

An OHSU-sponsored dental research group in Oregon and SW Washington.



Deschutes River in Bend, near the Old Mill  
(Photo by Tom Hilton)

## Message from the Director

Welcome to the second issue of the OHSU Practice-based Research in Oral Health (PROH) network newsletter, which we are mailing to all dentists in Oregon and Southwest Washington. We had a tremendous response to our first issue, with a lot of positive feedback. Happily, the publication also enticed a number of new dentists to join the PROH network.

For those of you who still are not familiar with PROH ([www.ohsu.edu/proh/](http://www.ohsu.edu/proh/)), we are a practice-based research network established to perform a wide variety of dental research in a diversity of practice settings. The PROH network, quite simply, is a group of practicing dentists who are willing to contribute to the evidence-basis for dental care by participating in clinical studies that provide “real world” research on problems clinicians face daily.

PROH is designed to be a “practitioner centric” organization: study topics are solicited from the participating dentists. A majority of the network steering committee members are practicing dentists who review and approve all research projects engaged in by member dentists. If you are not part of PROH and would like to learn more, please contact any of the individuals listed on the back page and we will be happy to provide you with more information.

We currently have three research projects underway. The first is a study of a chlorine dioxide rinse already approved to address oral malodor. PROH practices are evaluating if this rinse is effective at reducing mild to moderate periodontitis. A second study is assessing a new temporary crown system just introduced to the market. The system consists of prefabricated composite crowns that can be quickly adapted, trimmed and cured without the need of a pre-operative impression or template. PROH dentists are evaluating this system for clinical parameters such as color stability, anatomic contour stability, and periodontal indices, as well as

ease of use compared to their normal technique for fabricating temporary crowns. The third study just getting underway is a clinical trial investigating the performance of a low-shrinkage composite in posterior restorations. Fifty restorations will be placed and followed for an initial period of two years, with the hope that the evaluation ultimately will be extended to obtain longer-term clinical data.

For all three studies, practitioners and their staffs have undergone instruction in study conduct and training to help standardize the criteria used in the evaluation process. In every instance, PROH dental practices received all materials needed to execute the studies, free of charge. Additionally, they are compensated for time spent on the study over and above that which would normally be spent treating the patient.

On a final note, we want to express our sincere gratitude to Dr. Jack Clinton, dean of the OHSU School of Dentistry. Our network relies almost entirely on external funding (grants). While we try to be frugal, an operation like this requires considerable infrastructure money to operate and so we are always looking for ways to extend our limited resources.

Dean Clinton has been a strong supporter of PROH since its inception. He generously provides us with time to engage in network-related activities. He helps us recruit dentists to the network, and promotes us to agencies that might provide us with funding. And this newsletter wouldn't be possible without his backing. It is no understatement to say that PROH wouldn't be the success that it is without the dean's strong commitment.

Thomas J. Hilton, D.M.D., M.S.  
PROH Director, [hiltont@ohsu.edu](mailto:hiltont@ohsu.edu)



Tom Hilton, D.M.D., M.S.

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## Fourth Annual PROH Conference & Continuing Education Course

The agenda is set and speakers are eagerly awaiting the fourth annual Practice-based Research in Oral Health (PROH) conference scheduled for 8:30 a.m., Friday, Nov. 2 at the World Trade Center in Portland. In keeping with our mission of contributing to the advancement of evidence-based dental practice, this year's continuing education course is "Dental Myths and Controversies."

We have a power-packed lineup of seven specialists who will address some of the most contentious myths and controversies facing us in dentistry today. Each speaker will have approximately 20 minutes to introduce his topic(s), identify the opposing viewpoints, review the relevant research, and then present his position on the topic based on his understanding of the evidence. Making the session even more interesting and interactive for the audience, all attendees will have the opportunity to vote electronically (and anonymously) before and after the evidence is presented as to where they fall on the issue. The morning will wrap up with a general Q&A/panel discussion.

