Retiring from CERN after 34 years, Jan Madsen has had a major influence on the operation and control of the Laboratory's accelerators. Arriving in December 1962 with considerable experience in the operation of high-flux reactors in the Netherlands, he was one of the very first engineers in charge of PS operation. As early as 1965 he undertook responsibility for the "Controls" group, covering not only control and operation but also beam instrumentation, radiation safety, communications, experiment targets and the electronic workshops. PS operation developed considerably under his management to embrace beam extraction to external targets and injection into the ISR. From 1974 he took a leading part in the "cultural revolution" involving computerized