

Members Present: Drs. Piriya Boonsiriphandt (Chair), Salahaldeen M.A. Abuhammoud, Omar A. Alburawi, Chris Barwacz, Amira Elgreatly, Manuel R. P. Gomez, David A. Jones, Theodoros Katsaros, Ahmed Mohamed Mahrous, Mr. Chuck W. McBrearty, Mr. Ivan N. Medin, I. John Syrbu, Erica C. Teixeira, Marcus A. Vargas, Brian Howe, Kyle Bennett (D1), Gracie Deery (D4)

Absent: Drs. Michelle Krupp, Kyle M. Stein, Andrew Brill (D2)

Meeting called to order 12:03 p.m.

- I. **Approval of January 7, 2020 minutes** – Dr. P. Boonsiriphandt
MOTION: to approve the minutes as submitted and seconded.
MOTION APPROVED.

- II. **Protocol for True Definition and Contract** – Mr. Medin
Midmark Corp has acquired the True Definition intraoral scanner platform from 3M. This will not create any changes for the CoD.

- III. **Request: ENDO Gentle Wave System** – Dr. M. Gomez (Presentation)
Dr. Gomez gave a presentation on the Sonendo GentleWave System of which the ENDO department has requested approval to purchase for faculty and resident use. This system would cost the ENDO department \$70,000 and includes a 2 year warranty on software and system maintenance. Refer to the attached presentation for further details.

Questions/Comments:

- How is the sterilization done?
 - Single use disposable head piece, then wipe the machine.
- Is the hand piece autoclavable?
 - Yes, the hand piece is autoclavable and the tip is disposable.
- Is this better than an EndoActivator tip?
 - The EndoActivator is a different mechanism. It is limited to the canal space.
- The company will need to fill out the system assessment document to understand exactly what technology is being used.
- Is patient data stored on the machine?
 - No patient data is stored on the machine.
- Are there any instances with the tip breaking?
 - No. It doesn't go inside the canal.
- It makes sense to keep this at the faculty and resident level since it is a new treatment modality for endodontics. It will be a good service for residents to use here at the University.
- In order to be competitive in our grad program we need to improve our technology.
- Is there other support needed within the college for the machine? Maintenance costs from the companies can get expensive over time.
- If there are software updates, IT will need to know.

ACTION ITEM: Dr. Gomez will give Mr. McBrearty contact information for Mr. McBrearty to reach out and get some IT questions answered.

MOTION: to approve Endo's purchase of the Gentle Wave System once IT and Mr. Iburg has approves the machine.

Motion Seconded.

MOTION APPROVED.

IV. **Request: FAMD Centralized Computer for Digital** – Dr. John Syrbu (Presentation)

In a survey sent out to D4 students it was found that many are graduating without confidence in digital technology. Students are being exposed through lecture and online, but not in hands on experiences.

FAMD would like to add a computer that is public for students and faculty to use technology without being in someone else's office. The computer would be located in a centrally located room. The room is currently being used for storage but it would be cleared out and repurposed. Students would primarily use this computer to design implant guides.

The computer would need to be capable of running this software. The cost would be around \$1500.

Questions/Comments:

- Great idea, but computers at the teaching stations should be replaced or upgraded.
 - Computers at the teaching stations are not upgradable. They would need replaced.
- Two computers, not just one should be purchased.
 - Agreed.
- Will this room be open 24 hours?
 - Yes.

MOTION: to approve the purchase of 2 computers in FAMD.

Motion seconded.

MOTION APPROVED.

V. **Roundtable Comments** – Dr. P. Boonsiriphanth

- Dr. Teixeira would like to see a timeline created for the development of the Hub.
- Dr. Boonsiriphanth discussed how the dry lab is waiting for the funds.
- Dr. Howe discussed how this would be something you could use to apply for the P3 funds.
- Dr. Teixeira discussed applying for the carver foundation. Given significant amount to the college in the past. It would be mainly to support the educational aspect.
- Dr. Mahrous asked Mr. McBrearty when it would be feasible to create a server room that streams to all the new screens.
 - Mr. McBrearty responded saying when the time comes, it would be best to get a GPU, it is pricey but better to maintain.

