Nitrous Oxide Oxygen Sedation
with David Donaldson, BDS, Fred Quarnstrom, DDS, Mark Donaldson, PharmD, & Evan McAllister, CRT

Dates: Saturday & Sunday, 12/1-2/2012

This course is part of the three-day Art & Science of Dental Sedation. This 2-day portion is designed to fulfill Oregon Board of Dentistry requirements for the Nitrous Oxide Sedation Permit (14 hours). This course also meets the recommendations of the College of Dental Surgeons of British Columbia, the American Dental Association, and the Association of the Canadian Faculties of Dentistry, for the teaching and administration of nitrous-oxygen sedation.

Our faculty specializes in adult learning by utilizing a multimedia approach which enhances knowledge and retention. Participants will learn various techniques and protocols designed to achieve certification in nitrous oxide/oxygen sedation. A patient-centered approach to care is emphasized with lecture on appropriate medication section, monitoring and practical emergency management. Case studies will augment the delivery of key points and a problem-based learning approach is encouraged so that each participant's questions are addressed.

Course Objectives:
• Describe the methods of obtaining a medical history and conduct an appropriate physical examination.
• Describe the basic components of inhalation sedation equipment
• Discuss the function of each of these components
• List & discuss the advantages/disadvantages & indications/contraindications of inhalation sedation
• List the complications associated with inhalation sedation
• Provide safe and effective anxiolysis and sedation using inhalation techniques
• Identify and describe areas of controversy regarding traditional dental relaxation methods and approaches to analgesia
• Describe adult anatomy and physiology of the respiratory, cardiovascular, and central nervous systems, as they relate to minimal sedation techniques.

Subjects Covered:
From Inhalation to Intravenous Sedation
Applied Physiology & Anatomy of Respiration
Incremental Induction techniques
Drug Interactions
Rapid Induction Technique
Nitrous Oxide and Oxygen Pharmacology
Contamination and Scavenging
Nitrous Oxide Complications / Contraindications

Pharmacology 101
Nitrous Oxide
Pain Theory
Patient Assessment
Nitrous Oxide Installation
Medical Emergencies and The Emergency Kit

Dates, times & location:
Saturday & Sunday, December 1-2, 2012   9:00 a.m. to 5:00 p.m.
Location: OHSU School of Dentistry

Credit: 14 Hours
Tuition: $1300 dentist & $600 hygienist

Out of state registrants must acquire a temporary permit from the State of Oregon to participate in the hands-on portion of the class.
This course meets the Oregon Board of Dentistry requirements for the Nitrous Oxide Permit. This course meets the recommendations of the College of Dental Surgeons of British Columbia, the American Dental Association, and the Association of the Canadian Faculties of Dentistry, for the teaching and administration of nitrous-oxygen sedation.

**Presenters:**

**David Donaldson, BDS, FDSRCS, MDS, FADSA,** received his dental degree from St. Andrews University in 1965, before going on to complete his Fellowship in Dental Surgery through the Royal College of Surgeons in Edinburgh in 1969. In 1971 he was granted his Masters Degree in Restorative Dentistry by Dundee University. Dr. Donaldson came to The University of British Columbia in 1970 to become the Director of Pain and Anxiety Control in the Faculty of Dentistry. His past appointments include Head of the Departments of Oral Biological and Medical Sciences, and Oral Surgery; past Chairman of the Canadian Dental Association Council on Education; and past President of the Association of the Canadian Faculties of Dentistry, and the International Federation of Dental Education Associations. Dr. Donaldson is a Professor and Head of the Division of Pain and Anxiety Control at UBC, and has a part-time practice on Vancouver Island, restricted to the treatment of chronic head and neck pain.

**Fred Quarnstrom, DDS, FADSA, FAGD, FICD, FACD,** received his dental degree from the University of Washington Dental School in 1964, and was a postgraduate resident in anesthesiology at Washington Hospital Centre in Washington, D.C. He is a Fellow of the American Dental Society of Anesthesiology, the International College of Dentistry, the Academy of General Dentistry, American College of Dentistry and a Diplomat of the American and National Dental Boards of Anesthesiology. He is certified by the American Association of Dental Consultants. Dr. Quarnstrom has published over 40 papers and two chapters, and lectured extensively on nitrous oxide oxygen analgesia and oral conscious sedation, and currently has a general practice in Seattle, He is on the faculty at the University of Washington and Faculty of Dentistry at UBC.

**Mark Donaldson, BSc (Pharm), PharmD, FASHP,** received his Pharmacology degree from the University of British Columbia and his Doctorate in Clinical Pharmacy from the University of Washington. He completed a clinical residency at Vancouver General Hospital and is the current Director of Pharmaceutical Services at the Kalispell Regional Medical Center near his home in Whitefish, Montana. He is a full clinical professor in the Department of Pharmacy at the University of Montana in Missoula, and a clinical assistant professor in the School of Dentistry at the Oregon Health & Sciences University. Dr. Donaldson is a continuing education speaker for the University of Washington, Washington State University, Oregon Health Sciences University, and the University of British Columbia. He has a special interest in dental pharmacology and has lectured internationally on a number of related topics for both dental and medical practitioners, and spent three years in Japan focusing on cross-cultural communication and internationalization. He has the two cutest children in the world.

**Evan McAllister, is a CRTT-CMGV,** serves as a consultant to University of Washington, Oregon Health & Sciences University and The University of British Columbia for medical-dental nitrous oxide sedation. Charter member of MGPHO (Medical Gas Professional Health Organization), PIPE (Piping Industry Progress and Education), WSSHE (Washington State Society of Healthcare of Engineering) and ASHE 6030 (American Society for Healthcare Engineers).