

# today



### Live dentistry in the Exhibit Hall

Five procedures are scheduled for today and Friday on the hall's live-dentistry stage.

»Pages 3 and 12



### Handpiece's light is dual-wavelength

A 405 nm LED light turns caries red, restorative material yellow and healthy dentin green.

»Page 4



### Universal composite 'breakthrough'

Microscaled, well-defined spherical superstructures, composed of submicron glass: Here's how it's done.

»Page 20

# What type of denim are you?

Welcome to PDC2018, with more than 655 exhibiting booths to visit, 150 open sessions, five live dentistry presentations and up to 20 hours of C.E. credits. (Photos/ Provided by Pacific Dental Conference)



Casual or dressy, be JEANS!

Vancouver casual takes on official status this year, with PDC organizers encouraging attendees to deck themselves out in their best-looking, best-feeling or just best-broken-in denim.

But don't let the casual attire mislead you – there's as much serious business and education as ever on the agenda.

Today and Friday, more than 265 exhibitors representing virtually every sector of the industry will be

\*see WAX, page 3

## Friday night: 'PDC After Hours'

Enjoy drinks, snacks and a live dance band at the legendary Commodore Ballroom

Tickets (\$25+GST) are available at registration for Friday's PDC After Hours. The downtown venue opens at 8 p.m., but for early access, you can visit event-sponsor KaVo Kerr in the Exhibit Hall (booth Nos. 909, 911, 919, 1009, 1010, 1011 and 1109) to also pick up an exclusive invitation to the KaVo Kerr VIP Lounge.

The \$25 ticket to PDC After Hours includes a drink, late-night snacks and all the live music you can dance to from the Famous Players Band, which is described as being "a group of insanely talented musicians who, collectively, change the way people experience live music." It's known in Vancouver as one of the area's best live bands, and PDC organizers encourage you to join in on the fun to find out why.

The iconic Commodore Ballroom has been hosting musical events and other celebrations since 1929.

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# See live dentistry in Exhibit Hall

## Five procedures to be on stage today and Friday

■ The Live Dentistry Stage, on the west side of the PDC Exhibit Hall, is sponsored by A-dec and Sinclair. Each session also has co-sponsors.

Today at 8:30 a.m., **Jim Yeganegi**, DMD, performs "Guided Sinus Surgery Using Dynamic Navigation Guided System," co-sponsored by Hiossen Implant Canada and Navigate Surgical Technologies.

At 11:15 a.m., **Mark Kwon**, DMD, and **Mark Lin**, DDS, FRCD(C), perform "3D Digital Navigation Live Implant Surgery," co-sponsored by BioHorizons Canada.

Friday has three sessions. At 8:30 a.m., **Bobby Birdi**, DMD, Dip Perio, Dip Pros, FRCD(C), FACP, DABP, and **Ron Zokol**, DMD, present "Today's Tooth In One Day: Digital Anterior Immediate Implant Placement," co-sponsored by Nobel Biocare Canada.

At 11 a.m., **Sonia Leziy**, DDS, Dipl



• **Mark Kwon**, DMD, FICOI, prepares the patient on the PDC's 2017 Live Dentistry Stage before performing guided-implant surgery. Kwon will be on stage again this year with **Mark Lin**, DDS, FRCD(C), presenting '3D Digital Navigation Live Implant Surgery,' today at 11:15 a.m. (Photo/Robert Selleck, today Staff)

Perio, FCDS(BC), FRCD(C), presents "Digital Dentistry and the Small Implant Bridge. How, Why, Everywhere," co-sponsored by BioHorizons Canada.

At 2 p.m., **Jonathan Ng**, DDS, MSc, Dip Pros., FRCD(C), presents "How

Digital Dentistry Makes Life Better: Bridging Dentist and Lab Communication Implant Surgery," co-sponsored by Henry Schein.

(Source: Pacific Dental Conference)

## WAY "from page 1

available to meet with practitioners and team members. Attendees will be able to test out the latest products and take advantage of show specials offered by some of the industry's most innovative companies. There's also a lunch and happy hour in the Exhibit Hall on both days.

For the majority of attendees, C.E. credit is given for general attendance (up to five hours) and hour-for-hour course attendance. It's possible to earn up to 20 C.E. credits total.

## PDC Lab Expo expands

Saturday's PDC Lab Expo brings together dental technicians and dentists to meet with a selection of top companies to exchange information and forge new relationships. Hours have been expanded to 8 a.m.-5 p.m., and session times will be staggered to enable more time in the exhibits area. There will be a beer and wine reception with exhibitors from 4-5 p.m. with complimentary wine, beer and snacks. A "Showcase Stage" in the PDC Lab Expo will feature 30-minute demonstrations at peak times for exhibitors to showcase their latest products and technologies.

