

Michael J. Racich D.M.D.

## **Curriculum Vitae**

### **I. BIOGRAPHIC INFORMATION**

#### **University Education**

##### **Undergraduate:**

1975 – 1978

University of British Columbia (science)

##### **Dental School:**

1978 – 1982

University of British Columbia

##### **Awards:**

Oral Pathology  
Periodontics

##### **Post-Doctoral:**

2000 –2001

University of Medicine & Dentistry of New Jersey  
- Orofacial Pain Program

1999

University of Kentucky  
- mini residency Orofacial Pain

#### **Board/Diplomate Qualifications**

Diplomate, American Board of Orofacial Pain  
Diplomate, International Congress of Oral Implantologists

#### **Fellowship Qualifications**

Fellow Academy of General Dentistry  
Fellow American Academy of Orofacial Pain  
Fellow American Equilibration Society  
Fellow Canadian Academy of Restorative Dentistry and Prosthodontics

## **Academic Appointments**

### 2017-Present

UBC Pain Medicine Residency Training Program Instructor

### 2015-2018

UBC Faculty of Dentistry  
Clinical Instructor

### 2012-2016

UBC Faculty of Dentistry/BC Dental Association Dental Mentorship Program

### 2002 – 2013

UBC Faculty of Dentistry Residency Program

## **Hospital Appointments**

### 2002 – 2013

St. Paul's Hospital Chronic Pain Program  
Vancouver Coastal Health (Consulting Medical Staff, Department of Dentistry)

## **Honorary Appointments**

Fellow Academy of Dentistry International  
Fellow American College of Dentists

## **Awards**

Award of Merit  
College of Dental Surgeons of British Columbia

## **Practice Activities**

General practice with emphasis on comprehensive restorative dentistry/prosthodontics and orofacial pain/TMD.

## **Professional Organizations**

American Academy of Orofacial Pain

American Equilibration Society

American Headache Society

Canadian Academy of Restorative Dentistry & Prosthodontics

Canadian Pain Society

International Association for the Study of Pain

International Congress of Oral Implantologists

Pacific Coast Society for Prosthodontics

Pain BC

### **Licensure**

Canadian Dental Association

College of Dental Surgeons of British Columbia

British Columbia Dental Association

Royal College of Dental Surgeons of Ontario

American Dental Association National Board Dental Examination (passed 1982)

## **II. ADMINISTRATION AND SERVICE ACTIVITIES**

### **Committee Activities**

#### 2021-present

Discipline Committee

Association of Professional Engineers and Geoscientists of British Columbia

#### 2019 - 2021

Scientific Chair 2021 Meeting

Pacific Coast Society for Prosthodontics

#### 2011-2016; 2017-2018

Chair: Professional Relations Committee

Pacific Coast Society for Prosthodontics

#### 2010 - 2014

Essay Committee Co-Chair 2014 Meeting

American Equilibration Society

#### 2009-2012

Chair: Audio Visual Committee

Pacific Coast Society for Prosthodontics

2007-2010

Auction Committee  
Pacific Coast Society for Prosthodontics

2007-present

Inquiry Committee  
College of Dental Surgeons of British Columbia

2005 - present

Guidelines Committee  
American Equilibration Society

2005 - 2008

Essay Committee Co-Chair 2008 Meeting  
American Equilibration Society

2004- 2005

Chair: Admissions Committee  
Canadian Academy of Restorative Dentistry & Prosthodontics

2002- 2005

Admissions Committee  
Canadian Academy of Restorative Dentistry & Prosthodontics

2003

Essay Committee 2003 Meeting  
Canadian Academy of Restorative Dentistry & Prosthodontics

2002

Organizational Committee 2002 Meeting  
Canadian Academy of Restorative Dentistry & Prosthodontics

1986 – 1989

Long Term Care Committee  
Vancouver and District Dental Society

**Activities in Professional Organizations**

2022-present

President  
Pacific Coast Society for Prosthodontics

2016 - 2017

President  
American Equilibration Society (AES)

2015-present

Executive Council Member  
Pacific Coast Society for Prosthodontics

2015-2019

Reviewer for Therapeutics and Clinical Risk Management

2015-present

Reviewer for Journal of the American Dental Association

2014-present

Reviewer for Journal of Prosthetic Dentistry

2013-2019

Reviewer for Clinical, Cosmetic and Investigational Dentistry

2008-2020

Executive Council Member  
American Equilibration Society

2007-2008

President  
Canadian Academy of Restorative Dentistry & Prosthodontics

2006-2010

Reviewer for The Angle Orthodontist

2005-2013

Reviewer for the Journal of the Canadian Dental Association

2004- 2014

Auxiliary resource for Academy of General Dentistry Fellowship exam

2003- 2011

Organizer for C.O.A.S.T. (Collaboration Of Affiliated Study club Tutorials)

2001- 2014

Reviewer for General Dentistry (Journal of the Academy of General Dentistry)

2000- 2003

Secretary/ President for Integrated Implant Study Club

1997 – 2000

Secretary for Vancouver Gold & Porcelain Study Club

1996 – 2000

Secretary for Vancouver Periodontal & Restorative Study Club

1994 – 2001

NGA organizer and participant  
Occlusion & Comprehensive Restorative Dentistry Program

1988 – 1989

Secretary for T.E.S.T. Study Club

1982 –1990

Supervisor Emergency Dental Clinics (Dental Students)  
Reach Clinic & Gordon House  
Vancouver, BC

### **Activities in Personal Development Organizations**

2006 - 2007

President  
Cloverleaf Toastmasters

2000 - present

Cloverleaf Toastmasters  
Toastmasters International  
Achievement: ATM-B

## **III. TEACHING ACTIVITIES**

### **Lectures/Workshops/Table Clinics/Personalized Coaching/Mentoring**

#### **Study Club Mentor F.O.C.U.S. Didactic and Clinical Study Clubs**

F.O.C.U.S. (Fundamentals OF Creating a Uniform Stomatognathic System)

1999 – present

F.O.C.U.S. Vancouver  
Vancouver, BC

2009 – present

F.O.C.U.S. Abbotsford  
Abbotsford, BC

2010 – 2014

F.O.C.U.S. High Country  
Kamloops, BC

2012 – present

F.O.C.U.S. Greater Vancouver  
Surrey, BC

2012 – present

F.O.C.U.S. WestCoast  
Vancouver, BC

2013 – 2014

F.O.C.U.S. Virtual (online)  
Vancouver, BC

2014 – present

F.O.C.U.S. 6  
Richmond, BC

2015 – 2018

F.O.C.U.S. 3A  
Aldergrove, BC

2018 – 2019

F.O.C.U.S. Richmond  
Richmond, BC

2019 – present

F.O.C.U.S. Ultimate  
Coquitlam, BC

Didactic/Clinical Topics: Anatomy, Dental Materials, Fixed/Removable Prosthodontics, Occlusion, Operative Dentistry, Orofacial Pain/TMD, Orthotics, Practice Management, Restorative Dentistry, Surgery (implants/periodontal).

**Seminars**2008-present

Proprietary Program  
“I Can, You Can Occlusion Program”  
Western Canada

**Coaching**2010-present

Topics: Anatomy, Dental Materials, Fixed/Removable Prosthodontics, Occlusion, Operative Dentistry, Orofacial Pain/TMD, Orthotics, Practice Management, Restorative Dentistry, Surgery (implants/periodontal).

**2<sup>nd</sup> Opinions Only**2010-present

Patient, professional, medico-legal

**Table Clinics**2013

Canadian Academy of Restorative Dentistry and Prosthodontics  
 “A Logical Approach to Occlusal Equilibration”  
 Vancouver, BC  
 Sept.28, 2013

2011

Academy of Operative Dentistry  
 “A Logical Approach to Occlusal Equilibration”  
 Chicago, Ill.  
 Feb.25, 2011

2007

American Prosthodontic Society  
 “Simplified Protocol for Teeth In A Day: A Case Report”  
 Chicago, Ill.  
 Feb.23, 2007

2006

Canadian Academy of Restorative Dentistry and Prosthodontics  
 “Simplified Protocol for Teeth in a Day”  
 Halifax, NS  
 Sept.30, 2006

2005

Canadian Academy of Restorative Dentistry and Prosthodontics  
 “Non-Sleep Apnea Orthotics: Practically Speaking”  
 Quebec City, PQ  
 Sept.17, 2005

International Academy of Gnathology  
 “Attachment Suggestions for Removable Implant Prosthetics”  
 Victoria, BC.  
 Sept.15, 2005

2004

Canadian Academy of Restorative Dentistry and Prosthodontics  
“Attachment Suggestions for Removable Implant Prosthetics”  
Banff, Alta.  
Oct.16, 2004

2002

American Academy of Fixed Prosthodontics  
“Attachments for Fixed Prosthodontics”  
Chicago, Ill.  
Feb.1, 2002

2001

Canadian Academy of Restorative Dentistry and Prosthodontics  
“Attachments for Implant Prosthodontics”  
Montreal, P.Q.  
Oct. 20, 2001

2000

Pacific Dental Conference  
“Attachments for Fixed Prosthodontics”  
Vancouver, BC  
Mar.10, 2000

Canadian Academy of Restorative Dentistry and Prosthodontics  
“Attachments for Fixed-Removable Prosthodontics”  
Halifax, N.S.  
Oct.16, 2000

