









Pictured above is a sequence of pictures made by the hydrodynmics laboratory's water tower camera in a study of vortex formation and resistance in unsteady flow past "buff" bodies. The pictures show water rushing past a blunt cylinder to illustrate the formation of a vortex (left) to when the water pressure becomes so great that the vortex becomes shapeless (right). The entire sequence was taken in less than one-half of a

Cold, Dark Storeroom Becomes

surroundings are equipped laboratory. the building will be lighted masters degrees.
and people can see what The laboratory

they are doing sor of engineering mechan-ics, illustrated his philosophy which underlies the develop-

versity campus

ceived approximately \$70,000 A vertical water tunnel, in grants from the National for which the materials cost flows. Science Foundation (NSF) and \$2,500, was part of the equipthe U.S. Army Research Of- ment constructed.

the University, appropriated progressive stages of the 3 for construction of the lab- year NSF grant and 3 year oratory itself, the funds have Army grant are reached. "In this way, these groups resulted in aid for some 11 some \$5-\$6,000 more will be contribute to graduate educaoutstanding students doing spent for equipment.

graduate work in fluid me- An example of money Sarpkaya.

dark and gloomy, you must Four PhD candidates in not complain and do nothing. fluid mechanics are working Simply light a small candle, at present in the laboratory and when everyone else does, in addition to candidates for

and people can see what hey are doing.

The laboratory, begun in July, 1960, with the assistance of Merk Hobson, dean manner, a native of Turkey, of the College of Engineering Dr. Turgut Sarpkaya, profes- and Prof. Emerald Marmo, chairman of the dept. of engineering mechanics.

ment of a modern hydrody-namics laboratory on the Uni-\$34,000 NSF grant for investigation of "Vortex Formation From a cold, dark storage room in the basement of Bancroft Hall has emerged a modern hydrodynamics laboratory with highly specialized, expensive equipment.

In slightly more than two years, Dr. Sarpkaya has received approximately \$70,000.

Water Tunnel

The laboratory now contains approximately \$6,000 in electrical equipment, and as

Five Univers

wave motion in harbors.

wave motion in harbors.

List price for the equipment is \$1,500. Sarpkaya and his assistants built the mechanism using only \$120 in con-struction materials, plus un-countable hours of labor.

No Floor

The original storeroom had no usable floor, windows, light, heat, electricity, water or piping system.

As workmen sandblasted the walls to complete the lab. Sarpkaya and his assistants worked steadily with a hand-

kerchief over their face.
The \$36,000 Army grant,
which will allow expansion of work in the laboratory, was awarded to Sarpkaya recently for investigation of the mechanism of turbulence genera-tion in pulsating viscous

Equpiment obtained through grant money will remain prop-erty of the University even after the 3 year projects are completed.

Grad Education

"In this way, these groups tion in the universities," noted

ent Union. 10:30 Joel Lundak students 10:45 James Moore

will be selected from these 11:00 Ted Munster

Neff, NSA Vice President,

To Talk to Student Body

tion (NSA) will be held today 341 Union.

at 4 p.m. in Student Union

Mike Neff, NSA vice presi-

dent, will speak on the serv-

ice of the organization to in-

A mass meeting open to A coffee hour will proceed

chanics as well as the highly equipped laboratory. Saved by Sarpkaya and his equipped laboratory is that, a mechanism for study of per cubic foot, construction scientific research."

When Dr. Sarpkaya arrived ceive such benefits contribute at the University in 1957, no accordingly. advanced courses were offered in fluid mechanics. He began offering these ad-

master's degrees. With construction of the laboratory and its facilities, came the first PhD candidate in fluid mechanics.

Major Purpose

enable students to work on much in some other place, at their degrees who otherwise some other time," he said.

It is a give and take proposition, he explained — one has to be trained for research, and those who re-

Dr. Sarpkaya receives no personal monetary benefits from the grants outside of vanced courses, and more students began enrolling in them and working for their votes his full time to the research project.

"The compensation is not in money," he explained. in money," he explained.
"The compensation is intan-- you have a feeling gible of pride and satisfaction in "The major purpose of a having someone work with grant," said Sarpkaya, "is to you who will be contributing



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Formals, Parties Swing Weekend Out Into Orbit

umphant three orbits around the world could slow down social events this weekend on campus.

Friday Chi Omega Open House, after Coed Follies.

Saturday Acacia Date dinner, 5:30- (open 6:30. House party, 9:00-12:00. 12:00.

Snow, seet, no. not even | Sigma Nu Pigge Dinner for-Colonel John Glenn's tri- mal, 8:00-12:00.

Sigma Phi Epsilon House party, 9:00-12:00

Ag. Men Formal, 6:30-12:00. Selleck Quad. Basketball function with Bryan student nurses and Canfield House, 7:00-10:00.

All Quad Cellar Party to the campus), 9:00-(open



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Social Casework Ten University Students Confab at Center Try for Model UN Trip

The 17th annual Institute in Social Casework, sponsored by the University of Nebraska Graduate School of Social tions will begin # 9 a.m. to 10:00 Joel Lederman Work, will be held at 9a.m. morrow in 348 today and tomorrow at the Nebraska Center for Continuing

The institute has been planned to meet the need of practicing social workers, who social workers workers workers which workers with the workers workers which workers with the workers workers which nave completed at le year of graduate education in social work, to continue their

The topic this year is "Social Services in Behalf of Children Living in Their Own Homes." It will help parents find ways to improve child care by providing experiences the student body concerning the meeting from 1-3 p.m. in in family and community liv- the National Student Associaing required for healthy growth and development.

NEBRASKA INTERNA-TIONAL ASSOCIATION will meet at 8 p.m. Sunday in 232 Student Union. Slides will be dividual campuses and stushown depicting technical improvements in Iraq and the explain its national funcgroup will elect a new secretary at this time.



Pure Boof Hamburger . . 15c Tasty Cheeseburger ... 19c Triple-Thick Shakes . . . 20c Golden French Fries ... 10c Thirst-Quenching Coke . 10c Delightful Root Beer .. 10c Steaming Hot Coffee ... 10c Delicious Orange Drink . 10c Refreshing Cold Milk ... 12c

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NSA Applications Applications for a Na-onal Student Association (NSA) study group are available and may be turned in to Student Coun-cil President Steve Gage in the Council office start-

ing next week. MODELS Bette Bonn International
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HE 2-1229 753 Stuart Bldg

COLLEGE NIGHT

Get your dates now for next week's College Night

The ECCENTRICS March 2

PLA-MOR

Minds are different, too. You can't ink them and roll them and press them on hard-finished white paper. But you can test them, mold them, nurture them, shape them, stretch them, excite them.

And challenge them. At Cal Tech's Jet Propulsion Laboratory, that's all we do. The products of these minds are spacecraft and instruments that will explore the Moon and planets and communication systems to probe outer space.

On campus interviews:

It's a big responsibility. And it requires the finest young scientific and engineering minds this country has to offer. Many, many minds that work as one. Minds such as yours, perhaps. Won't you come in and talk to us? If you have a mind to?

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March 1 - Contact University Placement Office for Appointment aread or national origin / U.S. oldernship or current security disamnes required

TICKETS NOW ON SALE STUDENT UNION AND AWS WORKERS

FRIDAY, FEB. 23 PERSHING 8:00 P.M.-\$1