## Wide range of top speakers

Of course, the heart of the meeting is the educational sessions, and speakers this year are among the industry's best. Examples on today's agenda include:

**Alan Atlas**, DMD, is in private practice in Philadelphia and serves as clinical professor of restorative dentistry at the University of Pennsylvania School



• **Alan Atlas**, DMD  
(Photos/Provided by PDC)



• **Amber Riley**, RDH



• **Jeff Glaizel**, DDS



• **Warren Karp**,  
DMD, PhD

of Dental Medicine. He is founder and director of the Endodontic-Restorative Microscopy and Technology Clinic, teaching the art of precision restorative dentistry using the dental microscope and digital technologies. At 8:30 a.m., he presents "Good to GREAT! Mastering Adhesion Dentistry and Posterior Composites," and at 1:30 p.m., he follows up with a limited-attendance hands-on session of the same title.

Practicing clinician **Amber Riley**, RDH, is the forensic dental autopsy technician for San Diego County and lectures across North America on several topics within dentistry and dental hygiene. She is a fellow of the American Academy of Forensic Sciences and a member of the American Society of Forensic Odontology. At 9 a.m., today and again on Friday, she presents "Fifty Shades of Green. Forensic Dentistry in the 21st Century." At 2 p.m. and repeating on Friday at 1:30 p.m., she presents "Patients, Pills and Pathologies."

**Jeff Glaizel**, DDS, is in private practice in Toronto and serves as senior business lead, venture development, at the Ontario Telemedicine Network. He consults and lectures on electronic rec-

ord keeping, privacy, security and interoperability. One of his goals is to enable secure digital knowledge transfer in a person-centric health care system. At 8:30 a.m. and again at 1:30 p.m., he presents "Digital Dentistry 101."

**Warren Karp**, DMD, PhD, is professor emeritus of the Dental College of Georgia at Augusta University. He earned his PhD in biochemistry at Ohio State University and his DMD at the Dental College of Georgia. He is an elected member of the American Society of Clinical Nutrition and a past president of the Georgia Nutrition Council. He has directed the dental nutrition consult service for more than 20 years. Today and repeating on Saturday at 9 a.m., he will present "The Diet to Promote Health and Prevent Disease in Your Patients." At 1:30 p.m. on Friday, he will present "Facilitating Nutrition Learning: Helping Patients Translate Nutrients Into Foods."

This is just a hint at the scope of dental education here in Vancouver during the next three days, with more than 165 speakers and 210 sessions scheduled.

(Source: Pacific Dental Conference)

# Handpiece deploys restorative- and caries-detection technology

By Lares Research Staff

■ Lares Research, a global leader in handpiece manufacturing, launched the Fluoresce HD handpiece line in 2017 – the first handpiece that deploys caries- and restorative-detection technology – available in both high-speed (turbine) and electric micro-motor systems.

## Honored as 'Most Innovative Product'

The Fluoresce HD was awarded "The Most Innovative Product" at the ADF 2017 in Paris.

At the Pacific Dental Conference, Lares Research's exclusive Canadian distributor Dental Fix Rx (booth No. 149) will be marketing the Fluoresce HD, described as dentistry's first dual-wavelength handpiece system. It has a push button to switch from normal white LED light to Fluoresce HD 405 nm LED light.

Fluoresce HD utilizes 405 nm light emitted

## Here at the PDC

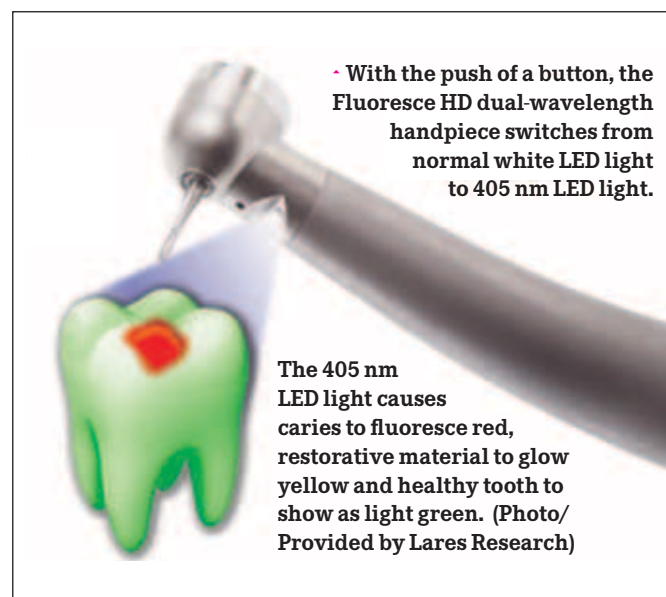
See the Fluoresce HD handpiece from Lares Research in the Dental Fix RX booth, No. 149.

from the handpiece to cause caries to fluoresce red, restorative material to glow yellow and healthy tooth to show as light green.

According to the company, Fluoresce HD is minimally invasive, reduces the risk of reinfection and saves chair time – benefitting both patient and dentist.

Simple and cost effective to use, Fluoresce HD can be deployed with the Lares Fluoresce HD Electric system or any KaVo MULTIflex\* compatible turbines, according to the company.

For more information, you can telephone Dental Fix at (800) 575-2806 or visit online at [www.dentalfixrx.com](http://www.dentalfixrx.com).



