

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ  
СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ  
КАФЕДРА ІНОЗЕМНИХ МОВ  
ЛІНГВІСТИЧНИЙ НАВЧАЛЬНО-МЕТОДИЧНИЙ ЦЕНТР

**МАТЕРІАЛИ XI ВСЕУКРАЇНСЬКОЇ  
НАУКОВО-ПРАКТИЧНОЇ КОНФЕРЕНЦІЇ  
СТУДЕНТІВ АСПІРАНТІВ ТА ВИКЛАДАЧІВ  
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО  
ЦЕНТРУ КАФЕДРИ ІНОЗЕМНИХ МОВ**

**“TO MAKE THE WORLD SMARTER AND SAFER”**

(Суми, 23 березня 2017 року)

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
SUMY STATE UNIVERSITY  
FOREIGN LANGUAGES DEPARTMENT  
LANGUAGE CENTRE

**MATERIALS OF THE ELEVENTH  
ALL UKRAINIAN SCIENTIFIC PRACTICAL  
STUDENTS', POSTGRADUATES' AND INSTRUCTORS'  
CONFERENCE OF LANGUAGE CENTRE OF THE  
FOREIGN LANGUAGES DEPARTMENT**

**“TO MAKE THE WORLD SMARTER AND SAFER”**

(Sumy, March 23, 2017)

## SANDMAN FUTURA:

A. Nikolenko – Sumy State University, group SM 502  
O.I. Nefedchenko – E L Adviser

Micro air abrasion is a new modern method for removing decay and old fillings. It is used a fine stream of aluminium oxide powder and compressed air. Micro air abrasion was discovered in 1940 in USA. Sandman's unique patented whirl system and special hand pieces secure a unique precision and working condition of the aluminium oxide powder. Dentists can obtain optimal results using the unit with a working pressure between 1½ - 3 bars. In comparison, other systems are used pressure working area of 4 - 8 bars.

Scientists of Clinical Research Associates Newsletter lines pointed advantages of micro air abrasion: cut without need for anaesthetic; provide ideal way to treat patients who are afraid of needle or are sensitive to anaesthetics; allow treatment of lesions in more than one quadrant at the same appointment; remove organic plug to see if caries exists; eliminate noise, vibration and negative psychological connotation of dental hand piece; cleaning and preparation of tooth structure and castings for cementation.

Professor Lambrechts tested this modern equipment in 2005. He made a list of indications specific for using Sandman future: 1) Conservative cavity preparation including pit, fissure and tunnel preparation without anaesthesia. 2) Roughening of enamel, dentin and cleaning cavity before coronal restoration. 3) Removal of aggressive stains, smokers' discoloration and amalgam tattoos from dentin and enamel. 4) Removal of composites and adhesives. 5) Conditioning of metals, composites and amalgam for maximum bonding. 6) Conditioning of porcelain before silane treatment. 7) Previous to the application of lingual orthodontics. 8) Previous to the application of adhesive resin for prosthesis repair. 9) Facilitation of lab procedures. 10) Gloss reduction on instruments used under intense light. 11) Cleaning of rubber-dam clamps.

This new methods of treatment is suitable for every dental clinic because electrical connection is not necessary in using modern devices. The working pressure is controlled by the foot control.

Dentists consider Sandman Futura a new step in medicine.