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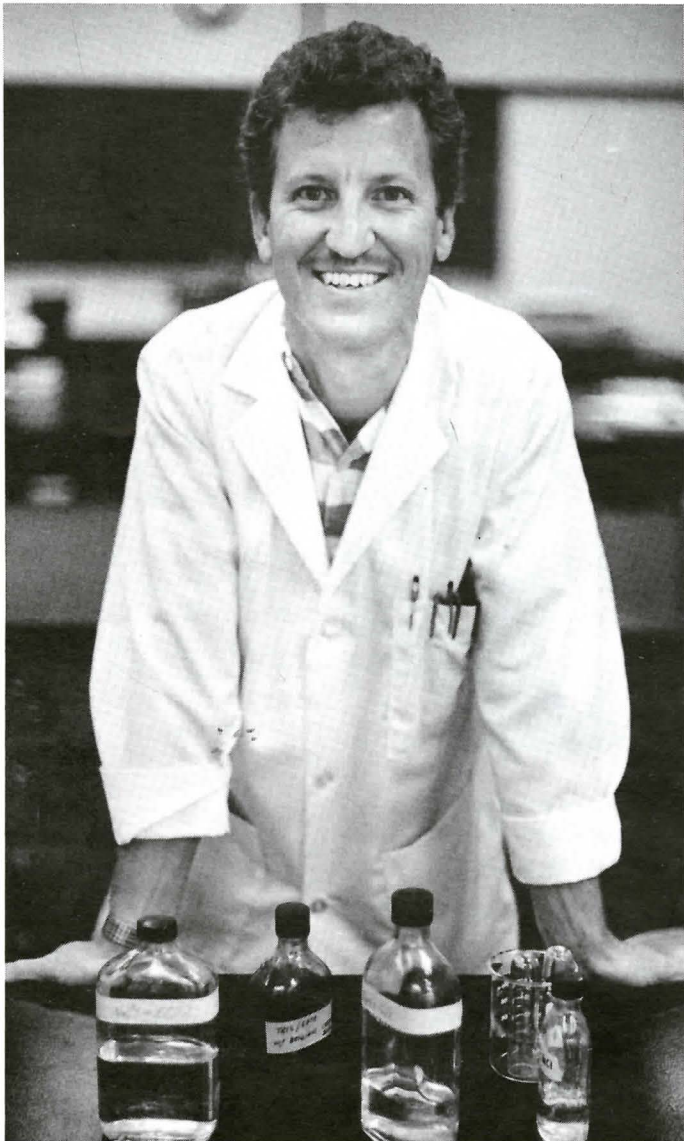
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AlcaláView

UNIVERSITY OF SAN DIEGO



Dr. Lou Burnett recently received a \$75,000 research grant to continue his study of crab gills.

Krazy glue part of Dr. Burnett's formula for success

By Jacqueline Genovese

Krazy glue.

It's an unlikely contributor to biological research. But for Dr. Lou Burnett, professor

and chair of USD's biology department, krazy glue helps make possible some of his research on crab gills.

Using the sticky substance, Dr. Burnett attaches tube-like structures to the gills, allowing him to pump blood and water through them during experiments.

But what makes Dr. Burnett proudest is that the gills can be removed from a crab

(Continued on next page)

Campaign kicks off Jan. 26

To the University Community,

You are invited to join us on Jan. 26 for an historic moment in the University of San Diego's history.

At 11 a.m. on Jan. 26 in front of the University Center, we will publicly announce our \$47.5 million "Education for a New Age" fund-raising campaign. This campaign -- the University's highest non-academic priority -- will generate endowment funds for faculty and student programs designed to enrich the teaching and learning environment of our campus dramatically.

Several of our trustees will participate in the hour-long announcement ceremonies. You also will be treated to a festive fanfare composed especially for the announcement by Fr. Nicolas Reveles and performed by The Classic Brass.

Thank you for all of your extra efforts to date to help this momentous campaign succeed. Please join with us as we celebrate the beginning of what promises to be an exciting chapter in USD's development.

**Author E. Hughes, Ph. D.
President**

Dr. Burnett

(Continued from page 1)

and kept alive. "Those gills are probably happier with me than they are in the crab," he says laughing.

The National Science Foundation is pretty happy about the crab researcher's efforts too. In October of 1988, on his third attempt, the Virginia native received a \$75,000, two-year research grant to continue his crab gill research.

Just what does Dr. Burnett hope to accomplish through his research? His explanation reveals a lot about his teaching philosophy — a philosophy that prompts students to seek him out at all hours of the day.

Speaking as "unscientifically" as possible, the proud father of two-year-old Veronica breaks down a complex process to an easy-to-understand example.

