

# UBC DENTISTRY

CONTINUING DENTAL EDUCATION



## Cone Beam CT Certification Program for Dentistry

2 Day program

Dr. James Mah  
Dr. Robert Langlais

Saturday September 17th and  
Sunday September 18th, 2011

LIMITED ENROLMENT

Continuing Dental Education, Faculty of Dentistry  
is an ADA CERP recognized provider

**ADA CERP** Continuing Education  
Recognition Program

### CLINICIAN

**Dr. James Mah DDS, MSc, DMSc**, is an Associate Clinical Professor at the University of Southern California and the University of Nevada, Las Vegas. At USC he is the Director of Redmond Imaging Center and the Director of the Craniofacial Virtual Reality Laboratory. Dr. James Mah obtained his Bachelor of Science, Doctorate of Dental Surgery, Master of Science degrees and his Certificate of Specialization in Orthodontics from the University of Alberta, Canada. He graduated from Harvard Medical School with a Doctorate of Medical Science degree and completed a Post-Doctoral Fellowship in the Department of Orthopaedics at Children's Hospital, Boston. His current research focuses on creating virtual 3-dimensional craniofacial patients upon which diagnosis, treatment planning and simulations can be performed.

**Dr. Robert Langlais BA, DDS, MS, FRCD (C)**, is a Professor at the University Of Texas Health Science Center at San Antonio, and the Director of the International Association of Dento-Maxillo-Facial Radiology (IADMFR). His current areas of interest are Radiology and Oral Medicine. Dr. Langlais has presented over 500 courses and lectures in Oral and Maxillofacial Radiology and other topics on all continents of the world except Antarctica, and has over 120 scientific papers and has written eleven textbooks first edition. Currently most of his presentations are on the subject of cone beam CT. Dr. Langlais is also the National Consultant in dental radiology to the Surgeon General of the United States Air Force and holds the civilian military equivalent rank of Brigadier General. He also holds the rank of Commander (ret.) in the Canadian Navy Reserve.

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The University of British Columbia  
#105 2194 Health Sciences Mall  
Vancouver, BC V6T 1Z3  
604 822 2627

For more information, please visit our website  
[www.dentistry.ubc.ca/cde](http://www.dentistry.ubc.ca/cde)  
click on "Clinical Participation Courses."

### REGISTRATION APPLICATION

**Cone Beam CT (CBCT) Certification Program  
for Dentistry LIMITED ENROLMENT**

Saturday, September 17th and Sunday, September 18th, 2011

TUITION:

Dentists      Before Sept. 7, 2011      \$ 775.00      After Sept. 7, 2011      \$ 825.00

PLEASE TYPE OR PRINT CLEARLY

DE E 9345

Dr.  
 Mr.  
 Ms.

Last Name

First Name

Initials

Mailing Address

City

Province

Postal Code

Daytime Telephone Number

Fax No.

Email Address

BC College No. \_\_\_\_\_ Year of Grad \_\_\_\_\_

Continuing Dental Education at the University of British Columbia designates this activity for 16 continuing education hours.

**ADA CERP** Continuing Education  
Recognition Program

Continuing Dental Education at the University of British Columbia is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. Concerns or complaints about a CE provider may be directed to the provider or to ADA CERP at [www.ada.org/goto/cerp](http://www.ada.org/goto/cerp). **DISCLAIMER:** Dental education institutions have an obligation to disseminate new knowledge related to dental practice. Some presentations may include controversial materials or commercial references. Sponsorship of a particular philosophy, procedure or product by The University of British Columbia does not imply endorsement of a particular philosophy, procedure or product by The University of British Columbia. **Cancellation Policy:** Limited Enrollment Courses requires a minimum of 15 days' notice for a full refund less \$50.00 administration fee. Cancellations made between 7 to 15 days prior to the first day of the program will receive a 50% refund. No refund will be granted for cancellations made less than 7 days prior to the first day of the program.