1999

Canadian Academy of Restorative Dentistry and Prosthodontics  
“Attachments for Fixed Prosthodontics”  
Edmonton, A.B.  
Sept.25, 1999

American Prosthodontic Society  
“Attachments for Fixed Prosthodontics”  
Chicago, Ill.  
Feb.19, 1999

1998

Canadian Academy of Restorative Dentistry and Prosthodontics  
“Semi-adjustable Articulators”  
Winnipeg, MA.  
Sept.12, 1998

**Lectures**

2022

Pennsylvania Academy General Dentistry  
“Dental Occlusion 2022”  
Online  
May 17, 2022

Rutgers University  
“What To Do When A Patient Complains: Part II”  
Online  
April 12, 2022

CARE Study Club  
“Occlusion: An Update for the Pediatric & Orthodontic Dental Team”  
Vancouver, BC  
March 2, 2022

North Shore Dental Hygiene Study Club  
“Occlusion: An Update for Dental Hygienists”  
Online  
January 18, 2022

2021

Rutgers University  
“TMD from the Occlusal Point of View”  
Online  
October 15, 2021

Trinidad and Tobago Dental Association  
“Orofacial Pain/TMD Fundamentals for Everyday Practice: Part II”  
Online  
June 14, 2021

Trinidad and Tobago Dental Association  
“Orofacial Pain/TMD Fundamentals for Everyday Practice: Part I”  
Online  
May 17, 2021

Rutgers University  
“What To Do When A Patient Complains”  
Online  
February 19, 2021

2020

University of British Columbia  
 “The Basic Rules of Occlusion”

Online

November 7, 2020

Rutgers University

“Occlusion, TMD, Orofacial Pain: Inter- & Multidisciplinary Considerations”

Online

October 9, 2020

American Academy of Orofacial Pain

“Dental Occlusion: When Does It Matter? What does the Evidence Tell Us?”

Online

August, 2020

Maulana Azad Institute of Dental Sciences

“A Few Basics on Dental Occlusion”

New Delhi, India

March 7, 2020

St. Paul’s Hospital Pain Centre

“Orofacial Pain/TMD: A Brief Overview”

Vancouver, BC

February 26, 2020

Dental Imports Guyana

“Contemporary Restorative Dental Prosthodontic Care”

Georgetown, Guyana

February 5, 2020

Trinidad and Tobago Dental Association

“Occlusion, TMD, Orofacial Pain Basics”

Port-Of-Spain, Trinidad

February 2, 2020

Trinidad and Tobago Dental Association

“Occlusion Basics”

Port-Of-Spain, Trinidad

February 1, 2020

Rutgers University

“Occlusion, TMD, Orofacial Pain: Inter- & Multidisciplinary Considerations”

Newark, NJ

Jan. 17, 2020

Canadian Dental Student Conference  
 “Trends in Restorative & Cosmetic Dentistry: Basic Rules for Recent Dental Graduates”  
 Vancouver, BC  
 January 11, 2020

2019

Pacific Coast Society for Prosthodontics  
 “Occlusion, TMD, Orofacial Pain: Relationships Distilled”  
 Napa, CA  
 June 21, 2019

Renaissance Dental  
 “Some Basic Rules for Dental Veneers”  
 Vancouver, BC  
 April 16, 2019

University of British Columbia  
 “The Basic Rules of Occlusion: A Didactic Clinical Program”  
 Vancouver, BC  
 April 12-13, 2019

Pacific Dental Conference  
 “The Basic Rules of Effective Dental Material Usage”  
 Vancouver, BC  
 March 9, 2019

2018

Certified Dental Assistants of BC  
 “Orofacial Pain/TMD: Basic Concepts for Everyday Practice”  
 Richmond, BC  
 November 9, 2018

UBC Faculty of Medicine  
 “Clinical Reasoning and Critical Thinking”  
 Vancouver, BC  
 October 20, 2018

Thompson Okanogan Dental Society (TODS)  
 “A Contemporary Approach to Restorative Dental/Prosthodontic Care”  
 Kelowna, BC  
 October 19, 2018

Awon Academy 2018 Restorative Meeting  
 “Evidence-based Occlusion for Restorative Dentistry & Prosthodontics”  
 Seoul, S. Korea  
 September 2, 2018

Pacific Coast Society for Prosthodontics (Reserve Essayist)  
“Occlusion, TMD, Orofacial Pain: Prosthodontic Considerations”  
Carlsbad, CA  
June 30, 2018

Loma Linda University  
“Occlusion, TMD, Orofacial Pain: Prosthodontic Considerations”  
Loma Linda, CA  
June 26, 2018

University of British Columbia  
“The Basic Rules of Occlusion”  
Vancouver, BC  
May 5, 2018

American Academy of Orofacial Pain  
“Occlusion, TMD, Orofacial Pain: Inter & Multidisciplinary Considerations”  
Chicago, IL  
April 27, 2018

2017

International Quintessence Congress  
“Dental Occlusion Evaluation: 10 Essential Steps”  
Warsaw, Poland  
October 14, 2017

International Quintessence Congress  
“What are 3 Key Elements of the TMD Patient Interview?”  
Warsaw, Poland  
October 14, 2017

Poland Study Club  
“Occlusion & TMD: Evaluation & Treatment Considerations”  
Czestochowa, Poland  
October 11-12, 2017

Public Guardian and Trustee of British Columbia  
“The Basic Rules of Being A Dental Patient”  
Vancouver, BC  
September 20, 2017

Spectrum Techno-Clinical  
“Dental Laboratory/Practitioner ‘Articulation’”  
Vancouver, BC  
September 9, 2017

Webinar (Bite FX)  
 “Implant Maintenance: Fixtures to Occlusion”  
 March 28, 2017

American Academy of Orofacial Pain  
 “TMJs, TMD, Orthotics, Occlusion: Tx Considerations & Recommendations”  
 Chicago, IL  
 February 25, 2017

Rutgers University  
 “Occlusion, TMD, Orofacial Pain: Inter- & Multidisciplinary Considerations”  
 Newark, NJ  
 Jan. 25, 2017

## 2016

Willowbrook Dental Specialists  
 “An Evidence-based Overview of Orofacial Pain, TMD, Occlusion”  
 Langley, BC  
 Nov. 23, 2016

Tri-Cities CDA Society  
 “A Contemporary Approach to Restorative Dental Care”  
 Coquitlam, BC  
 November 10, 2016

Spear Study Club Poland  
 “Overview: Occlusion for Implant Dentistry”  
 Vancouver, BC; Warsaw, Poland (Online)  
 October 3, 2016

Spectrum Techno-Clinical  
 “Implants: Fixture to Occlusion”  
 Richmond, BC  
 September 17, 2016

International Quintessence Congress  
 “Occlusion for Everyday Dentistry”  
 Krakow, Poland  
 April 23, 2016

International Quintessence Congress  
 “TMD and Occlusion: Contemporary Controversies and Treatment Recommendations”  
 Krakow, Poland  
 April 23, 2016

Capilano Dental Hygiene Study Club  
 “Implant Maintenance: Fixture to Occlusion”  
 North Vancouver, BC  
 February 18, 2016

University of British Columbia  
 “Contemporary Comprehensive Oral Care”  
 Mauna Lani, HI  
 February 4-5, 2016

## 2015

Coquitlam Periodontal Study Club  
 “A Contemporary Approach to Restorative Dental Care”  
 Coquitlam, BC  
 November 4, 2015

Canadian Academy of Restorative Dentistry and Prosthodontics  
 “Dental Occlusion: A Contemporary Overview”  
 Toronto, Ont  
 Oct. 3, 2015

Spectrum Techno-Clinical  
 “Occlusion & The Dental Technician”  
 Vancouver, BC  
 September 19, 2015

Camlog Implant Systems  
 “Implants 10n1”  
 Toronto, Ont  
 June 19-20, 2015

Pro-Art Dental Laboratories  
 “Functional Occlusion for the General Practitioner: Part I”  
 Toronto, Ont  
 June 12-13, 2015

Camlog Implant Systems  
 “Introduction to Implants”  
 New Westminster, BC  
 May 24-25, 2015

University of British Columbia  
 “Orofacial Pain/TMD for the Prosthodontist 2015”  
 Vancouver, BC  
 April 15, 2015

Aesthetic Design & Implant Academy  
“Dental Implantology: Practical Clinical Considerations”  
Toronto, Ont  
March 26, 2015

Trial Lawyers Association of BC  
“Whiplash Injury & TMD: Medico-Legal & Basic Care Considerations”  
Waikoloa, HI  
January 30, 2015

2014

Sunshine Coast Dental Group  
“Occlusion and Those ‘Ankylosed’ Teeth”  
Sechelt, BC  
November 5, 2014

Camlog Implant Systems  
“Introduction to Implants”  
New Westminster, BC  
November 2-3, 2014

Capilano Dental Hygiene Study Club  
“A Contemporary Approach to Restorative Dental Care”  
North Vancouver, BC  
October 30, 2014

Webinar (Bite FX)  
“Getting The Most Out of The Basic Rules of Occlusion Book”  
September 23, 2014

West Indies Dental Society  
“Contemporary Dental Basics: Preparations, Provisionals, Articulators, Orthotics,  
Impressions (Hands-on Program)”  
Port-Of-Spain, Trinidad  
June 14, 2014

West Indies Dental Society  
“Contemporary Dental Basics: Preparations, Provisionals, Articulators, Orthotics,  
Impressions (Didactic)”  
Port-Of-Spain, Trinidad  
June 13, 2014