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(plus GST)

Join us for an expedition around the world as we experience 90+ point wines from all corners of the globe! Here is a listing of the wines which we will be tasting tonight.

- Pieropan Organic Soave Classico 2016 (Italy)
- Jules Taylor Gruner Veltliner 2015 (New Zealand)
- Maverick Chardonnay "Cross Road" 2015 (BC)
- Casa Santos Lima, Colossal Reserva Tinto Red Blend 2014 (Portugal)
- Marte Mate Tempranillo Pixide 2013 (Spain)
- Locations Wine Company Grenache Syrah Bordeaux Blend 2014 (France)
- Aska Bolgheri Rosso Cab Sauv, Cab Franc 2013 (Italy)
- Casajus Ribera Del Duero Antiguos Vinedos Tempranillo 2012 (Spain)
- Laderas De Leonila Bierzo Mencia 2013 (Spain)

**PDC  
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**Friday, March 9**  
Commodore Ballroom  
Doors open at 8pm

**Cost \$25.00** (plus GST)  
Includes: 1 drink, late night snacks,  
live dance band - Famous Players Band

**Early Access | VIP Passes**  
Visit the KaVo Kerr booths in the Exhibit Hall and receive an exclusive invitation to their KaVo Kerr VIP Lounge and early access to the event. (ticket purchase required - \$25.00 + GST)

909 - i-CAT, 911- DEXIS, 919 - Pelton & Crane,  
1009 - KaVo Dental, 1010 - KaVo Imaging,  
1011 - Kerr Corporation, 1109 - Nobel Biocare

**PDC  
LAB  
EXPO**

*Come visit the exhibits  
and join us for lunch!*

**PDC Lab Expo  
March 10**  
VCC West - Ballroom A/B

**Exhibits  
8:00am – 5:00pm**

**Lunch  
11:00am – 12:30pm**

**Showcase Stage  
9:30am, 11:15am,  
12:00pm, 2:15pm**

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# Predictable and functional esthetics with low shrinkage and reduced stress

By Shofu Dental Staff

■ One of the greatest limitations in the use of resin composites is the material's shrinkage during polymerization.

This process, typically associated with dynamic development of elastic modulus, creates a network of stress cells within the resin composite and its interface with the tooth structure.

The unrelieved stress can weaken the bond between the tooth structure and the restoration. Consequently, marginal leakage, tooth fracture and a restoration's displacement may occur and further initiate the formation of secondary caries and post-operative sensitivity.

On average, the majority of resin composites in the market shrink about 2 to 5 percent.

As polymerization shrinkage cannot be completely eliminated, a plethora of techniques and protocols has been developed to conduct the manipulation of restorative procedures to minimize the effects of shrinkage and associated shrinkage stress.

Introduction of various new composite systems with low-shrink chemistry may also help overcome the problem.

A next generation of a bioactive composite indicated for all cavity classes, I–V, Beautifil II LS (Low Shrink) provides general practitioners with the means to reduce polymerization shrinkage and shrinkage stress while creating predictable and functional esthetics.

Like all restorative materials from Shofu, this novel composite incorporates the proprietary bioactive Giomer chemistry, clinically proven in eight- and 13-year recall studies to release and recharge fluoride and other beneficial ions and inhibit plaque formation to help establish a stable pH in the oral environment.

Highly filled, 83 wt percent, Beautifil II LS demonstrates excellent compressive and flexural strength (ca. 370 MPa and 120 MPa, respectively),



• Functional and naturally beautiful restorations created with Beautifil II LS. (Photos/Frank J. Milnar, DDS, AAACD)



• Beautifil II LS. (Photo/Provided by Shofu Dental)

maintains ideal color stability and polishes in an instant, producing a long-lasting sheen, according to the company.

A distinguishing feature of Beautifil II LS is its low-shrink rate. In rigorous international bench tests,

this ground-breaking material demonstrated volumetric shrinkage of 0.85 percent and polymerization shrinkage stress of 2.72 MPa, the lowest characteristics among all universal composites in the market today. Shofu attributes these outstanding

## Here at the PDC

You can visit Shofu in booth No. 1203 to learn more about how Beautifil II LS (Low Shrink) reduces polymerization shrinkage and shrinkage stress while creating predictable and functional esthetics.

results to a new proprietary monomer and high-density pre-polymerized fillers, which also exhibit tooth-like optical properties and natural esthetics.

Available in syringes, tips and value kits, in 14 dentin and enamel shades, Beautifil II LS offers the clinicians predictable and functional esthetics with greater strength, higher wear resistance and naturally beautiful esthetics, according to the company.

## Features of Beautifil II LS (Low Shrink)

- Lowest volumetric shrinkage (0.85 percent) and shrinkage stress (2.72 MPa).
- Greater strength and higher wear resistance.
- Tooth-like esthetics with natural fluorescence and chameleon effect.
- Polishes in an instant.
- Sustained fluoride release/recharge with bioactive Giomer chemistry.





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