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ВИВЧЕННЯ ВПЛИВУ КОРОЗІЇ НА ПЛАСТИЧНІСТЬ СТАЛІ У ПІДГОТОВЦІ СТУДЕНТІВ-КОРОЗІОНІСТІВ ТА СЛУХАЧІВ МАЛОЇ АКАДЕМІЇ НАУК

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INVESTIGATION OF CORROSION EFFECT ON STEEL STRENGTH IN STUDENTS – CORROSION SCIENTIST AND THE MINOR ACADEMY OF SCIENCES LISTENERS TRAINING

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Training of "Technical electrochemistry" engineer-technologists on specialty "Corrosion and metal protection" requires from students study a number of natural and engineer-technical disciplines study. To improve a quality of study material understanding in the NTUU "KPI" pay a special attention to laboratory works. The overall duration of laboratory works in special courses is more than a half of all study time. A great value in engineer-technologists studies have a works which connect with real plant or equipment. Inclusion of science-research elements in laboratory course give students an opportunity to use of theoretical knowledge in practical problem solving. In corrosion-engineer training a particular importance have a corrosion influence on steel plasticity. Preparing and execution of such work requires repeating and usage of theoretical material and laboratory technique. This help students understand a conventional division of scientific world picture on different separate study disciplines and practical needs to find real problem solving in sciences conjunction. Experiments execution and data analysis give a possibility to combine knowledge of inorganic and physical chemistry, science of materials and resistance of materials. At the same time this laboratory work is simple and obvious which allow adjusting it for senior pupil. Today the Technology of electrochemical plants department has an experience usage of "Influence of acid corrosion on steel plasticity" laboratory work to bringing in science work pupils of school №177 (Kiev), which successfully pass a regional competition for Small Academy of sciences listeners. This promising trend may be use as a purposeful element of school graduate preparing to enter in chemical-technology faculty.
Key words: specialists training, school graduate preparing, laboratory works, corrosion, steel plasticity.