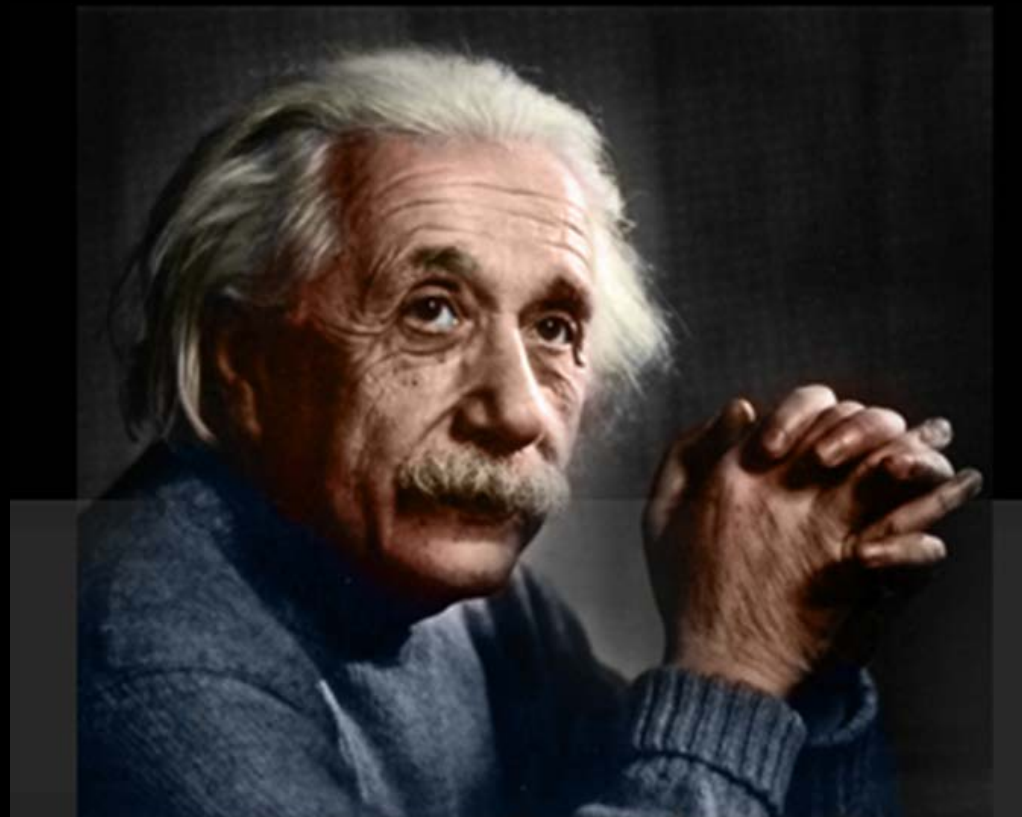
Next Meeting: April 8, 2020

Minutes recorded: Ms. Brenda Selck

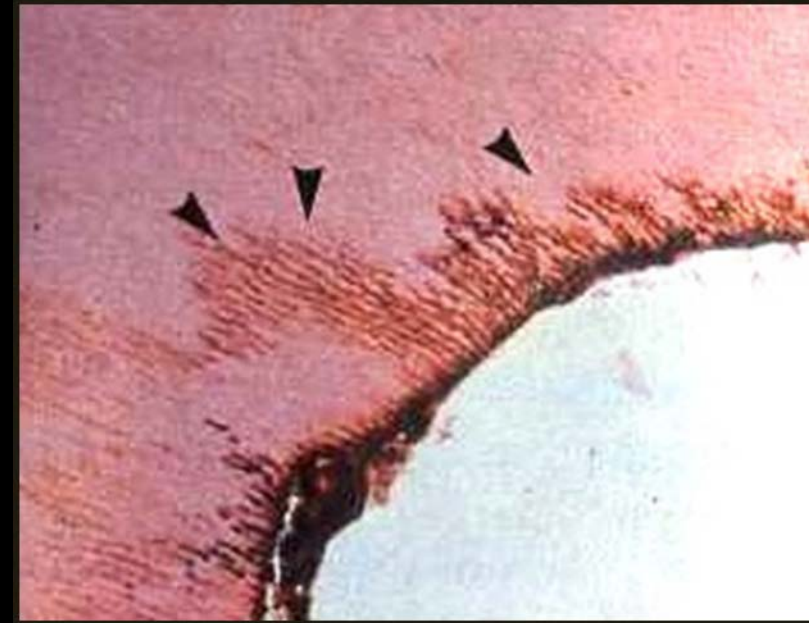