ITI Study Club  
“Dental Implantology: Practical Clinical Considerations”  
Mexico City, Mexico  
May 21, 2014

Universidad Autonoma de San Luis Potosi  
 “Practical Approach to Dental Articulator Usage (Hands-on Program)”  
 San Luis Potosi, Mexico  
 May 20, 2014

Universidad Autonoma de San Luis Potosi  
 “Orofacial Pain, Facially Generated Treatment Planning, Articulator Usage”  
 San Luis Potosi, Mexico  
 May 19, 2014

Universidad Nacional Autonoma de Mexico  
 “Facially Generated Treatment Planning & The Triad Algorithm”  
 Mexico City, Mexico  
 May 16, 2014

Yukon Dental Society  
 “Dental Implants: Practice Management, Restorative, Prosthodontic & Surgical  
 Considerations”  
 Whitehorse, YK  
 May 10, 2014

American Academy of Orofacial Pain  
 “Occlusion, TMD, Orofacial Pain: Interdisciplinary Considerations”  
 Las Vegas, NV  
 May 2, 2014

University of British Columbia  
 “Orofacial Pain/TMD Update for the Prosthodontist”  
 Vancouver, BC  
 April 15, 2014

Pacific Dental Conference: British Columbia Dental Technicians Association  
 “Effective Dental Material Usage 2014”  
 Vancouver, BC  
 March 8, 2014

## 2013

Laguna Gnathological Research and Study Group  
 “Occlusal Considerations in Everyday Dentistry”  
 Laguna Hills, CA  
 Nov. 9, 2013

Congreso Internacional Colegio Dental Potosino  
 “Orofacial Pain & Occlusion: Is There a Link?”  
 San Luis Potosi, Mexico  
 Oct. 5, 2013

Universidad Nacional Autonoma de Mexico  
“Occlusion: Basics for Oral Implantology”  
Mexico City, Mexico  
Oct. 3, 2013

Canadian Academy of Restorative Dentistry and Prosthodontics  
“TMD Evaluation & Management in Everyday Dentistry”  
Vancouver, BC  
Sept.28, 2013

Webinar (Bite FX)  
“The Triad Algorithm: A Predictable, Practical Approach to Sequencing Patient Care”  
September 24, 2013

BC AGD  
“Dental Orthotic Usage in Everyday Dentistry Part 2 (clinical)  
North Vancouver, BC  
September 20, 2013

BC AGD  
“Dental Orthotic Usage in Everyday Dentistry Part 1 (didactic)  
North Vancouver, BC  
September 19, 2013

Webinar (Bite FX)  
“Interview: The Basic Rules of ...”  
July 23, 1013

Pacific Coast Society for Prosthodontics  
“Occlusal Considerations 2013”  
Anchorage, AK  
June 28, 2013

Matrix Bi-Annual meeting  
“Implantology & Bone Regeneration: Restorative Dentistry/Prosthodontic Considerations”  
Caesarea, Israel  
May 31, 2013

Titu Maiorescu University  
“Predictable Practical Approach to Sequential Patient Care: The Triad Algorithm”  
Bucharest, Romania  
May 22, 2013

University of British Columbia  
“Orofacial Pain/TMD Update for the Prosthodontist”  
Vancouver, BC  
May 7, 2013

Aesthetic Design & Implant Academy  
“Esthetic Physiologic Complete Dentures”  
Toronto, Ont  
April 19, 2013

Webinar (Dentsply)  
Dental Laboratory/Practitioner “Articulation”  
April 10, 2013  
10<sup>th</sup> Avenue Study Club

“A Contemporary Approach to Restorative Dental Care”  
Vancouver, BC  
April 3, 2013

Spectrum Pacific Techno-Clinical  
Contemporary “Removable” Prosthodontics  
Vancouver, BC  
March 9, 2013

Spectrum Techno-Clinical  
“Removable” Prosthodontics in Everyday Dentistry  
Chicago, Ill  
February 22, 2013

Dentalmens Study Club  
“Predictable, Practical Approach to Sequencing Patient Care: The Triad Algorithm”  
Burnaby, BC  
Feb. 2, 2013

2012

Yukon Dental Society  
“Affordable Predictable Tooth Coloured Dentistry”  
Whitehorse, YK  
Dec. 8, 2012

Fraser Valley and District Dental Society  
“Occlusal Considerations in Everyday Dentistry”  
Langley, BC  
Dec. 7, 2012

Aesthetic Design & Implant Academy  
 “Practical Usage of Tooth Coloured Restorative & Prosthodontic Materials &  
 Techniques in Everyday Practice”  
 Toronto, Ont  
 Nov. 30, 2012

West Indies Dental Society  
 “Occlusion in Daily Practice”  
 Port-Of-Spain, Trinidad  
 Nov.10-11, 2012

University of British Columbia  
 “The Basic Rules of Oral Rehabilitation”  
 Vancouver, BC  
 Oct. 27, 2012

British Columbia Dental Technicians Association  
 “Dental Laboratory/Practitioner “Articulation”  
 Richmond, BC  
 September 29, 2012

C.O.A.ST. meeting  
 “It Isn’t Over Until ...”  
 Suncadia, WA  
 July 14-15, 2012

Pacific Coast Society for Prosthodontics (Reserve Essayist)  
 “Occlusal Considerations 2012”  
 Victoria, BC  
 June 20-23, 2012

University of British Columbia  
 “Orofacial Pain/TMD Basics for the Prosthodontist”  
 Vancouver, BC  
 Apr. 10, 2012

Spectrum Pacific Techno-Clinical  
 “Occlusion in Everyday Practice”  
 Vancouver, BC  
 March 10, 2012

## 2011

Langley Interdisciplinary Seminar  
 “A Contemporary Approach to Restorative Dental Care”  
 Langley, BC  
 Nov. 16, 2011

Renaissance Laboratories  
 “The Triad Algorithm”  
 Vancouver, BC  
 Oct. 26, 2011

WestCoast Dental  
 “A Brief Look at Oral Rehabilitation”  
 Coquitlam, BC  
 Oct. 16, 2011

Implantology Seminar  
 “Occlusion and Those ‘Ankylosed’ Teeth”  
 Richmond, BC  
 April 12, 2011

West 10<sup>th</sup> Avenue Study Club  
 “TMD”  
 Vancouver, BC  
 April 6, 2011

Vancouver Central Certified Dental Assistants Society  
 “Success with Direct Tooth Coloured Restorations”  
 Vancouver, BC  
 March 21, 2011

## 2010

Toronto Implant and Aesthetic Study Club  
 “Occlusal Considerations for Everyday Dentistry”  
 Toronto, Ont  
 December 3, 2010

EPIC Complete Denture Procedures  
 “Module IV: Implant Procedures”  
 Toronto, Ont  
 November 27, 2010

Biodenix Implantology Forum  
 “Implants and Those ‘Ankylosed’ Teeth”  
 Vancouver, BC  
 July 23, 2010

C.O.A.ST. meeting  
 “FOCUS study club”  
 Sunriver, Ore  
 July 17, 2010

Biodenix Study Club  
 “Implants, Bone Loss & Occlusion?”  
 Richmond, BC  
 June 1, 2010

Jasper Dental Congress  
 “Direct Tooth Coloured Restorations”  
 Jasper, Alta  
 May 27, 2010

EPIC Complete Denture Procedures  
 “Module IV: Implant Procedures”  
 Vancouver, BC  
 April 24, 2010

Spectrum Techno-Clinical  
 “Occlusal Considerations for Everyday Dentistry”  
 Vancouver, BC  
 April 17, 2010

St. Paul’s Hospital Rounds  
 “Clinical Management of TMD in Everyday Practice”  
 Vancouver, BC  
 March 31, 2010

Fraser Valley Cast Gold study club  
 “The Triad Algorithm”  
 Vancouver, BC  
 Mar. 2, 2010

University of British Columbia  
 “Occlusal Considerations for Everyday Dentistry”  
 Vancouver, BC  
 Jan. 23, 2010

## 2009

Vancouver and District Dental Society  
 “The Triad Algorithm”  
 Vancouver, BC  
 Dec. 11, 2009

Canadian Chinese Dental Society  
 “Evidenced-Based Dentistry: Today’s Standard of Care”  
 Richmond, BC  
 Sept. 21, 2009

University of Manitoba  
 “Implants: Fundamental Considerations for Predictability”  
 Winnipeg, Man  
 Sept. 12, 2009

Fraser Valley Hygiene Study Club  
 “Triad Algorithm”  
 Abbotsford, BC  
 May 11, 2009

Dentsply/ Schein  
 “The 123s of Dentistry: A Simplified Sequential Approach to Esthetic Restorative/  
 Prosthodontic Care”  
 Nanaimo, BC  
 May 2, 2009

3M/ Uninature Laboratories  
 “Practical Zirconia Usage in 2009”  
 Vancouver, BC  
 Mar.28, 2009

American Academy of Orofacial Pain  
 “Orthotic Fabrication for TMD Patients”  
 Austin, Tx  
 Mar.6, 2009

Spectrum Dialogue Techno-Clinical  
 “Triad Algorithm”  
 Chicago, Il  
 Feb. 27, 2009

American Equilibration Society  
 “TMD Evaluation & Management in Everyday Practice”  
 Chicago, Ill.  
 Feb. 26, 2009

Biodenix Implantology Forum  
 “Considerations for Success with Implants”  
 Vancouver, BC  
 Feb. 6-7, 2009

