**Paul Feuerstein, DMD Technology review and workshop**

**drpaul@toothfairy.com**[**www.computersindentistry.com**](http://www.computersindentistry.com)

*This is a listing of many of the products discussed in the presentation. Some meetings print this out before this presentation. Please go to* ***www.computersindentistry.com*** *for the latest updated handout if you have a printout. If you have a specific question, you can reach me via email at drpaul@toothfairy.com . Note that inclusion in this list is informational and does not indicate an endorsement. I apologize in advance for any products or companies that are not included. Note that some additions and changes will occur on the podium. The handout is just a sketch of what you have seen and heard.*

The Acappella music is at http://www**.a-cappella.com**/

**Eco Dentistry Association**- this new organization is raising awareness to practitioners and manufacturers about being "green', saving resources, reducing energy consumption as well as reducing waste.

**New Products 2009-2011**

Including introductions at 2010 ADA Annual Session, Greater NY 2010, Yankee Dental 2011, Chicago Midwinter 2/24-2/26/2011, ADA Annual Session 10/8-10/2011

IDS Germany had a number of new product introductions. Many products are pre-release and waiting for approval. Video from that meeting click here.

**Patient Education**

dentaledu.tv There is a lot of online CE here by top names in dentistry. Most are short courses under an hour. Professionally produced in Hi Def and fast loading for the internet. There are also online seminar/webinars

**CurveEd.com**- free patient education system- user must refer 2 new clients for full access

**CAESY Cloud**- new 7/2011 - get the CAESY content on any browser for a low monthly fee.

**Digital Radiography**

**Vidar** Dental Film digitizer  A new high resolution xray digitizer that is an efficient method of copying ld radiographs and films from other offices. It is also a low cost method of going digital for film users who, for whatever reason, still have not gotten sensors or put computers in the treatment rooms.

**SUNI 3D HD** new CBCT Unit Under $75K ( 8/2010) 5x5 cm field of view Also larger FOV unit Suni3D

**Visiodent** - new USB sensor- direct wire- no box -one model has its own small viewer- not computer necessary

**Planmeca**- soon to introduce new I/O sensor (Prosensor) with very flexible wire ( they say unbreakable) and quick disconnect ( magnetic) also to prevent breakage if patient moves suddenly. Also totally immersible.

**Dexis Platinum Sensor** introduced 9/2009. Direct USB, no box higher resolution, larger image area.

**Myray** introduced the **X-Pod**- sensor with iPod sized viewer with screen and memory card for instant viewing with no computers necessary in the treatment room. Download the images later.

**Sensor Aiming Devices**

**Kodak Carestream**- Intelligent Positioning System (IPS) RVG 6500 like a GPS system for sensors

**Tru Align** aiming system- uses rectangular collimation for lower radiation

**Lasers (Diode)**

**Discus NV** microlaser ( formerly Zap laser)- new small handheld wireless laser price drop 8/2010 SL3 introduced 2/2011. Now part of Philips Corp

**AMD Laser** has hit the marketplace with a low cost diode, the Picasso Lite as well as the more powerful Picasso. The latter can be used for laser bleaching. Now part of Dentsply.

**Biolase** Well known for the Waterlase has introduce the compact iLase 3 watts ( 5 peak) .They also introduced Waterlase iPlus- lower cost, faster and more powerful than the previous hard tissue laser

In fairness I have to mention the new hard tissue laser from **Technology4Medicine** (formerly Lares)- **Lightwalker** that starts at under $30,000

**Handpieces**

**Kavo** new electric HP smaller lightweight ComfortDrive

**Midwest Stylus ATC** New electric/air hybrid HP   Lightweight handpiece with look and feel of standard air turbine model. Uses computer/electric controls to adjust air pressure to maintain constant torque.

