

Zwolinski To Tour Europe On Grant

Dr. Bruno J. Zwolinski, director of A&M University's Thermodynamics Research Center, has been awarded a National Science Foundation grant to lecture and conduct seminars in Poland Sept. 18-Oct. 17.

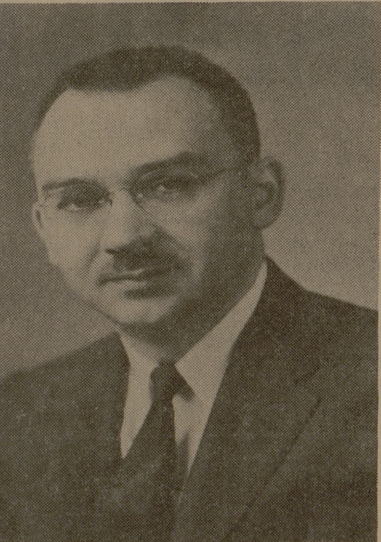
As a guest of the Polish Academy of Sciences, Dr. Zwolinski will lecture on energy-structure relations for organic substances, theory of kinetics and standard reference data in chemistry at universities and research institutes in Warsaw, Posen and Cracow.

Officials noted Zwolinski is the first physical chemist from the United States chosen as a visiting professor to Poland under the new scientific academic exchange program initiated by Poland and the US State Department under direction of the US Academy of Sciences.

Earlier in September, Zwolinski will present a paper, "Enthalpies of Formation of Gaseous Radical Fragments" to the IU-

PAC International Symposium on Thermodynamics at the University of Heidelberg, Germany.

The A&M professor also will visit laboratories in England, Belgium, Germany, Czechoslovakia and Austria.



DR. B. J. ZWOLINSKI

Ohio Prof Earth, Mars Plant Life Similar

Moves In To I. Ed.

Appointment of Dr. Donald L. Clark on Ohio State as associate professor in the Industrial Education Department at Texas A&M has been announced by Dr. Everett Glazener, head.

Clark, whose appointment is effective Sept. 1, will have responsibility in undergraduate industrial education courses and assisting in graduate and research areas.

At Ohio State, the new professor was teaching and research associate and worked in a special US Office of Education industrial arts curriculum project.

Clark, 35, also taught at Stout State, Menomonie, Wis., and in Janesville, Wis., public schools.

The Colorado native received bachelor and master degrees at Stout State. The Ph.D. was recently awarded at Ohio State.

Clark is an active church and scouting leader and a member of the Wisconsin National Guard. He is married and has two sons.

Life on earth probably has the potential for adapting to more extreme or exotic environments similar to those which may exist on Mars or Jupiter, a plant physiologist told the American Institute of Biological Sciences here Wednesday.

"Ordinary green plants and fungi possess far more tolerance toward extreme or exotic environments than has been hitherto suspected," noted Sanford M. Siegel of the University of Hawaii.

Speaking in a "Plants in Space Symposium" at A&M, Siegel described experiments with garden beans and cucumbers grown readily from seed in only five per cent oxygen and even in as little as one per cent oxygen atmos-

pheres. "Not only is there tolerance to reduce oxygen, but also in some cases, onion and garlic seed, for example, germination takes place in atmospheres containing 50 per cent or more of ammonia gas. (Atmospheres of planets like Jupiter are thought to contain ammonia.)

Siegel said many plants such as boxwood, palm and cucumber, show increased cold-hardiness when exposed to nearly oxygen-free atmospheres.

"Frost damage, even at temperatures of -20 to -30 degrees Centigrade, is greatly reduced when oxygen levels are reduced

to one per cent or less," he said. "For example, winter rye germinated under pure nitrogen or argon atmospheres could return to air readily, but rye germinated under helium gas failed to survive the transfer back to air."

"The ability to live in low-oxygen atmospheres is also reflected in the ability to grow not only in air but under fresh or salt water as well," Dr. Siegel said. He added that as environmental stresses become more severe, the complex green plant often fails but ordinary fungi continue to grow with little or no oxygen under ammonia, with 16 hours out of each 24 at -30 degrees Centigrade, in desert atmospheres or saturated salt solutions.

Siegel concluded: "These ex-

periments, and many previous ones with invertebrate animals indicate that ordinary terrestrial life as it now exists has adaptability potentials that often exceed planetary confines of the Earth and may sometimes overlap or environmental conditions of Mars or Jupiter."

The scientist is the discoverer of a tiny umbrella-shaped organism which is able to live in ammonia atmosphere and resembles a recently discovered fossil which may have lived on earth two billion years ago.

Another scientist on the program revealed that plants grown in a rotating device called a "clinostat" which simulates weightlessness, react by utilizing food materials, growing and forming other necessary processes at greater rates.

The reason, said Richard D. Dolph of Argonne National Laboratory, seems to be that large and small bodies within the cells interact more readily in an environment.

"These findings suggest that mechanical manipulation of plants resulting in a more uniform distribution of graviprecipitable particles will result in more rapid plant growth," said.