## 2008

Fine Arts Dental Laboratories/ 3M Canada  
 “Implants: Considerations for Success”  
 Vancouver, BC  
 Oct. 3, 2008

University of Western Ontario  
 “A Simplified, Sequential Approach to Esthetic Restorative Prosthodontic Care: The  
 1,2,3’s of Dentistry”  
 Woodstock, Ont.  
 Sept. 19, 2008

Canadian Pain Society  
 “Clinical Management of TMD in Everyday Practice”  
 Victoria, BC  
 May 28, 2008

American Academy of Orofacial Pain  
 “Orthotics and TMD”  
 Los Angeles, CA  
 Apr.12, 2008

## 2007

University of Western Ontario  
 “Practical Usage of Tooth Coloured Restorative & Prosthodontic Materials &  
 Techniques in Everyday Practice”  
 Hamilton, Ont.  
 Oct. 12, 2007

Pacific Coast Society for Prosthodontics  
 “Avoiding Sleepless Nights: Part I”  
 San Francisco, CA  
 June 28-30, 2007

American Academy of Orofacial Pain  
 “Use of Non Sleep Apnea Orthotics Reviewed”  
 Philadelphia, PA  
 Apr.28, 2007

American Academy of Orofacial Pain  
 “Bilaterally Displaced TMJ Discs Following Anterior Partial Coverage Orthotic  
 Usage: A Case Report”  
 Philadelphia, PA  
 Apr.28, 2007

Canadian Academy for Esthetic Dentistry  
 “An Evidence-Based Comparative Look at Esthetic Inlay/ Onlay Restorative Options”  
 Vancouver, BC  
 Mar. 10, 2007

Pacific Dental Conference  
 “A Simplified, Sequential Approach to Esthetic Restorative/ Prosthodontic Care”  
 Vancouver, BC  
 Mar. 9, 2007

Trinidad and Tobago Dental Society  
 “An Economical and Predictable Approach to Anterior Fixed Restorative Procedures”  
 Port-Of-Spain, Trinidad  
 Jan.19, 2007

## 2006

C.O.A.ST. meeting  
 “Focusing”  
 Seattle, WA  
 July 21-22, 2006

Pacific Coast Society for Prosthodontics (Reserve Essayist)  
 “The 1,2,3’s of Dentistry: A Systematic, Simplified Approach to Oral  
 Rehabilitation”  
 Portland, Ore  
 June 21-24, 2006

Yukon Dental Society  
 “The Practical Use of Articulators in Everyday Dentistry”  
 Whitehorse, YK  
 May 6, 2006

American Academy of Orofacial Pain  
 “Clinical Examination for the Orofacial Pain/ TMD Patient”  
 Las Vegas, NV.  
 Apr.29, 2006

Integrated Implant Study Club  
 Clinical Diagnosis and Management of TMD  
 West Vancouver, BC  
 Apr. 20, 2006

Ohio State University  
 “TMD Basics for the Prosthodontist”  
 Columbus, OH  
 Feb. 20, 2006

2005

West Indies Dental Society

“Effective & Predictable Usage of Tooth Coloured Restorative & Prosthodontic Materials & Techniques in Daily Practice”

Port-Of-Spain, Trinidad

Dec. 17, 2005

Yukon Dental Society

“Considerations for Fixed Prosthodontics”

Whitehorse, YK

Nov. 5, 2005

Fraser Valley Hygiene Study Club

“Occlusion in Daily Practice”

Abbotsford, BC

Oct.17, 2005

International Academy of Gnathology

“Orofacial Pain and Occlusion: Is There Link?”

Victoria, BC.

Sept 15, 2005

Yukon Dental Society

“Using Current Tooth Coloured Restorative/Prosthodontic Materials in Everyday Practice”

Whitehorse, YK

June 4, 2005

American Academy of Orofacial Pain

“A Practical Approach for the Use of Dental Orthotics”

Phoenix, AR.

Apr. 15, 2005

Pacific Dental Conference

“Orofacial Pain and TMD: Essential Concepts that ALL Practitioners Should Know”

Vancouver, BC

Mar. 10 & 11, 2005

University of British Columbia Continuing Dental Education

“Tooth Coloured Restorative and Prosthodontic Materials and Techniques: Achieving Consistency and Predictability”

Vancouver, BC

Feb.12, 2005

Greater Vancouver Dental Hygiene Seminars  
 “Comprehensive Restorative/ Prosthodontic Care and TMD”  
 New Westminster, BC  
 Jan.14, 2005

2004

Vancouver and District Dental Society  
 “TMD & Me: What’s the Dental Practitioner Supposed to Do?”  
 Vancouver, BC  
 Dec. 10, 2004

Aurum/ Ceramic Dental Laboratoires  
 “Removable Prosthodontics and Appliances: Conventional Approaches and the  
 Eclipse System”  
 Vancouver, BC  
 Oct. 21, 2004

Canadian Academy of Restorative Dentistry and Prosthodontics  
 “Attachment Suggestions for Removable Implant Prosthetics”  
 Banff, Alta.  
 Oct.16, 2004

C.O.A.ST. meeting  
 “Overview of Comprehensive Oral Care”  
 Ashland, Ore  
 July 16-17, 2004

Pacific Coast Society for Prosthodontics  
 “Articulators: Rationale for Selection”  
 Monterey, CA  
 June 11, 2004

Fraser Valley Implant Study Club  
 “Occlusal Considerations for Implant Prosthodontics”  
 Abbotsford, BC  
 April 27, 2004

16<sup>th</sup> Annual Orofacial Pain Alumni Symposium  
 “Managing Orofacial Pain in the Dental Practice”  
 Lexington, KY  
 April 23, 2004

Fraser Valley Hygiene Study Club  
 “Putting It All Together”  
 Abbotsford, BC  
 April 19, 2004

American Academy of Orofacial Pain  
 “A Practical Approach for the Use of Dental Orthotics”  
 San Francisco, CA.  
 Mar. 27, 2004

Vancouver Pain Network  
 “A Brief Introduction to Orofacial Pain and Multidisciplinary Care”  
 Vancouver, BC  
 Feb.12, 2004

Southern Oregon Study Club  
 “An Introduction to Orofacial Pain for the Gnathologically Based Practice”  
 Albany, Ore.  
 Feb. 6, 2004

### 2003

Vancouver and District Dental Society  
 “A Practical Approach for the Use of Dental Orthotics”  
 Vancouver, BC  
 Dec.12, 2003

Dentsply Canada  
 “Predictability with Today’s Tooth Coloured Restorative Materials”  
 Painter’s Lodge, BC  
 Sept 13-14, 2003

C.O.A.ST. meeting  
 “FOCUS study club”  
 Vancouver, BC  
 July 18-19, 2003

Proprietary Program  
 “Eclipse Denture Technique”  
 Vancouver, BC  
 June 17, 2003

Fine Arts Dental Laboratory  
 “Dental Orthotics Simplified”  
 Vancouver, BC  
 May 22, 2003

Vancouver Public Library Staff Information Day  
 “Migraine: A Dental Perspective”  
 Vancouver, BC  
 May 15, 2003

University of British Columbia Continuing Dental Education  
 “Orofacial Pain: Some Basics”  
 Vancouver, BC  
 Mar. 20, 2003

Pacific Dental Conference  
 “1,2,3’s of Dentistry”  
 Vancouver, BC  
 Mar. 8, 2003

Southern Oregon Study Club  
 “Attachments and Their Use in Dentistry”  
 Corvallis, Ore.  
 Feb. 7, 2003

## 2002

Northwest Dental Society  
 “Pain Management Considerations”  
 Terrace, BC  
 Nov. 2002

Fine Arts Dental Laboratory  
 “Overview of Oral Rehabilitation”  
 West Vancouver, BC  
 Nov. 2002

Fraser Valley Dental Hygiene Seminars  
 “Evaluation and Management of the TMD Patient”  
 Abbotsford, BC  
 Nov. 2002

Canadian Academy of Restorative Dentistry and Prosthodontics  
 “Articulators in the Twenty First Century – Rational for Selection”  
 Vancouver, BC  
 Oct. 2002

Fraser Valley Dental Hygiene Seminars  
 “TMJ?”  
 Abbotsford, BC  
 June 2002

Pacific Coast Society for Prosthodontics  
 “Orofacial Pain and Occlusion: Is There a Link?”  
 Tucson, AZ.  
 June 2002

St. Paul's Hospital Information Session  
"Chronic Orofacial Pain and Dentistry: What is the Association?"  
Vancouver, BC  
Feb. 2002

Richmond Study Club  
"Centric Relation"  
Richmond, BC  
Jan. 2002

## 2001

Proprietary Program  
"Comparison of 13 Articulator Systems"  
Vancouver, BC  
Nov. 2001

Integrated Implant Study Club  
"Implants and Attachments"  
Vancouver, BC  
Nov. 2001

Vienna Study Club  
"Implants and Occlusion"  
Vienna, Austria  
May 2001

Pacific Dental Conference  
"12 Types of Toothaches: An Introduction to Orofacial Pain for the General  
Practitioner"  
Vancouver, BC  
Mar. 2001

## 2000

Proprietary Program  
"Comparison of 10 Articulator Systems"  
Vancouver, BC  
Oct. 2000

Integrated Implant Study Club  
"Implants and Occlusion"  
Vancouver, BC  
Sept. 2000

1999

Vancouver Dental Hygiene Seminars  
 “TMD”  
 Pitt Meadows, BC  
 Nov. 1999

Vancouver Island Study Club  
 “Stomatognathic System”  
 Nanaimo, BC  
 Sept. 1999

**Online (Audiobook/Podcasts/Webinars)**

Dentistry Distilled. 2008. [www.dentalvideo.tv](http://www.dentalvideo.tv)

Triad Algorithm. 2009. [www.dentalvideo.tv](http://www.dentalvideo.tv)

The 1,2,3's of Dentistry: A Simplified Sequential Approach to Esthetic Restorative Prosthodontic Care. 2010. [www.dentalvideo.tv](http://www.dentalvideo.tv)

TMD Evaluation and Management in Everyday Practice. 2010. [www.dentalvideo.tv](http://www.dentalvideo.tv)

The Basic Rules of Being A Dental Patient, 2016. [oasisdiscussions.ca/2016/09/28/brdp/](http://oasisdiscussions.ca/2016/09/28/brdp/)

Crestal Sinus Lifts and Implant Supported Restorations for a Maxillary Rehabilitation. 2017. [www.camlogconnect.com/cases](http://www.camlogconnect.com/cases)

Dentaltown Podcast. August, 2017. Occlusion and Evidence-based Dentistry.

