



**2013 Annual Scientific Meeting**  
September 26<sup>TH</sup> – 28<sup>th</sup>, Vancouver, British Columbia

**“THE ART OF WHAT WE KNOW”**  
**“WORK, PLAY AND LEARN”**

## **Hands On Course**

### **Hands-on Course (LIMITED ATTENDANCE)**



**Presenter:** David Clark, DDS

**Injection Molding Technique for Modern Composite Dentistry**

**Hotel Room - Salon F – Level A**

**CE Credits: 7**

**Peg Lateral Restored with Filtek™ Supreme Ultra Flowable and Universal Composite**

Direct composite restorations are under-promoted and under-appreciated in today's world of implants and computer assisted ceramics. Yet direct composites can be the least invasive, most biomimetic and wonderfully aesthetic of all restorations. The challenge is that we must rely on our own hands to create that magic.

Dr. Clark will present creative solutions to overcome the major clinical impediments to modern resin dentistry. This hands-on course will include the introduction of the “Injection Molding” composite placement technique with the use of the anatomic Bioclear Matrix. At the completion of this course the participants will:

- Restore deep anterior caries
- Restore a peg lateral
- Predict Diastema Closure
- Close black triangles
- Prepare and restore minimally invasive posterior cavity preparations predictably and quickly:  
The Clark Class II
- Achieve a mirror finish and invisible margins in a minute or less.

Dr. David Clark founded the Academy of Microscope Enhanced Dentistry, an International association formed to advance the science and practice of microendodontics, microperiodontics, microprostodontics and microdentistry. He is a course director at the Newport Coast Oral Facial Institute in Newport Beach, California, and is co-director of Precision Aesthetics Northwest in Tacoma Washington. He lectures and gives hands-on seminars internationally on a variety of topics related to microscope-enhanced dentistry. He has developed numerous innovations in the fields of micro dental instrumentation, imaging, and dental operatory design. Dr. Clark is a 1986 alum of the University of Washington School of Dentistry. He maintains a microscope-centered restorative practice in Tacoma and can be reached at [drclark@microscopedentistry.com](mailto:drclark@microscopedentistry.com)

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# Scientific Meeting Speakers

CARDP Vancouver

Friday, September 27<sup>th</sup> Program - 55 min presentations



**Dr. David Clark, Tacoma, Washington**

*Topic - Injection Molded Composite Dentistry: The Dawn of a New Era.*

*8:30 am – 9:30 am*

**Synopsis:**

You are invited to experience a unique approach to modern resin dentistry. Learn how to create magical artistic effects with direct composite restorations particularly under the beautiful view of a clinical microscope. Direct Composite restorations are under-promoted and under-appreciated in today's world of implants and computer assisted ceramics yet direct composites can be the least invasive, most biomimetic, and wonderfully esthetic of all restorations. The challenge is that we must rely on our own hands to make the magic. Dr. Clark will present creative solutions to overcome the major clinical impediments to modern resin dentistry.

**Learning objectives:**

1. Know the optimal mix of flowable and paste composite and the injection molding technique
2. Discern the modern model of crack initiation and propagation
3. Identify and treat early tooth fracturing
4. Combine anatomic matrices, emergence profile, and composite techniques for delivering esthetic dentistry

**Biography:**

Dr. David Clark founded the Academy of Microscope Enhanced Dentistry, an international association formed to advance the science and practice of microendodontics, microperiodontics, microprosthodontics, and microdentistry. He is a course director at the Newport Coast Oral Facial Institute in Newport Beach, CA, and is co-director of Precision Aesthetics Northwest in Tacoma, WA. He lectures and gives hands-on seminars internationally on a variety of topics related to microscope-enhanced dentistry. He has developed numerous innovations in the fields of micro dental instrumentation, imaging, and dental operatory design and authored several landmark articles. Dr. Clark is a 1986 graduate of the University of Washington, School of Dentistry. He maintains a microscope-centered restorative practice in Tacoma, WA.



