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## Summaries

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### The PC Application «Transport Service»

H. Zimmermann, Berne

There are 7300 vehicles available at the telecommunication services of the PTT to handle the manifold transportation tasks. An organisation is necessary for the planning and the economical operation of this large fleet of vehicles which must have at its disposal at all times detailed documentation about the type and equipment of each individual vehicle as well as about its assignment and use. Since the beginning of this year all necessary assignments and technical data of the allotted fleet of vehicles as well as information regarding drivers are managed in the PC Application 'Transport Service'. This electronic data processing solution is described in the article.

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### TelcaStar – A System for Public Pay Telephones

A. Nyffenegger, Gümligen

The new TelcaStar System for public pay telephones offers to the user more comfort and to the management a solution which is more favourable with regards to cost. The new pay telephones accept all coins from Fr. —.10 to Fr. 5.— and the tax card. In addition they are equipped for future solutions for paying without cash. With the introduction of the remote servicing and management systems (MEMO), the telecommunications administrations are able to organise the operation and maintenance for the pay telephones in a more economic way. The linking of the MEMO systems enables a central servicing for the whole of Switzerland. The system was tested in 1988 and has been put into operation in all telecommunication administrations since the beginning of 1990.

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### Development of an Optimum Refractive Index Profile for Monomode Glass Fibres

F. Cochet and B. Leuenberger, Cortaillod

By transmissions with monomode glass fibre cables in the third window (1525–1575 nm) the fibre bendings play quite a relevant role with regard the attenuation and the chromatic dispersion of the light in a cable. The authors have carried out a study which allows to optimize the mono-

mode glass fibres produced in Switzerland in the second and third window. Two refractive index profiles were found; the one not adapted with small mode field diameter and the other adapted with a

## News Items

### Telephone

The following new **radio links** were put into operation: **Delémont—Porrentruy** and **Chur—Ruschein(—Illanz)** with transmission capacity of 140 Mbit/s each; **Disentis—Ruschein** with 34 Mbit/s and **Andeer—Lohn** with 8 Mbit/s; furthermore **Laufenburg/TZ—Laufenburg (D)** with 2 Mbit/s and the temporary radio link connections **Wettingen—Baden/FZ** and **Château d'Oex/TZ—Château d'Oex/TVU** with 2 Mbit/s each.

New **base stations for Natel C** were put into operation in **Epalinges, Oberwil/BL, Lohn and Splügen**.

A digital **IDR carrier** (Intermediate Data Rate) with a capacity of 2 Mbit/s (corresponding to 120...150 telephone channels) was connected between the satellite earth station **Leuk** and the **United States** via an **INTELSAT**-satellite.

With the connecting of the **new traffic plan** for TDMA in the **Intelsat** region of the Indian Ocean the number of lines at the disposal of Switzerland on the satellite 60° east has increased from 182 to 257. Since such a line can transmit up to four calls depending on the type of digital circuit multiplication used, there are a total of about 700 conversation channels available with the twelve countries concerned.

### Teleinformatics

The **Telepac-Service** was newly opened with the following countries or networks, respectively: **Faeroe Islands, India, Colombia, Papua New Guinea, Peru, Togo, Chad, Tunisia** and **Turpak/Turkey**. Thus 122 networks in 78 countries are available to the Swiss **Telepac** customer.

### Radio, Television, Radiocommunications

A new FM stereo radio station, **Dornegg**, supplies the **Bernese Oberaargau** region with the **DRS 1** programme and the **Berne/German Freiburg/Oberwallis** regional news. New FM stations were also connected in **Chandolin** for the **RSR 1** to 3 programmes.

At the **Uetliberg** station and in **Ravoire** new **television stations** were put into op-

eration by the **Rohde & Schwarz** Company as replacement for obsolete equipment.

## Miscellaneous

The **Intelsat I** satellite, more familiar under the name **Early Bird**, was brought into its orbit 25 years ago on the 6th April 1965. With this event the number of possible simultaneous overseas telephone calls – between Europe and United States – abruptly increased threefold. In addition television direct transmissions between continents were made possible and the first commercial TV transmission took place on 2nd May 1965.

On the 1st March, the **Swiss PTT US Liaison Office in Washington DC (USA)**, officially began operating. In a first phase the interests of the PTT will be looked after by the consulting firm **K. Schaefer & Associates**. With this representation the PTT aims to fulfill the increasing demands and the ever increasing competition in the international telecommunications market.

An **extraordinary meeting of the CCIR** closed in Atlanta, Georgia (USA) with an agreement over additional parameters for the acquirement of **studio standards for the high definition TV (HDTV)**.

The **Board of Signatories of Eutelsat** met in Paris and passed the **Romanians'** application for membership to the European telecommunication satellite Organisation for approval by the Assembly of Parties. Furthermore Eutelsat was authorized by the Board to speed up the preparations for the commercial introduction of the **Euteltracs** land mobile position-reporting and messaging system.

The **6th Technical Assembly of ETSI** adopted the cooperation contracts with CENELEC, ECMA and EBU for the 7th general assembly. Furthermore the annual programme and long range programme was brought up to date. Further items on the agenda concerned among others the **ISDN Standards Management Committee (ISM)** programme for which improvements were adopted.

The **PTT museum** in Berne will be reopened on the 24th of June for the public at its new location, **Helvetiastr. 16**.