

The Olympia

TYPEWRITERS

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OTIS McDONALD'S BRYAN BUSINESS MACHINES

Pediatrician Cites Work Done By A&M Prof 25 Years Ago

Discoveries made at A&M more than a quarter of a century ago in the Department of Animal Husbandry were cited recently by one of the nation's leading pediatricians as foundations of much of

today's teratological research. Teratology is a branch of science dealing with diet and the effects of diet on the birth of normal or abnormal offspring in mammals.

Dr. Josef Warkany, professor of research pediatrics of the University of Cincinnati's College of Medicine and winner of both the Mead Johnson Award of the Academy of Pediatrics and the Borden Award in Pediatrics, declared in a review of nutrition research, that the work of Fred Hale of A&M, done in the 1930's, provided the impetus needed for promoting the study of diet factors affecting normal development of mammalian embryos.

Notes Hale's Work

Warkany, writing of the effects of diets where essential vitamins are missing or in short supply, traced a number of malformations in animal and human offspring to improper diet of the mother, and noted that at the time Hale's work was being done at A&M most scientific research in the field was aimed at finding hereditary factors that were thought then to be the only cause of malformations at birth.

Hale's early work related to blindness that resulted from a lack of Vitamin A in rations that were deliberately made deficient in this vitamin and then fed to swine.

Until his experiments, Warkany pointed out that such blindness and malformation of eyes of young pigs was most generally believed to be an inherited condition or one that stemmed from hereditary factors.

Showed Vitamin's Worth

"Prior to that time," Warkany stated, "a number of observations had been made which suggested that blindness, weakness and deformity of newborn animals are sometimes due to poor nourishment of the mother. But it was not until Hale's experiment, begun in 1933, that maternal dietary deficiencies, under certain experimental conditions, conclusively were shown to interfere with mammal-

ian embryonic development and to induce congenital malformations in the young."

Opens Scientific Interest

Hale's experiments were credited with opening up immediate scientific interest and considerable research into the effects of various vitamins on diets for humans and livestock, and the effects of these vitamins in preventing many malformations formerly believed caused by disease or hereditary factors.

Hale was chief of the swine division of the A&M Agricultural Experiment Station at the time of his work. In his first experiments in 1932, he fed swine diets lacking in Vitamin A with the result that some litters of pigs were born without eyeballs, and all offspring were born with major abnormalities.

Hale recalls now that in the early '30's his work was considered more or less a scientific fluke, and few animal scientists were ready to accept the fact that the then "new" vitamins could have the potent effect on offspring in mammals that has since been established.

Some of his most treasured keepsakes from these early days of experimentation, Hale says, are letters he received from fellow scientists who were still bound to the theory that hereditary factors alone were responsible for malformations.

'Immortality'

Dr. Herbert M. Evans, of the University of California's Institute of Experimental Biology, recently classified the experiments at A&M with Vitamin A as "... destined for immortality."



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For every Vought engineer, there is a division to make fullest use of his talents and to speed his personal advancement. And, of course, he is backed by the four other divisions whose balanced activities add security to his company and his future.

Vought's diversification, begun early in 1959, gears this 43-year-old aircraft firm for the opportunities of the age of space.

- AERONAUTICS
- ASTRONAUTICS
- ELECTRONICS
- RANGE SYSTEMS
- RESEARCH

AERONAUTICS DIVISION

New generations of manned aircraft and atmospheric missiles, devices for antisubmarine warfare, and many other types of weapons will take shape here.

Among this division's current contracts: a Navy order for development of an environmental protection and escape capsule for aircraft pilots. Other work includes production contracts for three versions of F8U Crusader aircraft, study contracts in submarine detection and classification, and contracts for military and commercial aircraft assemblies.

ASTRONAUTICS DIVISION

Vought is drawing on 13 years' experience in the missile field to obtain broader responsibilities in the race for space. Concentration is on advanced vehicles for space exploration, and on ballistic and anti-ballistic missile systems.

Currently, Vought is providing the four-stage Scout research rocket and its launcher for the National Aeronautics and Space Administration. In the human factors of flight, Vought is taking the lead with its orbital flight simulator and space-oriented Cockpit Laboratory. Advanced materials research is also being pushed by this division.

ELECTRONICS DIVISION

Vought electronics will be developed, manufactured and marketed in increasing volume. Military systems under development include antennas and related electronics, ground support electronics and antisubmarine warfare apparatus. This division is also producing actuators for the Minuteman ICBM.

RANGE SYSTEMS DIVISION

Thirteen years' experience in remote base operation qualifies Vought for additional business in this new field. The Range Systems team will establish and operate test ranges and test equipment for missiles and space vehicles.

