

The 13th San Antonio Institute for Dental Radiology Educators June 1 - 5, 2009

This summer, the Department of Dental Diagnostic Science at The University of Texas Health Science Center of San Antonio, Dental School will offer The San Antonio Institute for Dental Radiology Educators, June 1 - 5, 2009. June will present an opportunity for those educators who are interested in gaining insights into teaching Dental Radiographic principles to Dental, Dental Assisting and Dental Hygiene students to learn from the "Texas Team" of Preece, McDavid, Noujeim, Moore and some of their best and brightest graduate students. This week long learning experience will provide not only didactic information but strategies for teaching various topics in ways that are comprehensible and understandable for you and your students. With the changing world of dental radiography moving away from film based imaging to digital intraoral, panoramic and the latest cone beam CT imaging, you will want to upgrade these teaching topics for your students and this is the best and most fun way to do it. Reserve the dates, and come to San Antonio and learn from the "best team in the west".

This activity will provide a mechanism for dental radiology faculty members to obtain a review of current information needed to plan curricula in dental radiology and develop teaching strategies. Information on digital imaging technology, intraoral and extraoral radiography, radiation physics, radiation biology, radiation safety, radiology quality assurance, and educational strategies will be included. One major NEW learning activity has been added to this year's workshop in addition to the two we added in 2005. There will be a discussion of the essential principles of digital imaging and the types of equipment available in addition to hands-on experience with various digital imaging units. Second, we are devoting a half-day to teaching radiographic interpretation skills for beginners. Third we are adding information and experiences on cone beam CT, a new imaging modality that will change dental imaging dramatically in the future. We will also discuss NCRP Report 145, Radiation Protection in Dentistry.

Participants may select several elective topics to gain desired knowledge or skills based on individual need. Elective sessions will be conducted in smaller group seminars or laboratories tailored to the needs of the participant. Please refer to the program for a complete listing.

The faculty members for this course are full time experienced instructors and some of your textbook authors in the Department of Dental Diagnostic Science who participate in radiology instruction or dental auxiliary, pre-doctoral and post-doctoral programs. Participation in this program will provide useful information that can be incorporated into radiology programs in community college or university settings.

San Antonio is a lovely city to visit with many attractions such as the Alamo, the Riverwalk with shops and restaurants, sporting events, a Sea World Park, and Six Flags Fiesta Texas Theme Park. We are also within a three-hour drive to the Texas gulf coast and the Mexican border towns. Our Dental radiology faculty invites you to attend this summer's workshop in San Antonio.

We hope to see you!

COURSE DESCRIPTION

Didactic and clinical radiology subjects will be presented in lecture and laboratory formats. Core subjects will be provided for all attendees. Participants will be asked to indicate, on their registration form, their choices for the elective sessions. The final elective schedule will be determined based on participant interest in the topics.

COURSE DIRECTOR

John W. Preece, DDS, MS, is a Professor in the Department of Dental Diagnostic Science at The University of Texas Health Science Center, Dental School.

COURSE FACULTY...

William D. [Doss] McDavid, PhD - Professor
William Moore, DDS, MS - Assistant Professor
Marcel E. Noujeim, DDS, MS - Assistant Professor
Ryan Lee, DDS - Graduate Student
Peter Mah, DDS - Graduate Student
Ahmad Abdelkarim, DDS - Graduate Student
Bruno Azevedo, DDS - Graduate Student
Tara Maghsoodi, DDS - Graduate Student
Joann Ethier, DDS - Graduate Student

STAFF...

In addition to our faculty, our excellent technical support staff will include:

Judy Prock - X-ray Technician
Maria Davila - X-ray Technician
JoAnn Fouad, DR - X-ray Technician
David B. Greer, BA - Research Engineering Assoc.

HOTEL INFORMATION

Special rates have been made at the La Quinta Inn & Suites San Antonio Medical Center. The hotel is close to the Dental School. Specify that you will be attending the UTHSCSA Continuing Dental Education course to receive the special rates.

