

### Kopac Undertakes Exacting Labor Consisting of Lice, Flea Dissection

Dissection of lice and fleas is an exacting task as anyone might expect, but such is the work undertaken by Milan J. Kopac. Kopac taken by Milan J. Kopac. Kopac will this spring receive his master's degree from the University of Nebraska, and will then enter the newly organized school of hygiene and public health of Johns Hopkins University.

Kopac has been granted one of the six fellowships awarded this spring, and will work toward his doctor's degree in science, working in research in medical zoology. He is a member of the American Society of Parasitologists, Phi Sigma and Sigma Xi. For several years he has been one of the stars of KPAAR, under the names of Mike and Milan J.

Science, in advancing medical knowledge, studies the lives of rabbits and dogs, to determine from them the action of various diseases. These animals are subject to diseases similar to those of man. For example, at certain seasons of the year, are infested with bots, which in reality are the young stages of dog tapeworm. When this bladder-like structure is eaten by a dog, it soon develops into a tape worm in the intestines of the dog.

very likely, however, to follow in his father's footsteps as a physician if left alone. There are forty-eight sons of physicians in the University of Nebraska College of Medicine this year.

"It is not at all necessary and possibly not desirable that a student should enter college with a fixed career in mind," asserted Dean Keegan. "The first year should be spent in finding oneself, sampling various subjects and perhaps then choosing a particular course. Interest and opportunity should be deciding factors."

Dean Keegan declared that no particular qualities are necessary for the successful physician other than the usual qualities leading to success in any field—reasonable ability, industry, application and interest in the work. He stated that human interest, character and dignity inspire confidence and are valuable assets in the practice of medicine.

### DEAN ABOLISHES JUNE INITIATION OF FRATERNITIES

(Continued from Page 1)

that his office had been discouraging the practice of spring initiation for several years and had been wanting to abolish it for a long time. This is the first year that an absolute abolishment has been accomplished.

Two fraternities have asked about spring initiation this year already, according to Mr. Harper. Reasons advocated by them for initiation were that the men naturally wanted to be initiated and that if initiated they could do much more in rushing for the fraternity.

Harper in Favor

"I would be glad to see a spring initiation in fraternities," declared Mr. Harper, "but it is simply impossible because the grades are registered so late. I think it would be a good idea if all fraternities would establish a precedent of initiation twice a year, in March and in the fall. In that way, those who were not initiated in March could be taken in at the fall initiation."

Mr. Harper stated that no letters about the abolition of spring initiation would be sent out because it was announced at a meeting of fraternity presidents in the Temple last fall that no initiation permits would be issued students who needed their second semester hours to be initiated until the grades were registered in the office of the students affairs.

### Microscopic in Size

These bladder-worms are microscopic in size. In some cases 175 would be required to make a row an inch long. They are found as well in lice and fleas, and man is likewise subject to the bladder-worms. By finding which insects may carry the disease, it is possible to exclude them from the diet of the various animals. This is very important to know from the standpoint of the poultry raiser, since it is much easier to prevent tapeworms than it is to get rid of them.

It has always been very difficult to dissect these small insects, since they must of course be handled under a microscope. Many specimens were destroyed in handling, and it was at times necessary to spend as much as an hour in the dissections.

### Has New Apparatus

With the new apparatus which Kopac has devised, these lice and fleas can be handled with ease and speed. The various dissecting needles are mechanically controlled, thus transforming the crude finger motion into delicate movements of the needles.

Fleas or lice have appendices, and when these become infected, an operation is necessary. However, a flea or louse has four of these structures. "I do not know whether or not a louse or flea ever have appendicitis, but I have performed many an appendectomy upon these small animals," Kopac said.

These operations, however, always result in the sudden death of the patient, for in order to extract the appendices it is necessary to put out the entire digestive tract, "insect surgery," he said, "as yet has not been perfected."

### KEEGAN AVERS DOCTORS NEED HARD STUDIES

(Continued from Page 1)

out of school Dean Keegan replied that the "hard knocks" in medicine come when the graduate begins independent practice because much of the physician's success is dependent upon his personal qualities.

"Indiscretion of conduct, ill-advised comment about patients, or an unfortunate outcome of a critical case often will make or break the young physician. Unethical medical competition also will lead to question of the fairness and disappointment in the credulous attitude of the public towards fakes and quackery in medicine."

In reply to the question "Does an education in the College of Medicine equip a person for a higher position on the start than the uneducated person?" Dean Keegan stated that a medical education certainly insures a higher start than many other lines of work.