The Basic Rules of Oral Rehabilitation. The World Continuing Education Alliance. 2017/2018

Dentaltown Online CE. 2018. Occlusion: The 10 Essential Steps for Clinical Success.

The Basic Rules of Being A Dental Patient, 2018. Audiobook.  
[https://www.amazon.ca/Basic-Rules-Being-Dental-Patient/dp/B07FGBDDL8/ref=sr\\_1\\_2?s=books&ie=UTF8&qid=1529616651&sr=1-2&keywords=the+basic+rules+being+dental+patient](https://www.amazon.ca/Basic-Rules-Being-Dental-Patient/dp/B07FGBDDL8/ref=sr_1_2?s=books&ie=UTF8&qid=1529616651&sr=1-2&keywords=the+basic+rules+being+dental+patient)

Canadian Dental Association Oasis. Can Informed Consent Cause You Grief? September 2018.

Canadian Dental Association Oasis. Good Recordkeeping Saves Practices. February 2019.

Canadian Dental Association Oasis. What To Do After a Patient's Complaint? February 2019.

Dentaltown Online CE. 2019. Comprehensive Dental Examination Basics.

- Canadian Dental Association Oasis. Be Informed About Informed Consent. April 2019.
- Canadian Dental Association Oasis. What are Your Options for Intra-Oral Scanners? April 2019.
- Canadian Dental Association Oasis. What are The Best Restorative Materials? July 2019.
- Canadian Dental Association Oasis. Should I Get Into Implants and Where to Begin? July 2019.
- St. Paul's Hospital Pain Centre. Orofacial Pain/TMD: A Brief Overview. February 2020.  
<https://attendeegotowebinar.com/recording/1294225646633861122>
- Canadian Dental Association Oasis. When should you treat a patient in habit bite? June 2020.
- Dentaltown Online CE. 2020. Occlusal Equilibration: The Basics.
- Dentaltown Online CE. 2022. Dental Orthotics: What, Why, When.

#### **IV. SCHOLARLY ACTIVITIES**

##### **Publications: Books**

- The basic rules of oral rehabilitation. Markham: Palmeri Publishing; 2010.
- The basic rules of occlusion. Markham: Palmeri Publishing; 2012.
- The basic rules of facially generated treatment planning. Markham: Palmeri Publishing; 2013.
- The basic rules of being a dental patient. Markham: Palmeri Publishing; 2016.

##### **Publications: Articles**

- Oral rehabilitation for the asymptomatic patient: what starting position should I choose?  
 J Can Dent Assoc 2003;69:457-8.
- Maxillary central incisor all-ceramic and porcelain-fused-to-metal crowns. J Can Dent Assoc  
 2004;70:403-6.
- Orofacial pain and occlusion: Is there a link? An overview of current concepts and the clinical  
 implications. J Prosthet Dent 2005;93:189-96.
- Predictable fabrication and delivery technique for full-coverage hard acrylic non-sleep-apnea  
 dental orthotics. J Can Dent Assoc 2006;72:233-6.
- A case for full-coverage hard acrylic non-sleep-apnea dental orthotics. J Can Dent Assoc  
 2006;72:239-41.

Narrative, listening, placebo effect and the TMD Patient Interview. In: Culp L (ed). AES Contact. Markham: Palmeri Publishing; 2006. p. 6-7.

Same-day implant placement and delivery of a bar overdenture: a case report. J Can Dent Assoc 2007;73:35-9.

Attachment suggestions for removable implant prosthetics. J Can Dent Assoc 2007;73:narrated PowerPoint suppl (electronic version).

Patient request and informed consent leading to four different restorative techniques in one quadrant. Spectrum Dialogue 2007;6:58-66.

Don't forget about "the teeth". J Orofac Pain 2007;21:336-8.

1, 2, 3s of dentistry: A simplified, sequential approach for oral rehabilitative evaluation & treatment. Oral Health 2008;98:28-36.

CSI Dentistry. In: Griffin T (ed). AES Contact. Markham: Palmeri Publishing; 2008. p. 8-9.

What are 3 key elements of the TMD patient interview? J Can Dent Assoc 2009;75:197-8

Dental occlusion evaluation: 10 essential steps. Can J Restor Dent Prosthodont 2010;3:32-7& 2012;5:40-9.

Racich MJ, Campagni WC. Implants and occlusion: Observations and their clinical significance. J Implant Advan Clin Dent 2011;3:47-60.

A logical approach to occlusal equilibration. Can J Restor Dent Prosthodont 2013;6:50-8.

Taylor RN, Guinn JL, Kinderknecht KE, Nelson SJ, Auvenshine R, Gremillion H, Hancock D, Racich M, Tylka D, Zonnenberg A. A systematic review of systematic reviews of the efficacy of the stabilization splint in the management of patients with temporomandibular disorders. E-published by the American Equilibration Society 2014: <http://www.aes-tmj.org>.

The evolution of articulators using fixed average posterior determinants. Can J Restor Dent Prosthodont 2014;7:60-4.

Occlusion: a contemporary overview and recommendations. Int J Periodontics Restorative Dentistry 2015;35:775-82.

Occlusion, temporomandibular disorders, and orofacial pain: An evidence-based overview and update with recommendations. J Prosthet Dent 2018;120:678-85.

Occlusal equilibration: Technique and rationalization. Dentaltown 2020;21:49-55.

TMD: The Role of the Dentist. In: Oh C (ed). AES Contact. Markham: Palmeri Publishing; 2021. p. 10-12.

## **Publications: Editorial/Opinion**

In my practice. Team Work. 2008 - 2016.

Institutitis. Dentaltown, 2018.

Objective Masticatory Efficiency and Subjective Quality of Masticatory Function Among Patients With Periodontal Disease. PracticeUpdate website. 2020.

<https://www.practiceupdate.com/content/objectivemasticatory-efficiency-and-subjective-quality-of-masticatory-function-among-patients-with-periodontaldisease/109286/65/23/1>.

Fully Guided Versus Half-Guided and Freehand Implant Placement: Systematic Review and Meta-Analysis. PracticeUpdate website. 2021. <https://www.practiceupdate.com/content/fully-guided-versus-half-guided-andfreehand-implant-placement-systematic-review-and-meta-analysis/110772/65/23/1>.

The Migration of Neighboring and Antagonist Teeth Three Months After Implant Placement in Healed Single Tooth-Missing Sites. PracticeUpdate website. 2021.

<https://www.practiceupdate.com/content/the-migration-of-neighboring-and-antagonist-teeth-after-implant-placement-in-healed-single-tooth-missing-sites/113708/65/23/1>.

Additive 3-Dimensional Printing as a Novel Tool for Pre- and Postsurgical Evaluation and Patient Education: A Clinical Case Series. PracticeUpdate website. 2021.

<https://www.practiceupdate.com/content/additive-3d-printing-technologies-offer-a-wide-range-of-clinical-dental-applications/120569/65/23/1>.

When Should Root Remnants and Unrestorable Broken Teeth Be Extracted in Frail Older Adults? PracticeUpdate website. 2021. <https://www.practiceupdate.com/content/decision-tree-provides-guidance-about-the-extraction-or-retention-of-broken-teeth-in-frail-older-adults/124517/65/23/1>.

Oral health-related Quality of Life in Patients with Parkinson's Disease. PracticeUpdate website. 2022

<https://www.practiceupdate.com/content/oral-health-related-quality-of-life-in-patients-with-parkinsons-disease/131227/65/23/1>.

Analysis of Recurrent Esthetic Dental Proportion of Natural Maxillary Anterior Teeth: A Systematic Review. PracticeUpdate website. 2022

<https://www.practiceupdate.com/content/analysis-of-recurrent-esthetic-dental-proportion-of-natural-maxillary-anterior-teeth/133655/65/23/1>.

Accuracy of Fixed Implant-Supported Dental Protheses Additively Manufactured by Metal, Ceramic, or Polymer: A Systematic Review. PracticeUpdate website. 2022.

<https://www.practiceupdate.com/content/accuracy-of-fixed-implant-supported-dental-protheses-additively-manufactured-using-metal-ceramic-or-polymer/135816/65/23/1>.