**BienAir** just introduced a smaller electric

**Scican** just introduced a smaller electric

**Morita** Twin Power Turbine- unique design for more torque

**Newest Digital Impressions CAD/CAM**

**Fast Scan**-new Intraoral scanner IOS3D. Wand stays still and camera moves back and forth. Being marketed by Glidewell Dental Labs

**Periodontal Treatment**

**Sirona Perioscan** - detects calculus and scales it off! May not be available for a while in USA

**Digital Caries Detection**

**Air Techniques Spectra** Florescence give image with color and number map- almost looks like Doppler Radar

**Acteon SoproLife** caries detection unit- uses blue fluorescence to show pre-op caries as well as caries DURING preparation

**Cariescan** - new product from Scotland that recently signed distribution with Patterson. Info on their site.

**Canary system** from Canada about to hit the US marketplace

**Lantis Laser**- still in development- uses stronr beam of light the scans the tooth and yields a CT like scan using OCT (Optical Coherence Tomography)

**Kavo Diagnodent** still holds a firm grip on this arena

**Midwest Caries ID** uses red/green LEDs as well as pulsing sound to show caries

**Remote Access**

**gotomypc.com** Full remote access and file transfer for a monthly fee

**logmein.com** free (lite) version allows remote access with limited functions. Pro version gives full access.

**Web based Practice Management Software**

**Curve Dental** - all information online in "the cloud"

 Curve Ed www.curveed.com free patient education software also listed above

**ICE Dental** - all online system

**PlanetDDS**- online

**Clinical products mentioned**

**Garrison Dental**- sectional matrices, Composi-Tight 3D rings, Blue View strips, grip strips and more

**Triodent**- sectional matrices, V3 Rings, GripTabs and more

**Physics Forceps** by Golden Dental Solutions- actually should be called Physics Elevators- watch the video online for an explanation. Changed the way I look at extractions- many are now easy and a-traumatic to the patient (and the dentist).

**Information/Image sharing HIPAA compliant services**

**www.brightsquid.com** new still in Beta

**www.dentalsharing.com** new service allowing images to be shared through a secure portal

**eDossea**- HIPAA compliant information sharing

**RecordLinc**- Information and data sharing. They actually copy your office data on to their secure servers and share it securely. This also acts as an online backup of data.

**Headlights/Magnification Loupes**

**Ultralight Optics** Featherlight LED light weighs 4 grams. Connectors for all models of loupes, glasses and goggles

**High Q Optics** Clip-on LED light EOS- very bright 4500 footcandles. Many other interesting products on their site

**Dentlight** has the Nano LED light at 11 grams ( new model reported to be 6) and 4200 footcandles- other units are more . Company also has one of the most powerful and compact curing lights (Fusion)

**Orascoptic** new Freedom light for loupes. Battery pack is in the frames- no wire to a clip-on pack. Touch controls- no buttons.

**Rose MicroSolutions**- a low cost high quality loupes company. Clipons start at under $300- a good place to start if you dont use them or want an inexpensive set for staff.

**Designs for Vision** LED Advantage, DayLite, DayLite Mini as well as the DayLite TWIN beam

**Surgitel**- The Odyssey Max and Mini, as well as the high intensity Xenon Fiberoptic lights

**SheerVision** The original Firefly as well as Infinity Ultra and V-Ray

**US Government Agency for electronic Health Records ( EHR): http://aspe.hhs.gov/sp/NHII/**

**Keyboards and mice** (is that the correct plural?)

There are many products that will allow disinfection of these devices to avoid cross contamination. According to Rella Christensen of CRA high ethyl alcohol content cleaners are sufficient for this type of disinfection. Lysol is one of these products. There are also several covers and barriers made for keyboards. Some are universal covers while others are custom made for each major keyboard manufacturer.

These products are washable and can be sprayed down:

**Virtually Indestructible Keyboard** www.grandtec.com (look under "products") Note: I have seen a similar product in Staples 11/08

**www.unotron.com** has a number of washable keyboards/ mice and combinations

**www.ikey.com** has a number of washable keyboards/ mice and combinations

**Econo-keys** lower cost dishwasher safe keyboards with touchpads or mice.

www.advanced-input.com has the **Medigenic** keyboard- has a skin built over a keyboard- it is sealed and effectively a flat surface to spray or wiped

**www.cleankeys.com** has a glass or hard acrylic topped touch sensitive keyboard called Clean Keys

**Protective covers:** Viziflex Seels viziflex.com Protect Computer products protectcovers.com Horiizensolutions.com new easy on easy off covers

**Network Backup** program: **Karen's Replicator**- www.karenware.com free for home use- fee for commercial use- can back up your computer files easily over a network from one computer to another, or to an external drive, or other backup device. It can be programmed for to do this any time of day or night. (Karen Kenworthy died in April 2011- her family said they will continue the site)

