Summer Session Expands Offerings

"We've put less emphasis on summer school as a remedial kind of thing," Martin W. Sampson, director of the Cornell Summer Session, said.

"We try to serve the needs of special interest groups with special programs," he said.

Cornell's expanded summer session program is more than half over, and an extremely diverse group of people have participated. The University has offered various programs appealing to everyone from returning alumni, ambitious school teachers and artists, to advanced high school students and engineers, in addition to those who desire the more traditional programs.

The Summer Session offers two regular programs — a six-week and an eight-week "semester." As at many other universities across the country, enrollment in these types of courses has dropped somewhat over the last few years.

Regular University courses, ranging from biology through French to government are offered, with students often doing a full year's work and earning two semesters' credit in six weeks — which often means long hours in the lab and lecture hall.

In the Good Old Wintertime...

Deep Freeze

Physicists Seek Absolute Zero

While most Ithacans are sweltering in this week’s humid heat wave, a few Cornell physicists are exploring a world where things are as cold as they can possibly get.

The bizarre world of absolute zero exists, artificially, in a special laboratory in Clark Hall. While it may be 90 degrees outside, it is, or is near, 459.69 Fahrenheit degrees below zero inside the scientists' superfreezer — called a cryostat.

A team of Cornell scientists are trying to find out more about what happens at absolute zero — a state in which no heat-causing molecular motion exists.

They include: Robert C. Richardson, assistant professor; David M. Lee, professor; and John Reppy, professor, all of the physics department.

At minus 459.69 degrees Fahrenheit, the conventional laws of physics seem to be defied, and strange, unfamiliar phenomena occur. The air becomes solid and looks like white sand, while friction almost disappears. At that temperature, even the tiny amount of heat generated by an insect waving its feelers would spoil an experiment.

To get the temperature down to that low level, the scientists use liquid helium as a "coolant.

"Liquid helium has peculiar properties at low temperatures," Richardson said. "If one understands these peculiarities, one could learn a great deal more about physical properties of other matter."

Helium is the only known substance that cannot be frozen solid — even at absolute zero. However, it can be pressed into a solid state at near absolute zero temperatures. At these low temperatures, helium does something no other substance is known to do. It becomes a superfluid, a fluid capable of flowing without friction.

THAT WAS THE WAY IT WAS — Way back in December when the underground Campus Store was completely camouflaged by the Blizzard of '69, which closed Tompkins County roads to all traffic for three days. The same area now is covered with sod, "keep off the grass" signs and 90 degree temperatures. Ithaca weather is not known for its moderation.

Vol. 1 No. 35

Thursday, July 30, 1970

Cornell Fund Tops Four Million Mark

The Cornell Fund, the University's alumni and annual-giving campaign for 1969-70, has completed its year with a grand total of $4,005,164, an increase of 60 per cent over last year's previous record total of $2,527,644.

The increase came about through gifts of $3,005,164 from nearly 28,000 alumni, up approximately 2,000 from last year's 25,857 donors, and a $1 million "challenge grant" from an anonymous graduate, according to Gilbert H. Wehmann of New York City, national chairman of the Fund.

Success of the Fund campaign is reaching $3 million in alumni gifts, which already represents an increase of $500,000 or 20 per cent over the preceding year, and qualifying for the additional $1 million challenge gift, is the result of work by some 4,000 Fund workers across the country. The final push came from a small group of dedicated alumni who worked to raise the last $100,000 in the two weeks before the June 30 deadline, Wehmann said.

The challenge grant was announced last fall, when the anonymous donor said any increased gift of new gift would be matched, and that if the Fund reached $3 million, the entire extra $1 million would be contributed.

The Fund includes only unrestricted, individual alumni gifts for the operation of the University, and does not include gifts for buildings or other restricted purposes.

Wehmann, senior partner of White, Weld & Co., New York City investment firm, said the Cornell achievement is in contrast to many other universities where both total funds and numbers of donors to Cornell Chronicle will resume on July 30 with a complete index of Volume 1 appears on Page 5:11. Publication of Cornell Chronicle will resume September 3.
degrees above absolute zero, electricity passing through them conductors have resistance and temperatures. all electrical would permit an electric current conducting electricity with no some metals such as tin and lead loses some energy. But at a few challenge gift represents a gift challenge grant and in part to an and department heads regarding building remodeling projects. Peterson said, "Life safety and fire safety are everyone's responsibility, but both are the special responsibility of the Division of Safety and Security. This past year there were numerous occasions when the Division found situations where an individual or department had undertaken renovation work on their own and had constructed a situation that was both illegal and dangerous. It is understood that such renovation work is often undertaken in an effort to avoid what is considered to be the excessive costs of Buildings and Properties. No saving in cost could justify the loss of human life, and the savings in cost are not likely to equal the property damage resulting from fire. Each of us is urged to prohibit renovation work of any kind unless one of the following conditions is met:

1) The work is done by the Department of Buildings and Properties.
2) The work is done by an outside contractor employed by the Department of Buildings and Properties and subject to plans and specifications that have the approval of the Division of Safety and Security.
3) Detailed plans for the work to be done by the department have the approval of both the Department of Buildings and Properties and the Division of Safety and Security.

"Code compliance and appropriate safety precautions may be costly, but failure to follow both may be more costly. The Division of Safety and Security is authorized to prohibit the use of any areas that are considered unsafe, and to remove any facilities that do not meet state code."

"Please urge your faculty and staff to comply with these instructions."

Renovators Should Consider Safety First

University Controller Arthur H. Peterson has issued a series of instructions to deans, directors and department heads regarding building remodeling projects.

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Summer Session

Continued from Page 1

Sampson noted. He attributed the decline to economic factors. Cornell, like most private colleges and universities, charges its regular rate per credit hour ($65 per credit hour) in the summer. Most state colleges and universities charge as little as $13.50 per credit hour, on the other hand, Sampson said.

However, the Summer Session director said that enrollment in other Summer Session programs has increased enough to take up the slack. The Summer Session runs more than 40 of these special programs. Among them is the Advanced Placement (AP) Program, which has 340 high school seniors studying this summer at Cornell. The third and most serious misconception about the change in the academic calendar is that which tries to relate it to either the Constituent Assembly or Senate problems. For this reason Senators or members of task forces or Secretaries of the Senate often will not have time to discuss with their home constituencies. Furthermore, it is important to note that Cornell community to realize that the press and radio often simply do not get the facts straight in dealing with either the Constituent Assembly or the University Senate. Part of this is because the Senate has not developed adequate communication devices, but a large share of the blame also falls on the communication specialists.

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Shelter from the Rain

Recent heavy rains have caused substantial damage to academic buildings at Cornell and to building furnishing because windows have been left open. Cushing Phillips Jr., director of operations for the Department of Buildings and Properties, said today that custodians had to be called in work in normally off-duty hours to mop up flooded spaces. Phillips has asked the cooperation of all Cornell personnel in correcting the situation. The custodial force is instructed to close windows before they leave buildings, but late occupancy sometimes makes this difficult if not impossible," Phillips said. "In any event, the more effective procedure is to have occupants close windows in their own spaces."

CORNELL CHRONICLE

Resumption of Chronicle publication for the 1970-71 academic year will be on Thursday, September 3.