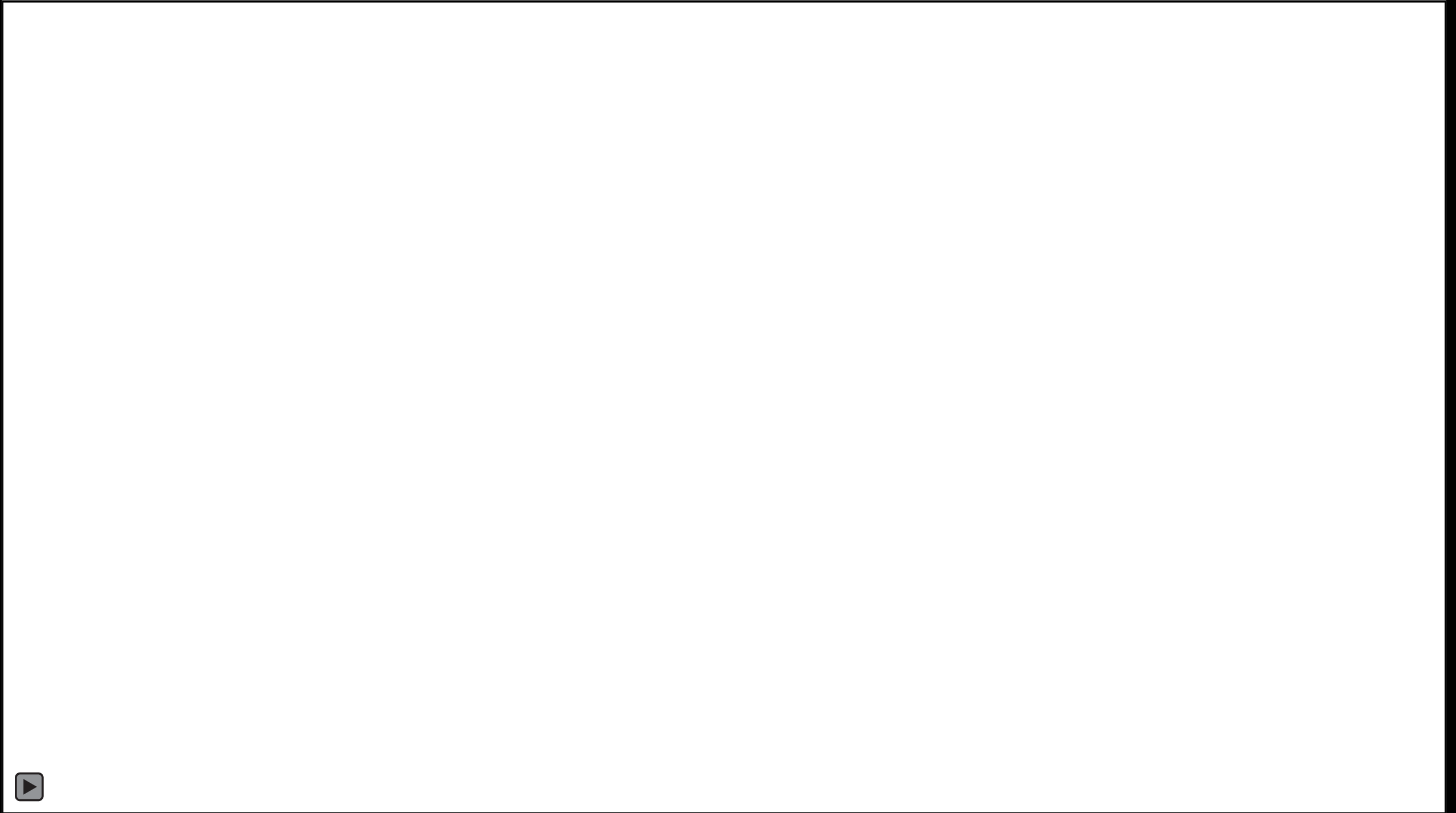
GENTLE WAVE

“In the long term conflict between microbes and technology, microbes will win”