RESEARCH DIVISION

In a new Research Center, scientists of this division will mine new knowledge from many fields. Basic research is planned into astronautics, undersea warfare, the life sciences (relating to human factors of flight), electrogravitics and other areas. As it evolves into applied research, this advanced work will materially support other Vought divisions.

Genesys Corporation, a wholly owned subsidiary company, intensifies Vought's diversification into commercial electronics. Company emphasis is on automation, and its key personnel are engineers experienced in the fields of electronics, computers, magnetic memory, and associated electro-mechanical devices.

Vought Industries, Inc., formed late in 1959, is engaged in the design, manufacture and marketing of mobile homes, an industry with a great growth potential.

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Dallas has grown faster since 1950 than any other U.S. city. One reason is the city's wealth of entertainment and cultural centers. Another reason is the attractive cost of living.

Student engineers are invited to write for further information about new Vought activities, and how you can start your career with one of Vought's five divisions. Please address inquiries to:

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OUR REPRESENTATIVE WILL BE IN YOUR PLACEMENT OFFICE FEBRUARY 15 and 16

The Church . . For a Fuller Life . . For You . .

CALENDAR OF CHURCH SERVICES

A&M CHRISTIAN CHURCH
8:30 A.M.—Coffee Time
9:45 A.M.—Sunday School
11:00 A.M.—Morning Services

COLLEGE HEIGHTS ASSEMBLY OF GOD
9:45 A.M.—Sunday School
11:00 A.M.—Morning Worship
6:30 P.M.—Young People's Service
7:30 P.M.—Evening Worship

BETHEL LUTHERAN CHURCH
(Missouri Synod)
8:15 A.M.—Morning Worship
9:30 A.M.—Church School
10:45 A.M.—Morning Worship

UNITARIAN FELLOWSHIP
9:30 A.M.—Church School, YMCA
8:00 P.M. Each Sunday—Fellowship Meeting, YMCA

CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS
26th East and Coulter, Bryan
8:45 A.M.—Priesthood Meeting
10:00 A.M.—Sunday School
7:00 P.M.—Sacrament Meeting

OUR SAVIOUR'S LUTHERAN CHURCH
:30 A.M.—Church School
8:15 & 10:45 A.M.—Morning Worship
CHRISTIAN SCIENCE SOCIETY
9:30 a.m.—Sunday School
4:00 a.m.—Sunday Service
2:00-4:00 P. M. Tuesday—Reading Room

CHURCH OF THE NAZARENE
10:00 A.M.—Sunday School
11:00 A.M.—Morning Worship
9:30 P.M.—Young People's Service
7:30 P.M.—Fellowship Service

ST. THOMAS EPISCOPAL CHURCH
8:00 A.M.—Holy Communion
9:15 A.M.—Family Service
11:00 A.M.—Sermon
7:00 P.M.—Evening Prayer

FIRST BAPTIST CHURCH
9:40 A.M.—Church School
11:00 A.M.—Worship
9:15 P.M.—Training Union
7:15 P.M.—Worship

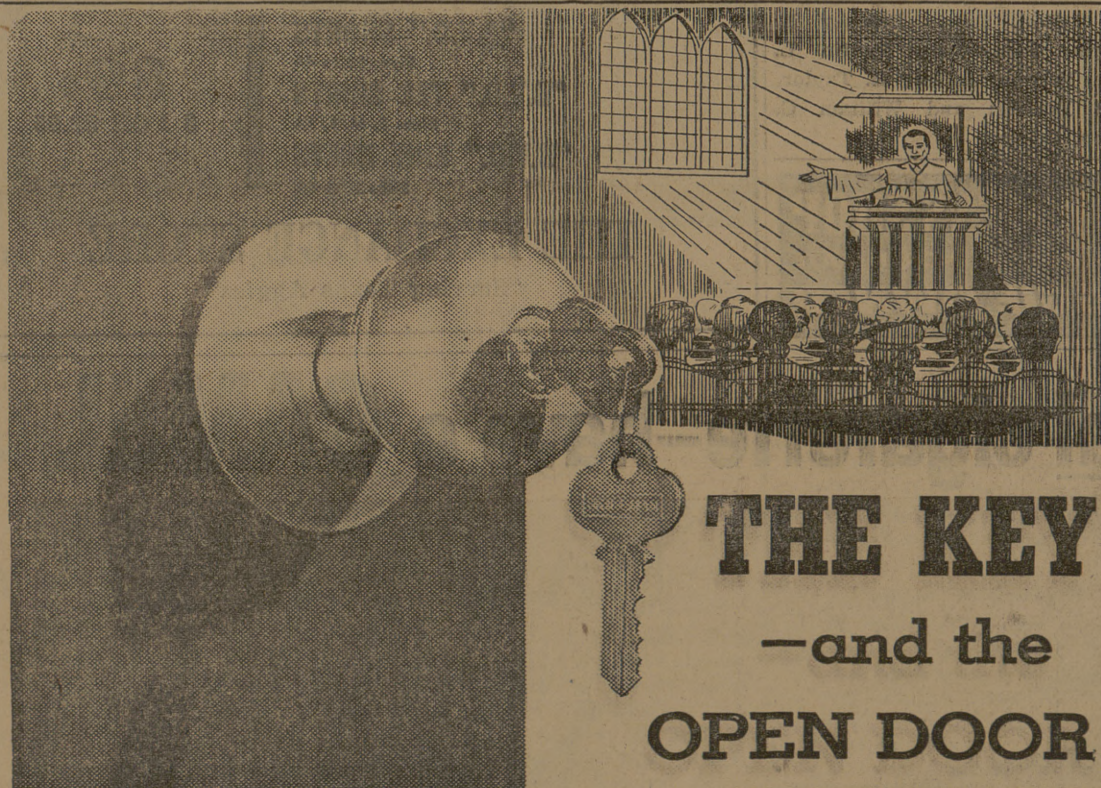
A&M CHURCH OF CHRIST
9:45 A.M.—Bible Classes
10:45 A.M.—Morning Worship
6:15 P.M.—Bible Class
7:15 P.M.—Evening Service

