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## Summaries

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### Telephone Set with Built-in Electronic Call-charge Indicator (Model 70)

M. Cimeli and P. Beiner, Solothurn, and B. Mühlethaler, Berne

The Swiss PTT has introduced the touch-tone set with built-in electronic call-charge indicator for meeting many customers' demand for special telephone sets. This set has the advantage of displaying the call-charges in progress. Beyond a general description this paper outlines the functional capabilities, construction, block diagram and installation procedures of the new set.

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### Communications Planning Directives and Data Communications Concept of the PTT for 1980s

A. Kündig, Berne

The PTT has defined its position in relation to the customer requirements, technology, economy, standards, legal and political aspects within the framework of communications planning directives. In addition, it has outlined the general direction of teleinformatics services within the concept of data communications.

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### Fabrication of Optical Waveguides for Transmission of Signals

J.-P. Pellaux and J.-F. Zürcher, Cortaillod

The fabrication of optical waveguides is described after a short introduction on the transmission technology of glass-fibre and the fundamental procedures. At first, a preform is prepared by depositing silica layers with a controlled amount of germanium oxide. This is accomplished by four deposition processes: outside, inside, activated by plasma and axial, all in the gaseous phase. Afterwards, the preform is vitrified and elongated to the required diameter of the fibre. The advantages and disadvantages of the different procedures are still mentioned as well as the future perspectives of the transmission by glass-fibre.

## News Items

### Telephone

The Swiss PTT's **telecommunications department** canvasses in 1983 for the first time in an all-out campaign for the **telephone service**. The objective is to remind the customers of the simplest and quickest means of communications: the telephone.

The **Swiss telephone network** consisted of 107 351 (+3375) interoffice circuits, 76 309 (+2257) junction circuits, 47 038 (+2163) trunk circuits and 15 380 (+1310) international circuits at the end of 1982.

The **telephone service No 191** for IDD enquiries will provide only without charge from 1 to 5 addresses asked simultaneously with the call numbers from 1 April onwards. If a customer wants more than 10 call numbers or addresses he must send a written request. He will be charged the service cost.

Swiss subscribers used **IDD service** on 99.2 pc of their international calls in 1982.

At the end of 1985, a **cable system** will become operational connecting **South-East Asia** to the **Middle East** and the **Western Europe**. The Swiss PTT intends to take part in the system.

### Teleinformatics

«**Memo-Telex**» is the name of the new «store and forward» telex message service which will be introduced on a trial basis in summer 1983.

The Radio-Suisse Ltd operated **1000 telex channels with overseas** at the end of 1982.

Over the **Data-Link** of the Radio-Suisse Ltd the customers now have access to

those data banks that are reachable on the data network of the **Uninet** (Kansas City).

The **Universal Telex Adapter**, developed by the Radio-Suisse Ltd, allows complete automatic access to the worldwide telex network from any kind of computer, text or automated teletype-writer. Already 500 such adaptors have been ordered.

### Radio, Television

At the end of 1982, **radio transmitting licenses** rose to 64 682 and **licensed transceivers** went up to 164 626, corresponding to growth of 22 pc and 18 pc.

Last year, the PTT district offices dealt with 9396 (1981: 8721) **notifications on interference of radio and TV receivers**, of which 2936 radio, 6008 TV and 452 other wireless services.

At the **World Administrative Radio Conference for Mobile Services** (Geneva, 28 February—8 March 1983) the Swiss proposal was considered demanding **better identification of ships and aircrafts of neutral states and medical transports**.

On 1 March 1983, the **Natel** (national car-phone service) parallel regional network B 5 was taken into operation in Tessin. The coverage area is identical with the A 5 regional network.

### Miscellaneous

The **volume of PTT business** last year increased by 3.8 pc (+3 pc in the postal service and +4.5 pc in telecommunications). During the same period the PTT employed on the average 54 373 (+2.6 pc) persons, 15 378 persons worked in the Telecommunications District Offices or 496 more than in 1981.