1995 to 2003

Integrated Implant Study Club

1996 – 1999

Vancouver Occlusion Study Club

(NGA Seminars 3 year Occlusion and Comprehensive Restorative Dentistry Program)

1987 – 1999

Vancouver Gold and Porcelain Study Club

1986 – 1999

T.E.S.T. Study Club

1992- 1999

Vancouver Periodontal and Restorative Study Club

1987 – 1992

Vancouver TMJ Study Club

1986 – 1987

Vancouver Restorative Dentistry Seminar

1982-1986

Pacific Periodontal Study Club

### **Continuing Education Courses Taken**

2022

Pacific Coast Society for Prosthodontics  
Annual Session  
Santa Ana Pueblo, NM  
June 30-July 2, 2022

American Academy of Orofacial Pain  
Annual Session  
Boston, MA  
April 28-May 1, 2022

2021

Engineers & Geoscientists of BC  
4 Seasons of Reconciliation Indigenous Awareness Learning  
Online  
October 11, 2021

Pacific Coast Society for Prosthodontics  
Annual Session  
Online  
June 24-26, 2021

American Academy of Orofacial Pain  
Annual Session  
Online  
May 7-8, 2021

American Equilibration Society  
Annual Session  
Online  
February 26, 2021

Provincial Health Services Authority  
San'yas Indigenous Cultural Safety Training  
Online  
January 4 – February 26, 2021

UBC Faculty of Dentistry  
Research Day 2021: Biomaterials & Devices: The Building Blocks of Dentistry  
Webinar  
January 26, 2021

Pain BC Society  
Central Sensitization Syndromes  
Webinar  
January 20, 2021

College of Dental Surgeons of British Columbia (CDSBC)  
Trauma Informed Investigations: Understanding the Neurobiology of Trauma  
Webinar  
January 15, 2021

College of Dental Surgeons of British Columbia (CDSBC)  
Sexual Abuse: Research and Prevention  
Webinar  
January 15, 2021

## 2020

International Association for the Study of Pain (IASP)  
Telehealth Care Programs to Prevent Chronic Pain and Addiction  
Webinar  
October 15, 2020

American Academy of Orofacial Pain  
Annual Session  
Online  
September 4, 2020

Pacific Coast Society for Prosthodontics  
Pandemic Prosthodontics-Living with COVID-19  
Webinar  
May 29, 2020

UBC Faculty of Medicine  
COVID-19 Update: Expert Q&A with Public Health, Epidemiology & Lab  
Webinar  
May 26, 2020

BC Dental Association  
Office Protocols and PPE Selection During the COVID-19 Pandemic  
Webinar  
April 15, 2020

UBC Faculty of Medicine  
COVID-19: Emergency and Critical Care #3  
Webinar  
April 14, 2020

University of Toronto  
Pulp and Periodontal Relationships  
Webinar  
April 13, 2020

University of Toronto  
Periodontics for the General Practitioner  
Webinar  
April 12, 2020

University of Toronto  
Infection Prevention and Control  
Webinar  
April 10, 2020

UBC Faculty of Medicine  
COVID-19: Emergency and Critical Care #2  
Webinar  
March 31, 2020

UBC Faculty of Medicine  
 COVID-19: Emergency and Critical Care #1  
 Webinar  
 March 26, 2020

American Equilibration Society  
 Annual Session  
 Chicago, IL  
 Feb. 19-20, 2020

2019

UBC Faculty of Medicine  
 Teacher Certificate Program: Session 3 – Learning Relationships  
 Vancouver, BC  
 November 26, 2019

Pacific Coast Society for Prosthodontics  
 Annual Session  
 Napa, CA  
 June 19-22, 2019

UBC Faculty of Medicine  
 Teacher Certificate Program: Session 5 – Context  
 Vancouver, BC  
 May 10, 2019

American Academy of Orofacial Pain  
 Annual Session  
 San Diego, CA  
 May 2-5, 2019

FOCUS Dental CE Continuum  
 Contemporary Milling for Fixed/Removable Prosthodontics  
 West Vancouver, BC  
 Apr 14, 2019

UBC Faculty of Medicine  
 Teacher Certificate Program: Session 4 – Feedback & Reflection  
 Vancouver, BC  
 April 4, 2019

American Equilibration Society  
 Annual Session  
 Chicago, IL  
 Feb. 20-21, 2019

2018

UBC Faculty of Medicine  
 Teacher Certificate Program: Session 2 - Assessment  
 Vancouver, BC  
 Dec 6, 2018

FOCUS Dental CE Continuum  
 Anaesthetics, Endodontics & Lasers  
 West Vancouver, BC  
 Nov. 4, 2018

UBC Faculty of Medicine  
 Teacher Certificate Program: Session 1 - Active Learning  
 Vancouver, BC  
 Oct. 11, 2018

Canadian Academy of Restorative Dentistry and Prosthodontics  
 Annual Session  
 Montreal, PQ  
 Sept. 28-29, 2018

Pacific Coast Society for Prosthodontics  
 Annual Session  
 Carlsbad, CA  
 June 26-30, 2018

American Academy of Orofacial Pain  
 Annual Session  
 Chicago, IL  
 April 26-28, 2018

2017

Canadian Academy of Restorative Dentistry and Prosthodontics  
 Annual Session  
 Vancouver, BC  
 Sept. 15-16, 2017

International Congress of Oral Implantologists  
 World Congress XXXV  
 Vancouver, BC  
 August 19-20, 2017

Pacific Coast Society for Prosthodontics  
 Annual Session  
 Coeur d'Alene, ID  
 June 28-July 1, 2017

American Academy of Orofacial Pain  
 Annual Session  
 Phoenix, AZ  
 May 5-7, 2017

American Academy of Orofacial Pain  
 An Overview of Orofacial Pain  
 Chicago, IL  
 February 24-25, 2017

American Equilibration Society  
 Annual Session  
 Chicago, IL  
 Feb. 22-23, 2017

## 2016

Canadian Academy of Restorative Dentistry and Prosthodontics  
 Annual Session  
 Halifax, NS  
 Sept. 9-10, 2016

Pacific Coast Society for Prosthodontics  
 Annual Session  
 San Francisco, CA  
 June 30-July 2, 2016

International Quintessence Congress  
 “From Micro to Macro: Difficulties During Dental Treatment”  
 Krakow, Poland  
 April 22-23, 2016

American Academy of Orofacial Pain  
 Annual Session  
 Orlando, FL  
 April 15-16, 2016

CDSBC Inquiry Committee Workshop  
 “Training Session”  
 Vancouver, BC  
 Feb. 26, 2016

American Equilibration Society  
 Annual Session  
 Chicago, Ill.  
 Feb. 24-25, 2016

CDSBC Board & Stakeholder Workshop  
 “Renewing CDSBC’s Policy Process”  
 Vancouver, BC  
 Feb. 20, 2016

University of British Columbia  
 “Pharmacy and Oral Pathology”  
 Mauna Lani, HI  
 Feb. 1-3, 2016

## 2015

FOCUS Dental CE Continuum  
 “Postural Orthodontics: An Oxymoron or Contemporary Paradigm”  
 Vancouver, BC  
 Nov. 2, 2015

Canadian Academy of Restorative Dentistry and Prosthodontics  
 Annual Session  
 Toronto, Ont  
 Oct. 2-3, 2015

International Congress of Oral Implantologists  
 Summer Implant Symposium  
 San Francisco, CA  
 August 14-15, 2015

Pacific Coast Society for Prosthodontics  
 Annual Session  
 Park City, UT  
 June 24-27, 2015

American Academy of Orofacial Pain  
 Annual Session  
 Denver, CO  
 May 8-10, 2015

American Prosthodontic Society  
 Annual Session  
 Chicago, Ill.  
 Feb. 27, 2015

American Equilibration Society  
 Annual Session  
 Chicago, Ill.  
 Feb. 25-26, 2015

Trial Lawyers Association of BC  
 Medical Legal Conference XIII  
 Waikoloa, HI  
 January 27-30, 2015

2014

Canadian Academy of Restorative Dentistry and Prosthodontics  
 Annual Session  
 Montreal, PQ  
 Sept. 19, 2014

Dental Implants  
 Camlog  
 Indianapolis, IN  
 August 1-2, 2014

C.O.A.ST. meeting  
 Bi-Annual Session  
 Whistler, BC  
 July 10-12, 2014

Pacific Coast Society for Prosthodontics  
 Annual Session  
 Laguna Beach, CA  
 June 24-27, 2014

American Academy of Orofacial Pain  
 Annual Session  
 Las Vegas, NV  
 May 2-4, 2014

American Academy of Fixed Prosthodontics  
 Annual Session  
 Chicago, Ill.  
 Feb. 21-22, 2014

American Equilibration Society  
 Annual Session  
 Chicago, Ill.  
 Feb. 19-20, 2014

2013

Canadian Academy of Restorative Dentistry and Prosthodontics  
 Annual Session  
 Vancouver, BC  
 Sept.27-28, 2013

Reckitt Benckiser  
 “The Pain of Addiction”  
 Vancouver, BC  
 Sept.26, 2013

Pacific Coast Society for Prosthodontics  
 Annual Session  
 Anchorage, AK  
 June 26-29, 2013

Matrix Bi-Annual meeting  
 “Updates in Implantology and Bone Regeneration 2013”  
 Caesarea, Israel  
 May 30-31, 2013