La Quinta Inn & Suites San Antonio Medical Center

4431 Horizon Hill
San Antonio, Texas 782229
(210) 525-8090

- Approximately 1 mile to UTHSCSA
- Airport Shuttle Service - 7am - 11pm
 - Shuttle service to Health Science Center - 7am - 11pm (*with reservation thru the front desk*)
 - Hot breakfast served daily
 - Free wireless high speed internet access
 - Executive center
 - USA Today newspaper
 - Exercise center
 - Outdoor (heated during the winter) swimming pool

Registration Form

(Please Use One Form Per Person - Photocopy Form As Needed)

San Antonio Institute for Dental Radiology Educators

June 1 - 5, 2009 • (127040A)

- Individual: \$1250.00
- Individual: \$1250.00 - 20% = \$1000.00
- Individual: \$1250.00 - 15% = \$1062.50
- Additional participant from same institute: \$1150.00
- Additional participant from same institute: \$1150.00 - 20% = \$920.00
- Additional participant from same institute: \$1150.00 - 15% = \$977.50

TWO STEP SAVINGS

Register before April 7, 2009 to receive a 20% discount

Register before May 7, 2009 to receive a 15% discount

Payment in full to meet deadline for discounts is not necessary, we would be glad to invoice you.

Name: _____

Date of Birth: _____

DDS DMD RDH DLT DA

Office Address: _____ Ste: _____

City/State/Zip: _____

Home Address: _____

City/State/Zip: _____

Office Phone: _____

Home Phone: _____

Email: _____

Specialty or Position: _____

Dental School: _____

Year of Graduation: _____

Total Amount Enclosed: _____

Check Enclosed Visa Mastercard Discover

Card No. _____

Last 3#'s on back of credit card: _____

Expiration Date: _____

Card Holder's Name: _____

Signature: _____

LOCATION

The University of Texas Health Science Center at San Antonio, Dental School

FINAL CHECK-IN

Monday, June 1st 7:00 AM - 7:45 AM

University of Texas Health Science, Dental School Cafeteria Foyer

TIMES

Monday - Thursday (7:45 AM - 5:00 PM Approx.)

Friday (8:00 AM - 12:00 PM)

Breakfast and Reception on Monday, June 1st

TUITION

(Includes course materials, and lunch, Monday - Thursday)

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CREDIT AGD CODE 731

This program is acceptable for 38 hours of credit.

ACCOMMODATING PEOPLE WITH DISABILITIES

If you are a person with a disability and desire special accommodations, please advise us at the time of registering for the course. Requests will be kept confidential. Individual with speech or hearing impairments can contact the Office of CDE by using TDD Message-Replay Texas. If you have a TDD, 1-800-735-2989. If you do not have a TDD, call 1-800-735-2988.

REGISTRATION INFORMATION

PREREGISTRATION: Pre-registration for all courses is advised and is necessary for participation courses. Please call the Office of Continuing Dental Education at (210) 567-3177 to pre-register for a course or mail the registration form with check made payable to "UTHSCSA" to:

UTHSCSA, DS

Office of the Dean - CDE MSC 7930

7703 Floyd Curl Drive

San Antonio, Texas 78229-3900

CONTINUUM MULTIPLE SERIES REFUND POLICY

If you must cancel your registration, please notify the Office of Continuing Dental Education as soon as you determine you are unable to attend so that a refund may be considered. Due to commitments to these type of programs, any cancellation made before May 1, 2009 will be subject to an administrative fee assessment plus any applicable nonrefundable deposits. Any cancellation made after May 1, 2009 does not qualify for a refund. However, participants may choose to place their tuition minus an administrative, applicable nonrefundable deposits, and any direct cost fee assessment's into a holding account for future use. "No Shows" will not qualify for refunds. Written notification is required within five business days by mail, fax, or e-mail to initiate the refund process. Please allow four to six weeks for all refunds. Deposits are nonrefundable. Specific refund policies apply to all continuum, study clubs, and on-going series programs. Contact our office for specific refund policy regarding any course.