**Paperless Office Software-Medical History**

These programs allow patients to fill out forms electronically. Some are online, some are in office, some are both

[www.medictalk.com](http://www.medictalk.com), [www.gopaperlessnow.com](http://www.gopaperlessnow.com), [www.submitpatientforms.com](http://www.submitpatientforms.com), [www.patientdocs.com](http://www.patientdocs.com)

**Xpaper** http://www.talario.com/ Amazing Logitech Pen - you write on paper forms and they are instantly transformed to digital paper. Watch the demo to understand it.

**Dental Drug information**

**Lexi-Comp** software that runs on your computers or smartphone- drug descriptions and interactions, targeting dental procedures and common drugs

**Insurance attachments**

**www.Nea-fast.com** allows you to send xrays, perio charts, documents, photos etc all to insurance companies totaly digital and HIPAA compliant. No more lost xrays at the insurance company. Sign up your office at this link. NEA signup use promo code PFZ

**Perio Charting**

www.**floridaprobe**.com electronic perio probe

www.**periopal**.com voice activated perio charting. Free download- pay pennies per use.

www.**dentalrat**.com unique foot controlled mouse with buttons for perio charting. New model is wireless

 Perio Risk Assessment www.**previser**.net

Orange Dental (Germany)-pa-on New electronic perio probe- records on the LCD screen on on the handle- downloads to the computer. Not yet available in US

**Dental Camera Kits**

**Photomed** ( Mike McKenna and staff) www.digitaldentalcameras.com or www.photomed.net

 Photomed <http://www.photomed.net/> Contraster , Dual mirror

 Oralume LED (or <http://www.highqdental.com/>)

**Clinpix**- Fred Friedman has been in the dental camera business for more years than you want to know. Great service.

**Norman Camera** ( Andy Thompson, Brett Beier) www.normancamera.com

**Lester Dine** dinecorp (note it is called dineonline)

 **National Camera Exchange** ( Rick Spaulding) www.natcam.com

 NEW- LED Ring flash with programmable wings- **Doctors Eyes** plus excellent set of mirrors

**Pro Photo Supply** http://www.prophotosupply.com/dental/index.htm

**Dental Learning Centers** http://www.dlcenters.com/

Current recommendations are on the above websites- Canon, Nikon, Olympus seem to be most popular.

    (Kodak Dental photography kit Kodak P712 kit DISCONTINUED)

**Storing and sorting images**

 **Thumbs Plus** http://www.cerious.com/ Excellent product for organizing all of your digital images

NEW!! Photodontics from Cerious. Low cost full featured dental imaging.

http://**picasa**.google.com/ Free product from Google for photo organization on your computer

**www.eye.fi** Wireless SD card that will transmit images from your camera to a local computer

**Intraoral Cameras**  Separate review page in the website

Interesting new one- Intraoral camera/microscope/indirect vision dentistry CareScope

New cameras from Air Techniques (Polaris) , Kodak (1500)

Panasonic has just introduced a new camera using their patented "Image Stabilization". Neither operator or patient has to be still.

**Imaging/Photo resources**

**Digital Dentist** www.digident.com Lorin Library at digident

**Smile Vision** www.smile-vision.net Send your "before" photos-they send you "after" since they are a dental lab, they will also work up your models

**Smilepix** www.smilepix.com Send your "before" photos and these artists will send you back "afters" **Dr. Martin Goldstein** imaging seminars ( further information r martyg924@cox.net or www.drgoldsteinspeaks.com ) Dr. Goldstein also has the "Fracture Book"

**Esthetic Dentistry/ Smile Guide** http://www.ecdentalsolutions.com/ This company has MANY books and products including Denture Guide by Dr.Joe Massad, Digital photography book by Dr. Bob Maher and Fracture book for patients - Dr. Marty Goldstein- plus a nice set of posters for your office.

Tom Hedge Digital Dentistry www.dentalhealthcenter.com

 CIEOS- imaging as well as digital radiography imaging Visora

NEW Photodontics- a product of cerious.com ( Thumbs Plus) http://www.cerious.com/photodontics.shtml

Non- computer imaging for dentures www.mitchlab.com sets of 6 anteriors that you can try in the mouth.

