

# Summaries and notices

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## Verschiedenes

Das **Telefon im Zug** wollen die PTT zusammen mit den SBB verwirklichen. Ab Fahrplanwechsel 1987 sollen die Intercity-Züge auf der Strecke Genf-Rorschach mit Telefon-Münzapparaten in den Speisewagen verkehren. Das Telefon wird in das Natel-Netz integriert.

Zwischen der **Schweiz und den USA** sind über die Satelliten-Bodenstation Leuk erste Versuche mit **Videokonferenz** erfolgreich durchgeführt worden. In Zürich wurde ein ständiges, in Bern ein mobiles Videokonferenz-Studio eingerichtet.

## Divers

Avec la collaboration des CFF, les PTT veulent installer le **téléphone dans les trains**. A partir du changement d'horaire de 1987, le wagon-restaurant des trains Intercity de la ligne Genève-Rorschach sera équipé d'un appareil téléphonique à prépaiement. Le téléphone sera intégré au réseau Natel.

Les premiers essais de **vidéoconférence** entre la **Suisse et les USA** par le canal de la station terrienne pour satellites de Loèche ont été couronnés de succès. Un studio permanent de vidéoconférence a été aménagé à Zurich et un studio mobile à Berne.

## Diversi

Le PTT vogliono realizzare, in collaborazione con le FFS, il **telefono in treno**. Dal cambiamento dell'orario 1987, le carrozze ristorante dei treni Intercity tra Ginevra e Rorschach saranno dotate di apparecchi telefonici a prepagamento. Il telefono verrà integrato nella rete Natel.

Tra la **Svizzera e gli Stati Uniti** sono state eseguite con successo le prime prove di **Videokonferenz** per il tramite della stazione terrestre per satelliti di Leuk. A Zurigo è stato installato uno studio di Videoconferenza fisso, a Berna uno studio mobile.

# Summaries and Notices

## Summaries

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### Switzerland's first 565 Mbit/s transmission equipment

J. H. Buijs, Huizen, P. Glanzmann, Zürich, and W. Steinlin, Berne

In August 1984, the coaxial cable Zurich/Herdern to Winterthur/Seen was equipped with 565 Mbit/s transmission system. This is the first equipment in operation for the CEPT hierarchy 5 in Switzerland. Besides the usual tests required for opening service, further tests such as addition of phase jitters and interfering signals on the system performance were conducted. The equipment as well as the measurements are described. The digital 565 Mbit/s equipment from the AT&T and Philips Telecommunication Co serve to transmit simultaneously four plesiochronous 139.264 Mbit/s bit streams over a 2.6/9.5 mm coaxial cable. The system consists of multiplexer and transmission equipment. The signal is regenerated at a spacing of 1.5 km.

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### What is antistatic flooring?

C. J. Nadler, Berne

The meaning of the expression 'antistatic' is investigated in connection with flooring materials. Depending on the point of view the meaning of the term is different. There is the risk of choosing the wrong flooring material if the designation is not precise. The flooring material can be called antistatic even though it is not providing sufficient protection against interfering electrostatically charged dust particles according to former custom. The paper describes different aspects of protection levels and protected environment for the sensitive electronic components and equipment.

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### Telephone traffic forecast for the planning of groups of junction lines

H. Zobrist, Berne

The paper explains the mathematical basis of the forecasting methods for plan-

ning of groups of junction lines. It also illustrates the most important APL programs soon available to all regional telecommunications directorates.

## News Items

### Telephone

The PTT is definitely incorporating in its assortment of telephone sets the **Portatel** as **cordless telephone** which was developed and manufactured in Switzerland. The first series of 10 000 sets were ordered for delivery in 1986.

For the telephone answering and directory service of the **Terco project**, the higher performance IBM 3033 system was installed in Lucerne. It replaces the ten years old IBM 370-158 system.

**Glass-fibre cables** were laid between Sitten and Leuk earth station as well as between Freiburg and Avenches. **Coaxial cable** systems with a capacity of 60 MHz/140 Mbit/s was brought into operation between Berne/Ittigen and Lausanne/Préville via Freiburg-Bulle.

In July, **6 new permanent satellite circuits** came into operation via Leuk earth station. These are: the USA (3), Taiwan (2), Singapur (1).

### Teleinformatics

For the **spread of teletex service**, several days of presentation will take place at all the regional telecommunications directorates. Information will be given on this new service and demonstrations will take place with the available terminals.

The first **teletex/telex converter**, which permits automatic working between teletex and telex services, is accepted for operational trial in Zurich.

The **remote printer Panafax UF-400** was selected as a new PTT set for the teletex

service. It will be employed from October onwards.

The possibility of «closed user groups» in **videotex system** will be realized within the Berne and the Zurich exchanges in mid-August.

### Radio, Television

The **regional studios of Lausanne and Lucerne** are connected via radiorelay link with the **national television network**. This will allow current events to be broadcast promptly via national language studios.

The **ECS antenna at Leuk earth station** was taken into operation for the **exchange of programmes** within the **member countries of the European Broadcasting Union** at the end of July. The opening of telephone and data services is foreseen for the end of the year.

On 1 July, the **new radio paging exchange in Berne** started its operational trial for the combined local paging and Eurosignal services.

The PTT together with the SBB (the Swiss federal railways) will introduce **mobile payphones on trains**. These will be installed in the intercity trains between Geneva and Rorschach starting with the new time-table of 1987. The phones will be located at the dining-car. They will be connected to the national carphone **Natel** network.

The first trial with the **videoconference** was successfully conducted between **Switzerland and the USA** via satellite earth station Leuk. A permanent videoconference studio was installed in Zurich and a mobile studio in Berne.