

THE
SCAS
Clipboard

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No. 15

FIVE MILLION MINUTES...

DALLAS -- "Five Million Minutes From Now" -- a motion picture "consuming only 28½ minutes of our precious five million" pointing up the dramatic needs for trained brainpower of Dallas' science-based industries -- and which graphically stresses the role of the Graduate Research Center of the Southwest as the impetus needed for fulfilling those needs -- was shown Tuesday, December 4 before the 1962 membership dinner of the Dallas Chamber of Commerce.

Sponsored by the Chamber of Commerce, which hosted a "first night" audience of around 1400, the film is basically a review of the accomplishments of the aerospace and related electronics industries in Dallas and a restatement of the credo that the development of centers for advanced studies, in cooperation with the universities, is an absolute necessity for economic survival.

Actual shooting of the film at Texas Instruments, LTV, Collins Radio, and the GRCSW, was done by LTV's Film Reports crew.

Featured from the GRCSW are: Dr. Lloyd Berkner, Dr. Anton L. Hales, and Dr. Francis S. Johnson.

A brochure setting forth the GRCSW story was distributed at the dinner.

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"EXPLOSIVE" GROUND-BREAKING
AT SCAS CAMPUS SITE

SCAS CAMPUS SITE -- Done by the time-tested shot technique used in geophysical exploration, the cornerstone foundation hole of the Dallas Geomagnetic Observatory was made at ground-breaking ceremonies at the SCAS campus site 11:30 a.m., Wednesday, December 5.

Ground-breaking "machinery" centered on a Metastable Helium Magnetometer, manufactured by Texas Instruments. This is a magnetic laboratory instrument, the first to be placed in operation at the observatory site. It is the most sensitive instrument of its type.

A laboratory model of the instrument will be used. It is encased in transparent lucite, rather than metal -- thus, the helium arc and control coils can be seen and photographed. (Continued on Page 2).

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EAST COAST TRIPS PLANNED

December 10 through 12 will find the following GRCSW staff members on the East Coast: Dr. Lloyd Berkner, Dr. A. J. Dessler, Dr. Anton L. Hales, Mr. Ross Peavey and Mr. J. S. Robbottom.

The group will visit the Air Force research center in Cambridge, Mass., and various agencies in Washington, D. C.

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CENTER HAS DISTINGUISHED VISITORS

DALLAS -- Dr. Detlev W. Bronk, President of the Rockefeller Institute for Medical Research, and former president of the National Academy of Sciences, Dr. Roger Adams, University of Illinois, and Dr. Paul Alfred Weiss, of the Rockefeller Institute, were Saturday visitors of Dr. Lloyd Berkner, GRCSW president.

Visiting Dr. Anton L. Hales over the weekend was Dr. Neville Cook, of the Bernard Price Institute of Geophysical Research in Johannesburg, Republic of South Africa.

Associated with Dr. Hales in South Africa, Dr. Cook is reported to have had discussions with the SCAS geophysicist on the continuity of the study of the earth's crustal structure being carried out in South Africa.

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SCAS SCIENTIST NAMED SWIRECO
SESSION CHAIRMAN

DALLAS -- Dr. Francis S. Johnson, SCAS div head, has been named chairman of the "Geophysics-Space" session of the 15th Annual Southwestern Institute of Radio Engineers Conference and Electronics Show in Dallas Memorial Auditorium, April 17 - 19, 1963.

Dr. Lorn L. Howard, SMU electrical engineering professor, has been named to head the session on "Student Papers."

Each session will include approximately four technical papers, according to the technical program chairman, Al Mitchell, of the GRCSW.

To be considered, abstracts of approximately 300 words must be submitted to Mr. Mitchell before Jan. 15.

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GROUND-BREAKING (from Page 1)

As each participant in the ceremony makes his remarks, he will operate an electric switch. When all switches have been closed, the helium arc of the magnetometer will fire, and the instrument will be placed in operation.

A sensor cell will be activated by the magnetometer going into operation. Through an amplifier, the sensor cell will produce a voltage closing the firing circuit of a one-pound dynamite charge, tamped into an auger hold at the location of the observatory "cornerstone."

Thus, the cornerstone foundation hole will be made by the shot as triggered by the activation of the first geomagnetic laboratory instrument to be placed in operation at the observatory site.