**Practice Management/Appointment Reminders**

Add-ons to enhance your practice email, text automated reminders and more

http://www.**dentalsesame**.com functions above plus patient access to records, many online services, websites, more

http://www.**demandforce**.com/ functions above plus patient surveys, website optimization

**Lighthouse PLZ** email, text and postcards to patients with no other access. many other features

http://www.sikkasoft.com/sikkasite/home.aspx Dental Office Optimizer NOW- free version for basic service.

**Dentalsenders**.com now part of 1800 DENTIST

**Smile Reminder**  VSling  Record videos patient testimonials in your office on a web cam- post them on your web site and on the internet. New name **SolutionReach**

**DoctorBase** -in addition to reminders and surveys this service encourages patient comments. I also sets up and easy to use blog for the office.

**Digital Radiography**

 **Wired sensors-examples**

Schick, Kodak (Trophy), Dexis, Cygnus, Progeny, Suni, Sirona, KaVo/Gendex. Dent-X ( AFP), Acteon, Air Techniques, MyRay, Planmeca, XDR and more

**Wireless Sensors**  Schick- Size 1 and 0

**PSP phosphor plate sensors**

Gendex/Denoptix, AirTechniques ScanX, Kodak CR7400, Instrumentarium Optime

**Scanning Xrays**

Tigerview www.tigerview.com

 Xray Vision Assistant www.apteryxware.com

ScanRite www.smithdental.com

Vidar www.vidar.com

**Instant dental film** Ergonom-x http://www.cramerdental.com/ 800-723-4895 When your processor or sensor is broken. New faster speed film avaialble 2009

Portable Handheld Xray head  **Aribex Nomad** http://www.aribex.com/

 New one from Ewoo/Vatech Any Ray- info coming soon

Radiography enhancement XDR http://www**.xdr-radiology**.com/ software and also complete systems. Doug Yoon of UCLA has come up with a brilliant filter to enhance your digital images.

**Digital Xray Holder/XCP/Aiming devices**

**Steri-Shield** - an array of holders- reusable and disposable for all digital sensors. Go to Website and click on "Free Samples"

**Kerr Total Care** (Pinnacle) KwikBite Senso for Bitewings and SuperBite Senso for Periapicals - Autoclavable

**ClikRay** inexpensive set for any sensor or phosphor plate. . New one for Dexis

**Crosstex** New line of sensor barriers with cushions (Strong Dental)

**1Shot** http://www.1shotdental.com/ from New Zealand- simple system- just chosen by Instrumentarium

New from **Rinn**/Dentsply- holders for Dexis, bitwing "tabs, unigrip holders

**Rinn (Dentsply)** Dexis holders , Eeze grip

**TrollByte Kimera**- sensor holders color coded, easy to use

**Kodak Carestream**- Intelligent Positioning System (IPS) RVG 6500 like a GPS system for sensors

**Tru Align** aiming system- uses rectangular collimation for lower radiation

**CBCT DIGITAL IMAGING**

 NewTom 3G http://www.dent-x.com/prod\_newtom3g.html NewTom VG http://www.dent-x.com/prod\_newtomVG.html

 J Morita 3D Accuitomo -New model 2008 Veraviewepocs 3D To view actual 3D software- go to this link and click on "animation" and then "clinical cases. At present there are 2 - a mandibular cyst and a maxillary implant that are "live". You will have to access this handout on the web for the link.

I-Cat Imaging Sciences new model takes up less floor space. Website has a lot of case examples.

Also Gendex GX CB500- smaller image screen for limited view- keeps cost down\*

Iluma distributed by 3M ( developed by Imtec corp)

Kodak 9000 3D -limited field requiring smaller sensor thus lower cost.\*

New Kodak 9500  ( introduced 2009).Full volumes- new software

Vatech (E-Woo) (Picasso Trio) Ceph. Pan, CBCT, many offerings Pax uni3d and Pax 500 Ect  \*are CBCT units well suited for implants

Teraraecon Prexion new unit from company better known in medical CT.