Titu Maiorescu University  
 “Interdisciplinary Vision in Dental Medicine”  
 Bucharest, Romania  
 May 22-25, 2013

American Academy of Orofacial Pain  
 Annual Session  
 Orlando, FL  
 Apr. 26-27, 2013

American Academy of Fixed Prosthodontics  
 Annual Session  
 Chicago, Ill.  
 Feb. 22-23, 2013

American Equilibration Society  
 Annual Session  
 Chicago, Ill.  
 Feb.20-21, 2013

## 2012

C.O.A.ST. meeting  
 Bi-Annual Session  
 Suncadia, WA  
 July 14-15, 2012

Society for Color and Appearance Dentistry  
 Dental Color Matcher Educational and Training Program  
 Online  
 July 1, 2012

Pacific Coast Society for Prosthodontics  
 Annual Session  
 Victoria, BC  
 June 20-23, 2012

American Academy of Orofacial Pain  
 Annual Session  
 Los Angeles, CA  
 May 3-6, 2012

Brilliant Aesthetics and Innovative Prosthetic Treatment Concepts  
 Dentsply  
 Vancouver, BC  
 Apr. 18, 2012

American Academy of Fixed Prosthodontics  
 Annual Session  
 Chicago, Ill.  
 Feb. 24-25, 2012

American Equilibration Society  
 Annual Session  
 Chicago, Ill.  
 Feb.22-23, 2012

## 2011

International Congress of Oral Implantologists  
 Columbia University Implant Symposium  
 New York, NY  
 December 9-10, 2011

Canadian Academy of Restorative Dentistry and Prosthodontics  
 Annual Session  
 Toronto, Ont  
 Sept. 22, 2011

Western Branch Canadian Psychoanalytic Society  
 Psychoanalytic Exploration of Addictive Behaviours  
 Vancouver, BC  
 Sept. 17, 2011

Pacific Coast Society for Prosthodontics  
 Annual Session  
 Pasadena, CA  
 June 22-25, 2011

American Academy of Orofacial Pain  
 Annual Session  
 Las Vegas, NV  
 Apr. 29-30, 2011

American Academy of Fixed Prosthodontics  
 Annual Session  
 Chicago, Ill.  
 Feb. 25-26, 2011

American Equilibration Society  
 Annual Session  
 Chicago, Ill.  
 Feb. 23-24, 2011

International Congress of Oral Implantologists  
 ICOI Winter Symposium  
 Las Vegas, NV  
 February 10-12, 2011

College of Dental Surgeons  
 Inquiry Committee Training Workshop  
 Vancouver, BC  
 January 21, 2011

## 2010

Biodenix Implantology Forum  
 Grafting & Surgical techniques  
 Vancouver, BC  
 July 26, 2010

Biodenix Implantology Forum  
 Annual Session  
 Vancouver, BC  
 July 23-24, 2010

C.O.A.ST. meeting  
 Bi-Annual Session  
 Sunriver, OR  
 July 16-17, 2010

Pacific Coast Society for Prosthodontics  
 Annual Session  
 Napa, CA  
 June 23-26, 2010

American Academy of Orofacial Pain  
Annual Session  
Orlando, FL  
Apr. 30-May 1, 2010

American Academy of Fixed Prosthodontics  
Annual Session  
Chicago, Ill.  
Feb. 26-27, 2010

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb. 24-25, 2010

## 2009

Canadian Academy of Restorative Dentistry and Prosthodontics  
Annual Session  
Montreal, PQ  
Sept. 24-26, 2009

International Congress of Oral Implantologists  
ICOI World Congress XXVI  
Vancouver, BC  
August 21-22, 2009

Pacific Coast Society for Prosthodontics  
Annual Session  
Sunriver, Ore  
June 25-27, 2009

American Academy of Orofacial Pain  
Annual Session  
Austin, TX  
Mar. 5-7, 2009

American Academy of Fixed Prosthodontics  
Annual Session  
Chicago, Ill.  
Feb. 27-28, 2009

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb.25-26, 2009

2008

Advanced Surgical Implant and Prosthetic Program  
 D.M. Vassos Dental Implant Centre  
 Edmonton, Alta  
 Oct. 23-24, 2008

Canadian Academy of Restorative Dentistry and Prosthodontics  
 Annual Session  
 Vancouver, BC  
 Sept. 10-13, 2008

C.O.A.ST. meeting  
 Bi-Annual Session  
 Whistler, BC  
 June 27-28, 2008

Pacific Coast Society for Prosthodontics  
 Annual Session  
 Kona, HI  
 June 18-21, 2008

American Academy of Orofacial Pain  
 Annual Session  
 Los Angeles, CA  
 Apr.10-13, 2008

American Academy of Fixed Prosthodontics  
 Annual Session  
 Chicago, Ill.  
 Feb. 20-21, 2008

American Equilibration Society  
 Annual Session  
 Chicago, Ill.  
 Feb.22-23, 2008

2007

Canadian Academy of Restorative Dentistry and Prosthodontics  
 Annual Session  
 Winnipeg, MB  
 Sept. 13-15, 2007

Pacific Coast Society for Prosthodontics  
 Annual Session  
 San Francisco, CA  
 June 28-30, 2007

American Academy of Orofacial Pain  
 Annual Session  
 Philadelphia, PA  
 Apr.26-29, 2007

American Academy of Fixed Prosthodontics  
 Annual Session  
 Chicago, Ill.  
 Feb. 21-22, 2007

American Equilibration Society  
 Annual Session  
 Chicago, Ill.  
 Feb.23-24, 2007

Advanced Implant Surgery: Autografts & Phlebotomy  
 Pacific Implant Institute  
 Vancouver, BC  
 Feb. 9-11, 2007

## 2006

American College of Dentists  
 Annual Session  
 Las Vegas, NV  
 Oct. 16-17, 2006

Canadian Academy of Restorative Dentistry and Prosthodontics  
 Annual Session  
 Halifax, NS  
 Sept. 29-30, 2006

C.O.A.ST. meeting  
 Bi-Annual Session  
 Seattle, WA  
 July 21-22, 2006

Pacific Coast Society for Prosthodontics  
 Annual Session  
 Portland, Ore  
 June 21-24, 2006

American Academy of Orofacial Pain  
 Annual Session  
 Las Vegas, NV.  
 April 28-30, 2006

CPR Recertification  
Canadian Red Cross  
Vancouver, BC  
Mar. 28, 2006

Evidence-Based Dentistry Training  
The Forsyth Institute  
Boston, MA  
Mar. 17-19, 2006

Canadian Academy for Esthetic Dentistry  
Annual Session  
Vancouver, BC.  
Mar. 11-12, 2006

American Academy of Fixed Prosthodontics  
Annual Session  
Chicago, Ill.  
Feb. 24-25, 2006

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb.22-23, 2006

## 2005

Advanced Implant Surgery  
D.M. Vassos Dental Implant Centre  
Edmonton, Alta  
Oct. 27-28, 2005

The Richard V. Tucker Symposium 2005  
Current Topics in Restorative Dentistry  
Vancouver, BC  
Oct. 14-15, 2005

Canadian Academy of Restorative Dentistry and Prosthodontics  
Annual Session  
Quebec City, PQ  
Sept. 16-17, 2005

International Academy of Gnathology  
Bi-annual Session  
Victoria, BC  
Sept. 14-15, 2005

4<sup>th</sup> International Conference on Orofacial Pain & TMD  
Sydney, Au  
Aug. 27-28, 2005

International Association for the Study of Pain  
11<sup>th</sup> World Congress  
Sydney, Au  
Aug. 22-26, 2005

American Academy of Esthetic Dentistry  
Annual Session  
Kohala Coast, HI  
August 2-5, 2005

Pacific Coast Society for Prosthodontics  
Annual Session  
Marina del Rey, CA  
June 22-25, 2005

American Academy of Orofacial Pain  
Annual Session  
Phoenix, AR.  
Apr. 14-16, 2005

American Academy of Restorative Dentistry  
Annual Session  
Chicago, Ill.  
Feb. 27, 2005

American Academy of Fixed Prosthodontics  
Annual Session  
Chicago, Ill.  
Feb. 25-26, 2005

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb.22-24, 2005

#### 2004

Canadian Academy of Restorative Dentistry and Prosthodontics  
Annual Session  
Banff, Alta.  
Oct.14-16, 2004

American Academy of Esthetic Dentistry  
Annual Session  
Banff, Alta.  
August 4-7, 2004

C.O.A.S.T.  
Annual Session  
Ashland, Ore  
July 16-17, 2004

Pacific Coast Society for Prosthodontics  
Annual Session  
Monterey, CA  
June 10-12, 2004

American and Canadian Pain Societies  
2<sup>nd</sup> Joint Scientific Session  
Vancouver, BC.  
May 6-9, 2004

International Association for the Study of Pain Orofacial Pain Special Interest Group  
Nerve Damage and Neuropathic Trigeminal Pain  
Vancouver, BC  
May 4-5, 2004

American Academy of Orofacial Pain  
Annual Session  
San Francisco, CA.  
Mar. 25-28, 2004

Corvallis Complete Dentistry Study Group  
Cranial Osteopathy and Dentistry  
Eugene, Ore.  
Mar. 5-6, 2004

American Academy of Fixed Prosthodontics  
Annual Session  
Chicago, Ill.  
Feb. 20-21, 2004

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb. 18-19, 2004

2003

Canadian Academy of Restorative Dentistry and Prosthodontics  
Annual Session  
Toronto, Ont.  
Oct. 3-4, 2003