COURSE CHANGES/CANCELLATION

The Office of Continuing Dental Education reserves the right to limit registration, to change the location, time, course content or faculty of any course, and to cancel any course no less than one week prior to the course should circumstances make this necessary. Persons registered in a cancelled course will be notified by telephone, using the number listed on the registration form. The Office of Continuing Dental Education cannot refund airline tickets in the event of course cancellation.

The San Antonio Institute for Dental Radiology Educators

Core Lecture and Workshop Topics

Radiation Physics & Image Formation

A review of fundamental principles in the production & absorption of x-radiation, x-ray unit controls and how each control functions to modify the beam of radiation. Basic principles of radiographic image formation - theoretical principles of projection geometry & film based image formation & processing.

Quality Intraoral Image

A review of fundamental principles in producing and maintaining diagnostically acceptable radiographic images will be presented. Quality assurance principles, along with the simple tests required to evaluate x-ray unit function and film processing will be included.

Radiation Biology

A review of fundamental principles of radiation biology, radiation units, and radiation risks associated with diagnostic dental radiographs. There will also be a discussion of current concepts associated with repair of radiation damage and how these concepts reduce the underlying risks associated with diagnostic imaging.

Digital Imaging

A review of current concepts in digital imaging - photostimulable phosphor and charge coupled devices will be discussed, along with the advantages and disadvantages of each system type.

Cone Beam CT

A review of current concepts in cone beam CT will be presented. This exciting 3-D imaging technology will change the way dental radiographic imaging is performed in the future. We will provide clinical examples from each of the cone beam CT units presently available.

Principles of Panoramic Radiography

A review of panoramic imaging theory, along with a comprehensive analysis of the panoramic image will be presented. Normal anatomy, ghost & artifact shadow formation will be emphasized as they relate to the diagnostic process.

Teaching Radiographic Interpretation to Beginners

An overview of the visual system and strategies to help students begin to recognize and describe common radiographic anomalies that they may encounter during review of patient radiographic records. The emphasis here is on common radiographic findings, NOT the rare & unusual.

NCRP Report 145, the Good, Bad & the Ugly

NCRP Report 145, *Radiation Protection in Dentistry* contains 106 recommendations intended to change the practice of dental radiography in the U.S. Recommendations of the report will be summarized along with their implications. Systematic errors in the report's analysis of radiobiological principles will be presented for discussion.

Radiology Workshop Objectives

Workshop related activities are provided to compliment the corresponding lecture component and provide practical understanding of theoretical concepts and their application to dental radiography. Workshops 5-8 are "free standing" and related to special topics in teaching radiology.

Workshop 1 - How X-ray Units Work

Compliments Radiation Physics lectures

Hands-on experiences in measuring and evaluating x-ray quality and

quantity. Purpose: to provide educators with an opportunity to develop a thorough understanding of the function & purpose of various x-ray unit controls & how each may modify x-ray beam quality and quantity.

Workshop 2 - Imaging Principles & Image Formation

Compliments Radiation Physics lectures

Hands-on experiences in developing a thorough understanding of radiographic image formation: exposure, processing, projection geometry. Practical demonstration of direct & indirect [screen/film] imaging procedures and their influence on detail, density & contrast.

Workshop 3 - Radiographic Quality Assurance

Compliments Quality Intraoral Image lectures

Hands-on experiences & demonstration of simple, practical quality assurance tests to assess & evaluate x-ray unit function and film processing.

Workshop 4 - Digital Imaging

Compliments Digital Imaging lectures

Hands-on experiences & demonstration of several digital imaging systems: photostimulable phosphor and CCD type systems.

Workshop 5 - Panoramic Radiographs

Compliments Principles of Panoramic Radiography &

Teaching Radiographic Interpretation to Beginners lectures

Hands-on experiences evaluating panoramic radiographs with regard to identification of normal anatomy, ghost & artifact shadows, with an emphasis on enhancing participant's ability to recognizing a wide variety of common dental radiographic anomalies as seen on panoramic radiographs.

