



PACS PHASE II

By Joyce Stubbe



New PACS control console

Until recently the northwest corner on the ground floor of the Jones Building was a rather quiet spot where some of the HCJB engineers worked on one of their projects. That project is PACS, Program Automatic Control System. Bill Dufendach was responsible for much of the planning and Dave Cooper has been most consistently involved. Dan Anderson and Herb Kinard have also put quite a bit of time into the project.

The solitude of the engineers in that lonely corner was interrupted only occasionally by one of a group of volunteers who came to change the tapes being played on the FM-stereo automation system which has been operating from that location since January, 1977.

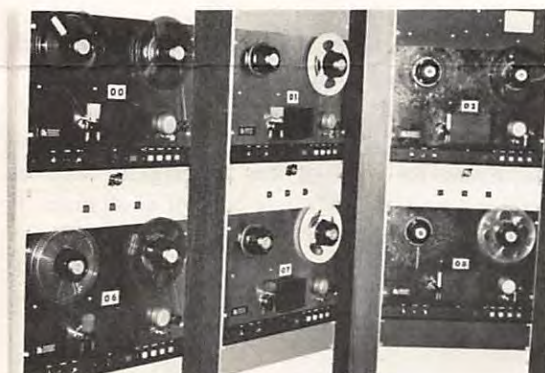
Alongside the FM equipment they installed a tape cartridge unit with a capacity of 48 cartridges, and on around the room in a semicircle, they added twelve new tape machines, an automatic audio control unit, and a TV screen to be used later with the computer that will be installed beneath it. All this equipment is mounted on eleven vertical racks

placed side by side and spaced far enough from the outside walls to permit the engineers to enter for necessary maintenance and repairs.

Centered before the multicolored panels which support the equipment is the control console from which all the equipment, except the FM-stereo, can be activated. It contains six control units—one for each of the six program lines—as well as a unit for collective control of all lines. It also has an output switcher which determines to which transmitter in Pifo each program is directed. This last function was formerly handled by the transmitter operator in Pifo.

The time for the changeover to this new system had been set for 0030 GMT on March 5. This coincided within a half-hour with the time set for international broadcasters to inaugurate their new frequency schedules. As the time drew near, activities in that corner of the building increased. The engineers intensified their efforts to complete the wiring and installation of the equipment. Bill Wooten, Director of Traffic and Operations, brought his operators in to train them and then allow them time to practice individually on the new control board. Olga Salinas moved into an adjoining office to carry on her responsibilities of handling the program tapes and supplying them to the control operators. Announcers reviewed the new method for connecting their particular studio with the master control. Phones have been installed in the studios which are used for live broadcasts so the announcers can communicate with the control operator at PACS.

At 2330 GMT on Saturday, the 4th, all HCJB broadcasts were temporarily suspended so that the engineers could change the program lines from the old master control to the new location. Lines were connected from the studios to the PACS equipment in the new master control and from



PACS equipment in operation

there to the microwave system which carries the programs to Pifo. Pifo is the location of the transmitters and antennas which spread the programs around the world.

At last everything was ready. It had taken a bit longer than expected and it was almost 0100 GMT. The tape decks were loaded and the operator on duty stood ready. All eyes were on the clock. As the second hand swept into line with the minute hand at the top of the clock, the button was touched. The tapes began to roll and Phase II of PACS went into operation.

ANDEX International —

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While this accomplishment has been a big step, the project will not be finished until Phase III is completed with the installation of the computer, hopefully in September of this year. Then the semiautomated system which has just gone into use will become the standby for the fully-automated system which will be the final product of the PACS project.

IS LIFE WORTHWHILE?

By Wil Pounds

"The next thing you'll hear is the bang." At that moment Gus Zanos pulled the trigger of his service revolver and Teddie Kilos heard the blast. The telephone receiver dropped and Gus fell to the floor dead.

One of the recent popular songs goes as follows:

Sometimes I want to quit,
Nothing seems to fit,
Feel like I don't belong.

Psychologists tell us that worthiness is a feeling of "I am good," or "I count," or "I'm right." We verify our worthiness when other people have a hearty endorsement of our actions. When others do not approve, but criticize us, we feel a loss of worthiness. We feel good about ourselves when we are accepted by others.

The man in our news event felt unworthy. He felt so unworthy that life for him was empty and useless. Therefore, he took his life. Guilt is the cause of unworthiness. And when we are forgiven of all our sins we have that feeling of worth and cleanliness restored. When guilt enters the picture we lose our sense of worth and we feel like a bad person, a nobody, a zero. "The freer we feel of guilt, the more complete will be our sense of worthiness," says Dr. Maurice Wagner.

There is an answer to the guilt problem that is satisfying and realistic. You do not have to do away with norms and absolutes to get rid of guilt. In fact, to do away with them is to commit moral and spiritual suicide. Guilt is good for us when we understand it as a symptom of disease. Men have guilty consciences because they are guilty. Guilt produces that sense of unworthiness, or nothingness. It is an emotional dirty feeling.

How do you get rid of that bad feeling? What is

the solution to a guilty conscience? How can I feel good deep down inside? "If we confess our sins to him, he can be depended on to forgive us and to cleanse us from every wrong. And it is perfectly proper for God to do this for us because Christ died to wash away our sins" (1 John 1:9). This is God's answer to a guilty conscience. It is a lot cheaper than seeing a psychiatrist. It is a lot simpler. It works! Moreover, God knows how we tick down inside because he made us in his own image and likeness.

We feel guilty because we are guilty. We are sinners and sin produces guilt. Jesus Christ took our load of sin and guilt on himself and bore it to the Cross. "When we were utterly helpless with no way of escape, Christ came at just the right time and died for us sinners . . . God showed his great love for us by sending Christ to die for us while we were still sinners" (Romans 5:6,8). Because Christ died in our place on the Cross we should never have to suffer from a guilt trip again!