**Dr. Charles Shuler, Vancouver**

*Topic - What are these drugs our dental patients are taking?*

*9:30am – 10:30 am*

**Synopsis:**

Many dental patients take medications for a medical condition. The numbers and types of medications available have increased dramatically over the years. The drugs prescribed for a patient can provide considerable insight into their systemic conditions and could require a patient management adjustment during dental care. Some of the medications also have side effects that either alter oral conditions or predispose to oral disease. As our patients are

living longer with their teeth, knowledge of the drugs and an understanding of their impact on oral health is a critical component in dental treatment.

The electronic oral health record at the University of British Columbia Faculty of Dentistry listed more than 3500 different entries in the records of medications taken by patients. The drugs can be grouped into categories such as frequency prescribed, the organ system that is targeted, the medical condition being treated, the specific type of medication and the specific considerations during dental treatment.

### **Learning Objectives**

1. Identify the drugs most commonly prescribed for dental patients
2. Link the drugs with the medical conditions for which they were prescribed
3. List the types of side effects associated with medications
4. Determine the appropriate modification to dental care for patients taking these drugs
5. Identify the ways a dentist can obtain information about a medication prescribed for a patient

### **Biography:**

Dr. Shuler is Dean of the Faculty of Dentistry of the University of British Columbia. Prior to being appointed at UBC he was a faculty member at the University of Southern California for 18 years where he served as Director of the Center for Craniofacial Molecular Biology as well as Director of the Graduate Program in Craniofacial Biology. He was Associate Dean for Student and Academic Affairs at the USC School of Dentistry. He received his B.S. from the University of Wisconsin, his D.M.D. from Harvard, his Ph.D. in Pathology from the University of Chicago and his Oral Pathology education at the University of Minnesota and the Royal Dental College in Denmark. He has been active in assessing and managing clinical oral pathology patients with soft and hard tissue lesions. He also maintains a research program funded by the United States National Institute for Dental and Craniofacial Research.



**Dr. Leslie David, Toronto**

***Topic - Questions and Realities in Contemporary Oral Surgery and Implant Care***

***11:00 am - Noon***

### **Synopsis:**

Advances have occurred in oral surgery and implant care over the years which greatly impact clinicians and patients alike. Options with regard to treatment and execution have become more advanced yet less invasive. A potpourri of frequently asked oral surgery questions pertaining to dental extractions, infections, and other basic oral surgery topics will be reviewed. In addition, the concept of immediate loading pertaining to the single tooth as well as the completely edentulous arch will be de-mystified.

### **Learning Objectives:**

1. Review the implant oriented dental extraction technique and basic oral surgery questions pertaining to general practice
2. Understand the indications and contraindications of immediate implants and immediate loading in both the esthetic and posterior zones

3. Review treatment planning and execution regarding immediate implants and immediate loading

**Biography:**

Dr. Lesley David is an oral and maxillofacial surgeon who obtained her dental degree from McGill University and practiced general dentistry for 2 years prior to pursuing Oral and Maxillofacial Surgery. Dr. David graduated from OMFS at the University of Toronto. She is involved in teaching at the University of Toronto and is on staff at the Mt. Sinai, Credit Valley, and Trillium hospitals. She is a Fellow and examiner for the Royal College of Dentists of Canada. Dr. David has been involved in implant research, has various implant related publications, and lectures nationally and internationally on various topics in implant dentistry and oral surgery.

**Dr. Harold Baumgarten, Philadelphia**

*Topic - Dental Implants in the Aesthetic Zone – Achieving and Maintaining Long Term Aesthetic Results*

*1:30 pm – 2:30 pm*

**Synopsis:**

All too often, the aesthetics of an implant supported restoration look good on the day of insert but deteriorates over time. Success in the aesthetic zone requires the clinician to understand the many factors that must come together to achieve and maintain the aesthetic result for the long term. This lecture will discuss issues related to surgical and restorative techniques as well as implant design.