The plants in Space symposium and the appearance of Agriculture Secretary Orville Freeman were highlights of the Wednesday sessions of the 18th annual meetings of the AIBS at A&M.

More than 1,070 scientists and engineers are being selected in sessions which last through Friday.

On Thursday, Secretary Freeman begins a two-day "look and listen" tour of Central and Eastern Texas agricultural and field projects.

Graduate Deans To Assume Duties

Dr. George W. Kunze and Dr. Leo Berner Jr. assume their new positions Friday as associate and assistant deans, respectively, of the Graduate College.

Graduate Dean Wayne C. Hall, who previously announced the appointments, said Kunze succeeds Dr. Robert W. Barzak who has requested a return to full-time teaching in English. Berner replaces Dr. James G. Potter who has accepted a position as head of the Physics Department at Florida Institute of Technology.

Dr. Kunze, currently professor of soil and crop sciences, won the Texas A&M Former Student Association's Distinguished Achievement Award for Research in 1966. A native of La Grange, he holds B.S. and M.S. degrees from A&M and the Ph.D. from Pennsylvania State University.

Dr. Berner, associate professor of oceanography, is a native of Pasadena, Calif. He earned his B.A. from Pomona College, M.S. from the University of California at Los Angeles and Ph.D. from Schipps Institute of Oceanography.

Rudder Gets Belgian Medal

It's not too often a foreign government decorates a person twice with the same medal, but such was the case for A&M President Earl Rudder Tuesday night in Houston.

The Belgian government first honored Rudder as an Officer in the Order of Leopold in 1947 for his key role in the Battle of the Bulge, a major factor in the World War II liberation of Belgium.

The original medal was destroyed in a 1963 fire at the President's home on the A&M campus, so the award was presented again Tuesday night by Belgian Consul General Herman Matsuera at a reception attended by 100 persons.

Rudder, who recently retired from the Army Reserve with the rank of major general, was a colonel in command of the 109th Infantry Regiment in the 1944 Battle of the Bulge when Belgium was liberated.

Curator Added To A&M Staff

Dr. James R. Dixon, formerly curator of herpetology at the Los Angeles Museum of Natural History, will join A&M's Wildlife Science faculty this fall.

Dr. Richard J. Baldauf, acting department head, said the appointment is effective Sept. 1.

The new associate professor is no stranger to A&M. He earned the Ph.D. in zoology and the master's degree in wildlife science at A&M after receiving the bachelor's degree in biology from Howard Payne.

Dixon also conducted research in A&M's College of Veterinary Medicine from 1956 to 1961.

Concurrently with his work at the Museum of Natural History at Los Angeles, Dr. Dixon served as associate professor of biology at the University of Southern California. He also has taught at Stephen F. Austin State College and New Mexico State University.

The professor has 50 publications to his credit.

THE BATTALION

Opinions expressed in The Battalion are those of the student writers only. The Battalion is a non-tax-supported non-profit, self-supporting educational enterprise edited and operated by students at a university and community newspaper.

Members of the Student Publications Board are: Jim Lindsey, chairman; Dr. David Bowers, College of Liberal Arts; John D. Cochran, College of Geosciences; Dr. Frank A. McDonald, College of Science; Charles A. Rodenberger, College of Engineering; Dr. Robert S. Titus, College of Veterinary Medicine; and Dr. Pate W. Morgan, College of Agriculture.

The Battalion, a student newspaper at Texas A&M is published in College Station, Texas daily except Saturday, Sunday, and Monday, and holiday periods, September through May, and once a week during summer school.

MEMBER

The Associated Press, Texas Press Association

Represented nationally by National Educational Advertising Services, Inc., New York City, Chicago, Los Angeles and San Francisco.

The Associated Press is entitled exclusively to the use for republication of all news dispatches credited to it or not otherwise credited in the paper and local news of spontaneous origin published herein. Rights of republication of all other matter herein are also reserved.

Second-Class postage paid at College Station, Texas.

News contributions may be made by telephoning 846-6618 or 846-4910 or at the editorial office, Room 4, YMCA Building. For advertising or delivery call 846-6415.

Mail subscriptions are \$3.50 per semester; \$6 per school year; \$6.50 per full year. All subscriptions subject to 2% sales tax. Advertising rate furnished on request. Address: The Battalion, Room 4, YMCA Building, College Station, Texas 77843.