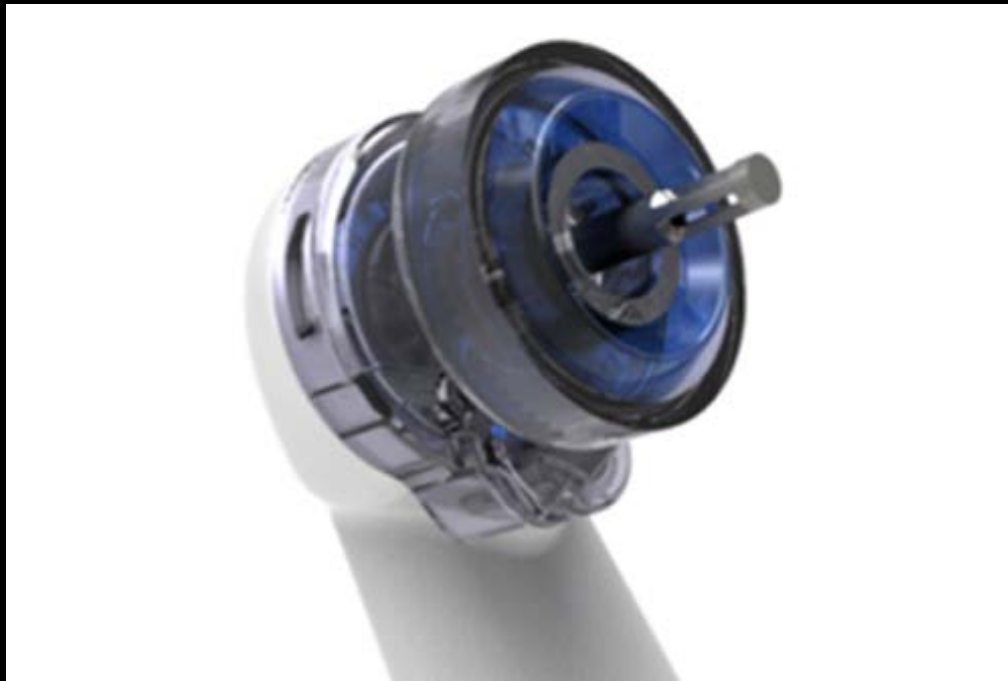


Albert Einstein 1879-1955

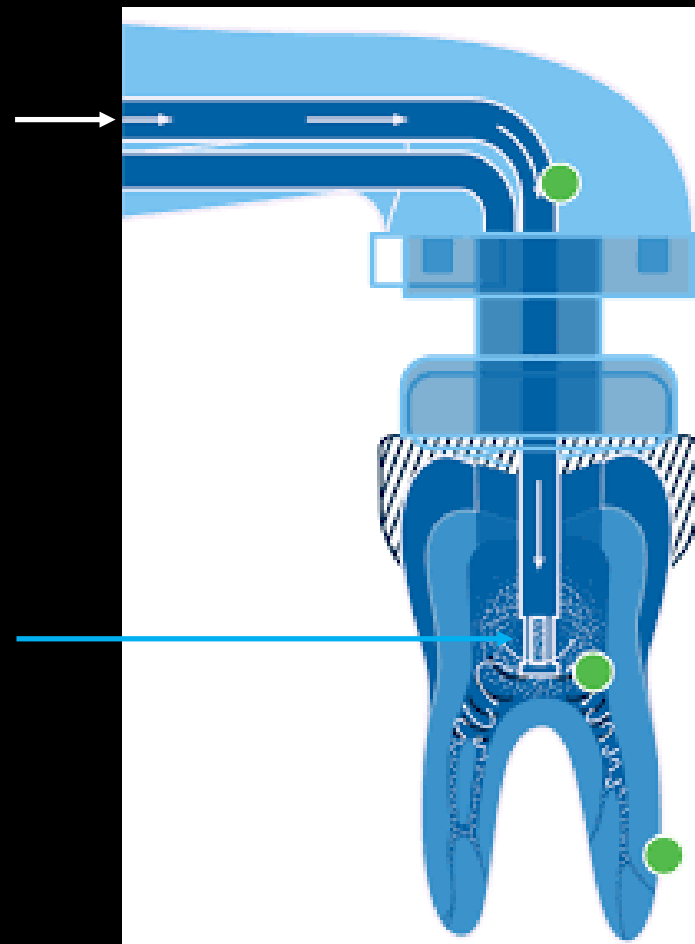








SoundFlow



SoundBar

SCIENTIFIC EVIDENCE

- Wright et al: Effectiveness of guttapercha removal during retreatment of extracted human molars using the Gentle Wave System. JOE 2019. 45: 808-12.
- Chan et al. Efficacy of three supplementary irrigation protocols in the removal of hard tissue debris from mesial canals of mandibular molars. JOE 2019. 45: 923-29.
- Sigurdson et al. Healing of periapical lesions after endodontic treatment with the Gentle Wave procedure. A prospective multicenter clinical study. JOE 2018. 44: 510-17.
- Ford M. Utilizing the gentle Wave system for debridement of undetected apical anatomy J of Cont Dent Prac 2018. 19: 345-51.



Technology Request

John Syrbu DDS
Department of Family Dentistry

FACULTY MEETING
Tuesday, February 4, 2020
Minutes

1. Call to Order – Dr. David Johnsen

Dr. Johnsen called the meeting to order at 12:02 p.m.

2. Review, Correction, Approval or Disposition of Minutes – Dr. David Johnsen

The minutes of the October 29, 2019 meeting were approved as distributed.

3. Announcements

Dean Johnsen reported that there about 10 grants being submitted this cycle and recognized the extraordinary efforts of Sharon Seydel in assisting in this process.

Dean Johnsen recognized two faculty who will be getting major new grants:

