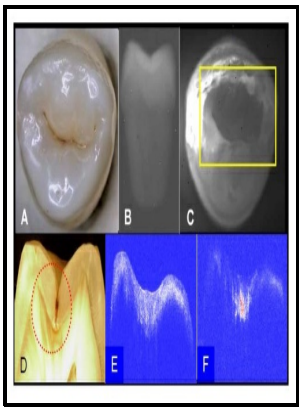
# Lasers in dentistry XI - 23 January 2005, San Jose, California, USA

## SPIE - Prof. Natalia Mikhailovna Shakhova Profile

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**Projection displays XI : 25**

Using this algorithm the datasets of all patients were processed and analyzed and the diagnoses were obtained. OCT was also used for intraoperative monitoring of zones around the tumor for adequate resection 31 patients. Diffuse Optical Tomography DOT is based on acquiring information from multiply scattered light which penetrates into the tissue up to depths of several centimeters.

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Changes of these indicators were compared then with tumor pathologic response.

**Prof. Natalia Mikhailovna Shakhova Profile**

The depth of thermal damage was measured as 38 micrometer plus or minus 22. Absorption peaks for amide I, II and III, carbonate and phosphate were identified. The use of liquid agents with different viscositites in PS-OCT imaging may help determine the severity and depth of caries lesions in the occlusal pits and fissures.

**Projection displays XI : 25**

Obtained optical data was analyzed to find general optical characteristics of scattered radiation in different types of tissue and revealing the major peculiarities in the spectral scattering coefficients of malignant tumors and their distinctions from benign tumors and healthy tissue.

**Dr. David Michael Harris Profile**

However, while OCT demonstrates a structural difference in the enamel in the region of the caries, this technique provides little insight into the source of this difference.

**Dr. David Michael Harris Profile**

We present pilot results in optical coherence tomography OCT visualization of normal mucosa radiation damage. Previous studies have demonstrated that Polarization Sensitive Optical Coherence Tomography PS-OCT can be used to image early dental caries. Photo-cured dental composites are widely used in dental practices to restore teeth due to the esthetic appearance of the composites and the ability to cure in situ.

**Lasers in dentistry XI [electronic resource] : 23 January 2005, San Jose, California, USA in SearchWorks catalog**

We have obtained the feasibility to estimate the degree of caries and health condition by deriving the ratio between Raman and florescence intensity. The aim of this paper is comparative study of the feasibility of two optical methods - fluorescence spectroscopy and optical coherence tomography - for visualization of borders of neoplastic processes in the uterine cervix and vulva. Based on results of clinical examination of about 200 patients we discuss capabilities of the optical coherence tomography OCT in monitoring and diagnosing of various pathophysiological processes.

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An endoscopic OCT device adjusted for gynecological examinations with colposcopy, hysteroscopy and laparoscopy has been developed at the Institute of Applied Physics. Optical coherence tomography OCT is a promising tool for providing imaging of biotissues with high resolution at depths up to 2 mm.

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