**Learning Objectives:**

1. Learn the 6 factors responsible for the preservation of bone and soft tissue levels around an implant
2. Know why immediate implant placement and immediate restoration can provide superior aesthetic results
3. Understand how digital restorative technologies can provide superior tissue support and aesthetics

**Biography:**

In addition to Advanced Restorative and Aesthetic Dentistry, Dr. Baumgarten's practice includes advanced dental implant procedures. He is a consultant to a global dental implant company, is involved in clinical research and product development and lectures regularly around the world. He is also the author of chapters in dental textbooks, and a number of articles in peer reviewed journals.

In 2010, Dr. Baumgarten was selected as one of "The Best Dentists in America" and "Philadelphia Magazine's Top Dentists 2010" by a vote of his peers, and continues to give his patients the benefit of over 30 years of experience.

**Dr. Christian Coachman, Rio de Janeiro, Brazil**

*Topic - Improving Dentist/Technician Communication for Optimum Smile Design and Ceramic Restorations.*

*2:30 pm – 3:30 pm*

### **Synopsis:**

We need to keep abreast of the latest developments in dentistry and incorporate new techniques and materials into our armamentarium on an ongoing basis. It is also essential that all of the team members participate proactively in the treatment planning process so that consistent interaction among the members of the dental team is required. Technicians should have a basic understanding of clinical procedures and the development of target-oriented communication protocols are essential prerequisites for a smooth workflow and the provision of high-quality service. Crucial treatment steps such as the diagnostic wax-up, the fabrication of the mock-up, shade selection, material selection, prep design, and the fabrication of temporary restorations, etc. can be greatly improved by taking into account the technician's perspective.

### **Learning Objectives:**

1. Plan ceramic restorations to fit the patients' esthetic and emotional needs
2. Improve team communication by utilising simple digital tools
3. Develop a Digital Smile Design and link it to the Esthetic Wax-up, Mock-up and Final Ceramic Restorations

### **Biography:**

Dr. Christian Coachman graduated in Dental Technology in 1995 and in Dentistry at the University of São Paulo/Brazil in 2002. He attended the Ceramic Specialization Program at the Ceramoart Training Centre, where he also became an instructor. In 2004, Dr. Coachman was invited by Team Atlanta to become Head Ceramist of their laboratory, a position he held for over 4 years. He now works with many leading dentists around the world. He is currently the scientific coordinator of an e-learning website and serves as a consultant for dental companies and offices developing products and implementing concepts. He has lectured and published internationally in the fields of esthetic dentistry, dental photography, oral rehabilitation, dental ceramics and implants.



**Dr. David Sweet, Vancouver**

*Topic: How do I kill you? Let me count the ways!*

*4:00 pm – 5:00 pm*

### **Synopsis:**

A biography exists in each human tooth and bone under its armour coating. By examining these tissues, forensic scientists can deduce the events of a person's life and death. The BOLD Forensic Lab at The University of BC uses information gleaned from these examinations to assist in the legal investigation of deaths here in Canada and around the world. This presentation is designed to both inform and entertain you about the forensic sciences. Dr. Sweet will illustrate some of the things that he has experienced working on 1100 cases on six continents.

### **Learning Objectives:**

1. Discover the role of forensic science in national and international systems of justice
2. Realize the complexity of the criminal mind and appreciate the oddity of certain behaviors
3. Appreciate the intensity and rigour with which criminal investigations are conducted

### **Biography:**

With qualifications in dentistry, forensic dentistry and forensic medicine, Dr. Sweet is in a unique position to help police investigators solve the puzzles that are often present at crime scenes. His UBC laboratory has been involved in numerous high-profile criminal cases since its inception in 1996. Dr. Sweet developed new techniques that are now used internationally by investigators. He is a tenured professor at UBC Dentistry and director of North America's only laboratory dedicated to full-time forensic odontology research, teaching and casework. In 2008, Dr. Sweet was invested as an Officer of the Order of Canada for his work as a forensic scientist, researcher, teacher and consultant. He was chief scientist for disaster victim identification at INTERPOL in France from 2005–2011 and a forensic advisor to the International Committee of the Red Cross in Switzerland from 2009–2012.