You and your dental staff won't want to miss this important and timely information of vital importance to all practitioners. Use insert for registration or contact OHSU's Continuing Dental Education office at 503.494.8857.

Topics and speakers:

### **"Do all 3rd Molars Need to be Removed?"**

by Leon A. Assael, D.M.D.

### **"Bonded vs GP Obturation" and "One vs. Two Appointment Endo"**

by J. Craig Baumgartner, D.D.S., M.S., Ph.D.

### **"Lasers vs. Other Periodontal Treatment Modalities"**

by Winthrop Carter, D.D.S.

### **"Do 3rd Molars Move Teeth and Cause Relapse Following Orthodontic Treatment?" and "Does Invisalign Really Work?"**

by David Covell, D.D.S., Ph.D.

### **"Implants vs. Fixed Partial Dentures"**

by Scott R. Dyer, D.M.D., M.S., Ph.D.

### **"Immediate vs. Delayed Loading of Implants"**

by Sam El-Ebrashi, B.D.S., M.S.

### **"Do Emerging Technology Devices More Accurately Diagnose Intraoral Lesions?"**

by F. James Kratochvil, D.D.S.

### **Steering Committee Members**

#### **Private practitioners:**

Mark Driver, D.M.D.,  
Roseburg

Mark Jensen, D.M.D., Bend

Walt Manning, D.M.D.,  
Albany

Jean Martin, D.D.S., M.P.H.,  
Canby

Marvel Walker, Portland

Tom Walker, D.M.D.,  
Portland

#### **OHSU faculty/staff:**

Cindy Barnes, R.D.H., M.B.A.,  
PROH Network Manager

LJ Fagnan, M.D., ORPRN  
Director

Jack Ferracane, Ph.D., PROH  
Investigator

Tom Hilton, D.M.D., M.S.,  
PROH Director

Theresa Madden, D.D.S.,  
Ph.D., PROH Investigator

Cindy Morris, M.D., Ph.D.,  
OHIP Director

## Meet Your Steering Committee

In each issue of the PROH Newsletter, we like to introduce you to one of the Steering Committee members. Mark Driver, D.M.D., who is in private practice in Roseburg, Ore., graduated from the University of Oregon School of Dentistry (now OHSU School of Dentistry) in 1976. He spent two years in the Navy aboard the USS Nimitz. That was followed by one year as an associate with B.T. Dolby, D.M.D. in Tumwater, Wash., and another two years with Alan Drews, D.M.D. in Roseburg, Ore. In 1981, he opened the doors of his own practice and now has seven employees in his office of five functioning operatories. One of his favorite professional activities has been dental missions to Plaenque, Mexico and Ixcán, Guatemala.

Mark and Cathy, his wife of 35 years, have a daughter, Megan, attending the University of Oregon this fall and a son, Ben, in his third year of dental school at OHSU. Dad looks forward to sharing his practice with Ben upon Ben's graduation in 2009. Mark's hobbies include travel, cycling, motorcycling, hunting and fishing.

When asked why he participates in PROH, Mark said: "I felt that practice-based research and the knowledge that could be gained and passed on to everyday dentists like me and most of the dentists I know could be meaningful and helpful in our real world dental practices."

We are glad he feels that way! Mark has been a great asset in the guidance of the PROH network. Thanks, Mark, for your time and expertise.



*Mark Driver, D.M.D. with children of the Ixcán jungle in Guatemala during a March 2007 dental mission*

## Fourth Annual PROH Conference “Dental Myths and Controversies” Friday, November 2, 2007

Join us for an exciting, fast-paced morning with seven speakers addressing some of the most contentious myths and controversies facing us in dentistry today. OHSU faculty specialists will each introduce their topic(s), identify the opposing viewpoints, review the relevant research, and then present their position on the topic based on their understanding of the evidence. The morning will wrap up with a general Q&A/panel discussion. Topics and speakers are as follows:

**“Do All 3rd Molars Need to be Removed?”** by Leon A. Assael, D.M.D., Professor and Chairman of the Department of Oral and Maxillofacial Surgery and Director of the Oral and Maxillofacial Surgery Residency Program.