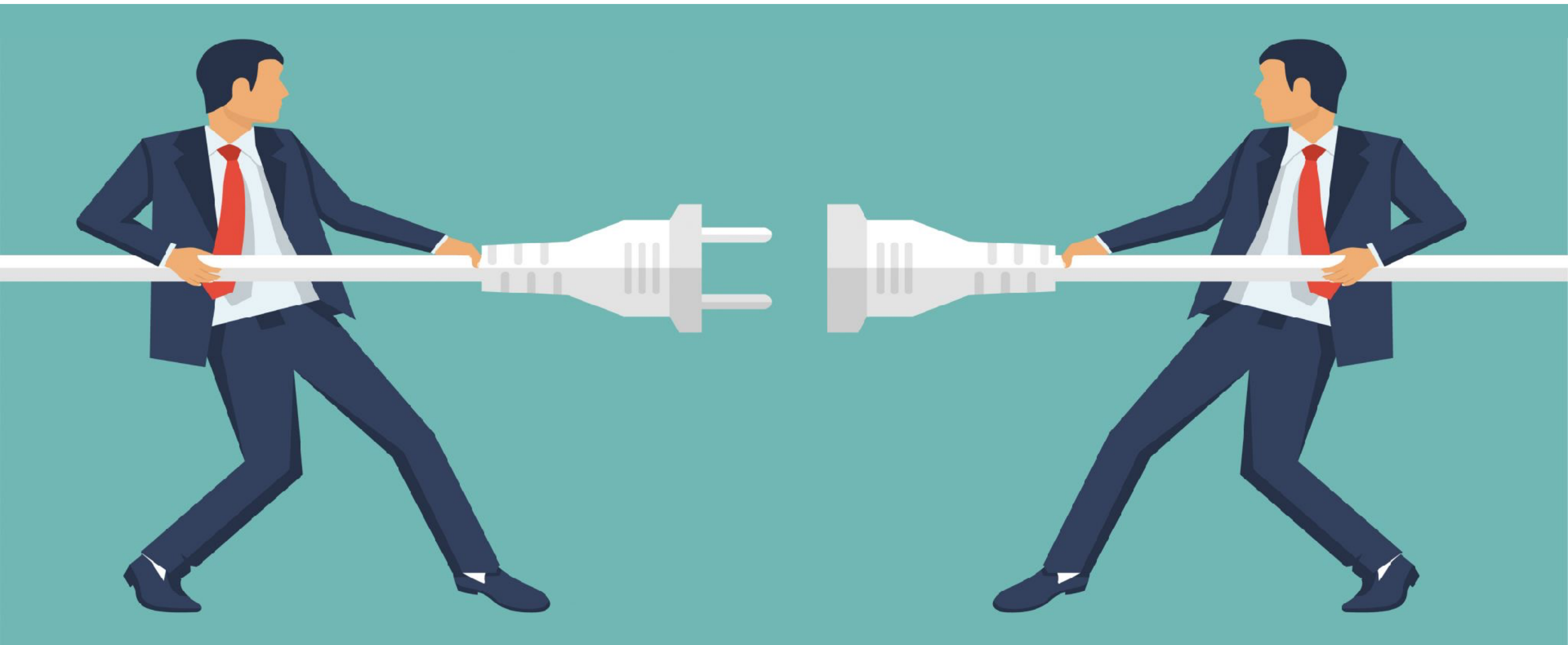
- Dr. Azeez Butali has obtained a new R01 to study the genetics and genomics of cleft lip/palette.
- Dr. Karin Weber-Gasparoni has obtained a new UG3/UH3 award to test a motivational intervention for preventing early childhood caries.

Dean Johnsen read thank-you notes from two university regents who recently visited the College of Dentistry and were very impressed.

4. Digital Dentistry Update – Dr. M. Krupp

Dr. Michelle Krupp's digital dentistry update began with an introduction that related how a group (Dr. Krupp along with Drs. Erica Teixeira, Julie Holloway, David Holmes, Peter Boonsiriphant, and Ivan Medin) was organized to review the current state of the curriculum with respect to integration and preparation for digital technology. In addition to assessing where the College is at, barriers were identified, future goals put forth and pathways forward initiated.

- Dr. Teixeira and Ivan Medin presented the results of surveying the D4 class on their assessment of preparation for digital dentistry; the results showed a large percentage of the class "hesitant" or "not confident" in their preparation for digital skills.
- Dr. Holloway presented a gap analysis of the current curriculum and what we would like the curriculum to be in the future.
- Dr. Holmes presented a breakdown of the various barriers that exist for implementing desired changes, the most critical being insufficient technical support and learning space.
- Dr. Krupp wrapped up the presentation with plans for moving forward including the formation of a Digital Technology Initiations Advisory Council.