**Reserve Essayist for Long Program**

**Dr. Ron Zokol, Vancouver**

**Title: Soft Tissue Options to Enhance Esthetic Solutions for Implant-Supported Restorations**

**Synopsis:** Expectations for high quality esthetic and functional implant-supported restorations to achieve that of the healthy natural tooth have continued to evolve.

At every step during the surgical and prosthetic phases, the soft tissue factor needs to be evaluated as it affects the next stage of the restoration process. Technology and procedural options have greatly influenced our expectations for esthetic results.

**Learning Objectives:**

1. Optimize gingival esthetics
2. Review the technological advances that have increased our esthetic expectations
3. List the biologic influences that deteriorate esthetic gingival solutions

**Biography:** Dr. Ron Zokol is the Director of Pacific Implant Institute International, established since 1996 in Vancouver and in Boca Raton, Florida since 2010. Dr. Zokol has been an international lecturer for more than 30 years. He is a member of the Faculty of Dentistry at UBC and sits as a member on its Dean's Advisory Council. Dr. Zokol has maintained a referral practice in advanced surgical and prosthetic rehabilitation in Vancouver.

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# Saturday Speakers



**Dr. Michael Racich, Vancouver**

**Topic: TMD Evaluation and Management in Everyday Practice**

**8:30 am - 8:50 am**

**Synopsis:** Patients go to the dental office for reasons related to appearance, function and comfort. All three areas must be in harmony for overall patient satisfaction. Over the last decade and a half our knowledge in these areas has increased, especially in the field of orofacial pain and temporomandibular disorders (TMD). This evidence-based presentation will overview current concepts in TMD evaluation, diagnosis and management for everyday practice.

## **Learning Objectives:**

1. Evaluate and diagnose TMD
2. Evaluate occlusion and orthotics
3. Include management considerations in one's practice

**Biography:** Dr. Racich, a 1982 graduate of UBC, has a general dental practice emphasizing comprehensive Restorative Dentistry, Prosthodontics and TMD/orofacial pain. Dr. Racich has lectured nationally and internationally on subjects relating to patient comfort, function and appearance. He has published in peer-reviewed scientific journals and has authored books on Oral Rehabilitation, Occlusion and Facially Generated Treatment Planning. Currently he mentors the didactic/clinical FOCUS Dental Education Continuum.



**Dr. Donald Anderson, Burnaby**

**Topic: Success or Failure in Implant Dentistry and How it Affects Your Practice**

**8:50 am - 9:10 am**

**Synopsis:** Success or failure in implant dentistry can affect the bottom line of your practice. Recent research in two areas of implant dentistry (CBCT Guided Surgery and Crestal Sinus Lifts) demonstrate how implant dentistry can become a hobby.

## **Learning Objectives:**

1. View the risks of flapless surgery with the use of CBCT surgical guides and crestal approach sinus lift surgery
2. Maximize the success rate in these two modalities

**Biography:** Dr. Anderson received his BSc (1970) and DMD (1974) from UBC. His practice is limited to implant dentistry and he has trained over 500 dentists from around the world as a Faculty member of the Misch International Implant Institute in Toronto. Dr. Anderson mentors 3 implant study clubs in Vancouver and one in Calgary.



**Dr. Roxana Saldarriaga, Vancouver**

**Topic: The Challenge of Restoring the Anterior Tooth**

**9:10 am - 9:30 am**

**Synopsis:** Research has shown that attractive people with radiant smiles are considered to be more trustworthy and more intelligent and have better success in securing jobs than people with unfavorable smiles. It is no wonder there is

such emotion involved in restoring damaged or failed anterior teeth. In our profession the restoration of a single anterior tooth is considered to be one of the most challenging processes due to the difficulty in replicating the natural state when it is so obviously exposed. This presentation will illustrate some of the problems and solutions for restoring anterior teeth.