The Richard V. Tucker Symposium  
Current Topics in Restorative Dentistry  
Vancouver, BC  
Sept. 25-27, 2003

International Academy of Gnathology  
Bi-annual Session  
Santa Fe, NM  
Sept. 17-20, 2003

American Academy of Esthetic Dentistry  
Annual Session  
Monarch Beach, CA.  
August 6-9, 2003

C.O.A.S.T.  
Annual Session  
Vancouver, BC  
July 18-19, 2003

Pacific Coast Society for Prosthodontics  
Annual Session  
Vancouver, BC  
June 18-21, 2003

American Academy of Prosthodontists  
Annual Session  
Boston, Mass.  
May 1-5, 2003

American Academy of Orofacial Pain  
Annual Session  
Dorado, Puerto Rico  
Apr. 4-6, 2003

American Academy of Restorative Dentistry  
Annual Session  
Chicago, Ill.  
Mar. 2, 2003

American Academy of Fixed Prosthodontics  
Annual Session  
Chicago, Ill.  
Feb.28 & Mar.1, 2003

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb. 26-27, 2003

Canadian Society of Clinical Hypnosis  
Training Seminar  
Vancouver, BC  
Feb.1, 2003

## 2002

Canadian Academy of Restorative Dentistry and Prosthodontics  
Annual Session  
Vancouver, BC  
Oct. 4-5, 2002

International Association for the Study of Pain  
10<sup>th</sup> World Congress  
San Diego, CA  
Aug. 17-22, 2002

American Academy of Esthetic Dentistry  
Annual Session  
Beaver Creek, CO  
Aug. 7-10, 2002

Southern Oregon Dental Society  
Annual Session  
Ashland, Ore.  
July 12, 2002

Pacific Coast Society for Prosthodontics  
Annual Session  
Tucson, AZ  
June 20-22, 2002

American Academy of Orofacial Pain  
Annual Session  
San Antonio, TX  
Apr. 19-21, 2002

American Academy of Restorative Dentistry  
Annual Session  
Chicago, Ill.  
Feb. 24, 2002

American Academy of Fixed Prosthodontics  
Annual Session  
Chicago, Ill.  
Feb. 22-23, 2002

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb. 20-21, 2002

American Headache Society  
Winter Symposium  
Bal Harbor, FL  
Jan. 18-20, 2002

## 2001

Canadian Academy of Restorative Dentistry and Prosthodontics  
Annual Session  
Montreal, P.Q.  
Oct. 19-20, 2001

International Academy of Gnathology  
Bi-Annual Session  
Seattle, WA  
Sept. 13-15, 2001

Pacific Coast Society for Prosthodontics  
Annual Session  
Lake Tahoe, NV  
June 21-22, 2001

University of Kentucky  
Annual Alumni Lecture  
Lexington, KY  
Apr. 21, 2001

American Academy of Orofacial Pain  
Annual Session  
Washington, D.C.  
Mar. 22-25, 2001

American Academy of Fixed Prosthodontics  
Annual Session  
Chicago, Ill.  
Feb. 22-24, 2001

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb. 21-22, 2001

NobelBiocare  
Team Day  
Orlando, FL  
Feb. 15-17, 2001

## 2000

Acupuncture Foundation of Canada  
Level I Certification  
Vancouver, BC  
Nov. 4-5, 2000

Western Canadian Chapter American Academy Cosmetic Dentistry  
Cure for the Common Restoration  
Vancouver, BC  
Sept. 29, 2000

Canadian Academy of Restorative Dentistry and Prosthodontics  
Annual Session  
Halifax, NS  
Sept. 15-16, 2000

American Academy of Esthetic Dentistry  
Annual Session  
Kauai, HI  
Aug. 1-4, 2000

Pacific Coast Society for Prosthodontics  
Annual Session  
Seattle, WA  
June 29–July 1, 2000

3<sup>rd</sup> International Conference on Orofacial Pain & TMD  
Seoul, Korea  
May 13-14, 2000

University of Kentucky  
Annual Alumni Lecture  
Lexington, KY  
Apr. 21, 2000

Pacific Dental Conference  
Vancouver, BC  
Mar. 9–11, 2000

American Academy of Biologic Dentistry  
Annual Session  
Carmel, CA  
Mar. 3-5, 2000

American Academy of Fixed Prosthodontics  
Annual Session  
Chicago, Ill.  
Feb. 25-26, 2000

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb. 23-24, 2000

#### 1999

Canadian Academy of Restorative Dentistry and Prosthodontics  
Annual Session  
Edmonton, AB  
Sept. 24–25, 1999

American Academy of Esthetic Dentistry  
Annual Session  
Whistler, BC  
Aug. 3–6, 1999

American Academy of Orofacial Pain  
Annual Session  
Colorado Springs, CO  
Apr.30–May 2, 1999

International Association for Dental Research  
Orofacial Pain Symposium  
Vancouver, BC  
Mar. 10, 1999

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb.17–18, 1999

1998

CRA Dentistry Update  
Las Vegas, NV  
Nov. 20, 1998

Canadian Academy of Restorative Dentistry and Prosthodontics  
Annual Session  
Winnipeg, Man.  
Sep. 11–12, 1998

American Academy of Cosmetic Dentistry  
Smile Design  
Vancouver, BC  
June 11–13, 1998

Prosynergy Corp.  
Co-discovery (Patient/practice Relationships)  
Seattle, WA  
Apr. 29–May 1, 1998

Pacific Dental Conference  
Advanced Adhesive Dentistry  
Vancouver, BC  
Mar. 13, 1998

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb 18–19, 1998

Chicago Midwinter Meeting  
Chicago, Ill.  
Feb. 20, 1998

1997

Vancouver Seminar for Dentistry  
Creating the Restorative Practice of Your Dreams  
Vancouver, BC  
Oct. 17-18, 1997

International Periodontic / Restorative Symposium  
Boston, Mass.  
June 5 – 8, 1997

Implants: Placement & Prosthetics  
D.M. Vassos Dental Implant Centre  
Edmonton, Alta  
Mar. 7, 1997

American Equilibration Society  
Annual Session  
Chicago, Ill.  
Feb. 19–22, 1997

### 1996

University of British Columbia  
Didactic Program: “TMJ: Legalities”  
Vancouver, BC  
Sep. 28, 1996

University of British Columbia  
Didactic Program (TMJ Dysfunction)  
Vancouver, BC  
Jan. 27, 1996

### 1995

University of British Columbia  
Didactic Program (Removable Prosthodontics)  
Vancouver, BC  
Oct. 28, 1995

Vancouver Seminar for Dentistry  
21<sup>st</sup> Century Ceramics  
Vancouver, BC  
Oct. 20–22, 1995

University of British Columbia  
Didactic Program (Practice Management)  
Vancouver, BC  
June 9, 1995

Pacific Dental Conference  
Vancouver, BC  
Mar.2-4, 1995

1994

University of British Columbia  
Didactic Program (TMJ Dysfunction)  
Vancouver, BC  
Dec.12, 1994

Federation Dentistry International  
Annual Session  
Vancouver, BC  
Oct. 4-6, 1994

1993

Pacific Dental Conference  
Vancouver, BC  
Mar. 3-6, 1993

University of British Columbia  
Didactic Program (Endodontics)  
Vancouver, BC  
June 30, 1993

1992

University of British Columbia  
Didactic Program (Implants)  
Vancouver, BC  
Dec. 5, 1992

University of British Columbia  
Didactic Program (Fixed Prosthodontics)  
Vancouver, BC  
Oct. 24, 1992

University of British Columbia  
Didactic Program (Periodontics)  
Vancouver, BC  
Jan. 6-Apr. 27, 1992 (bi-weekly)

1991

University of British Columbia  
Didactic Program (Fixed Prosthodontics)  
Vancouver, BC  
Apr. 5, 1991

1990

University of British Columbia  
Didactic Program (Periodontics)  
Vancouver, BC  
Oct. 13, 1990

1989

Proprietary Seminar  
TMJ  
Vancouver, BC  
Dec 2-3, 1989

1988

University of British Columbia  
Didactic Program (Occlusion)  
Vancouver, BC  
Nov.5, 1988

Proprietary Seminar  
TMJ  
Vancouver, BC  
Apr.30–May 1, 1988

University of British Columbia  
Didactic Program (Oral Medicine)  
Vancouver, BC  
Apr. 9, 1988

University of British Columbia  
Didactic Program (Endodontics)  
Vancouver, BC  
Mar. 26, 1988

University of British Columbia  
Didactic Program (TMD)  
Vancouver, BC  
Feb. 6, 1988

1987

College of Dental Surgeons of British Columbia  
Annual Session  
Vancouver, BC  
Jun 18–21, 1987

University of British Columbia  
Didactic Program  
Vancouver, BC  
Jan. 31, 1987

University of British Columbia  
Didactic Program (Implants)  
Vancouver, BC  
Jan. 9-10, 1987

1986

University of British Columbia  
Didactic Session (Oral Medicine)  
Vancouver, BC  
Apr. 12-13, 1986

1985

University of British Columbia  
Richard V. Tucker Cast Gold Seminar  
Vancouver, BC  
Aug. 19-23, 1985

## **V. PRODUCT DEVELOPMENT ACTIVITIES**

2003

Verifying Apparatus for Accuracy of Dental Cast Mounting  
United States Patent Application  
Filed: June 20, 2003.