EDITOR WINSTON GREEN, JR. Publisher Texas A&M University Reporter Pat Hill Sports Editor Jerry Grisham

SAFEWAY STORES will be CLOSED MONDAY, SEPTEMBER 4 Shop Ahead for the Holiday

Peaches Freestone, Yellow—Lb. **29¢**
Oranges Valencia, Large—Lb. **19¢**
White Bread Mrs. Wright's—Special! Regular or Sandwich Sliced. 2 1/2-Lb. Loaves **49¢**
Hair Spray Truly Fine. —13-oz. Can **59¢**
Tooth Paste Safeway, Fluoride, Family Size **59¢**
Vitamins Safeway, Multiple, 100-Count Bottle **69¢**

Watermelons Texas' Finest. Thumping Good! Ice Cold Melons Available. (Cut melons... 5¢ Lb.) **59¢**
 24 to 28-Lb. Average. —Each

Fresh Prunes Italian, Northwest Finest—Lb. **19¢**
Tomatoes Vine Ripened. —Lb. **29¢**
Cabbage Large, firm heads. —Lb. **5¢**
Corn Full Ears. 6 for **39¢**
Cauliflower Large Heads —Each **39¢**

Back-to-School Values!
Notebook Paper Loose Leaf, 2-Hole, (66¢ Value)—300-Count **49¢**
2 1/2" Ring Binder Campus Mate, w/ Filler Paper, Theme Note Book. (\$2.99 Value) **\$1.98**
Theme Book Spiral Bound, 2-Hole, 10 1/2" x 8 1/2" (49¢ Value) **39¢**
School Binder All-in-One Set with 2-hole Filler Paper, Theme Book & Index Cards. (\$4.59 Value) **\$2.59**

There's No Place Like Safeway for Quality Meat!
Sirloin Steak Waste-Free Trim. USDA Baby Beef **Lb. 89¢**

T-Bone Steak USDA Baby Beef **99¢**
Round Steak USDA Baby Beef **85¢**
Short Ribs For Barbecuing, Baking, Braising. USDA Baby Beef **35¢**

Pork Spareribs Medium Size. Good for Barbecuing. 3 to 5-Lb. Avg.—Lb. **49¢**

Hen Turkeys USDA Inspected... Grade A. Finest Quality Available. 10 to 16-Lb. Average. —Lb. **37¢**

Fryer-Roaster Turkeys USDA Inspected... Grade A. 5 to 7-Lb. Avg. —Lb. **45¢**

Sliced Bacon Armour's Mira-Cure. —1-Lb. Pkg. (Safeway Thick Sliced... 2-Lb. Pkg. \$1.45) **79¢**

Dog Food Pooch. ★ Regular or ★ Liver Flavor. (Why Pay 3/29¢) 15 1/2-oz. Can **8¢**

Swift Prem Special! 12-oz. Can **49¢**

SAVE Flour Harvest Blossom. (Why Pay 45¢) 5-Lb. Bag **39¢**

SAVE IMPERIAL Or HOLLY Sugar 5 LB. BAG **44¢**

Buy ahead for a fun-filled week end
Soft Drinks Special! Assorted Flavors. —Quart Bottle. **10¢**
Ozark Briquets Charcoal. Pick Some Up for the Holiday! (Why Pay 59¢) —10-Lb. Bag **49¢**
Hamburger Buns or Hot Dog Buns. Special! Mrs. Wright's. —8-Count Pkg. **19¢**
Paper Napkins Silk. Special! Assorted Colors. —60-Count Pkg. **9¢**
Pork & Beans Highway. Holiday Need. (Why Pay 2/27¢) —16-oz. Can **2 for 25¢**

Frozen Food Values!
Lemonade Scotch Treat, Regular. —6-oz. Can **10¢**
Catfish Fillets Captain's Choice. —Lb. Pkg. **65¢**
Glazed Shrimp See Pak PDQ. 12-oz. Pkg. **\$1.59**
Fish Sticks See Pak. Breaded. 14-oz. Pkg. **63¢**
Breaded Oysters See Pak. 4-oz. Pkg. **59¢**
Fantail Shrimp Captain's Choice. Breaded. 10-oz. Pkg. **79¢**
Sherbet Lucerne. Assorted—1/2-Gallon Carton. Special! **59¢**
Banquet Dinners Frozen, Assorted, Regular. **39¢**
Cream Pies Bel-air. Assorted—14-oz. Pkg. **29¢**

SAFEWAY
 Prices Effective Thurs., Fri. and Sat., Aug. 31, Sept. 1 and 2, in... Bryan
 We Reserve the Right to Limit Quantities. No Sales to Dealers.
 © Copyright 1960, Safeway Stores Incorporated.

Four Aggies Working For Science Firm

Four Texas A&M students among 126 students from 49 colleges in the United States, Canada and India receiving technical and managerial experience in the annual Summer Development Program at Texas Instruments Inc.

A diversified, science-based company, Texas Instruments headquartered in Dallas, Texas, TI operates electronic and metallurgical product plants in 11 countries, and its sales offices and geophysical exploration services extend throughout the free world.

During their stay the Summer Development students work with TI engineers, scientists and business administrators in areas related to their college fields of study.

The participants are chosen for the program by Texas Instruments, acting on the recommendations of university faculties throughout the country. Considered in the recommendations are the students' leadership abilities, job experience, special achievements, creativity, and extra-curricular activities.

To be eligible students must have completed three years of college, be majoring in a field of interest to TI and have an academic grade average of "B" or better.

From Texas A&M are Douglas Rose, physics; Larry Scott, mathematics; and William Gorman and Leon Travis, electrical engineering.

PARDNER
 You'll Always Win The Showdown When You Get Your Duds Done At **CAMPUS CLEANERS**