### **Learning Objectives:**

1. Identify various problem situations for the anterior lab fabricated restorations
2. Discuss restorative material selections for developing a high esthetic result
3. Establish a communication protocol with the dental technician to achieve an optimum outcome

**Biography:** Dr. Saldarriaga obtained her BA in 1994 and her first dental degree, both in Lima, Peru. In 2005, Dr. Saldarriaga obtained a DDS from the University of Western Ontario. She later entered the three year Prosthodontic program at the University of Minnesota and graduated in 2010. In 2011 she qualified for her Canadian Royal College Certification in Prosthodontics. Dr. Saldarriaga is a Prosthodontic Examiner for the Royal College of Dentists and is in full time private Prosthodontic practice in Vancouver.



**Dr. Ben Pliska, Vancouver**

**Topic: What Every Dentist Should Know About Obstructive Sleep Apnea**  
**9:30 am - 9:50 am**

**Synopsis:** Obstructive sleep apnea (OSA) is a serious and relatively common condition affecting both children and adults. This presentation will provide dentists with the latest evidence from the emerging overlap between dentistry and sleep medicine, providing clinicians with practical information to make better informed decisions in the care of their patients.

### **Learning Objectives:**

1. Identify the health effects and common signs and symptoms of OSA in adult and pediatric populations
2. Describe the effectiveness and complications of oral appliance therapy
3. Describe the interaction between craniofacial morphology and OSA in children

**Biography:** Dr. Pliska is an Assistant Professor at the University of British Columbia Faculty of Dentistry and maintains a private practice in Vancouver as a certified specialist in Orthodontics. He is a graduate of the University of Western Ontario School of Dentistry, and obtained his Certificate in Orthodontics and Master degree in Dentistry from the University of Minnesota. Dr. Pliska is an active researcher, publishing and lecturing in the areas of airway imaging and dental sleep medicine.



**Dr. Kim Kutsch, Albany, Oregon**

**Topic: Dental Caries: Not the Usual Suspects**  
**10:30 am - 10:50 am**

**Synopsis:** Dental caries are not a pathogen specific disease, but rather a pH specific disease. Recent studies have demonstrated that the selection pressure for this disease is an acidic pH in the biofilm. We will review the biofilm scientific literature, the current dental caries disease model, caries risk assessment and diagnosis, demineralization chemistry, protocols for treating patients. Further discussions will include practical implementation of a system based on the risk assessment model into the clinical practice setting to be efficient, effective, and predictable.

### **Learning Objectives:**

1. Describe how the dental caries biofilm disease model has evolved
2. Know the benefits of caries risk assessment in a private practice setting
3. Compare targeted therapeutic strategies

**Biography:** Dr. Kutsch received his undergraduate degree from Westminster College in Utah and then completed his DMD at the University of Oregon in 1979. He is an inventor holding numerous patents in dentistry, as well as a product consultant and internationally recognized speaker. He has published dozens of articles and abstracts on minimally invasive dentistry, caries risk assessment, digital radiography and other technologies in both dental and medical journals and contributed to several textbooks. He acts as a reviewer for several journals. As a clinician he is a graduate and mentor in the Kois Center and maintains a private practice in Albany.



**Dr. Chris Wyatt, Vancouver**

**Topic: Marginal Fit of Ceramic Crowns Using Digital and Conventional Techniques**

**10:50 am - 11:10 am**

**Synopsis:** It is now possible to make an intra-oral digital scan of prepared teeth, then design and mill crowns at the dental laboratory. Conventional methods for the creation of ceramic crowns all involve dimensional error. Elimination of the multiple steps with digital impressions and CAD/CAM dental laboratory processing should theoretically reduce error and improve marginal fit of the final crown. This presentation will show results of an in-vitro research project that can help clinicians decide whether to move to digital technology for crown fabrications.

### **Learning Objectives**

1. Understand the process of intra-oral digital scanning of prepared teeth
2. Understand the process of dental laboratory CAD/CAM to create ceramic crowns
3. Compare conventional and digital fabricated ceramic crown marginal fits

**Biography:** Chris Wyatt, BSc, DMD (1986), Dip. Prosthodontics (1995), MSc (1996), FRCDC(C) is Professor and Chair of the Division of Prosthodontics and Dental Geriatrics at the Faculty of Dentistry at UBC. He is a founding member of the ELDERS group (Elder's Link with Dental Education, Research, and Service), and the director of the UBC Geriatric Dentistry Program. In 2010, Dr. Wyatt was appointed head of the new Graduate Prosthodontics Program at UBC.