New units from MyRay- full field CBCT- unique patient positioning (cefla corp)

 New unit from Suni smaller field, lower cost. Suni 3D ConeBeam 5x5 cm FOV upgradeable to 8x5\*

    \*Good for GP who does not need full skull anatomy for limited implant cases

**Implant Design with CAD (new companies proliferating rapidly)**

      Simplant, CADimplant.com, iDent-Surgical.com, ImplantLogic.com, Implant3D.com, med3D.com, (IGI) Denx.com, RoboDent.com

allovision.com, tactile-tech.com (ILS System), biomodel.com , Keystone (EasyGuide), AstraTech (Facilitate) , Anamotage InVivo

Also Atlantis Implant Abutments from AstraTech

Imaging Centers - here are some examples. Regional centers will be mentioned at each seminar.

360 Imaging Atlanta center has iCats and Iluma CT for patient scans. Doctors can send in scans for analysis and treatment planning. More centers opening in 2007, 2008

Northwest Radiography- Several locations in Washington State- imaging centers where dentists can refer patients for scans.

http://www.3dimagingcenter.com/ Manhattan and Brooklyn

Mobile CBCT vans- come to your office. In Mass/RI MMI

**Scanners** (old listing- model numbers and prices may change)

 NOTE- websites tend to show basic unit- you need the optional Transparency Adapter

    Many of these are now available on EBay and Craigs list

    Epson Expression 1680 Pro 8.5x11 $1200 scans pans and most FMX

 Microtek Scanmaker 8700 8x10 $731 have to trim the pan

 Microtek Scanmaker 9600 XL 11x15" $1075 Scans pans and larger FMX

   Microtek ScanMaker 9800 XL 12x16" $1450 Firewire

 UMAX PowerLook 2100XL 11x17" $1270 Scans Pans and largest FMX

 UMAX PowerLook 11100 8.5x10 $899 (check ebay)

**Caries Detection**

**KaVo DiagNodent** (laser) New attachment for calculus detection

**Midwest Caries ID** uses LEDs and sound to detect carie (was NEKS  D-Carie and DetcTar (calculus detection) )

**Lantis Laser** ( "OCT" Optical Coherence Tomography)

**Spectra** ( Air Techniques) Fluorescence New 2009

www.**thecanarysystem**.com new using laser and heat

**Cariescan**- new from Scotland

**S-Ray**- new experimental system using ultrasonics

**DIFOTI** (transillumination) (now distibuted by Kavo)

**ADDENT Microlux** Transillumination device- (great for seeing fractures, endo access at a low cost)

**SDI Radii** curing light has a transillumination attachment http://www.sdi.com.au/radii-plus/radii-plus.asp

 **HighQ Dental Oralume** transilluminator http://www.highqdental.com/oralume.html ( although I have an endorsement on their website I receive no compensation from this company-I like the product)

**Ozone caries therapy**

[www.curozone.com](http://www.curozone.com), www.limetechnologies.com

**Caries Assessment** http://www.carifree.com/ New assessment service for caries vulnerability.

**Computer Restorations- In-office scanned and manufactured**

CEREC AC BlueCam-

 Schein Evolution 4D

**Computer Restorations- In office scanners- export to lab**

Cadent - iTero hundreds of restorations have been completed by users

LAVA COS (3M) was Brontes3D ( Chairside Oral Scanner)

Densys3D - Israeli company in final testing last Q 2007- still waiting.

CEREC now can be sent to CEREC labs- CERECCONNECT as off 10/2010 no scan fees

E4D Sky- Studio- multitude of online options

IOS3D- FastScan- current distribution by Glidewell labs

Clon3d- in development

Hint-els - Direct Scan- in development

**Computer Restorations- Lab**

 Procera,    Cercon, CEREC-In-Lab, LAVA (3M), Everest (KaVo), BienAir. EMax

**Office intercom**

**Amtel**- a traditional light/text system- Look for them at most dental meetings. Say hi to Jack- a dental meeting fixture.

Light simulations on computer networks:

**CIEOS CAI** www.cieos.com

 **Smoke Signals Software,**  **SoftCom, Venga, Bluenote**

**Illuminated Mouth Prop Evacuation system**

ISOLITE (www.isolitesystems.com) mouth prop/tongue-cheek retractor/illumination

Ultralight optics has new product**- IZOLATION**

**RIBBOND** Shameless Plug for a friend- http://www.ribbond.com/ Fiber reinforcement for periodontal splinting and transitional bonded bridges.  Dr. David Rudo is a fixture and legend in the dental industry.

