for submission to Curriculum Committee for review (include course no.):
8241

Faculty Signature: Manuel R. Gomez Date: 02-2-17

DEO Signature: [Signature] Date: 02/02/17

Form should be submitted to HTC Chair



Dentsply Sirona Endodontics
Meridian Tower
5100 East Skelly Drive, Suite 300
Tulsa, Oklahoma 74135
Phone 1-800-662-1202

QUOTE

PAGE	INVOICE
1	
DATE	01/20/17

INVOICE TO

UNIVERSITY OF IOWA
ACCTS PAYABLE & TRAVEL 202 PCO
IOWA CITY, IA 52242-2500

SHIP TO

UNIVERSITY OF IOWA
435 DENTAL SCIENCE S BLDG S
IOWA CITY, IA 52242-1001

CUST NO.	SHIPPED VIA	ORDER NO.	SLS NO.	TERMS	P.O. DATE	P.O. NO.	
quote	UPS GROUND SERVICE			NET 30			
ITEM NUMBER	DESCRIPTION	U/M	QUANTITY ORDERED	RETAIL PRICE	QUANTITY BACK ORDERED	UNIT PRICE EACH	AMOUNT
*Below items are at approved special pricing for this order only							
PMKEM1SPCL1	Promark Endo Motor	EA	60	\$ 1,989.00		\$ 1,275.00	\$ 76,500.00
TUL-8M	Tulsa 8:1 Contra Angle	EA	60	\$ 626.00		\$ 390.00	\$ 23,400.00
							\$ -
BELOW EQUIPMENT WILL BE GRANTED AT NO CHARGE BASED UPON THE ABOVE PURCHASE							
PMKEM1SPCL	Promark Endo Motor	EA	22	\$ 1,989.00		\$ -	\$ -
TUL-8M	Tulsa 8:1 Contra Angle	EA	22	\$ 626.00		\$ -	\$ -
PMKAL1	Promark Apex Locator	EA	2	\$ 997.35		\$ -	\$ -

Returns: Return Instructions Are Included in Package With Product

Subtotal	\$ 99,900.00
Sales Tax	\$ -
Handling	\$ 18.00
Total	\$ 99,918.00
Paid Credit Card	
Amount Due	\$ 99,918.00

If TERMS Are Credit Card or COD, Please do not Duplicate Payment

USD

REMIT TO' Address Below

Dentsply Sirona Endodontics
DEPT. TUL
PO BOX 822462
PHILADELPHIA, PA 19182

Complete the following to charge your balance on Mastercard

Visa or American Express

() Mastercard () Visa () Amex

Card#

Exp. Date

Signature

Cust No.	Date	Invoice	Amount
0	01/20/17		\$ 99,918.00