

## S2-P.3

# Acid Corrosion Inhibitor from Tobacco Waste for Steel of Oil Pipes

Yu. A. Mirgorod<sup>1</sup>, A.M. Storozhenko<sup>1</sup>, and E.P. Condrea<sup>2</sup>

<sup>1</sup>*Southwest State University, Regional Centre of Nanotechnology, Kursk, Russia*

<sup>2</sup>*Institute of Electronic Engineering and Nanotechnologies, Chisinau, Moldova*

A technology of an acid corrosion inhibitor production for steel of oil pipes has been developed. The inhibitor is obtained by extracting nicotine and related substances with an aqueous solution of benzoic acid from tobacco waste. Extraction, chromatography, mass spectrometry, weight and electrochemical methods were applied as research methods for determining inhibitor effectiveness.