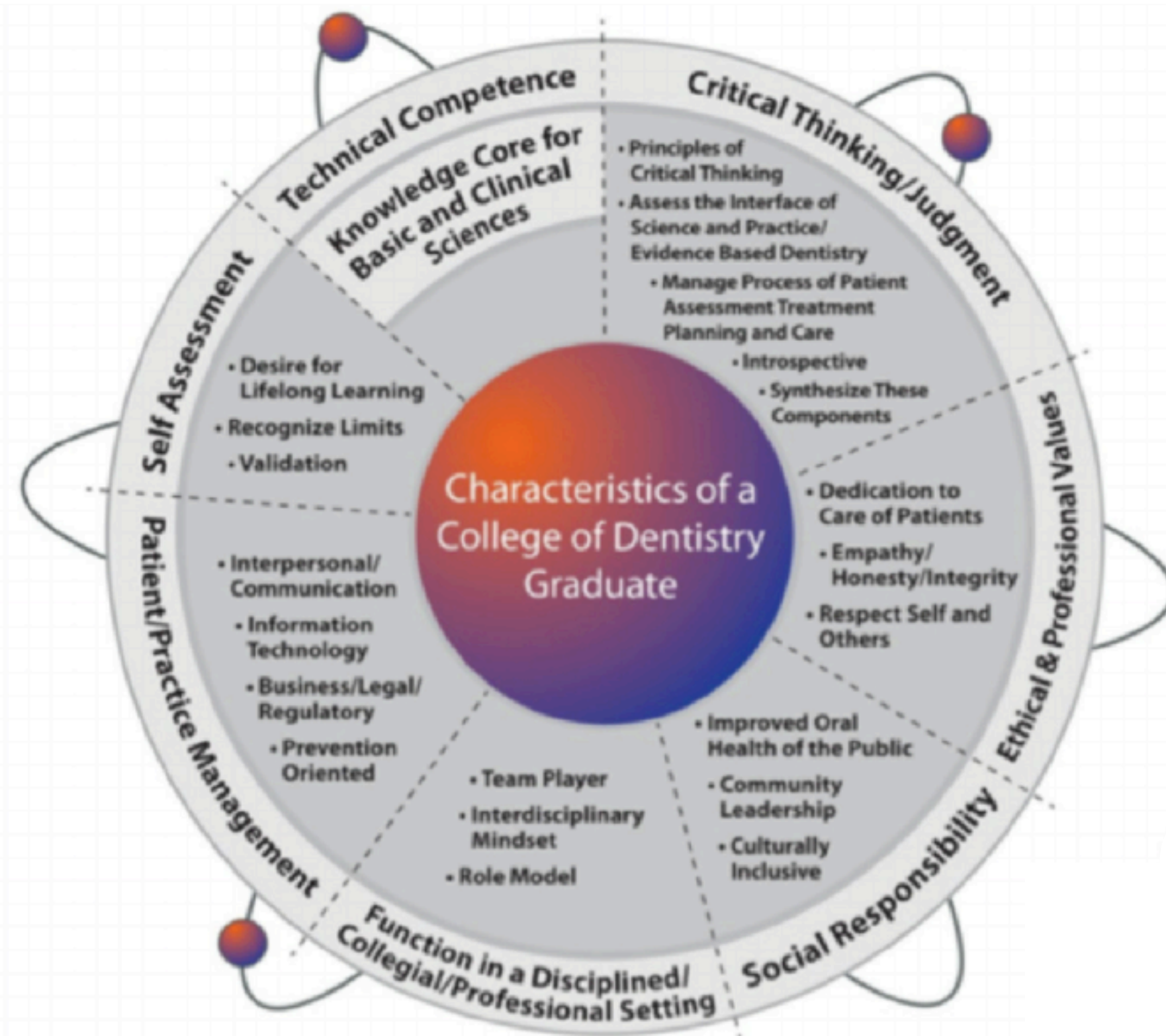












Implications for Curriculum:

Area of curriculum incorporation: Predoctoral, Faculty

Responsible individual to submit proposal into existing course or creation of new course: John Syrbu*

** Not a new technology or broad curricular changes. Simply an expansion of the accessibility and capacity of current practices.*



3Shape PC Catalog

V.1.3 March 2017

Minimum specifications for a Windows computer:

- i7 processor
- 64gb ram
- 2gb video card

How is the software licensed?






The College of Dentistry already maintains the software licenses using a dongle.

Company characteristics (include name, reason for choice, alternative if company goes out of business, representative contact):

