Camden Students Prepare **Experiment For Shuttle**

CAMDEN, N.J. - A group of high school students here is ready to make the jump from the classroom to outer space in their project to place an experiment aboard the space shuttle.
In early October,

students representing the city's two high schools Camden Woodrow Wilson -presented a panel of engineers from RCA Corporation with their final plans for the experiment. It calls for a colony of carpenter ants to be placed in a sealed container while cameras record the effect of

weightlessness on them. Students and the RCA engineers agreed to some design changes and the need for further information, but overall the engineers praised student efforts.

If students can meet self-imposed timetable for carrying out the experiment's construction, it will be ready by mid-February, the deadline for a possi-

Their ages span the

range from physician to

In the last few months,

they've had one thing in

common: They've been

students during the first

University's new part-

Some of them are

possible areas of study.

Thirty-three students,

Graduate School special

program through the Of-

Education, according to

imum flexibility, the

part-time program allows working persons

to keep with their jobs

sibilities while taking

classes during the day at

courses in 36 academic

available in the fall and

spring semesters, Dr.

The part-time studies

program is available to

persons who want to

pursue a master's or doc-

toral degree, as well as

those who wish to take

without working toward

a degree. Most of the

students in the first con-

tingent are taking one or

two courses a semester,

students is excellent,

reflecting the large

number of talented peo-

ple residing in the Research Triangle Park

area," Dr. O'Barr said.

students have indicated

plans to continue in

graduate degree pro-

grams at Duke or

elsewhere, she added.

At least thirty of the

quality

Dr. O'Barr said.

"The

courses

About 400 graduate

Duke.

departments

O'Barr said.

occasional

family respon-

Designed for max-

Director Jean O'Barr.

of Continuing

program.

semester of Duke ing to me."

field hockey coach.

Known as Orbit 81, the project is a cooperative effort between the high schools. It started in 1978 as part of an on-going RCA objective to interest minority students in engineering careers.

The students chose an ant colony as the subject of their experiment because the insects have hard external skeletons to withstand the rigors of launch, and a social weightlessness.

Since the program started, RCA, which has several engineering facilities in the southern New Jersey area, has provided engineering instruction and guidance, and has donated electronic equipment for classroom use.

The company also has made a down payment (\$500) and a progress payment (\$1000) on the \$10,000 fee NASA charges to reserve cargo

For Mrs. Elinor Lait-

who finished college 24

years ago; the part-time program "is very

stimulating. There's very

little red tape and the

professors are encourag-

Mrs. Laitman is taking

thropology to see how

that discipline jibes with

Duke Students Enjoy

Flexibility And Lack

Of Red Tape

early 20s to the late 40s man, a wife and com-

and their occupations munity leader in Raleigh

time graduate studies two courses in an-

begining work on ad- her interests, and says

vanced degrees while she is beginning to think

others are exploring about working toward a

doctorate.

Technical Institute.

ble May voyage of the space | for small ex-shuttle. | periments aboard the shuttle.

The students plan to take still pictures and movies of the ant colony while it experiences the weightlessness of space for two weeks. The data may prove useful to future human space colonists.

control To temperature within the cannister and operate cameras and their lighting, the students have programmed a structure that might be microprocessor chip, affected by just one of the skills taught as part of the pro-

> RCA engineers have instructed students on computers, computer software, amateur radio satellite terminals, and electronic test equipment. Chemists from DuPont and Thiokol lectured and made presentations on rocket motors and propulsion materials. Professor John Tarka of Temple University advised students on biological studies. Some colleges and universities in the area have offered scholarships to outstanding students in the pro-

At times Orbit 81 has involved much of the students, for example, controlled the project's finances. Other students set up a library. Inschool, home economic effective early this year. students prepared a special "space meal."

Another part-time stuthe program. almost half of them dent, Ms. Rosemary According to Fred servicemen and women prises stores in 33 states graduate from the Army former Parker-Gray sons, Leo Jr. and Vin-Reiss, supervisor of the of all the armed forces and ten forcign countries. Program of the of all the armed forces and ten forcign countries. women, enrolled in the Cook, coordinates comscience department a ing programs at Durham Camden High, Orbit 81 had several spinoffs. She enrolled in the Enrollment in chemistry program to upgrade her classes, for example, has knowledge of semiconrisen forty per cent and ductor devices, the tiny additinal physics classes "brains" of computors. have had to be added since the project began.

