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Glasnost link-up

Christopher Reed on an extraordinary entry into computer comradeship

HE ONLY highspeed, computer sat-ellite link between the two superpowers has its western office above a kitchenware shop in San Francisco's Pacific Heights

San Francisco's Facilic Heights neighbourhood.

The equally unlikely presi-dent of what is now officially San Francisco/Moscow Tele-port, Inc. is Joel Schatz. He's a 51-year-old former military in-telligence analyst turned self-described "cultural repairman" whose tastes tend toward sitar music and nost-hippic esoterwhose tastes term toward shall music and post-hippic esoter-ics. No computer expert, he has nevertheless created an elec-tronic connection which only a few years ago would have been

dismissed as impossible.

Here's just a hint of the
Schatz success formula. On a
Moscow visit in 1984, Schatz,
who spoke no Russlan, was who spoke no Russian, was shuffling through the snow on his way to an appointment at the Soviet Academy of Sciences. Wearing Jeans, a white sheepskin coat and multicoloured ski cap, he was carrying his recently weather first ing his recently acquired, first computer, a \$399 Tandy 100 lap-

computer, a \$399 Tandy 100 laptop wrapped in purple cloth.
He arrived 20 minutes late,
his grainly glasses fogged over.
Six senior Soviet officials in
dark blue suits were waiting
under a portrait of Lenin.
There was a long silence.
Perhaps it was Schaiz's
Marx-style beard, but finally
Academician Boris Naomov advanced beaming, with arms

vanced beaming, with arms outstretched, "Aha!" he cried, "A Californian . . ."

Schatz the computer comrade has been back 20 times since. This summer he will move to Moscow for a few months with

his wife and partner Diane, to streamline what is now a bur-geoning enterprise. Teleport Inc employs 14 people including two translators in San Fran-

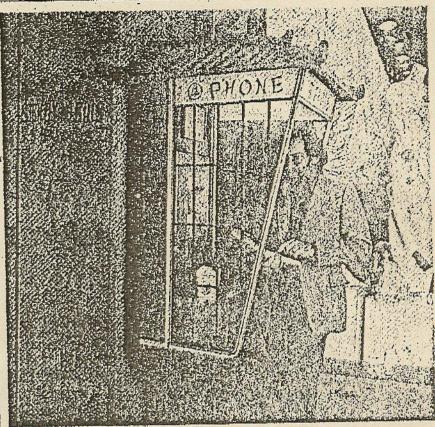
cisco, has an office in Moscow and plans to expand to Europe. Customers range from scien-tists, philanthropists and insti-tutions, to private enthusiasts and businessmen attracted by the Soviet market. Teleport the Soviet market. Teleport has the blessing of Academy of Sciences vice-president Yevgeny Velikhov, Gorbachev's science and technology adviser and an early promoter of personal computers.

Ironically for defenders of free speech, it was the United States that obstructed the not-

States that obstructed the not-work venture. Soviet obstacles work Venimic, Soviet obstactes surfaced from an entrenched hureaucracy. But for 22 days in 1985 the US Department of Commerce declared the fledge-ling computer link Illegal, and shut it down. It was then transmitting via a mainframe com-puter at the New Jersey Institute of Technology and a ground link in Vienna.

At that time the US government was hysterical about hi-tech exports to Russia. Schatz asked how mere words could be exports. "It turned out that since there was no regulation saying you could do this kind of thing, they automatically said you could not," he recalled. Deyou could not, he recauled use spite a letter from Commerce legitimising the network, the US Defence Department is now also registering unease about US Soviet computer links.

This extraordinary entry into electronic glasnost began in 1983 when Joel and Diane returned from their first visit to the USSR. They realised there



Through to Moscow . . . Joel Schatz on line from San Francisco

was no satisfactory way to keep in touch with the friends they had made. Mall could take weeks, telex or telephone was expensive. An idea was born. By 1985 Gorbachev had come

by 1985 Gornachev had come to power and Schatz had bought his Tandy. He immedi-stely sent a telex to academ-ician Velikhov. He received four replies inviting him to Moscow, and in May 1985 the

link was approved in principle. However the Vienna route was costly and unreliable. In Pebruary last year Schatz pro-posed using the Intelsat satel-lite to speed mossages and save money. Last October he signed a contract with the Soviet Insti-

a contract with the Soviet Institute for Automated Systems.
The technology is relatively simple. In Schatz's office is an Apple Macintosin and a US Robotics Courier 2400E modern going up to 24000 band. Cyrillic messages may be sent through a software modification. The text proceeds like normal elec-

tronic mall. You dial a local number for Globenet, type in a code for a mini-computer Teleport uses in nearby Palo Alto, and follow the upload sequence. From there the line goes to Staten Island, New York, to a teleport owned by IDB Communications Group, a California corporation operating the Intelstat link.

The Soviet Ministry of Post

The Soviet Ministry of Post and Telecommunications then takes over, The message arrives at Bear Lake antenna station near Moscow and a private wire runs it through the national packet switching gate-way for digital data from abroad. Finally, the message enters the Moscow telephone system and subscribers receive it via a special US Robotics error-correcting modem.

US users do not, of course, have to enter the system via Schatz's MacIntosh. Once Palo Alto accepts a message it is in the Russian subscriber's mail

box within two seconds. The says tem works so well Schatz says he now talks to Russians more often than to friends across San Francisco Bay. Costs are \$200 a month for

commercial users, and \$25 for others plus another \$75 for special help in Moscow. The on-

special help in Moscow. The on-line cost is 25 cents a minute. Schatz says he was in the right place at the 17, ht time. "In this part of California one can imagine ideas and try them out with relative ease. This is the planetary centre for it. "It marks a profound shift, When people start talking like

"It marks a profound shift.
When people start talking like
this they won't be able to stop,
We'll be leaping over the governments on both sides."
All girls of new uses are
planned, including participation by thousands of schoolchildren in both countries.
Schatz firmly believes personal
computers will change the
world. To those who are sceptiworld. To those who are scepti-cal, he is a personal refutation.