**Dental Equipment Maintenance, Repair & Safety: A Hands-on Workshop for the Dental Team**

Saturday, March 14, 2020

**Lynda J Young Conference Room • 6-410 Moos Health Sciences Tower**

8:00  Final registration and assembly. Continental breakfast.

8:25  Welcome

8:30  **Participant needs assessment**  
Mr. Dennis Steele & Dr. Steve Shuman

8:45  **Regulatory issues in dental office maintenance and repair**  
Ms. Teresa Ludwig
- Hazardous waste issues: amalgam separators, chemicals, lubricants
- Cleaning and disinfection recommendations
- X-ray inspection and repair requirements
- Maintenance record requirements

9:30  Question and answer session  
Ms. Ludwig

9:45  Refreshment break

10:00  **Big equipment tour: Checkpoints, maintenance & common problems**  
Mr. Steele
- Master switches
- Air compressor
- Vacuum pump and amalgam separator
- Dental chairs (cleaning, arms, auto program, travel limits, safety stops)
- Sterilizers

10:45  **Small equipment tour: Checkpoints, maintenance & common problems**  
Mr. Steele
- Dental unit & water bottles
- Handpieces & handpiece lubrication
- Foot controls & water switches
- High/low suction and hoses
- Air/water syringes
- Dental lights & bulbs
- Light curing units
- Scavenger valve
- Plaster trap & cast trimmer
- Ultrasonic units
- Eye wash station
- Recommended basic toolkit and supplies

11:30  Luncheon (included)
8 South Clinic

12:15 **Demonstration of common maintenance & repair procedures**
   Mr. Steele
   - Sterilizer gaskets
   - Air/water syringes: button and o-ring replacement
   - Handpieces: pressure, lubrication, gasket & hoses, fiber optic bulb, holder
   - Dental light, fiber optic handpiece light curing unit
   - High/low suction: cleaning and filter replacement, o-ring replacement
   - Ultrasonic unit: checking tips for wear/damage, o-ring replacement
   - Dental chair programming; seat lock limits and stops

1:00 **Repair practice stations**
   Mr. Steele & Dr. Shuman
   - Replacing sterilizer gaskets
   - Air/water syringe problems: leaks, clogs, loose tips, o-rings, buttons
   - Handpieces: switches, water supply, air pressure, gasket, noises
   - Dental light, fiber-optic handpiece, light curing unit
   - High/low suction: filters, o-rings
   - Ultrasonic o-ring replacement
   - Dental chair: programming, seat locks, limits and stops

2:45 Question and answer session

3:00 Adjourn
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Meet Our Experts

Teresa Ludwig, MT, ASCP, served as Health & Safety Officer and Environmental Health Specialist for Dental Engineering Services at the University of Minnesota School of Dentistry from 1998 to 2015.

Stephen K. Shuman, DDS, MS, Associate Professor and Director, Oral Health Services for Older Adults Program, Department of Primary Care, University of Minnesota School of Dentistry; Dental Director, Walker Dental Clinic, Walker Methodist Health Center, Minneapolis, Minnesota.

Dennis Steele, Diploma, Electromechanical Technology; Diploma, Electronic Technology; Additional certification, licensure, and/or training in refrigeration, low pressure steam, sterilizer repair, and dental manufacturers' service and maintenance; Mr. Steele recently retired from over 30 years as primary dental engineer for the University of Minnesota School of Dentistry, where he routinely serviced over 400 dental chairs and all associated dental equipment. He continues servicing dental equipment in the Twin Cities through his own business.

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