Her course is taught in the department of elec-"When we started our trical engineering. computer group, we had one advisor. We're now Ms. Cook said the on our third," Reiss program's flexibility has said. "In short, the probeen helpful to her, since ject has given us the opshe didn't have to go portunity to venture into through a formal admisthe corporate and real sions process just to take world, while learning graduate-level and growing under the course. protective umbrella of an "Enrolling through educational body.

continuing education is a good way to do it," Ms. Subscribe To Cook said. The Carolina Times Call Today

Dr. O'Barr said the Office of Continuing Education provides academic advising on an individual basis for parttime graduate students, as well as tutorial groups for building study s' and various types seminars designed foster career and

sonal development. Detailed information on Duke's graduate programs is available from the Graduate School office in the Allen Building or from the Continuing Education Office at 107 Bivins Building, phone 684-6259, Dr. O'Barr

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NCR-54 REDEVELOPMENT PLAN **PUBLIC HEARING**

Date: Monday, January 11, 1982 Time: 7:30 P.M. Place: City Council Chamber, City Hall



The Durham City Council acting as the Durham Redevelopment Commission will hold a public hearing to receive comments on proposed amendments to the Redevelopment Plan for N.C.R.-54, also known as Project Three of the Hayti-Elizabeth Street General Renewal Area. The project area is bounded by Pettigrew Street on the north. Fayetteville Street Housing Project on the east. Piedmont Street on the south, and Roxboro Street on the west.

The proposed amendments will be presented at the public hearing by city staff, and citizens will have the opportunity to comment on the proposed amendments or submit alternative proposals.

Copies of the proposed amendments to the Redevelopment Plan are available for public inspection in the Planning and Community Development Department, 2nd floor, City Hall. Also, the Planning and Community Development staff are available to explain the proposal to anyone who may be interested.

For more information, call the Planning and Community Department at 683-4137.

Margaret M. Bowers



Students from Camden's two high schools (Woodrow Wilson and Camden) study a colony of carpenter ants as part of Orbit

81, a project to put the ants into space aboard the shuttle Col-

student bodies of both high schools. Business Brooks Promoted To Major General

dustrial arts students Brooks, commander of items worldwide. In the designed drawings and the Defense Personnel last fiscal year DPSC fabrications, while art Support Center here, has spent \$4.6 billion for the mander of the Sacramenstudents promoted the been selected for the items. DPSC has 4,900 project with posters. rank of major general. employees, most of When the administrator His promotion to the whom of NASA visited the two-star rank becomes Philadelphia. The others Command, Fort Hood,

His selection, along with 22 others now serv-Teachers of both ing as brigadier generals, states. schools developed sup- was announced by the plemental classwork and Department of the Ar- DPSC from Fort Lee, tion from Virginia State and General Staff Colsummer enrichment my, Washington, D.C.

Army Brig. Gen, Leo A. clothing and medical by 10,000 employees. are

Europe and nineteen

courses for students in DPSC is responsible the Army's commissary Va. He was designated a War College. He was Lewis, also a native of for keeping America's system. The system com- distinguished military graduated from the Alexandria, have two

In

to, Cal., Army Depot and commander of the in 13th Corps Support are buying officers rang- Texas. He served two ing from Hawaii to tours in Vietnam.

received He bachelor's degree in in-

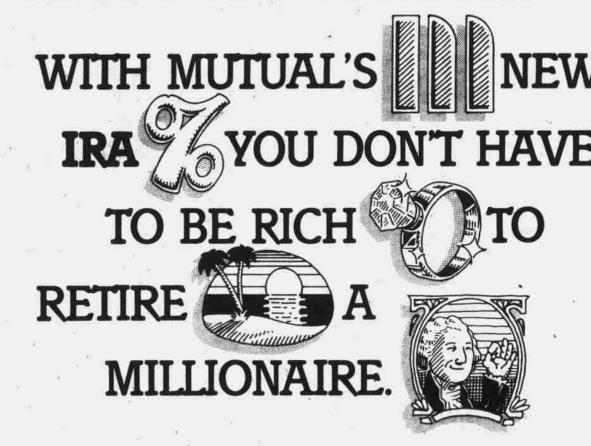
received a commission as was the school's only previous a second lieutenent in graduate to become a assignments he was com- 1954. He is the school's general. first graduate to become a two-star general.

ed a master's degree in the Bronze Star, Medal, financial management the Meritorious Service Washington University, Commendation Medal, Washington, D.C. He and Army Commendaalso is a graduate of the tion Medal (with Oak Gen. Brooks came to strumental music educa- U.S. Army Command Leaf Cluster). Va., where he directed University, Petersburg, lege and the National former Ms. Naomi E.

PHILADELPHIA - supplied with food, tries, which are operated ing Corps, where he dria, Va., in 1950 and

His awards include the Legion of Merit (with In 1966 Brooks receiv- two Oak Leaf Clusters), George Medal, Joint Service

He and his wife, the Parker-Gray sons, Leo Jr. and Vin-



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