Education

Computer Training In Schools

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DHYSICS is on the cunsiculum for a class of 11 year-olds at Elisabeth vor. Thuringen Gymna-/sium (high schooi) in Cologne.

Thirteen pairs of eyes follow a trolley that rolls along an artificial track-according to the principles of "constant acceleration".

The physics room's equipment includes a data point with the most modern computer technolo. gy. Discs: interface; screen and print-outs are part of the apparatus for experiments.

A computer helps in the experiments working out swiftly the mathematical formula that lays down the movement of the trolley

Previously it would have taken six hours to work out these calculations from the physics textbook. In the age of the computer it took 45 minutes.

Physics teacher Horst Gohler said: "It makes everything more interesting; the pupils are motivated".

But the physics department is not alone in being delighted with the new technology. Biology and mathematics are being taught more and more with the use of computer screens all over the country.

In Baden-Wurttemberg nincty per cent of gymnasiums have computera.

In Bavaria three out of four gymnasiums and comprehensive schools have basic computer Rhine equipment. In North Westphalia every second gymnasium has a computer.

A lot of money has been handed out by the central government and the states for this têchohological advance.

Taxpayers' money to the tune of DM 52 million has been proimmediate future DM 25 million girls and teachers; attach future carding to the agenda; was how will be earmarked for computer ocustomers to a specific producer

The introduction of the com! gards new technology. puter into the classroom has not come about through the efforts of the teaching community but has been the result of educational policies that have an eye development to technological

and are led by economic inter-

ests. Minister (CDU) said at a conference on education and the computer in ! March that West Germany wanted this

She linked information technology with "hopes for econoleisure and a more pleasant quality to daily life."

Along with the Federal Minister for Research and Technology Heinz Riesenhuber (CDU) she wants to see more and more computers introduced into. school as soon as possible She believes there is no alternative.

Computer proxlucers have not the message in September the central association for the electronics industry and the West German association for engineer. ing and installations formed a promotional association for computers and education. The laim of the association is "to take immediate measures for the incorporation of information and communications technology school training.

· Member companies have alrea-A brochuse dy been active. from the Education Ministry says strongly promoted. He said that that one Frankfurt firm has supplied 90 elementary schools each with four computers including accessories and program- pibility to use leisure time "

A Bonn computer manufactur. ment er has said to is willing to loan a computer expert for education can help is the state institute al purposes and is considering supplying "computers and com-cition in Soest; North Rhineputer equipment worth DM50);000 for 'the project''.

learned their tessons well. The the theme; written in chalk on commercial aims of these endea. the blackboard; "Data processing vours are to awaken a consumer. and organisation studies" need among school-boys and technology in vocational training, and demolition anxieties as re-

Computer producers are not the only ones benefiting from Bonn's programme to "de-mystity the new technology"; as announce ed by Minister Wilms.

for chemistry and physics instruction are benefiting. Manu-Dorothee Wilms; Education facturers of training equipment for chemistry education; with chemistry labs already equipped: are forgetting their past fears about future business and are filled with new hope.

Gunter Gauf; marketing mana. mic growth new jobs; more ger of a Cologne educational equipment manufacturer makes no secret of the fact that computer, are getting a lot of buyer attention because "additional experiments are possible." means that additional new equip ment is necessary.

The Bonn government is satisfled: A spokesman said: appeal is falling, on fecund ground. Further action is expected".

It is unclear from this government statement how computer technology is to be introduced into the educational system It could develop into just paying lip service to the concept

Imme de Haan; a media expert from the Evangelical Church's public relations department said that with increased computerisation it was essential that social factors should be more these included; apart from 50. lidarity; "intuition spontaneity; creativity and particularly ca-The total donation Only then; he maintained; was amounted to one million marks there any sense in this develop-

One of the establishments that for teaching and further eduteachers Westphalia Fifteen fiom commercial and vocational Computer manufacturers have training schools met to discuss

One aim of the discussion; acticularly new-technology-minded with computer technology.

manufacturer offered the best employment" best discount

Manufacturers of equipment discussion did not linger long

over the question whether the new technology developed "more rivalry rather than social instruc tion; more standardisation rather than creativity more dependence on computers rather than development of the individual".

Despite "educational concepts" computers and the divisions have created among computerised teachers and the others experience has shown that "schoolboys" and girls are much better geared! to computers that the teachers themselves"; according to Imme

de Haan "basic education via The information technology" aimed at by the Bonn government, will be expensive for parents. More and more private computer schools are doing very "the educational well from challenges offered by computers" to quote Minister Wilms. For their children to attend a fourteen day computer course at a school in Willingen in the Sauer. land parents have to put up DM 1,200.

The organisers are two former members of a Hamburg computers manufacturer that has supplied the equipment. ु, Up to twenty boys and girls,

meeting in hired hotel rooms. fare according to the firm's handouts 'not letting the computer age pass them by". The managers of "computer camps" quite unashamedly quote shigh prices on the grounds that school-hoys remputer trained

and girls have better job possibilities and are able to have la good time "playing with courputers". "There comes a time when la model train set comes to the

end of its interest. The computer goes on and on". For this reason very voung boys and girls take part. The youngest was a nine-year-old.

There is some doubt if such courses as those offered in the Sauerland would help partici-But the discussion returned pants to "achieve a good stantime and time again to which dard of living and remain in according A thir-Minister Riesenhuber The participants in the Soest teen-year-old put the matte (See Page 6)