

HEP program helps young migrants

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This is being done by encouraging the students to participate in as many social and academic functions as possible.

At the University, the program is headed by Muller, four teachers, two administrators, one counsellor, and a number of university students, who also act as counsellors.

These university students are selected by the staff of HEP, Muller said, and the most important quality they looked for in the applicants is, "someone who can be a positive model and be able to relate to others."

Potential students for the program are recruited through migrant agencies funded by the Office of Economic Opportunity. Examples of such agencies include the Illinois Migrant Council and a project in Phoenix called SUNSER.

These agencies refer students to respective colleges, and the college program officials make the final

selections. In addition each program center sends out its own recruiting parties.

Once the students are accepted they begin classes which help them to pass the General Educational Development Test (GEDT), after which they are awarded their high school diplomas. On passing the test they can either continue their studies or get jobs. The choice lies with each student.

According to Muller, each student has his unique problems and potentialities. To provide the best possible program, an effort is made to work with each student individually.

After the first few weeks, each student helps in designing his own future program and sets certain goals for himself. The staff then tries to provide the training and encouragement necessary to help each attain his goal.

According to Muller the maximum intake at a time is 150. The length of training depends on the individual capability of each student. Muller ad-

ded that some take a couple of months while others years. The average period however varies between six to eight months.

Last year there were 115 students. Of these 42 graduated, 32 dropped out and the rest are still in the program.

Muller said that one of the reasons the kids dropped out was mainly because of the close family ties. They felt guilty going to school while their families worked and felt it their responsibility to ease the burden by working. Others felt homesick and had been out of school for so long that they found the going too tough, he said.

All the students live on campus in the dormitory complex. And they can participate in all activities.

The HEP students have their own student council and Judicial Board, as well as other committees. The Social Committee plans all their social programs like roller skating, picnics, campouts and trips to nearby cities. The Judicial Board handles all

discipline problems. Muller added that the youngsters themselves chose people for this position. They learn to be responsible and take on commitments, he added.

The center at the university of Nebraska is one of the best and most successful in the whole venture, Muller said. He added that the OEO has increased its plans to expand the HEP program.

Muller said that the program has provided opportunity for leadership among those participating. Most of them are hard working and dedicated to make their effort a success, he added.

The students attend classes for about six hours daily, and though it was tough they like it. Most of them said they would encourage their friends to get enrolled once they get back home. Most are thankful that they have been given this chance to better themselves. They all laughed and nodded their heads in agreement when one said, "I dig it."

Campus Calendar

Wednesday, October 1
Nebraska Union

- 4 p.m.
- A.S.U.
- Phi Chi Theta-Execs. 4:30 p.m.
- Phi Chi Theta Union-Contemporary Arts Committee 5:30 p.m.
- Toastmasters AWS Congress 6 p.m.
- Alpha Kappa Psi 6:30 p.m.
- Kosmet Klub Workers Union Fashion Show Rehearsal 7 p.m.
- IFC
- AUF
- Builders
- NHRRF - Childs Project 7:30 p.m.
- Math Counselors 8 p.m.
- Student Veterans Organization
- Student Action Front

Eidswick to speak on 'math of poker'

Dr. John Eidswick will speak on "The Mathematics of Poker" at the first meeting of the Pi Mu Epsilon, honorary mathematics fraternity.

The meeting is to be held at 6:15 p.m., Oct. 14 in the Nebraska Union. Dan Fritz, Fraternity Vice-Director, said that applications are currently being taken for new members. Application forms may be picked up in Room 806 Oldfather Hall and are due by Sept. 30.

Fritz explained that the requirements for membership are 1) completion of Math 116 or 132 with a 4.0 average in all math courses and a 3.0 overall average, or 2) completion of at least one 200-level math course with a 3.5 average in math and a 3.0 overall average.

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Shrubs can reduce traffic noise

By Bill Smitherman
Nebraskan Staff Writer

On many early spring, summer and fall mornings men could be seen leaving Lincoln, burdened with tape recorders and speakers. All day they played and recorded sounds in the country. The sounds were not music. They were the sounds of traffic.

This rather bizarre happening was the result of a U.S. Forestry Service research program still in progress at the University.

It involves studying ways trees and shrubs might be used to control traffic noise levels, particularly in recreation areas.