**“Bonded vs GP Obturation”** and **“One vs. Two Appointment Endo”** by J. Craig Baumgartner, D.D.S., M.S., Ph.D., Professor and Chairman of the Department of Endodontology and Director of the Advanced Education Program in Endodontics.

**“Lasers vs. Other Periodontal Treatment Modalities”** by Winthrop Carter, D.D.S., Chairman of the Department of Periodontics, Director for the Advanced Education Program in Periodontics, and an attending periodontist at OHSU Hospitals & Clinics and VA Medical Center Portland, Oregon.

**“Do 3rd Molars Move Teeth and Cause Relapse following orthodontic treatment?”** and **“Does Invisalign Really Work?”** by David Covell, D.D.S., Ph.D., Associate Professor and Chair of the Department of Orthodontics. His present research interests include animal models and clinical studies investigating biological aspects of facial growth and orthodontic tooth movement.

**“Implants vs. Fixed Partial Dentures”** by Scott R. Dyer, D.M.D., M.S., Ph.D., Assistant Professor in the Department of Restorative Dentistry in the divisions of Biomaterials and Biomechanics, and Prosthodontics. He maintains a private practice limited to fixed, removable and implant prosthodontics.

**“Immediate vs. Delayed Loading of Implants”** by Sam El-Ebrashi, B.D.S., M.S., currently in a private practice limited to implants and prosthodontics. He is a Diplomate with the American Board of Oral Implant Dentistry.

**“Do Emerging Technology Devices More Accurately Diagnose Intraoral Lesions?”** by F. James Kratochvil, D.D.S., Associate Professor and Chairman of the Department of Pathology. He also serves on the faculty of the School of Medicine in the Department of Pathology. He is director of the OHSU Oral Pathology Biopsy Service and has an active practice seeing clinical oral pathology patients.

You won't want to miss this important and timely information of vital importance to all practitioners. Registration form is on the back of this page.

### **When:**

Friday morning,  
November 2, 2007

### **Course #:**

DNSOD-1107

### **Time:**

8:30 a.m. to 12:30 p.m.

### **Early Tuition:**

Until 10/14/2007:  
\$110 per dentist  
\$90 per staff

### **Tuition:**

After 10/14/2007:  
\$125 per dentist  
\$100 per staff

### **Credit:**

4 hours

### **Location:**

World Trade Center,  
Auditorium, Bridge Level,  
121 SW Salmon, Portland

# PROH Conference Registration Form

You will receive acknowledgement of your enrollment by mail.

*One registration form for each person*

Last name: \_\_\_\_\_ First name: \_\_\_\_\_ M.I.: \_\_\_\_\_  
 Address: \_\_\_\_\_ City, State, Zip: \_\_\_\_\_  
 Office phone: \_\_\_\_\_ Home phone: \_\_\_\_\_  
 Fax number: \_\_\_\_\_ E-mail address: \_\_\_\_\_  
 SSN / ADA #: \_\_\_\_\_ (for CE credit recording only)

Title (please circle):      DDS      DMD      RDH\*      CDA/EFDA\*      CDT\*      Retired      Other  
 \*Employer name: \_\_\_\_\_