"Crabs have pumps in the cells of their gills that automatically turn on and off depending on the salt concentration of the surrounding water. For example, without these pumps, Atlantic Ocean crabs wouldn't make it to the Maryland shore," he explains, "because to get there they have to travel through bay water, which is dilute. A crab's blood is just like sea water, so it has to maintain a certain sodium level. These pumps allow a crab to do that."

One of the mysteries Dr. Burnett hopes to solve through research is "What is the signal that tells the crab to turn on the pumps?"

Asked how he became interested in crabs, the outdoor enthusiast smiles and says, "I used to eat them." Childhood vacations on the Eastern Shore of Virginia led to a



Hoang Taing folds some of the hundreds of articles of clothing given away by students during Alpha Kappa Psi's holiday clothing drive. The clothing was given to San Diego's needy.

keen interest in marine life, which he pursued as a biology major at the College of William and Mary.

As an undergraduate, Dr. Burnett met two women who influenced his life: Karen, his wife of 15 years, a fellow biology major; and Dr. Charlotte Mangum, whom Dr. Burnett studied under. "Working

with Charlotte really gave me direction and a better idea of what I wanted to do," he recalls.

Dr. Burnett and his wife went on to earn doctorates at the University of South Carolina. In 1977, he joined USD's biology department and, one semester later, capitalized on an opportunity to

pursue post-doctoral work in Denmark.

At the University of Aarhus, Dr. Burnett researched carbon dioxide elimination in crabs and abalones. He also "saved enough Danish kroner to take my wife on a tour of Italy with a bus full of Danes," he laughs.

Nine months later, Dr. Burnett returned to Alcalá Park to teach and continue his research. Teaming up with Paul Woodson, a fellow USD faculty member, Dr. Burnett soon realized that further gill research required "getting rid of the crab. That was a real challenge," he says, "how to make the gill happy outside of the crab."

Removing the gill from a crab and keeping it alive was without precedent. It took the energetic scientist six years to develop the technique.

In 1985, Dr. Burnett's team was the first to present evidence that the enzyme responsible for carbon dioxide elimination -- carbonic anhydrase -- sits on the outside of the cell, serving a function very similar to mammalian kidneys. "The crab gill is an interesting tissue to study because it acts as a lung and a kidney," he explains.

It was continued breakthroughs and discoveries that enabled Dr. Burnett to secure the NSF grant. "I think they noticed the progress I had made with each new proposal," he says.

But it's all in a day's work for this man who "loves his job" and hopes to lead the biology department to new heights of excellence as chairman.

"A lot is going to happen in our department," he predicts. "I'm very proud of how far we've come." Looking down the road, he says, "We hope to become the best undergraduate biology program on the West Coast."

Health issues subject of seminars

Human Resources is offering a five-part health promotion series in cooperation with the YMCA.

According to Human Resource's **Lou Hassan**, the series will address some of the social, psychological and emotional issues that impact our lives as we prepare to enter the next decade.

Topics range from stress to the growing problem of families caught in the squeeze between raising their children and caring for aging parents.

Dr. Bill Matulich, a clinical psychologist and faculty member at Mesa College who specializes in stress management, will present the first seminar of the series at 10 a.m. on Feb. 15. Location of the seminar will be announced later.

The four remaining seminars (dates are tentative):

"Interpersonal Relationships"
10 a.m. March 15

"New Mid-Life Crisis"
12 p.m. April 19

"Women's Health Issues"
12 p.m. May 17

"Keeping Your Emotions
from Making You Ill"
3 p.m. June 21

Details will be sent to all employees a week prior to each program. For more information, call Hassan at ext. 4594.

*If there is no
wind, row.
— Polish proverb*



Cheance Adair serves up a pitch while Danny Marines covers second base during a recent informal employee softball game. Employees interested in joining a faculty/staff softball team to compete in intramurals should call Marines at ext. 4259.

New hires, promotions

Welcome to the following employees who recently joined the USD community:

Robin Bauman, secretary, School of Nursing; **Peter Bomelburg**, computer operator, Administrative Data Processing; **Rebecca**

Chaney, clerk, Printing and Duplicating; **Lance Lovelette**, secretary, Parent Relations.

Congratulations to the following staff employees who recently received a promotion or reclassification:

Carolyn Costanzo, from clerical assistant I to senior secretary, Financial Aid; **Ronica Kieft**, from secretary II to senior secretary, University Center.

Passages

Births

A son, Daniel William, on Dec. 3 to **Shelly Barnes**, typesetter, Print Shop, and her husband David. Daniel weighed 7 lbs., 3 oz.

