

A&M to research high-strength materials

A&M's Mechanics and Materials Research Center (MMRC) has won a \$50,000 contract to research advanced high-strength materials. The latest project teams TAMU researchers with those from The Aerojet Solid Propulsion Co. of Sacramento, Calif. Objective of the one-year study is development of glass fiber-reinforced plastic pressure vessels for use as rocket cases.

Dr. Richard A. Schapery, center director and principal investigator, said the MMRC study is to improve techniques used to predict stresses and deflections in the high-strength but flexible plastic cases.

The center, which includes faculty members from engineering and the sciences, will study material behavior under the stresses of rocket flight and develop a

computer code to enable rocket companies to design cases which are as light in weight as possible, consistent with required strength, Dr. Schapery reported.

He said anticipated accuracy of the computer codes will allow rocket companies to design, test and compare new rocket cases entirely within their computers, thus eliminating the expensive fabrication of prototypes of every new design.

Assisting Dr. Schapery will be Dr. J. E. Martinez, civil engineering structural mechanics expert; Scott Beckwith, a doctoral stu-

dent, and Nick Conrad, master's candidate.

Dr. Schapery noted MMRC has focused much of its efforts since organization last year on advancing studies in composites materials.

Combination of metal, rubber, plastics and ceramics yield composites with greater strength-to-weight ratios and environmentally resistant characteristics not attainable before, he said.

"Emerging materials and mechanics technology demand an interdisciplinary approach for solutions," Dr. Schapery pointed

out. "It was the problem-solving combination of expert knowledge from several departments at TAMU that led to the organization of the MMRC."

The professor of civil and aerospace engineering reported over half of the research is funded by the Navy, Air Force and NASA.

Current work at the center includes analysis of submarine hulls, characterization of graphite fiber-reinforced composites, ultrahigh pressure transducer development, studies on corrosion of metals and advancement of non-destructive testing methods.



A DRAIN PIPE SAVED this small sports car and its occupants from plunging 1,000 feet down a steep mountain. The car teetered to a precarious balance on the pipe and the passengers got out—very carefully. (AP Wirephoto)

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George Mehren will speak at milk producers meeting

Dr. George L. Mehren, former assistant secretary of agriculture and now general manager of Associated Milk Products, Inc., San Antonio, will be the main speaker for AMPI Southern Division's annual meeting Saturday at A&M. Mehren will describe the course of the association for the coming year during the meeting which starts at 10 a.m. in Sbsa Hall.

The organization is a cooperative composed of about 44,000 dairy farmers from the Gulf of Mexico to the Canadian border. One hundred and twenty-three counties in South and Southeast Texas are in the Southern Division.

Other speakers will be John Butterbrodt of Wisconsin, national AMPI president, and Elbridge (ck) Sullivan of Oklahoma, pres-

Hinojosa named Urban Planning Dept. head

Assoc. Prof. J. H. Hinojosa has been named head of A&M's Urban Planning Department, effective Sept. 1, announced Dean Edward J. Romieniec of the College of Architecture and Environmental Design.

A member of the TAMU faculty since 1968, Hinojosa has served as acting head of the department since June 1971. Earlier this year, the 37-year-old professor assumed additional responsibilities as director of the college's Model Cities program.

Hinojosa also serves as a consultant to the State Department's Agency for International Development for a regional development project in Costa Rica.

ident of the Southern Region.

Mehren was assistant secretary of agriculture and a member of the Commodity Credit Corporation Board of Directors, 1963-68, and a member of the President's Committee on Consumer Inter-

ests, 1964-67, among many other government posts. He also was president of the Agribusiness Council, Inc., 1968-71.

He is Professor Emeritus of University of California at Berkeley, and director of the Giannini Foundation of Agricultural Economics.

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For many youngsters in our community the church is the sandlot of life. In the church's youth activities they find their training and experience—for one day on the "diamond" of life they'll be making decisions and pitting their strength against serious challenges, relying on the religious convictions and moral principles they gained on the way up.

In weighing your child's need of spiritual development remember this: In life, each day doesn't offer a new ball game!