David I. Cook, associate professor of engineering mechanics, and Dr. David F. Van Haverbeke, assistant professor of horticulture and forestry, are in charge of conducting the program.

Preliminary results of the tests have shown that certain foliage barriers can cut sound levels up to 10 decibels. This is an apparent 50 per cent reduction in loudness, Cook observed.

He explained that the testing procedure is relatively simple. Sounds of highway and city traffic are recorded and then projected through belts of trees and shrubs using a high capacity sound system.

The sound level is measured at various distances behind the foliage belts and is again tape-recorded for further analysis. Cook said that the procedure is then

repeated nearby with no foliage intervening.

A comparison of the sound levels with and without the foliage gives an indication of the value of the trees and shrubs in reducing the sound level, he explained.

Cook continued that the team had experimented with a number of combinations of tree heights, types and belt widths. Preliminary tabulation of the data is going on at present, he added.

Some partial conclusions will probably be drawn by the end of the current year, he remarked. However, he explained, no final results

will be available until the project ends next year.

According to Cook, when the project is completed the results will be reported to the Forest Service. They will then be made available for use in the design of parks, playgrounds and other recreational areas.

Continuing, he stated that the use of foliage barriers should cut noise in areas near highways down to a level where it would not interfere with normal conversation.

He added that tree barriers might also be used to cut plane noise level in airport parking lots. However,

the barriers would do no good in stopping noise from planes in flight.

Cook said that most of the research is being done in the

area around Lincoln. He explained that the flat prairie country minimizes the effects of hills and valleys in the study.



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TECHNICAL SPECIFICATIONS

AMPLIFIER SECTION:	TUNER SECTION:
▶ POWER OUTPUT:	▶ FM:
MUSIC POWER (HF): 100W ±1 dB at 4 ohms 85W ±1 dB at 8 ohms	▶ FREQUENCY RANGE: from 88 to 108 MHz
CONTINUOUS POWER (EACH CHAN): 30W/30W ±1 dB at 4 ohms 32W/32W ±1 dB at 8 ohms	▶ SENSITIVITY: 1.4µV ±3 dB (20 dB quieting) 1.8µV ±3 dB (HF)
HARMONIC DISTORTION less than 0.8% at rated output	▶ HARMONIC DISTORTION: less than 0.8%
▶ FREQUENCY RESPONSE (AT NORMAL LISTENING LEVEL): POWER AMPLIFIER SECTION: 15 - 40,000 Hz ±1.5 dB AUX: 20 - 30,000 Hz ±1.5 dB	▶ SIGNAL TO NOISE RATIO: better than 65 dB
▶ HUM AND NOISE (HF): PHONO: better than 70 dB AUX: better than 75 dB	▶ SELECTIVITY: better than 50 dB at 98 MHz
▶ CHANNEL SEPARATION (AT RATED OUTPUT): PHONO: better than 45 dB AUX: better than 50 dB	▶ CAPTURE RATIO: 2.5 dB (HF)
▶ OUTPUT IMPEDANCE: from 4 to 16 ohms	▶ IMAGE FREQUENCY REJECTION: better than 80 dB at 98 MHz
▶ DAMPING FACTOR: 24 at 8 ohms	▶ IF FREQUENCY REJECTION: better than 95 dB at 98 MHz
▶ CONTROLS AND SWITCHES: BASS CONTROL: from -13 dB to +15 dB at 50 Hz TREBLE CONTROL: from -13 dB to +13 dB at 10,000 Hz	▶ FM STEREO SEPARATION: better than 35 dB
Loudness CONTROL: +8 dB at 50 Hz, +3 dB at 10,000 Hz (Volume control at -30 dB)	▶ SPURIOUS RESPONSE REJECTION: better than 90 dB at 98 MHz
LOW FILTER: -10 dB at 50 Hz	▶ SPURIOUS RADIATION: less than 34 dB
HIGH FILTER: -10 dB at 10,000 Hz	▶ AM:
	▶ FREQUENCY RANGE: from 535 to 1,605 KHz
	▶ SENSITIVITY (HF): 15µV ±3 dB at 1 MHz
	▶ IMAGE FREQUENCY REJECTION: better than 50 dB at 1 MHz
	▶ SELECTIVITY: better than 20 dB at 1 MHz
	▶ TRANSISTORS AND DIODES:
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