



**GANG MEMBERS BOOKED**—Jose (Frenchy) Cordero (left), 18, and Francisco (Baboo Charlie) Cruz, 17, members of a New York street gang called "The Young Lords," are booked for homicide in connection with the fatal stabbing of two youths in a New York City playground. Police booked a total of five youths but declined to say whether any of them actually wielded the knife.

## Heart Stimulus Innovation Told

London (Science Service) — A new method of stimulating the heart through the jugular vein is described here in the current issue of the British medical journal "The Lancet."

This should be particularly valuable in anesthesia emergencies, during acute heart block or when circumstances are not favorable for methods such as heart massage that involve opening the chest cavity, says Dr. F. F. Weale of Guy's Hospital here.

Five dogs with experimentally induced heart block were studied. An insulated wire electrode was passed down the dog's right jugular vein into the right ventricle. An artificial cardiac "pacemaker" was then connected to the electrode and to a skin electrode. In each case, Dr. Weale reports, there was "satisfactory ventricular response" at voltages roughly a quarter of those needed for another method of stimulation.

Special tests with two of the dogs showed that some blood clots had formed, "plugging" the external jugular vein. However, clots surrounding the electrode lead did not materially obstruct the return blood flow of the superior vena cava, one of the body's main veins. There was also no evidence of burned heart tissue, the British researcher says. In purely medical cases, he explains, anticoagulants may be useful.

The method avoids the "considerable discomfort" found with "external" electrodes, Dr. Weale says.

## 'Banana' Shells Surround Earth

Honolulu, Hawaii (Science Service) — The earth is surrounded by banana-shaped shells extending some 20,000 miles in space. The shells are regions of higher ionization than the surroundings.

Radio signals being broadcast by the Explorer VI "paddlewheel" satellite launched early this month from Cape Canaveral may confirm existence of these ducts. If so, such strange radio effects as "multiple-path whistlers" would be explained, and future radio explorations of space made easier.

Prof. Robert A. Helliwell of Stanford University, Stanford, Calif., reported his new theory on the distribution of ionized matter in outer space to the American Physical Society meeting here recently.

A very sensitive receiver in Explorer VI is being used to verify the theory. Signals at the very low frequency of 15.5 kilocycles from the Navy's transmitter at Annapolis, Mo., are being received in the satellite, then relayed to the ground by teletype.

Dr. Helliwell suggested that the banana shaped shells are aligned with the earth's magnetic field. Although their ionization may be only 10 per cent to 20 per cent stronger than the surrounding regions, this is adequate to form a channel that conducts radio signals with efficiency.

Francois Huber, a Swiss naturalist born in 1750, was one of the world's greatest authorities on bees. He was the first to discover how they mated, how queen bees were raised and how bees lived their lives. Huber was totally blind.

Just before World War II, an eighth-grade education was all that most Americans had received. Today, the national median among the adult population has risen to nearly 11 years of schooling.

## U.S. Army Building Under-Ice Town to Be Atomic-Powered

Washington (Science Service) — The United States Army is constructing a small atomic-powered town beneath the surface of the Greenland Ice Cap.

Scheduled for completion in 1960, the town will be situated 138 miles inland from the western edge of the huge ice blanket that covers all of Greenland except some narrow coastal strips.

It will provide year-round facilities for 100 men.

The Army expects to build a sub-surface ice road connecting the town with Camp Tuto, near the sprawling Thule Air Force Base.

The town will be named Camp Century, because it originally was expected to be 100 miles from Camp Tuto.

The main sub-surface trench, 1,000 feet long, has been completed. Also finished is one of several planned lateral trenches which will resemble side streets branching off a thoroughfare.

Construction and future maintenance is under direction of the newly-organized Army Polar research and development center, a division of the corps of engineers.

When completed, Camp Century will be staffed by men under the chief of research and development, which has no direct connection with the engineers.

**Camp Century**

The dimensions of Camp Century will be approximately 1,000 by 800 feet. All of it will be under the surface except for a few air vents and escape hatches.

The trenches are being dug by teams of large rotary snow plows. By starting with a narrow, shallow trench and making successively deeper and wider undercuts, the plows rapidly finish trenches 22 feet deep and 22 feet wide.

Snow discarded by plows is swept back over the narrow opening at the top and forms an extremely rigid roof.

Five years of Arctic research by the Army engineers has resulted in this cut-and-cover technique, which can

progress five miles a day. The same technique will be used in the 138-mile Century-Tuto roadway.

**Coal-Mining Machinery**

Caverns will be cut into the trench walls with equipment developed from mechanical coal-mining machinery.

Announcement of Camp Century project is expected to be released by official Army sources momentarily. The camp is being constructed with approval of the Denmark government, of which Greenland is a possession. The use of atomic energy is still under negotiation, but, according to sources well-acquainted with the matter, the Danes are expected to authorize the Army to bring in a reactor.

Early this year, the department of defense announced it was working on a portable, pre-fabricated nuclear power plant for supplying heat and electric power in "remote places." Speculation has it that this will be the Camp Century reactor.

The reactor has a 15-kilowatt capacity and is expected to operate a full year on a 10-pound core of uranium-235. It will be cheaper to run than a fuel oil power plant. Fuel oil ordinarily costs in the neighborhood of \$11 a barrel. Transportation to Greenland would add about \$42 to the cost.

**Reactor Operation**

Since 1957, the Army has been training men in the operation of nuclear reactors at Fort Belvoir, Va. Presumably, some of these men will operate the Century reactor.

The camp will contain laboratories for most of the Army technical services, such as signal, medical, ordnance, quartermaster, transportation, engineering, and the snow, ice, and permafrost research establishment. Formerly, the scientists connected with these services had to clear out of Greenland before winter set in. Century will enable them to work in comfort year-round.



**STANDING ON ROSTRUM** at Veterans of Foreign Wars national convention, Vice President Richard M. Nixon greets Jimmy Rachals, Columbus, Ga., speaking contest winner. Nixon addressed opening session at Los Angeles.

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