A daughter, Jacklyn Rebecca, on Dec. 3 to **Shirley Taylor**, assistant director of trusts and estates, and her husband Rob.

A son, Cliff Lee, on Sept. 24 to **Dr. Karen Anderson-Laib**, senior staff psychologist, Educational Development Center, and her husband Duane. Baby Cliff was delivered at home by his father and weighed in at 9 lbs., 12 oz.

Writers sought

The staff of the *Journal of Contemporary Legal Issues*, the Law School's alternative law journal, encourages faculty members from all disciplines to submit articles for publication.

The deadline for submitting articles for the fall 1989 issue is May 15.

Call **Tricia Bailey** at ext. 4343 for information.

Club aims to spur recycling efforts

Members of the University community can help future generations by participating in the student Conservation Club's recycling project.

"We will have three recycling domes at each location, for clear glass, colored glass and aluminum," says

Richard Schrader of the Conservation Club. The domes will be located at the Valley Apartments, the Alcalá Vista apartments and the graduate student housing complex.

The offices located in the University Center already are participating in an office paper recycling program. If any other offices would like to participate or would like more information, call Schrader at ext. 4590.

Proceeds from the recycling program will help fund the Conservation Club's activities.

Coming Up

JANUARY

University of the Third Age. A program of physical exercise and classes for persons 55 and older. Sessions begin with "Frank Lloyd Wright: The Man That Time Forgot." Spencer Lake, architect. "Pictures of Faith, Catacomb Art, Christian Faith." Dr. Faith Conklin. Continental breakfast 8:30 a.m., program 9:30 a.m., Manchester Conference Center. \$55. Continues through January 26 with such topics as: "The Real Reagan Revolution, a Future Look at the Supreme Court;" "Description of Treasures of Soviet Art and Culture;" and "Is Religion Reasonable?" 260-4644.

12 Thursday

Institute for Christian Ministries lecture series. "Feminine Paradigms in Christian History." Sr. Rosemary Rader. Continues 6:30-9:30 p.m. Jan. 14, 16 & 17 except 9:30 a.m.-3:30 p.m. Jan. 14. Salomon Lecture Hall. Fee. 260-4784.

13 Friday

Men's basketball vs. Gonzaga University. 7:30 p.m., Sports Center. Free. 260-4803.



4 Saturday

Women's swimming vs. Fresno State University. Noon, Sports Center. Free. 260-4803.

Men's basketball vs. University of Portland. 7:30 p.m., Sports Center. Free. 260-4803.

18 Wednesday

American Council on Education, an association of American college presidents and other senior managers in higher education, will hold its annual meeting in San Diego. Contact USD News Bureau for conference agenda and speaker list. Continues through Jan. 21. 260-4682.

20 Friday

Women's swimming vs. Pomona-Pitzer College. 3 p.m., Sports Center. Free. 260-4803.

Women's basketball vs. University of San Francisco. 7:30 p.m., Sports Center. Free. 260-4803.

21 Saturday

Women's basketball vs. Santa Clara University. 7:30 p.m., Sports Center. Free. 260-4803.

27 Friday

Men's basketball vs. Santa Clara University. 7:30 p.m., Sports Center. Free. 260-4803.

28 Saturday

Baseball vs. alumni team. 1:30 p.m., Cunningham Stadium. Free. 260-4803.

Men's basketball vs. University of San Francisco. 7:30 p.m., Sports Center. Free. 260-4803.

29 Sunday

Institute for Christian Ministries lecture series. "Fundamentalism." Fr. Robert Kress, chair and associate professor of theological and religious studies. Continues 7-9:15 p.m. Sunday, Feb. 5. Church of the Incarnation, Poway. Fee. 260-4784.

FEBRUARY

2 Thursday

Institute for Project Management. Fundamentals of Project Management certificate course. Continues Thursday evenings Feb. 9, 16 & 23. \$215. Manchester Conference Center. 260-4644.

Institute for Christian Ministries lecture series.

"Who Do You Say That I Am?" Fr. Ron Pachence, associate professor of theological and religious studies. Continues Thursdays; Feb. 9, 16 and March 2, 9 & 16. 7-9:30 p.m., Salomon Lecture Hall. Fee. 260-4784.

3 Friday

Women's basketball vs. Pepperdine University. 7:30 p.m., Sports Center. Free. 260-4803.

Send Calendar items to Judy Barnes, Publications Office, DeSales 274.

Classifieds

Sofa. 8' yellow velour, good condition. \$50. Call Edith Wolcott, ext. 4486.

'68 Mustang V-6 automatic. 60K on rebuilt engine. Paint/Interior excellent condition. Runs great! Asking \$3,400. Call Al Morgan, 278-2299.



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