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# Summaries and Notices

## Summaries

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### New Radiopaging and Mobile Telephone Services in Switzerland

F. Müller, Berne

In 1958, the car radiopaging opened the first radiopaging service in Switzerland. This service was complemented at first by the national car telephone network (Natel) and later by the frequency coded local paging networks in the cities of Berne and Zurich. Due to the rapid development of service demand a modern radiopaging concept was conceived. It is based nationally on the Eurosignal and on a new code for local service. This article describes the methods of application of both systems with their different searching and calling possibilities. It also illustrates the new mobile telephone system based on cellular design, the choice of frequency bands, the possible developments of customer demand as well as questions of tariff. The article concludes by stating the objectives of the extension of these services.

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### Modern Shortwave Receivers for Radio Listeners

M. Schneider, Berne

The shortwave broadcast frequency bands were extended at the WARC-79 (World Administrative Radio Conference in 1979). These frequencies will be planned at the HF broadcasting conferences in 1984 and 1986. However, this new plan will only be implemented after it comes into force. After a retrospective view, the author provides the characteristics of a range of current shortwave receivers. It is shown that the requirements can be met for several groups of shortwave listeners. The performance of these receivers can be substantially improved such as in image frequency rejection, selectivity and demodulation. The paper ends with a proposal.

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### Degradations and Quality of Transmission in the Digital Network

A. Käser and P. A. Probst, Berne

The digitization of the transmission systems is pursued actively. The installed systems will have to support the future integrated services digital network (ISDN). Therefore, it is necessary to state

the specifications of transmission quality which shall also meet the future requirements for the currently constructed facilities. Quality specifications of the digital transmission network were laid down on

the basis of the recent CCITT Recommendations. The transmission characteristics of the currently employed Swiss network meet these requirements. These are concerned with error, jitter, drift and slip.

## News Items

### Post

The **19th Congress of the Universal Postal Union** was opened on 18 June 1984 in Hamburg, Federal Republic of Germany. 167 member countries took part in this congress. Several questions were treated such as the rationalization and improvement of the Union's working methods, the application of new technology, the improvement of the quality of postal services, settlement of basic postal tariffs, simplification and speeding up of postal customs, development of postal money service, maximum utilization of airways for postal delivery, among others.

Swiss PTT is introducing the **post cheque** service from 1 September 1984 onwards. This will allow the owner to cash a certain amount of money at the national and foreign post offices as well as to pay with cheque at shops, restaurants, etc.

### Telephone

On 12 July, the PTT put into operation the **34 Mbit/s pilot installation of minicoaxial cable**. This project took 4 years of development. The pilot facility of Zurich/Herdern-Kusnacht consists of two systems with 4 circuit termination equipment and 14 two-way repeaters.

An operational trial shall be conducted with **itemized telephone billing** in **Lucerne and Lausanne**. It will include the number called, the time, the duration and charge of telephone calls.

During the 2nd quarter of 1984, **14,600 lines for telephone subscribers** came into operation because of new equipment and extension of the exchanges.

### Teleinformatics

The PTT decided to offer customers a price advantageous additional telex terminal **SP-300-E** (E for economy).

The official **telex directory** of 1984/85 has been published. Simultaneously, a pamphlet was issued describing the new **Memo-telex** service in more details.

On 6 July, the **telex service to Norfolk Island** (South Pacific Ocean) was opened via manual exchange of Radio Suisse Ltd.

The first **Swiss 34 Mbit/s leased circuit with optical fibre cables** was taken into operation between two computer centres of a large banking corporation in Zurich.

The PTT gave contract to an Institute in Basel to chose information users for the **Videotex system** (CEPT standard) according to various criteria. At the same time from 1 September, a scientific investigation was started. The results will help to decide in the second half of 1985 whether to introduce Videotex as a new public service.

In spring 1985, the present operational **Telepac-Software** will be replaced in all 8 exchanges. This will allow considerable new and extended packet data service to all subscribers.

### Radio, Television

At present, the 10 transmitters of the **3rd VHF/FM radio programme** for the Swiss Broadcasting Corporation cover 75 pc of the German and Romansh speaking area of Switzerland.

At the **multipurpose Santis station** extensive reconstruction work is being carried out on the **polyurethane cladding**.

The **multipurpose Celerina station** was equipped with new **car paging transmitters** to cover upper Engadine.

The new **multipurpose Saint Chrischona station** was officially inaugurated on 2 August 1984.