

**Control Systems for Technological Linacs,**  
V. BORISKIN, NSC KIPT, Kharkov, Ukraine - Recently Kharkov Institute of Physics and Technology has designed and constructed several linear electron accelerators. To monitor the operation of these accelerators the control system has been developed. This system provides the control of the current, electron beam energy and location, as well as system parameters control and protection of the accelerating and scanning systems from the beam radiation; the modulator and klystron amplifier locking during the inadmissible operation regimes; the current adjustment in the magnetic system feeders; phase and power control of the HF-signals in the injection system; the control of the industrial object irradiation dose; and the target equipment monitoring. The technical program complex consists of PC equipped with CAMAC crate or measuring channels in the PC standard. The measuring devices provide receiving the signal from the analogy pulse probes with the 50 or 100 nsec discreteness by two or four commutating channels simultaneously. The CSL software packet allows the control system to operate in both automatic and manual regimes. The information of the accelerator systems state and the beam parameters is displayed on the local unit terminals and on the color graphics display in the form of the triple-screen control panel. The operator can monitor the work of the accelerator from the PC keyboard and from the local control panels.