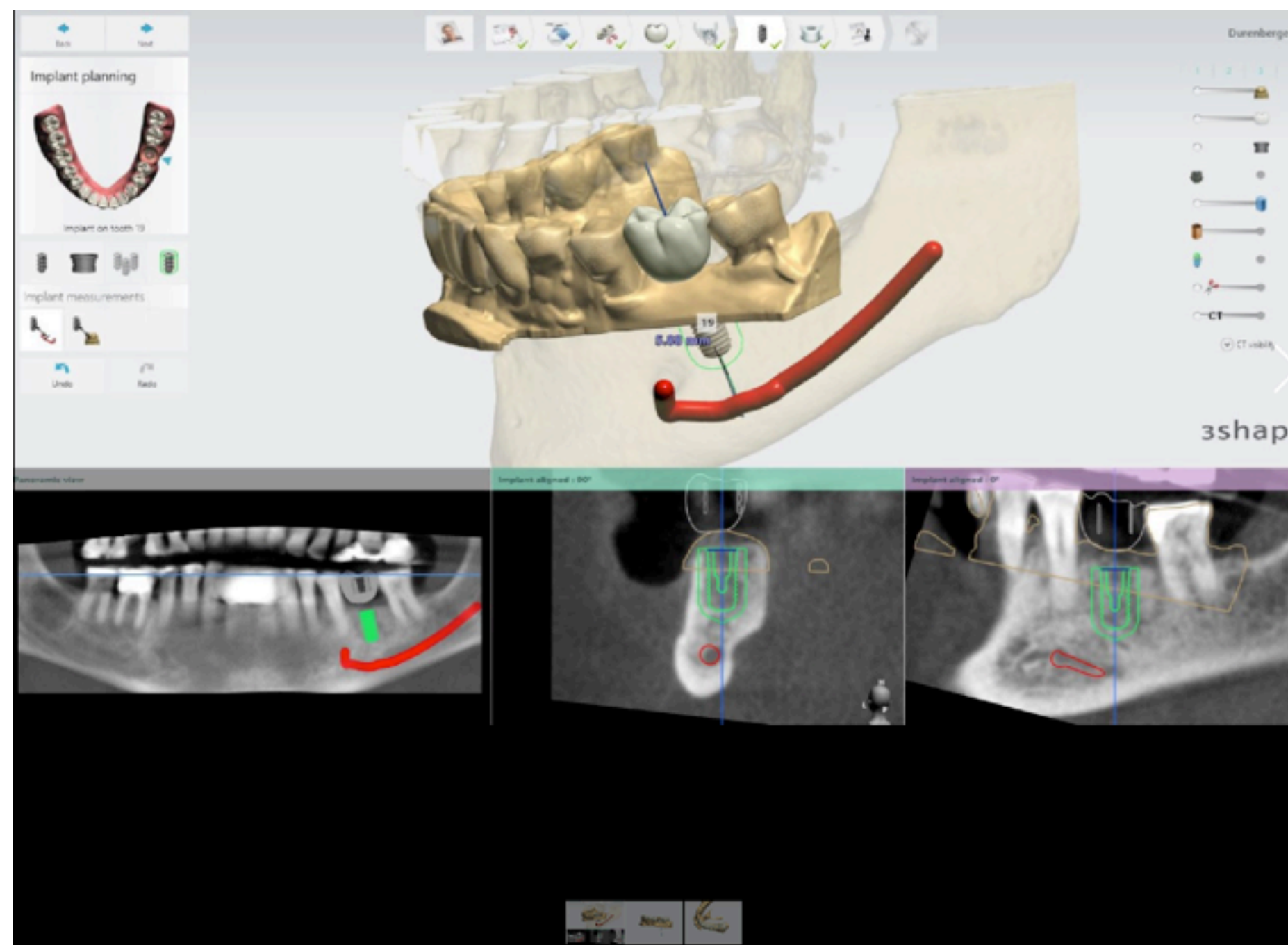
Dell. Reason: Chuck recommended a Dell.

How much does it cost?

\$1500 +/-

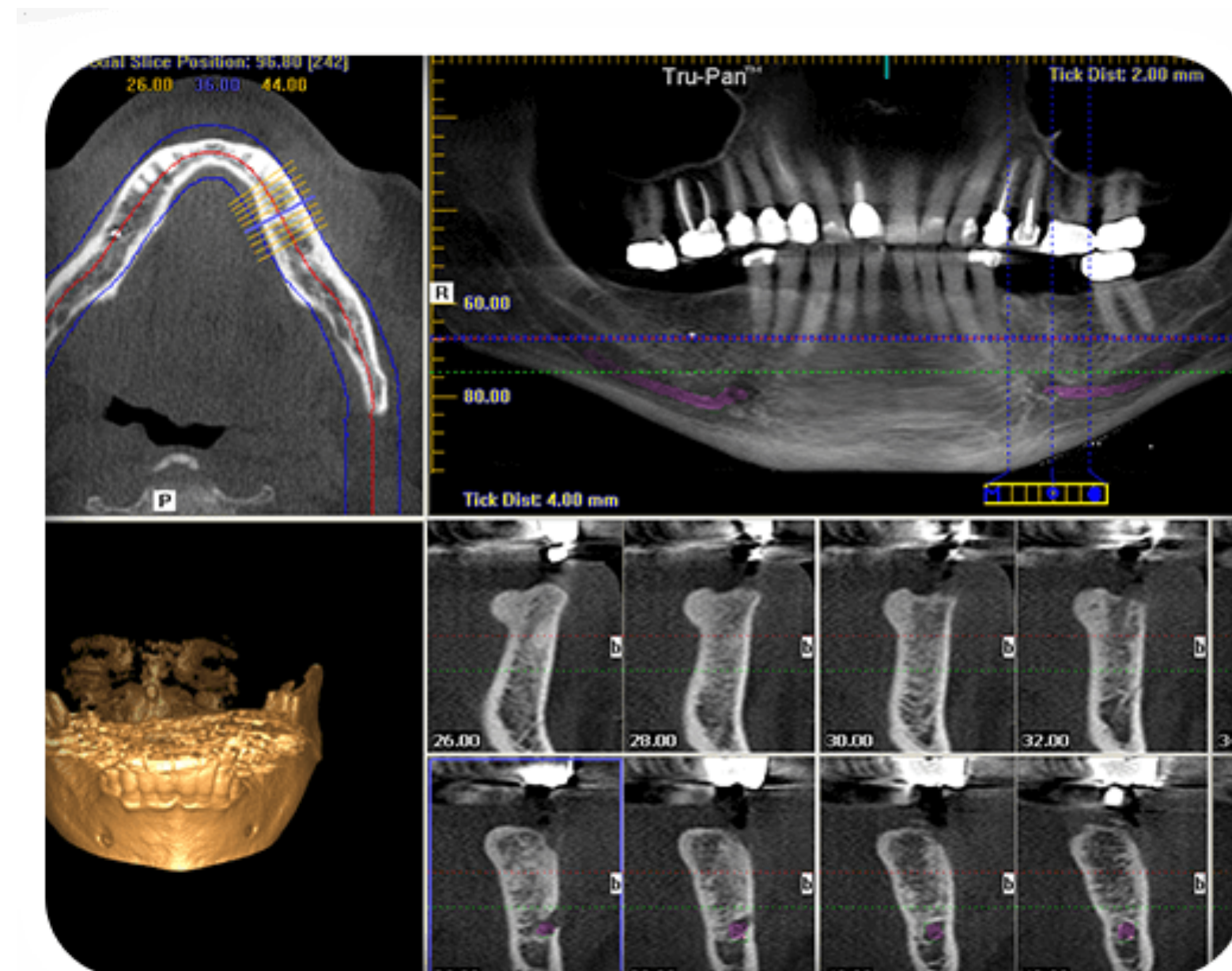
3Shape software				
TRIOS®	TRIOS® Practice lab	Ortho System	Implant Studio	Dental System
				