**Oral Health Care**

**Sonicare** toothbrush- look at the website to learn more about this product- It's more than a toothbrush. New Diamond Clean can be charged via USB

**OMNII** pharmaceuticals- Several products including SootheRX and Fluoride varnish (and InspektorPro)

**Oral B Triumph** http://www.oralb.com/en-US/recommender/

**Oragenics- Evora Pro** probiotic mints that change the balance of the oral flora and improve oral health

**Computer Appointment confirmation**

 Televox- Housecalls, Tel-A-Patient, Smilereminder, (SolutionReach),   Dental Sesame,  Demand Force, Dental Senders

**Shade systems**

 **Clear Match** (Smart) ( Software- all you need is your digital camera and their Black and White card)

  Shade-X (X-Rite)- discontinued

**Easy Shade (VITA)** new smaller wireless version

Vita has also revamped the physical shade guide- 3-D Master Guide and a new classic guide that is autoclavable. If you are using your ancient shade guide the colors may have changed- time for a new one.

Olympus - CrystalEye a Shade scanner, camera and patient monitoring device. Stopped production

Shade Scan (Cynovad) out of production 2007

Shade Eye ( Shofu) out of production 2007

THE LADDER- a unique non digital approach to shade matching. This is a very different shade guide that uses photographs of subtle characteristics of teeth allowing the dentist to transmit concepts to the lab. It goes way beyond just "the shade". At about $250 (although your lab will need a copy too-you can get 2 for $400) you will save hours of remakes. www.4theladder.com

**Consultants (regional names given at the lecture)**

**Ekram Khan** www.cieos.com Consulting, design, integration, specialized hardware solutions. Now has software packages including a new imaging product .

**Lorne Lavine**, DMD www.thedigitaldentist.com Consulting, design, integration

Massachusetts Comlink ( www.comlinkma.com) ask for John Tran ( Amazing pricing on computers- custom built- he will ship)

 Northwest US : http://www.crctechnologies.com/ http://www.dentalsystemsintegrators.com/

Northeastern US http://www.surfct.com/ SurfCT computer integration. Also distributes xpaper ( www.talario.com )

Eastern Mass, Rhode Island and Souhern NH Dennis Walsh http://www.patriotnetworks.com/

**Dental Blogs**

Lorne Lavine : The Digital Dentist

Marty Jablow http://dentechblog.blogspot.com/

John Flucke http://dentaltechnologyblog.blogspot.com/

Tom Hedge DentalBlogs.com

Dental Economics From the Editors blog ( including yours truly)

Full Osseous Flap's Blog www.flapsblog.com interesting look at the world by a dentist

Paul Feuerstein ( aw shucks) www.computersindentistry.blogspot.com

**Anit-Virus**

 Most popular antivirus **Norton, McAfee**

Information about a specific virus and instructions on removal www.symantec.com/avcenter/index.htm

**AVG** (grisoft.com) Free version for home- low cost version for office. automatic daily updates.( to get the free version you have to search for "AVG free"

**Avast** - very powerful- there is a free home version and a low cost commercial version.

Online- Housecall **trendmicro**.com Free home/39.95 pro- free updates

**Hoaxes/virus info**

 [www.snopes.com](http://www.snopes.com), urbanlegends.about.com, www.kumite.com/myths

**Dental Resource Online Groups**

**IDF**- Internet Dental Forum www.internetdentalforum.org

**AcesThetics** ( was Generation Next www.genr8tnext.com )

**Dental Town** www.dentaltown.com

**DrBicuspid.**com  new resource- online info and newsletter. Look for column Ask Marty- Marty Jablow DMD has a lot of great tips.

**Free Practice Management Newsletters**

Sally McKenzie http://www.mckenziemgmt.com/ click on "subscribe now

Anita Jupp, LeeAnn Shipowick ( Advanced Dental Education institute) http://www.learndental.com/

Lorne Lavine, Tom Snyder, Joel Harris and Sally McKenzie all join together for this free newsletter www.thedentistsnetwork.net

High Doherty- Financial advice- to subscribe for free newsletter send email to drfinnet@aol.com