**Dr. Allan Burgoyne, Kitchener**

**Topic: Use of Technological Advances to Navigate Through Tight Spots**  
**11:10 am - 11:30 am**

**Synopsis:** This is an introduction to strategies using existing and new technologies and implant macrogeometries to navigate tight spaces with dental implants. Tight spaces are identified as interradicular and buccolingual bone volume as well as vertical restrictions of anatomical constraints. We will review the literature associated with the clinical use of reduced diameter, small diameter and min implants. Cases will be presented showing examples of reduced diameter implants, short implants and CBCT for diagnosis and guided surgery.

## Learning Objectives:

1. Identify current scientific documentation for reduced diameter implant systems
2. Identify available reduced diameter implant systems and indications for their use
3. Determine when CBCT can be of value in tight spaces for diagnosis
4. Determine when guided surgery can be of value in tight spaces

**Biography:** Dr. Burgoyne received his DDS from the University of Western Ontario in 1984 and an MSc and his Certificate in Prosthodontics from the University of Washington in Seattle. Since 1991 he has been in full-time private practice in Kitchener, Ontario. He has lectured extensively on aesthetics, prosthodontics and implant dentistry in Canada and internationally. Dr. Burgoyne is a member of many professional associations and is the author of several scientific papers; he has also given over 150 continuing dental education seminars.



**Dr. Chandur Wadhvani, Bellevue, WA**

**Topic: Residual Excess Cement and Dental Implants - An Inconvenient Truth**  
**11:30 am - 11:50 am**

**Synopsis:** The American Academy of Periodontology now lists residual excess cement as a major factor in peri-implant disease. Why is this the case, when the techniques we use on the natural dentition have been so successful and do not directly relate to periodontal disease? This lecture will explore the differences between the natural dentition and dental implants, and explain why your patients may well suffer from this disease. It will also explain why cement selection is so important especially with patients who have or are actively suffering from periodontal disease are at significantly more risk of getting peri-implant disease.

## Learning Objectives:

1. Discern why implants cannot be treated in the same way as the natural tooth when cementing restorations
2. Appreciate why selecting the wrong type of cement can harm a patient and lead to complications
3. Realize that patients who have periodontal disease have a 50/50 chance of getting peri-implant disease

**Biography:** Dr. Wadhvani received his dental degree from the University College London in 1986. After 13 years of general practice and part-time teaching at UCL, he received his Prosthodontics certificate and Master degree from the University of Washington. He is currently in full time private practice limited to prosthodontics in Bellevue WA. He holds a faculty position at the UW. In his spare time he is a clinical researcher and is involved in research in the Prosthodontics, Periodontics, Endodontics and Microbiology departments. He also mentors graduate students from UCSF, UCLA and UW. He has published many articles and is an international speaker.

## Reserve Presenter for Short Program



**Dr. Dennis Nimchuk, Vancouver**

**Title: A New Paradigm Shift For Creating Occlusal Precision with Dental Porcelain**

**Synopsis:** Porcelain fused to metal restorations has reliably served the dental profession for over half a century providing restorations that are both strong and esthetic. However the PFM systems were never able to achieve the occlusal precision that cast gold provided. Now, contemporary ceramic systems have finally evolved to deliver all three elements of an optimum restoration: strength, esthetics and precision.

**Learning Objectives:**

1. Understand the failings of past ceramic systems
2. Recognize the desirability of occlusal precision

**Biography:** Dr. Nimchuk is a Certified Prosthodontist in Vancouver. He has been a director and mentor to over 20 continuing education Study Groups in the field of Fixed, Removable and Implant Prosthodontics. He is an author and teaching clinician and has given over seven hundred presentations worldwide. He has been an Honorary Sessional Lecturer for the Faculty of Dentistry at the University of British Columbia for over 15 years.