Workshop 6 - Periapical Radiographs

Compliments Teaching Radiographic Interpretation to Beginners lecture

Hands-on experiences evaluating periapical & interproximal radiographs with regard to identification of normal anatomy, technique & processing errors, with an emphasis on enhancing participant's ability to recognizing a wide variety of common dental radiographic anomalies as seen on periapical radiographs.

Workshop 7 - Panoramic Trouble Shooting

Compliments Principles of Panoramic Radiography lecture

Hands-on experiences evaluating panoramic radiographs with an emphasis on enhancing participant's ability to recognize the cause of a wide variety of technique & processing errors.

Workshop 8 - Radiology Curriculum

Teaching Strategies & Issues

A four hour workshop on dental radiology curriculum design and sequencing, assessing competency in radiography, teaching strategies to help make teaching various "theoretical principles" understandable to students from a wide variety of educational backgrounds. This workshop deals with a wide range of topics with some group participation & discussion. A lot of "How do you teach..." "What do you do if/when...." types of issues. Making radiation physics fun and other challenges.

The San Antonio Institute for Dental Radiology Educators Schedule

Monday, June 1

8:00 am **Introduction to Workshop - Dr. Preece**

8:20-9:45 am **Radiation Physics - Lecture I - Dr. McDavid**

9:45 am **Break**

10:00 - 10:55 am **Quality Intraoral Image - Lecture I**
Dr. TBD

11:00 - 11:55 am **Radiation Biology Lecture I - Dr. Preece**

12:00 - 1:00 pm **Lunch**

1:15 - 4:00 pm **Radiology Workshops**

Workshop 1 - Dr. McDavid/Mr. Greer
How X-ray Units Work

Workshop 2 - Dr. Preece
Imaging Principles & Image Formation

4:15 pm **Group photograph**

4:30 pm **Reception - Cafeteria Private Dining Room**

Tuesday, June 2

7:45 am **Morning Meeting - Dr. Preece**

8:00-8:55 am **Radiation Physics Lecture II - Dr. McDavid**

9:00-9:55 am **Contemporary Panoramic Radiology**
Lecture II - Dr. TBD

10:00 am **Break**

10:10-11:05 am **Radiation Biology Lecture II - Dr. Preece**

11:10-12:00 pm **Digital Imaging Lecture I - Dr. Moore**

12:00-1:00 pm **Lunch**

1:00-2:30 pm **NCRP Report 145, The Good, Bad &**
The Ugly - Lecture - Dr. Preece

2:35-4:50 pm **Radiology Workshops**

Workshop 1 - Dr. McDavid/Mr. Greer
How X-ray Units Work

Workshop 2 - Dr. Preece
Imaging Principles & Imaging Formation

Wednesday, June 3

7:45 am **Morning Meeting - Dr. Preece**

8:00-8:55 am **Radiation Physics Lecture III - Dr. McDavid**

9:00-9:55 am **Quality Assurance Procedures Lecture III**
Dr. TBD

10:00 am **Break**

10:15-11:10 am **Radiation Biology Lecture III - Dr. Preece**

11:15-12:10 pm **Digital Imaging Lecture II -Dr. Moore**

12:15-1:15 pm **Lunch**

1:30-4:00 pm **Radiology Workshops**

Workshop 3 - Dr. TBD
Radiographic Quality Assurance

Workshop 4 - Dr. Moore
Digital Imaging

Thursday, June 4

7:45 am **Morning Meeting - Dr. Preece**

8:00-8:55 am **Digital Imaging Lecture III - Dr. Moore**

9:00-11:50 am **Radiology Workshops**

Workshop 3 - Dr. TBD
Radiographic Quality Assurance

Workshop 4 - Dr. Moore
Digital Imaging

12:00-12:45 pm **Lunch**

1:00-1:55 pm **Panoramic Trouble Shooting**
Lecture - Dr. TBD

2:00-2:55 pm **Teaching Radiographic Interpretation**
to Beginners - Dr. Preece

3:00-4:45 pm **Cone Beam CT, lecture**
Dr. Noujeim

Friday, June 5

(Select one 4-hour session or two 2-hour sessions)