**PLEASE REGISTER ME FOR THE FOLLOWING:**

|  | PROH Participant            |                             | Non-PROH Participant        |                              |
|--|-----------------------------|-----------------------------|-----------------------------|------------------------------|
|  | Before 10/14/2007           | 10/14/2007 & After          | Before 10/14/2007           | 10/14/2007 & After           |
| <b>Friday, November 2, 2007</b><br><b>World Trade Center</b><br><b>121 SW Salmon</b><br><b>Portland, OR 97204</b>  |                             |                             |                             |                              |
| <input type="checkbox"/> <b>Dental Myths and Controversies</b><br>8:30-12:30   | \$55* dentist<br>\$45 staff | \$65* dentist<br>\$50 staff | \$110 dentist<br>\$90 staff | \$125 dentist<br>\$100 staff |
| <input type="checkbox"/> <b>PROH Business Meeting and Luncheon</b><br>(PROH dentists only)<br>12:45-2:30<br><input type="checkbox"/> Chicken <input type="checkbox"/> Vegetarian | No charge                   | No charge                   | N/A                         | N/A                          |
| Total amount enclosed:   | \$ _____                    | \$ _____                    | \$ _____                    | \$ _____                     |

\* This rate is only available to those attending the PROH Business Meeting and Luncheon.

Check/Money Order payable to OHSU      Or:     Mastercard     Visa     American Express     Discover

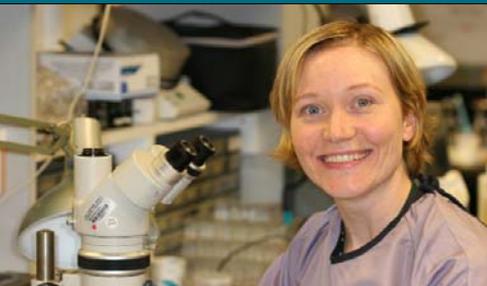
Card number: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Signature of card holder: \_\_\_\_\_

*Return to: OHSU – CDE Department, 611 SW Campus Drive, Portland, OR 97239-3097  
 Phone: 503-494-8857 or 800-232-6478 Fax: 503-494-2973 E-mail: reaumed@ohsu.edu*

## PROH Supports Student Research

Inspired by the enthusiastic response of dentists to practice-based research, the OHSU School of Dentistry is encouraging dental students to pursue careers in research. The Practice-based Research in Oral Health (PROH) network will directly assist OHSU student researchers in two studies.



*Laura Rickert,  
second year  
dental student  
and OCTRI  
research award  
recipient*

### Effects of Eugenol Concentrations



*Laura's study will include a laboratory evaluation of adhesive bond strength*

Second year dental student Laura Rickert received one of the very first grants from the Oregon Clinical and Translational Research Institute that enables her to design and implement a research project under the mentorship of Drs. Jack Ferracane, Ph.D. and Tom Hilton, D.M.D., M.S. There are two parts to Laura's study examining the impact of eugenol-containing materials

on adhesive bond strength. The first is a lab experiment examining to what extent altering the ratios of zinc-oxide powder to eugenol liquid will have on shear bond strength of a resin dentin adhesive. The control group will have dentin that is not contaminated with any zinc-oxide-eugenol cement. The five test groups will be coated with different ratios of zinc-oxide-eugenol temporary restorative. Following one week of storage under identical conditions, dentin bonding agent and resin composite will be applied to the teeth. Microtensile strength testing will then be performed.

The second part of the study is a behavioral component utilizing PROH dentists. This component will be initiated by a pre-study survey of all PROH dentists to determine their willingness to participate. Those that are interested will be given a survey with questions regarding the materials and methods they use that contain zinc-oxide-eugenol cements and restoratives. After the lab experiments are completed, participating study dentists will receive the results, the related analyses, and a follow-up survey. They will be asked specific questions about how they interpret the information and whether it will result in an alteration in their practice behavior or products utilized.

It is hoped that this research project will provide valuable, evidence-based information to practitioners as well as offering a great dental research learning experience for Laura Rickert.

### PROH to Play Key Role in NIH Grant to Promote Scientific Inquiry in the Curriculum

The School of Dentistry recently received a \$600,000 grant – what's known as an R25 grant -- from the National Institutes of Health's National Institute for Dental and Craniofacial Research (NIDCR) to strengthen research literacy and the dependence on scientific evidence in the pre-doctoral curriculum. One of the strengths of this program will be using practitioners from OHSU's Practice-based Research in Oral Health (PROH) network to interact with, and provide role models for, dental students as they learn how to integrate scientific inquiry into routine dental practice.