### Public Shows Respect

This is due partly to the public's respect for the medical profession and also to the present need of the physicians in many smaller communities, according to Doctor Keegan. He stated that no amount of education will insure success of some individuals and many uneducated persons attain a greater success in the same length of time spent in some industry or commercial activity.

"There is almost no limit to the height to which a man may progress in medicine," declared the College of Medicine dean. "Witness some of the world famous physicians and clinics of this country with incomes of many thousands of dollars."

"This only applies, however, to the unusually capable man upon whom fortune perhaps smiles. The average man by consistent work should be able to build up a practice of \$5,000 to \$10,000 per year and many successful men in smaller centers are earning more than this. The less capable man will have to be content with a comfortable living either in practice or institutional work."

### Pre-Med Work Necessary

Dean Keegan stated that at least two years of pre-medical college education are required as a preparation for the College of Medicine. Many of the better students have chosen to increase this to three or four years before entering medicine.

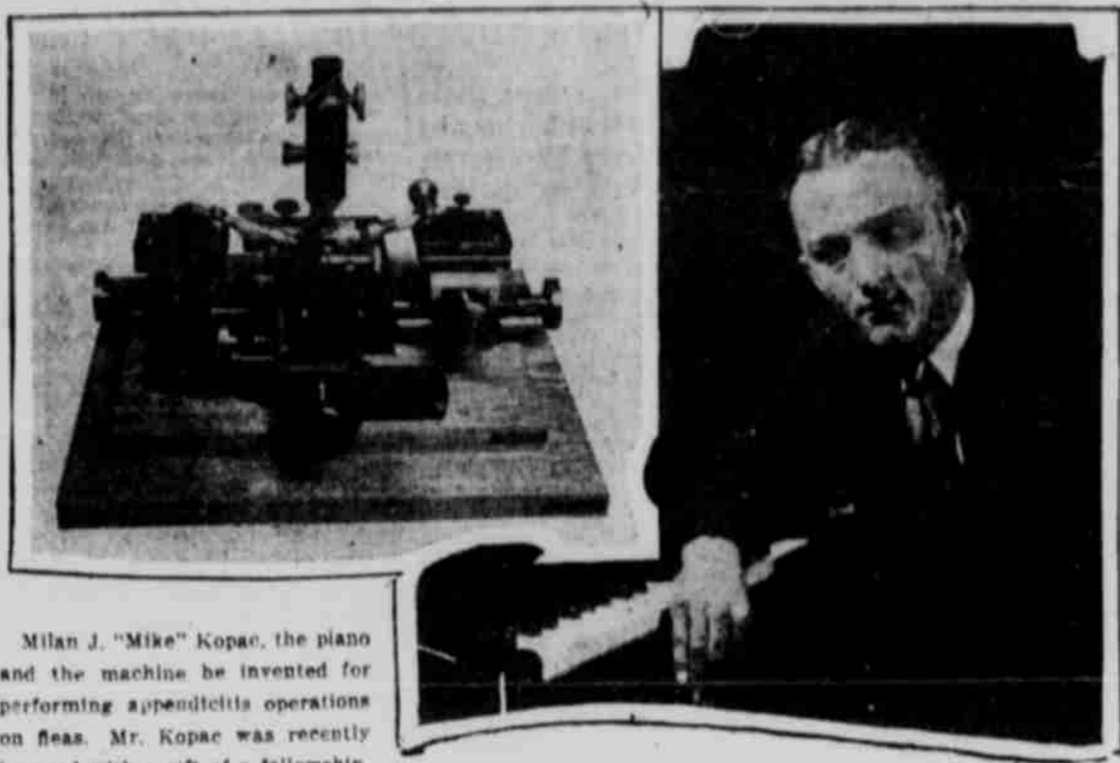
A student should have a liking and ability for the fundamental sciences of biology, chemistry and physics in order to like the work in the College of Medicine according to Doctor Keegan. He should be interested in nature and have an inquiring mind as to the cause of the many phenomena of life he observes.

When asked what interested him in this sort of work Dean Keegan replied that his interest in medicine was stimulated by a respected country physician, the comment of friends that he would make a good doctor, and his interest in biology.

### Sons Should Choose

A son should be free to choose his own profession or life's work, declared Doctor Keegan. He is

### Mike Plays Piano And Dissects Fleas



Milan J. "Mike" Kopac, the piano and the machine he invented for performing appendicitis operations on fleas. Mr. Kopac was recently honored with a gift of a fellowship.

