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SOURCE Borba.

INSTITUTE CONDUCTS RESEARCH IN ULTRASONICS

The "Nikola Tesla" Institute of the Serbian Academy of Science was built more than 3 years ago on an isolated ridge on the outskirts of Belgrade toward the Danube River. The location provides the visibility needed for work with microwaves, a suitable location for the observatory, and a quiet atmosphere for scientific work in radio technology and telecommunications.

The building is equipped according to the latest requirements of modern science and technology. The machinery and laboratory instruments are supplied with electric power by cables laid in narrow channels in the floor.

The management of the institute answered questions pertaining to completed projects, but was unwilling to discuss projects not completed or not developed as expected.

In addition to other work the radio technology section conducts research into and analyzes various Yugoslav-made electrotechnical material needed by the radio industry. Close association is maintained with all Yugoslav institutions concerned with the manufacture of new finished and semifinished products.

The institute is not only working on solving the practical requirements of the Yugoslav radio industry, but also on scientific problems of interest to both Yugoslav and foreign scientists. Research on Yugoslav mica was completed recently, and various radio parts were made from mica which have proved excellent.

The radiation and diffusion of electromagnetic waves is being studied now, with special work being devoted to charts on radio-wave transmission, without which it is difficult to develop a plan for the distribution of radio stations and the establishment of new ones.

The telecommunications section of the institute is interested in technical acoustics, ultrashort waves, interior acoustics, and ultrasonics; the last has unlimited possibilities in medicine, industrial production, and agriculture.

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The institute has achieved significant results in measuring ultrasonic waves and making them visible, using a special apparatus designed in the institute. This apparatus is to be tested further under changed conditions, such as temperature changes, etc.

Tests have already been completed on the first Yugoslav ultrasonic generators designed in the institute. One is for doctors and the other for veterinarians in Belgrade. As soon as clinical testing is completed, serial production of the generators is to begin. Work is also in progress on a generator for testing materials.

The Ljubljana Institute for Electrocommunications has completed work on an ultrasonic generator for washing clothes, which is to be produced serially. With the aid of the generator clothes need only be soaped; they will then be washed without having to heat water and without any rubbing. -- Lj. Isakovic

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