7:45 am **Morning Meeting - Dr. Preece**

8:00-11:55 am **Radiology Workshops - Electives**
Four hour workshops

Interpretation Strategies Workshop
Workshop 6 - TBD
Hands -On Interpretation Activity

Workshop 8 -Dr. Preece
Radiology Curriculum
Teaching Strategies & Issues

8:00-9:55 am **Two hour workshops**

Workshop 5 - Dr. Moore
Interpreting Panoramic Radiographs

Interpretation Strategies Workshop
Workshop 6 - TBD
Hands -On Interpretation Activity

10:00-11:55 am **Workshop 7 - Dr. TBD**
Panoramic Trouble Shooting

12:00 pm **Closing Session**
Question & Answer

San Antonio Attractions

Cultural Events

San Antonio provides you with a myriad of opportunities for cultural exchange, from blues to ballet. Art, theater, and dance are here too. Visitors can enjoy an eclectic mix of entertainment options like A Taste of New Orleans, The Carver Jazz Festival, opera, reggae, and country & western events, to name a few.

Outdoor Activities

Be sure to bring your golf clubs and tennis racquets - we'll supply the sunshine and breezes. Not to mention the course and courts that will satisfy even those who take their play seriously.

Riverwalk

It's by no accident that our rambling San Antonio River has become a focal point for our visitor industry. And around every bend are breathtaking vistas to be explored, by foot, or from one of our colorful floating taxis. From Brackenridge Park to the famed Arneson Theater, where, during the summer months, colorful performances are nightly fare, to historic La Villita and the spectacular River Center complex. Its banks overflow with restaurants and boutiques which are as reflective of San Antonio's multicultural heritage as life itself.



Missions and Museums

You'll enjoy choosing from our many unique venues for group functions and special events. Explore centuries gone by at our stately Spanish Colonial missions. Then there are the many ethnic displays at the Institute of Texas Cultures, including its impressive African American history wall. Plus, there's Texas wildlife, natural history, art, and more at special places like the Witte Museum of Art and the Southwest Craft Center. Come visit San Antonio, rich in tradition and multicultural heritage, exudes a spirit of warmth and sensitivity that compels people to visit, and return again and again. Making memories. Meeting people. That's what we're all about.

Market Square

Soak up the local color, culture, and cuisine of our exuberant Mexican Market. It's a little bit of Mexico, filled with crafts, foods, and fun. The mariachi musicians is king here, and the margaritas and fajitas are the crowning glories.

Come visit us!



Workshop Selections: Friday
Please complete and return with the registration form

SPECIAL WORKSHOP TOPIC SELECTION

Please indicate YOUR PREFERRED CHOICE for the four-hour workshop or for two 2-hour workshops in rank order. Workshops will be assigned on a first-come, first served basis.

FRIDAY, JUNE 5, 2009

8:00 AM - 12:00 PM

Workshop 8 - Dr. Preece

Radiology Curriculum - Teaching Strategies & Issues

8:00 AM - 9:55 AM

Please choose one

Workshop 5 - Dr. Moore

Interpreting Panoramic Radiographs

Workshop 6 - Faculty

Interpreting Periapical Radiographs

Workshop 7 - Faculty

Panoramic Trouble Shooting

10:00 AM - 11:55 AM

Please choose one

Workshop 5 - Dr. Moore

Interpreting Panoramic Radiographs

Workshop 6 - Faculty

Interpreting Periapical Radiographs

Workshop 7 - Faculty

Panoramic Trouble Shooting

Mail or Fax to:

The University of Texas Health Science Center
at San Antonio, Dental School
Continuing Dental Education MSC 7930
7703 Floyd Curl Drive
San Antonio, TX 78229-3900
Ph: (210) 567-3177
Fax: (210) 567-6807

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