### 'Gentle Art of Caking' Carries School Spirit in Cozy Nooks and 'Cake' Shops

(By Frances Holyoke.)

In the spring a young man's fancy lightly redoubles its thoughts of caking, and since maiden fancies always lean that way, the gentle art enjoys a spring boom.

But whatever the season may be, caking is always an art. It has its own intrinsic qualities, good and bad.

It is concerned with an interesting conglomeration of come-hither glances and collegiate clothes, knowing swaggers and Lucky Strikes, subtle flirtations and lemon "cokes," coy conversations and rattle-trap Fords. It is its own excuse for being, though it has the definite object of time expenditure, and of course it requires some degree of concentration.

A caker will permit such odds and ends as classes to "cramp his style."

"Me and My Man"

A caker is never exactly out of place, but he is particularly in place against the smoke screen and under the awnings of the "Moon." In fact Moon cakers are fairly permanent fixtures. There are always some of them there, always drawn up in relative positions. The booths nearest the door usually are occupied by feminine cakers, eager to catch some boy friend as he enters, and induce him to provide the "cokes." The boy friends, therefore, usually edge and take seats far in the rear booths.

There is always a group of studious lawyers around the big table center and back. They can afford to make a rather audible and public entrance, for they stick together in groups of eight or ten, never venturing to lose sight of each other. They have been in school long enough to know their strength in unity, and they keep fairly well to themselves unless called upon to settle disputes on prohibition and other such questions on which they are prime authorities.

Athletes, maybe. Maybe only large and independent looking athletes have courage enough to take possession of the middle tables, but they are used to being talked about anyway. Occasionally one of them wanders over to speak to some fair coker, or even to sit by one, provided that her order has been taken.

As car-cakers the girls come into their own. They get far more attention and give much less. They roll up in front of Social Science in their roadsters, stopping only long enough to cause traffic jams between classes, and retard the progress of the omnipresent collegiate Fords. These Fords with their decorations of bright paint and brighter "cracks" seem to be the best that the masculine cakers can afford.

"Such a Nizeness"

Some of them attain a high degree of popularity, however. The "Bull's Eye," the "Old Gold," and the "Epidemic" (all over town) are as famous as the former "I do not choose to run" cars, that seem to have been as good as their

### 'We Play the Game'

All in all, the whole area is a stage and all the cakers are players. Never a fine day passes without its drama that really means something to these buzzing and sociable college characters. Dates are made and broken. Hearts are torn and mended. Lies are told and discovered. Lines are fed and swallowed. Innocents are proposed and deposed. Professors are cursed and discussed. Reputations are made and lost. So it was when our fathers caked in front of University hall, as so will it be when our grandchildren are alighting on the roofs of the new dormitories in their aeroplanes, for all art is

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advantages for them. A board of directors meets and determines the city's policy. It hires a manager to run the business. If the manager does a poor job, he gets fired. If he proves satisfactory he remains in office. Consequently his whole motive is to make a good record for himself.

Mr. Childs contrasts this situation of the commission-manager form with the usual one. The first part of the time a mayor is in office, he spends worrying about to whom he should pass along the political plums. He is the subject of great pressure for he has patronage to deal out. And most of his time is occupied with that sort of thing. The latter part of his term is spent in laying the political lines so that he may be re-elected. Between the two where does the public come off?

Mr. Childs mentions Rochester, N. Y., and Wichita, Kas. Wichita has the lowest tax rate of any Kansas city. One of Wichita's first achievements under the new form of government was the construction of a sewer by direct labor for \$214,000, when the lowest contractor bid was \$216,000.

Before the city manager took charge of Rochester that city was

borrowing money for current expenses and had a current debt of slightly less than \$3,000,000. "I see by a report made last week," says Mr. Childs, "that the new administration closed its first year with unexpended balances of appropriations of \$246,191 and excess receipts from sources other than taxes of \$212,910, making a total of \$459,101. This was in addition to \$500,000 which had been provided for debt reduction in the budget."

The president of the National Municipal League makes this interesting statement: "The largest firms of consulting municipal engineers in the middle west quote a 20 percent lower rate for work in city-manager towns than elsewhere, because of the greater expedition with which they can do business. This is not a 20 percent lower wage rate, but a 20 percent lower total cost."

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Christian Science Monitor: "Oh, but daddy," pleaded Nanette, "Stanley is so different! He is simply wonderful — so upright, so square so grand!"

"All right," said the father, very much preoccupied, "which model of the plane do you want?"