Competences (Research) Center: Interfaces - Tribocorrosion and Electrochemical Systems (CC-ITES).

Offer name:	Preparation and evaluation of the effectiveness of corrosion inhibitors for different use environments
Description	Consultancy, expertise, technical assistance in preparing and evaluating the effectiveness of corrosion inhibitors for different environments. The use of corrosion inhibitors is an effective method of corrosion protection of metallic materials against liquid aggressive media. Adding inhibitors to the corrosive environment reduces corrosion rates by slowing the anodic or cathodic process by changing the nature of the corrosion products or by changing the ohmic resistance of the electrolyte. Depending on the metal material to be protected against corrosion and its working environment, various corrosion inhibitors from plant herbal extracts (garlic, onion, aloe vera leaves, etc.) can be prepared and evaluated within our research center. The evaluation of the effectiveness of corrosion inhibitors for different use media (acidic, basic) can be done by various electrochemical methods such as Open Circuit Potential (OCP), Electrochemical Impedance Spectroscopy (EIS), Potential Dynamic Polarization (PD) linear polarization and cyclic voltammetry (CV). Figures 1, 2, and 3 show the preparation and evaluation of corrosion inhibitors
	Fig. 1 Fig. 2 Fig. 3
Resposible	Prof. Univ. Dr. (Ph.D.) Chem. Lidia BENEA. Competences (Research) Center: Interfaces - Tribocorrosion and Electrochemical Systems (CC-ITES). Dunărea de Jos University of Galati.
Contact	111 Domnească Street, Building AN, Room AN 012, 800201 Galati, România E-mail: Lidia.Benea@ugal.ro