3shape





Powered by LEADTOOLS Medical Imaging SDK



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

Faculty/Department Requesting: Family Dentistry

Technology (Equipment/Software) Name: Computer

Vendor Contact Information: Dell

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):
According to a recently conducted internal survey of graduating D4 dental students at the College of Dentistry (highlighted at a recent Faculty Meeting [Feb 4, 2020]), a majority expressed being “hesitant” or “not confident” and do not feel minimally competent or proficient with digital dentistry workflows. Amongst many factors, one of the most critical barriers identified was insufficient technical support and learning space.

3Shape Lab Studio software offers a variety of digital applications in dentistry. Despite the College of Dentistry possessing multiple licenses for the software package, currently there is a lack of adequate utilization amongst departments within the College. For example, in the Department of Family Dentistry, only two computers currently operate the software, and each are located in our lab technicians' personal offices. While this may be sufficient for demonstration purposes, it does not allow students to actively and independently foster familiarity, competence, or proficiency with digital workflows common in dentistry.

Obtaining a capable computer in an accessible location in Family Dentistry will offer students the ability to have hands-on experience in a digital environment, at the time of their choosing, during and outside of normal clinic hours. Much akin to analogic laboratory work, which is completed after hours by the student, the availability of such digital software will facilitate increased use and proficiency with digital technology by students at the College of Dentistry. The availability of a computer that is capable of running digital software must be made accessible to students. Its central location within the FAMD clinic is also important, as this more closely simulates a digital private office, especially critical during the D4 year, when comprehensive treatment plans are reviewed with faculty, patients, and interdisciplinary colleagues.

II. In what location(s) is the technology to be installed?
S325

III. Who is responsible for maintaining software/hardware updates?
Family Dentistry, COD IT

Skip questions IV - IX if requested technology not software related:

IV. Hardware specification requirements
Minimum specifications for a Windows computer are an

- i7 processor
- 64gb ram
- 2gb video card

V. How is the software licensed (dongle, PC based, server based)?
The College of Dentistry already maintains the software licenses using a dongle.

VI. Does the use of the software involve patient protected health information?
The 3shape software does, yes.

VII. Does the use of the software involve sending data outside the College of Dentistry? Explain.
Potentially, if we outsource the CAM / printing & processing procedures to external commercial laboratories.

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
N/A.

XII. Training: Is there a plan for training (student/faculty/residents/specify users)?
Faculty: 3shape representatives train department faculty and laboratory technicians.
Students: Faculty and laboratory technicians train students.

XIII. Cost: How much will it cost? Include any annual maintenance/upgrade fees.
~\$1500

XIV. Company characteristics (include name, reason for choice, alternative if company goes out of business, representative contact):
Dell. I spoke with Chuck, he recommended a Dell.

XV. Self-bias or possible conflict of interest:
None.

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

a. Identify area of curriculum incorporation: Predoctoral and/or Advanced Education Program(s)
Predoctoral, Faculty

b. Responsible individual to submit proposal into existing course or creation of new course:
John Syrbu

c. Curriculum proposal for submission to Curriculum Committee for review (include course no.):
Not a new technology or broad curricular changes. Simply an expansion of the accessibility and capacity of current practices.