Abstract Submitted
for the DPP17 Meeting of
The American Physical Society

Atmospheric Plasma Blade for Surgical Purposes LUTFI OKSUZ, Suleyman Demirel University, GOZDE YURDABAK KARACA, Department of Chemistry, Faculty of Arts and Sciences, Suleyman Demirel University, EMIR ZKAPTAN, EMRE UYGUN, Teknopark, Plazma Tek., Suleyman Demirel University, AYSEGUL UYGUN OKSUZ, Department of Chemistry, Faculty of Arts and Sciences, Suleyman Demirel University — Atmospheric plasma cut is a process at the minimum level due to the ions, radicals and free electrons generated by the active electrode and target tissue. Atmospheric plasma cutting devices provide significant advantages as a non-contact electrocautery system that can operate in isotonic environment. During operations where plasma cutting is applied, bleeding is controlled and the side effects that would create the isotonic environment are eliminated. In this study in vivo and in vitro studies will be carried out by producing and optimizing the atmospheric plasma blade. Once the optimum parameters of the instrument are determined, in vivo studies will be performed and the pathology results will be evaluated.

Lutfi Oksuz
Suleyman Demirel University

Date submitted: 14 Sep 2017 Electronic form version 1.4