New Materials, Technologies & Laser Training
Friday-Sunday, April 26-28, 2019

Friday, April 26, 2019

Lynda J. Young Conference Room • 6-410 Moos HS Tower

**New Restorative Materials**

8:00  **Adhesion to Enamel and Dentin—New Developments**  
Dr. Jorge Perdigão  
Universal adhesives – advantages and shortcomings  
Why selective enamel etch with universal adhesives?  
Chlorhexidine and MMP’s – what does the clinical evidence show?  
New adhesives with antibacterial properties  
Clinical studies

**New Composite Resins**  
Nanofilled vs. hybrid composites  
Bulk-filled composites  
Composites indicated for esthetically demanding situations  
Layering or stratification technique  
Posterior composite restorations made simple  
Clinical studies – factors responsible for failure  
Clinical cases

10:00  Refreshment break

10:15  **Restoration of Endodontically Treated Teeth**  
Dr. Perdigão  
New developments in fiber post technology  
Luting techniques for fiber posts  
The importance of a reliable root canal seal  
Indications and contra-indications for posts  
Use of composite build-up materials

**Ceramic Materials**  
Glassy matrix vs. oxide ceramics – how to handle them clinically  
Controlled clinical studies the widespread myths  
Advantages of zirconia over lithium disilicate restorations in posterior teeth  
Luting techniques for lithium disilicate and for zirconia restorations  
Clinical cases including laboratory procedures
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12:00 Questions and answers  Dr. Perdigão
12:15 Luncheon

Biomedical Library – Diehl Hall

New Technologies: Diagnostic

1:00 Interpretation of Cone Beam CT Images  Dr. Mansur Ahmad
   Introduction to cone beam technology and CBCT software
   Current status of extraoral bitewing technology
3:00 Refreshment break
3:15 Interactive Case Presentations  Dr. Ahmad
   Implants
   Endodontics
   Other factors impacting restorative and esthetic cases
5:00 Questions and answers  Dr. Ahmad
5:15 Adjourn

Saturday, April 27, 2019

Lynda J. Young Conference Room • 6-410 Moos HS Tower

Digital Dentistry

7:30 Reconvene. Continental breakfast.
8:00 Lecture  Dr. Paul Olin
   Overview of digital dentistry
   Introduction of digital impressions

7th Floor Contemporary Dental Center & Research Clinic

9:15 Hands-on  Dr. Olin & Dr. Erin Johnson
   Work in groups of 3, gaining practical experience with digital impressioning
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10:15  **Sending Lab Authorization and Material Selection**

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10:30  Refreshment break

10:45  **Lecture**
Dr. Olin
Digital dentures

12:15  Luncheon (included)

### Laser Training

1:00  **Lecture**
Dr. Chris Walinski
Introduction to lasers
Laser physics, science and safety

3:00  Refreshment break

3:15  **Lecture**
Dr. Walinski
Hard tissue appliances
• Principles of hard tissue ablation
• Laser cavity preparation

5:15  Adjourn

**Sunday, April 28, 2019**

Lynda J. Young Conference Room • 6-410 Moos HS Tower

### Laser Training

7:30  Reconvene. Continental breakfast.

8:00  **Lecture**
Dr. Walinski
Soft tissue applications

10:00  Refreshment break
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10:15  Workshop  Dr. Walinski
       Hands-on laser practice: participants will practice using lasers
       on porcine mandibles

12:15  Luncheon (included)

1:00   Written certification exam and review  Dr. Walinski

2:00   Periodontal application

3:00   Refreshment break

3:15   Laser wound healing and pain management  Dr. Walinski

4:15   Workshop  Dr. Walinski
       Hands-on laser practice

Clinical proficiency test

5:15   Adjourn

Meet Our Experts

**Mansur Ahmad**, BDS, PhD, Associate Professor and Director, Oral and Maxillofacial Radiology, Division of Oral Medicine and Diagnosis, Department of Diagnostic and Biological Sciences, University of Minnesota School of Dentistry. Diplomate and Past President, American Board of Oral and Maxillofacial Radiology. Dr. Ahmad’s research interests include TMJ imaging, CBCT imaging and tissue engineering.

**Erin C. Johnson**, DDS., Clinical Assistant Professor of Implant Dentistry, Division of Prosthodontics, Department of Restorative Sciences, University of Minnesota School of Dentistry.

**Paul S. Olin**, DDS, MS., Associate Professor, Division of Prosthodontics, Department of Restorative Sciences; Director, Dental Implant Program; University of Minnesota School of Dentistry. Dr. Olin maintains an active prosthodontic and esthetic dentistry practice. *Dr. Olin is the Director of Postgraduate Programs in Esthetic Dentistry Levels I-III at the University of Minnesota School of Dentistry.*
**Jorge Perdigão**, DMD, MS, PhD, Professor, Division of Operative Dentistry, Department of Restorative Sciences, University of Minnesota School of Dentistry. Dr. Perdigão is involved in the research of new dental materials mainly in the area of dentin bonding and new composite resins. He has delivered over 250 lectures in Asia, Europe, North America, Oceania, and South America and has published over 140 scientific articles in international journals. He has served as an associate editor, section editor or an editorial board member for different professional journals in operative, esthetic/adhesive dentistry and biomaterials. Dr. Perdigão has also authored seven chapters on dental adhesion in several textbooks, including the Sturdevant’s *Art and Science of Operative Dentistry* (Mosby), and is Editor and author of the books *Restoration of Root Canal Treated Teeth: An Adhesive Dentistry Perspective* (Springer) and *Tooth Whitening: An Evidence-Based Perspective* (Springer). Dr. Perdigão is a consultant for several manufacturers worldwide in the development of new adhesive dental materials and serves also as a consultant to the ADA Committee for Scientific Affairs and to the Federal Drug Administration.

**Christopher J. Walinski**, DDS, Associate Professor and Director of Laser Dentistry, The University of Tennessee College of Dentistry; Visiting Professor at The Ohio State University and Taipei Medical University College of Oral Medicine; Visiting Lecturer at Harvard University. Dr. Walinski has been an author, inventor and innovator in Laser Dentistry for almost two decades. His 2003 text on laser dentistry has been published in over ten languages. He is a Founding Member of the American Academy of Oral Systemic Health, and the World Clinical Laser Institute, from which he has received Masters certification and is the current Executive Director. Dr. Walinski is the Editor-in-Chief of the *Journal of Laser Assisted Dentistry*, is a Diplomate and Past-President of the World Congress of Minimally Invasive Dentistry, and sits on numerous boards worldwide.

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