If you will take a few moments, right where you are, and confess to God that you are a guilty sinner, and believe that Jesus Christ died and rose from the dead to forgive you of your sins, he will give you that perfect peace and sense of worthiness.

TELEPHONE MILESTONE

This is the day of rapid communications. Not only radio and television, but even telephone service is making great strides of progress. Phone calls can be dialed from one coast of the United States to the other in just a matter of seconds. In some situations even foreign calls can be dialed directly. With all this progress it is hard to realize that it was just one-hundred years ago that the first commercial telephone switchboard was placed in operation.

It was in New Haven, Connecticut, where the first commercial switchboard was installed back in January of 1878. This first switching system was a far cry from today's sophisticated electronic and electromechanical installations. It was a crude wood instrument with brass strips that were manually pressed against screws to switch the calls. Telephones had been installed and service provided for some twenty-one subscribers in the city of New Haven.

With the tremendous growth and improvement in telephone service during the past one-hundred years we can only wonder what the next one hundred will hold. Your guess is as good as mine.

Board Chairman John D. deButts of the American Telephone and Telegraph Company was the main speaker at a meeting held in January, 1978, in New Haven to commemorate the occasion. He said that this early, uncomplicated device symbolized the "impulse to innovate" that led to the development of the most advanced telecommunications system of any nation on earth. The present telephone network not only contributes to the strength of the country but to the nation's democracy.

DXer OF THE MONTH



Philip Hamlin's DX listening post

This month we go to the North Island of New Zealand to meet our DXer of the Month. Philip Hamlin lives in Tauranga, a small town right on the Bay of Plenty. He should have excellent reception from stations in the Americas with nothing in the way but the Pacific Ocean! Philip is seventeen years of age and became interested in DXing through the New Zealand Radio DX League. He is now an active member of that club.

Philip first heard HCJB in July of 1976. It was not long before he received his first QSL card from Quito. He was quick to join ANDEX and became member No. 2229 before the end of 1976. Since then he has received thirteen cards from HCJB and is still collecting some of our older verification

cards. In addition to HCJB he has listened to stations in 26 countries and has received QSL cards from a number of them. Among his favorites are those from Radio Tahiti and Voice of Spain. Philip does his DXing on a Panasonic model R-650B receiver connected to a ten-meter inverted "L" antenna. With his busy schedule, he finds time for an hour or so of listening each day. This is usually around 0630 to 0700 GMT.

Other interests in addition to DXing include stamp collecting, writing to pen pals, and wildlife conservation. He corresponds with pen pals in various countries including the United States and France. As a student at the Tauranga Boys' College he is studying both French and Spanish. He has a great interest in people from different lands and their languages. His desire is to someday see a great deal of the world and its inhabitants. Perhaps he will even visit Quito and HCJB. His knowledge of Spanish will stand him in good stead if he does!

Recently Philip has been involved in a very interesting youth award scheme. This is known as The Duke of Edinburgh Award Scheme. It requires the completion of four sections and these are on three different levels of achievement, bronze, silver, and gold. The first section is Community Service. For this Philip helped to build a shelter overlooking a magnificent view for an old

people's home. The second section is Expeditions. This involved a number of overnight camping trips. The third section is Physical Fitness. The fourth section includes Interests. For this last section Philip did shortwave DXing. He has now completed all four sections for the gold award, the highest and hardest to obtain. He will soon go to Auckland where he will be presented with a certificate and badge by his Excellency, the Governor-General of New Zealand. We certainly do congratulate Philip Hamlin for this award which he has earned. Philip says it has been very rewarding to work towards this award because of the experiences and friendships involved.

We are happy to have Philip Hamlin as our DXer of the Month for May, 1978. He deserves this recognition and we wish for him a successful future in all of his activities.

PUZZLE SOLUTION

LNOPSAMXBLARTKQMSERHZA FBRNO
YPAUBCLUDRACANTONESERBNOSVX
ERMANDARINPZYWVRIWPOLISHIK
PBOWREDDCHJIEGDESLAIGBCYL
MAESEUGUTROPOCEBATRNDORTP
OZPWADFUBDARUWRLYNAMIPCS
LTHAIRTENGLISHQIMODBSISJYB
MUMHOACKJRVTUANAARIRVAHIA
DRNIELDIYEDOBATJINGCTYSEDR
BKCLZBOAREYHJDLNATIRAGLUBDC
HILLIYAFRIKAAANSBIPRUJOBXRIM
WSKBNBRLX DUTCHCAPDBURMESE
UHIECIIMUEQJSDWPYNNLTNPRWHI
KMJNPAADKANAYAMISQUECHUA S DTHU
TRUMANIANACPLRUSSIANPFRHBAN
SLOBUDYCBLOH PMLOEUTCIYLPST

CARTOON CORNER



I understand you have a DX bug in your house.

Last month we challenged you with a language puzzle. How well did you do? To help you check your results we present above the solution to the puzzle. All the languages are marked so you can see them easily. We hope you found the answers. Below is a list of the languages that were included in this puzzle.

| | | |
|-----------|------------|----------|
| Afrikaans | Greek | Quichua |
| Albanian | Hausa | Rumanian |
| Arabic | Hebrew | Russian |
| Bulgarian | Italian | Spanish |
| Burmese | Japanese | Swahili |
| Cantonese | Korean | Swedish |
| Czech | Lao | Thai |
| Dutch | Mandarin | Turkish |
| English | Pidgin | Urdu |
| French | Polish | Yiddish |
| German | Portuguese | |