The four-year grant was awarded in April, with Ron Sakaguchi, D.D.S., M.S., Ph.D., associate dean for technology & innovation and professor of biomaterials & biomechanics, the principal investigator. Jack Ferracane, Ph.D., chair of restorative dentistry; Phyllis Beemsterboer, R.D.H., Ed.D., associate dean for academic affairs; and Tom Shearer, Ph.D., associate dean for research, are co-investigators.

“The guiding principle for this grant is to create a culture of research at the School of Dentistry at OHSU,” says Dr. Sakaguchi. “Dental students who master the concepts of scientific reasoning, critical thinking and integration of scientific evidence will provide higher quality evidence-based health care throughout their careers. We expect they will participate in practice-based research networks, review outcomes from their own practices, demand more scientific evidence in continuing education, and be more critical of new materials, devices and procedures. They will raise the practice of dentistry to new levels of excellence.”

Dental students will be introduced to concepts in scientific inquiry and critical thinking in a new course designed by Denice Stewart, D.D.S., M.H.S.A., associate dean for clinical affairs, and Dr. Sakaguchi that will be rolled out this fall. Students will receive didactic research training similar to the training provided to PROH dentists. Dental students will participate in workshops and team projects, and will be given an opportunity to participate in research clerkships and electives.

The R25 grant will also provide an opportunity for PROH dentists to interact with pre-doctoral students. “It is important for students to hear from practicing dentists how research is valued and integrated into private practice,” says Dr. Sakaguchi. “After receiving didactic training and exercises in a workshop environment, we hope the students can assist in data collection in PROH offices. PROH dentists are perfect role models for our students as we move scientific inquiry and critical thinking into clinical environments.”

“We are seeking PROH dentists who would like to participate in this exciting, new initiative as a speaker at one of the training sessions, or as a mentor in one of the workshops at the school or in his/her practice,” says Dr. Sakaguchi. “We strongly believe in the positive impact this program will have on our students as they progress through the predoctoral curriculum into practice.”

PROH dentists interested in participating can contact Ron Sakaguchi at [sakaguch@ohsu.edu](mailto:sakaguch@ohsu.edu) (preferably) or by phone at 503.494.8692.

| Contact PROH | Congratulations | Notes |
|--------------|-----------------|-------|
|--------------|-----------------|-------|

**Thomas J. Hilton, D.M.D., M.S.**

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PROH Network Manager  
503.418.1410  
barnesc@ohsu.edu

- July brought the arrival of 8 pound 7 ounce Caiman Lucas to the Jensen household in Bend. Congratulations Dr. Mark and Leslie Jensen!
- Kinley Adams, D.M.D. reached the summit of Mt. McKinley (the highest peak in North America) in Denali National Park in Alaska on June 12th with sons Cameron and Brock. Congratulations Dr. Adams!



*Dr. Kinley Adams, D.M.D. (center) and sons Cameron and Brock at summit of Mt. McKinley*

- We continue to need your extracted teeth for use in various laboratory studies. Please contact Cindy at 503.418.1410 for details. Thanks to all of you who have already sent us teeth and for referrals to other dentists (e.g., oral surgeons).
- Complete your online HIPAA and Responsible Conduct of Research training at <http://www.ohsu.edu/cc/ed/bb>. Contact Cindy for step-by-step instructions at 503.418.1410 or barnesc@ohsu.edu.
- Submit your favorite seasonal photo – digital photos preferred! – to be used on the front cover of an upcoming PROH Newsletter.



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**HEALTH & SCIENCE**  
UNIVERSITY

*Newsletter of the Practice-based Research in Oral Health network*

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