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Scriptures selected by the American Bible Society

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Mark	I Kings	Job	Psalms	Proverbs	1 Corinthians	1 Corinthians
14:26-38	3:7-14	28:12-28	37:30-40	1:2-9	3:1-10	1:17-25

CALENDAR OF CHURCH SERVICES

CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS

26th East and Coulter, Bryan
8:30 A.M.—Priesthood meeting
10:00 A.M.—Sunday School
5:00 P.M.—Sacrament Meeting

FAITH CHRISTIAN UNITED CHURCH OF CHRIST

9:15 A.M.—Sunday School
10:30 A.M.—Morning Worship
7:30 P.M.—Evening Service

FIRST CHRISTIAN CHURCH

Homestead & Ennis
9:45 A.M.—Sunday School
10:50 A.M.—Morning Worship
5:30 P.M.—Evening People

UNITARIAN FELLOWSHIP

305 Old Highway 6, South
10:00 A.M.—Sunday Service
7:00 P.M.—Adult Service
305 Old College Road South

A&M PRESBYTERIAN

7-9 A.M.—Sun. Breakfast - Stu. Ctr.
9:45 A.M.—Church School
11:00 A.M.—Morning Worship
6:00 P.M.—Sun. Single Stu. Fellowship
7:15 P.M.—Wed. Student Fellowship
6:45 A.M.—Fri. Communion Service Wesley Foundation

UNIVERSITY LUTHERAN

Hubert Beck, Pastor
9:30 A.M.—Bible Class
10:45 A.M.—Divine Worship
6:00 P.M.—Worship Celebration
7:30 P.M.—Wednesday, Discussion Group

A&M METHODIST

9:45 A.M.—Sunday School
10:55 A.M.—Morning Worship
6:30 P.M.—Campus & Career Class
6:30 & 6:00 P.M.—MYF Meetings

CHURCH OF THE NAZARENE

9:45 A.M.—Sunday School
10:45 A.M.—Morning Worship
6:30 P.M.—Young People's Service
7:00 P.M.—Preaching Service

CHRISTIAN SCIENCE SOCIETY

9:30 A.M.—Sunday School
11:00 A.M.—Sunday Service
11:00 A.M.—2 P.M.—Tues. Reading Rm.
7:00-8:00 P.M.—Wed., Reading Room
8:00 P.M.—Wed. Evening Worship

FIRST BAPTIST

9:30 AM—Sunday School
10:45 AM—Morning Worship
6:10 PM—Training Union
7:30 PM—Evening Worship
6:45 PM—Choir Practice & Teachers' meetings (Wednesday)
7:45 PM—Midweek Services (Wed.)

SECOND BAPTIST

710 Eisenhower
9:45 A.M.—Sunday School
11:00 A.M.—Church Service
6:30 P.M.—Training Union
7:30 P.M.—Church Service

OUR SAVIOUR'S LUTHERAN

8:30 & 10:45 A.M.—The Church at Worship
9:30 A.M.—Bible Classes For All Holy Communion—1st Sun. Ea. Mo.

CENTRAL CHRISTIAN CHURCH

3205 Lakeview
9:45 A.M.—Bible School
10:45 A.M.—Morning Worship
6:00 P.M.—Youth Hour
7:00 P.M.—Evening Worship

ST. MARY'S CATHOLIC

Sunday Mass—9, 11 A.M. & 7 P.M. (Folk Mass)
Weekday Masses—5:15 P.M.
Saturday Mass—6 P.M.
Holy Day Masses—5:15, 7 P.M. & 12:15
Confessions—Saturday 5-9, 6:45-7:15

A&M CHURCH OF CHRIST

8:00 & 10:00 A.M. Worship
9:00 A.M.—Bible Study
5:15 P.M.—Young People's Class
6:00 P.M.—Worship
7:15 P.M.—Aggie Class
9:30 A.M.—Tues. - Ladies Bible Class
7:15 P.M.—Wednesday - Bible Study

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

ST. THOMAS' EPISCOPAL CHURCH

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Sunday Services—8:00 A.M., 10:00 A.M.
9:15 A.M.—Morning Worship
7:00 P.M.—Prayer and Bible Study

GRACE BAPTIST CHURCH

2505 S. College Ave., Bryan
An Independent Bible Church
9:45 A.M.—Sunday School
9:15 A.M.—Morning Worship
7:00 P.M.—Prayer and Bible Study

SEVENTH-DAY ADVENTIST CHURCH

North Coulter and Ettie, Bryan
9:30 A.M.—Sabbath School (Saturday)
11:00 A.M.—Worship Service
7:30 P.M.—Prayer Meeting (Tuesday)

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