February 16, 2018

Digital Dentistry for Everyday Practice – Dr. David Gratton – 8:30 – 9:30 AM

Technology is deeply engrained in our personal and social lives, but what about our professional lives as dentists? Clinical dentistry (well, at least the dental laboratory industry) is embracing the application of digital technologies to replace the analog techniques with which we are so comfortable. While this is especially true in the realm of impression making procedures and chair side prosthesis manufacturing, processes can be digitized at each phase of restorative and implant treatment, resulting in the virtualization of the patient from diagnosis through prosthesis delivery.

This course will trace the integration of digital dentistry into the everyday restorative practice. These technologies will be explored to generate familiarity with their capabilities, advantages, disadvantages, and limitations.

Participants should be able to:

- Have a greater understanding of current and emerging technologies for each phase in the treatment of dental patients, especially digital intra-oral impression systems and chair side CAD/CAM systems;
- Appreciate the evidence-based data pertaining to digital impression and chair side CAD/CAM systems; and
- Describe how CBCT radiographic data can integrate with CAD/CAM systems to enhance dental implant therapy.

David Gratton, DDS, MS, is an Associate Professor, Department of Oral and Maxillofacial Surgery and Director, Division of Maxillofacial Prosthodontics at the University of Iowa, a position he assumed in 2015. Dr. Gratton received his DDS from The University of Michigan in 1994; his Certificate in Prosthodontics in 1996 and his MS in 1997 from The University of Iowa. Before joining the UI College of Dentistry and Dental Clinics faculty in 2002, Dr. Gratton was Assistant Professor, Schulich School of Medicine & Dentistry, University of Western Ontario, Canada. He has achieved Fellow status in the Academy of Prosthodontics and the International Team for Implantology. Dr. Gratton’s scholarly and lecturing activity comprises evolving digital prosthetic technologies and CAD/CAM materials.

Update on Adhesives – Dr. Marcos Vargas – 9:45 – 11:00 AM

Bonding is an essential and indispensable part of any dental practice nowadays. Adhesion to tooth structure allows for minimally invasive restorations that preserve tooth structure while providing esthetics, longevity and function. However, dental practitioners face difficulties to select a good bonding agent and achieving an adequate bonding. This presentation will provide tips and techniques for predictable and sensitivity-free bonded adhesive restorations in daily practice.

Participants should be able to:

- Understand different types of adhesive;
- Obtain adequate tooth preparation for bonding; and
- Utilize adhesives to obtain sensitivity-free restorations.
Marcos Vargas, DDS, MS, is a Professor, Department of Family Dentistry, University of Iowa, College of Dentistry and Dental Clinics. Dr. Vargas joined the College in 1994. He teaches in the predoctoral and postdoctoral curriculum and his research interests are in the area of dental materials, glass ionomers, dentin bonding, composite resins and esthetic dentistry. Dr. Vargas is a member of the American Dental Education Association, the American Dental Association, the Peruvian Dental Association, the Peruvian Society of Prosthodontics, the American Association of Dental Research, the Academy of Operative Dentistry, and the Academy of Dental Materials.

**Pediatric Nutrition – Dr. Teresa Marshall – 11:00 – 12:00 Noon**
This course will discuss how both a proper pediatric diet and eating environment provide adequate nutrients for normal development. She will then discuss our current toxic dietary environment, including implications for oral and system disease.

**Participants should be able to:**
- Discuss normal dietary guidance for children;
- Identify relationships between nutrition and oral health; and
- Provide dietary recommendations for optimal oral and systemic health.

Teresa Marshall, PhD, is a Professor, Department of Preventive and Community Dentistry, University of Iowa, College of Dentistry and Dental Clinics. Dr. Marshall coordinates and teaches the nutrition curriculum and has led a team to design and implement an evidence based dentistry (EBD) curriculum within the University of Iowa’s College of Dentistry. Her primary research interests focus on the relationships among diet, nutrition, oral health and systemic health. Dr. Marshall is a member of the Academy of Nutrition and Dietetics, the American Dental Association (ADA), the International Association for Dental Research and the American Dental Education Association (ADEA). She is a research editor for the Journal of the Academy of Nutrition and Dietetics and a reviewer for multiple nutrition and dental journals.