Control of Mercury Vapor Pollution in the Dental Operatory

**Name of Scientific Review:** Control of Mercury Vapor Pollution in the Dental Operatory

**Alternative name(s) of Scientific Review:** Achieving a Pollution Free Dental environment with the Utilization of a Sulfur Treated, Activated Charcoal Filtration System

**This Scientific Review is related to:** Dentistry

**This Scientific Review is a:** Procedure & Equipment

**Purpose of the Scientific Review:** To minimize the risk of mercury vapor exposure to both the patient and dental staff during amalgam removal procedures.

**Scientific Review History:** The IAOMT board approved the Scientific Review for Reducing Mercury Vapor Exposure to the Patient During Amalgam Removal (Ziff, DDS, 3/24/96). The use of one or both of the mercury specific filters discussed herein will facilitate item #12 - “Install room air purifiers or ionizers for everyone's well being” - in the description of that Scientific Review.

**A brief description of the Scientific Review:** The Bench Tap Filter #50B should be operated 24 hrs/day to completely eliminate all background mercury vapor by exchanging room air 25 times per day, or more depending upon the size of the operatory. The Chair Size 50C should be operated during the amalgam removal procedure and for approximately 15 minutes following the completion of removal or until the Jerome Mercury Vapor Analyzer, Model 431-X, demonstrate a mercury vapor level of less than 0.3 micrograms / m³ air.

**A specific description of this Scientific Review:** By Outline if appropriate.

**Manufacturer(s):** Euro Filters Limited, 30 Wren Court, Strathclyde Business Park Bellshill, ML4-3NQ, Tele: 01698-746-900, FAX: 01698-845-123

**Scientific Literature:** Contact Applicant

**Legal Aspects of this Scientific Review:** Positive

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**IAOMT Chapter:** North American