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MEANS OF CONNECTION AND COMMUNICATIONS: HISTORICAL AND PEDAGOGICAL ASPECTS

Modern life is impossible without achievements in physics. Electricity is an integral part in production, society and public life. That's why study of fundamental and applied physical disciplines is quite natural, as for student they are interested in applied meaning of famous scientific facts in the historical context.

The idea of using historical material during study of specific educational material is not new and has been developed quite well. At organization the educational process in physics this problem was considered by scientists and methodists such as P. Atamanchuk, A. Bugaev, S. Goncharenko, S. Velichko, E. Korshal, V. Sergienko, N. Sosnitskaya, M. Shut.

We think that in the process of study physics very interesting is consideration questions of origin and development of means of connection and communications, which we have presented in the article. We believe that given material is interesting and can be useful for students of physical departments of pedagogical universities and school teachers with a view to diversify the educational process in physics.

The history about the phone is a story about attempt of people to contact at a distance with the help of technique. The telephone had been invented much later, about forty years than telegraph. In 1976 the whole world celebrated the 100th anniversary of telephone invention. In 1876, on February 14 the american man of scottish irigin Alexander Graham Bell gave to the Patent Office in USA application for invented by him apparatus, which was colled a telephone. In two hours the same application gave another american man by name Grey. Until that time many experts argued as for recognition of copyright in the lelephone invention, but everybody knew that Bell was much better than Grey familiar with theory of acoustics and physics of human speech.

The computarization of telephony which is colled also computer telephone integration allowes to combine different networks, systems of transmission, switscing, and terminal devices. This period in the history of telephony is characterized not only radical character of changes which take place, but their high rate which incresed for the last time. There have been appeared systems and networks with integration of service. In our days are succesgully developed such additions as mobile connection and also networks of subscriber access. The direction of computer telephone integration has contributed to building of single programm-apparatus platforms with

In the process of study the historical sources of the forming and development of communications, we have concluded about the necessity to study specific physical laws, phenomena and processes, not only in applied point of view, but also in close conjunction with certain historical events. This approach enables a deeper understanding of the way of scientific research, with all its contradictions.