A&M METHODIST CHURCH
9:45 A.M.—Sunday School
10:55 A.M.—Morning Worship
5:30 & 6:00 P.M.—MYF Meetings
7:00 P.M.—Evening Worship

ST. MARY'S CATHOLIC CHAPEL
7:30, 9:00 & 11:00 A.M.—Sunday Masses
6:30 A.M.—Mon., Wed., Fri. & Saturday Masses
5:15 P.M.—Tues. & Thurs. Masses
6:30-7:30 P.M.—Saturday Confessions

FAITH CHURCH UNITED CHURCH OF CHRIST
9:15 A.M.—Sunday School
10:30 A.M.—Morning Worship
7:30 P.M.—Evening Service

A&M PRESBYTERIAN CHURCH
9:45 A.M.—Church School
11:00 A.M.—Worship



THE KEY —and the OPEN DOOR

One of the disturbing discoveries of life is that the truth one man cherishes seems a mystery to another.

But is that surprising? We live in a world of doors and locks. To the man with the key a door opens. To another it remains closed.

Among the keys to spiritual truth is one called HUMILITY. It accounts for many of the millions who worship God every Sunday in the churches of our land.

An American President once said, "I have been driven many times to my knees by the knowledge that my own strength, and that of all around me, was insufficient for that day."

He ruled a nation divided. But neither Blue nor Gray ever questioned the humility of the man who signed his name, "A. Lincoln."

Not only the portal, but the Truth of God's House, is every Sunday an Open Door to humble men!

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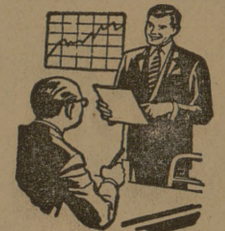
THE CHURCH FOR ALL . . ALL FOR THE CHURCH

The Church is the greatest factor on earth for the building of character and good citizenship. It is a storehouse of spiritual values. Without a strong Church, neither democracy nor civilization can survive. There are four sound reasons why every person should attend services regularly and support the Church. They are: (1) For his own sake. (2) For his children's sake. (3) For the sake of his community and nation. (4) For the sake of the Church itself, which needs his moral and material support. Plan to go to church regularly and read your Bible daily.

Day	Book	Chapter	Verses
Sunday	Colossians	1	26-29
Monday	Romans	2	22-24
Tuesday	Micah	6	8
Wednesday	Matthew	15	19
Thursday	Psalms	28	7-9
Friday	Ephesians	6	5-8
Saturday	John	10	9



The lightning rod was invented by Benjamin Franklin in 1752.



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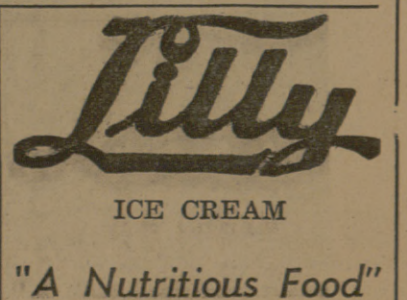
NORTH GATE

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BRYAN

- HARDWARE
- CHINAWARE
- CRYSTAL
- GIFTS

STUDENT PUBLICATIONS



The Exchange Store
"Serving Texas Aggies"

Bryan Building & Loan Association
BRYAN

City National Bank
Member FEDERAL DEPOSIT INSURANCE CORPORATION
Bryan