**Payment by Cheque:** Please make cheque payable to **The University of British Columbia** and forward to the following address: **Registration, Continuing Dental Education** The University of British Columbia, #105-2194 Health Sciences Mall, Vancouver, BC V6T 1Z3.

**If paying by credit card, please register online at [dentistry.ubc.ca/cde](http://dentistry.ubc.ca/cde)**

**To register online:**

Go to [www.dentistry.ubc.ca](http://www.dentistry.ubc.ca), click on "Continuing Education" & "Register for a Course"

**To register by phone:**

Local Calls 604-822-6156 or Long Distance (Toll Free) 1-877-328-7744

## COURSE OUTLINE

With the introduction of Cone Beam CT (CBCT) in dentistry comes the responsibility for adequate training and education on its utilization to both maximize its diagnostic and therapeutic potential while considering the risk/benefit of ionizing radiation to patients.

This course is aimed at preparing attendees for CBCT utilization and/or ownership. It will provide fundamentals of diagnostic imaging as well as clinical guidelines. A workshop component allows dentists to obtain "hands on" training with visualization software and become competent in common applications such as measurement of bone height and width for implant planning, examination of the temporomandibular joints and visualization of impacted teeth. The course culminates with a multiple choice examination.

**Participants will be required to carry a laptop for this course (no Mac's; graphics card with minimum of 3GB of RAM and a discrete video card with 256MB is required.**

### 1. Fundamentals of Imaging, Radiation Dosimetry, Clinical Guidelines

Topics include radiologic physics, interaction of x-rays and biologic matter, evolution of dental imaging, measures of specificity and sensitivity, radiation dosimetry, risk benefit, fundamentals of CBCT, differences between devices, device settings, operational parameters, software for visualization, craniofacial anatomy, clinical applications and strategies for imaging and radiologic interpretation and reporting.

### 2. Workshop involving image acquisition AND interpretation

Selected cases, such as implant planning, temporomandibular joint examination, airway analysis, and impacted teeth will be provided to demonstrate application of the above fundamentals with emphasis on visualization strategies and radiologic interpretation. Course attendees

will be provided sample cases to demonstrate their understanding and proficiency. The image results and radiologic interpretation will be graded to document competency. Participants will be required to carry a laptop (no Mac's).

### 3. Examination

Following the course and workshop, a multiple choice examination is administered. A score of 75% or higher is required to satisfactorily complete the certification.

### 4. Educational Goals

At the conclusion of this course attendees will:

- Understand the basic fundamentals of cone-beam CT technology, principles of operation, need for multi-dimensional imaging and comparisons to conventional imaging devices.
- Understand the effect of ionizing radiation on biologic matter, radiation dosimetry, radiation hygiene and strategies to reduce effective absorbed dose to the patient.
- Become familiar with radiographic craniofacial anatomy and variations.
- Understand clinical indications for CBCT and be able to prescribe appropriate operational parameters for imaging; be able to utilize computer software to visualize CBCT images and select appropriate methods of visualization.
- Be able to provide a basic interpretation and report of CBCT images.
- Be prepared for installation and ownership of a cone-beam CT device.

## TUITION FEE

	Before Sept. 7	After Sept. 7
<b>DENTISTS:</b>	\$ 775.00	\$825.00

## TIMES

### COURSE SCHEDULE (TENTATIVE):

Day I	Day II
7:30 Registration	8:00 Program Begins
8:00 Program Begins	12:15 Lunch Break
12:15 Lunch Break	1:00 Workshop
1:15 Program Resumes	5:00 Multiple Choice Examination
5:00 Adjourn	5:30 Adjourn

## LOCATION

Lecture Hall #6,  
Instructional Resources Centre (IRC),  
UBC

**Please register as early as possible  
in order to reserve a space!**

### LIMITED ENROLMENT

**This course involves 16 hours of  
continuing education instruction**

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Toll free 1.877.328.7744 (Canada & US)