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QUOTE 1962:

"Since the midcentury, a mere ten years ago, we find ourselves at the beginning of a new technological revolution. This is as profound as the industrial revolution of two centuries ago. . . This is but the beginning. We are on the threshold of a world with quite new and far more effective materials for every sort of application. . . This, then, is the world of tomorrow. . . whose major force is a technological revolution, whose power history has never before witnessed."
--Berkner.

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"Whatever is unknown is magnified."
-- Tacitus.

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CALENDAR OF WEEKLY SCIENTIFIC EVENTS

- December 6 - 7 Dr. A. M. Lenchek, University of Maryland - "Geomagnetically Trapped Radiation, Parts I and II" -- 4 p. m., Seminar Room SCAS, SIC Bldg., SMU
- December 7 Dr. Donald Rapp, Lockheed Missiles and Space Company - "Ionization of Diatomic Molecules by Electron Impact" -- 9 a. m., Seminar Room SCAS, SIC Bldg., SMU
- December 7 Dr. L. N. Lederman, Columbia University - "Experiments with High-energy Neutrinos" -- 3:30 p. m., Johns Hopkins University, Baltimore
- December 7 Dr. Ichtiaque Rasool, University of Paris - "Atmospheres of Mars and Venus" -- 3 p. m., Auditorium Bldg., Goddard Space Flight Center
- December 10 Dr. Francis A. Richards, Department of Oceanography, University of Washington - 7:30 p. m. - Room 112, Winton Scott Science Hall, TCU
- December 11 Council of Scientific Societies - Dinner Meeting, Main Dining Room, Carter Field
- December 11 Instrument Society of America, North Texas Section - Panel discussion - "New Developments in Digital Data Systems" - 6:30 p. m., Dinner Meeting, Columbia Cafeteria
- December 11 Dr. A. M. Mayo, Chance Vought - "Scientific and Educational Cooperation in the Exploration of Space" - 7:30 p.m., Main Dining Room, Amon Carter Field
- December 11 Dr. Paul Beck, University of Illinois - "The structure of the d-Band in the Transition Elements of the First Long Period" - Purdue U.
- December 12 Dr. Jules A. Fejer, SCAS - "Radio Propagation" -- 8:30 a.m., Seminar Room SCAS, SIC Bldg., SMU
- December 12 Dr. F. J. Dixon - "Tissue Injury Caused by Antigen-Antibody Reaction" - Southwestern Medical School, Dallas



DALLAS CIVIC OPERA

Thursday, December 13 - "Suor Angelica"

Saturday, December 15 - "Pagliacci"

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Sunday, December 9 - Free Movie:

"Farewell to Arms"

4 p. m., Great Hall,
Student Center

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POUR LES GOURMETS

M'sieu Fromage of 4013 Cedar Springs Road specializes in fine imported cheeses -- for Holiday gifts or for good eating. LA 8-9453.

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DALLAS THEATER CENTER

Actor Burgess Meredith says of the Center:

"...most beautiful theater in America. You have here a grass roots theater. And more elegant grass roots I've never seen.

Playwright William Inge says of the Center:

"Dallas is the only city I know of in the country that wants to see a play and make up its own mind about it, instead of having New York tell them whether it is good or bad. The best theaters being built in the country are outside of New York. The Dallas Theater is a good example."

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A LITTLE KNOWLEDGE

Last week this column ran a quote from Joseph Addison on education: An anonymous contributor has charged plagiarism -- purloined writings -- "Addison is simply translating a familiar passage in Cicero's 'Pro Archias'!"

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Russian Lesson:

Modernized by Peter the Great, the Russian alphabet was invented by Cyril of Thessalia, who lived the first half of the ninth century.

The main difference between Russian and other languages lies in the way of thinking - or perhaps in the philosophy of the language. The construction itself is not difficult -- you can write a book in Russian almost without using a subordinate clause.

Fourth letter of the alphabet:

Г г "g" as in get

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Dr. Brand Blanshard, Chairman of the Department of Philosophy, Yale University will speak at 10:30 a.m., Tuesday, December 11 at McFarlin Auditorium -- his subject: "The Idea of a University."

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"Après nous le déluge" -- Jeanne, Marquise de Pompadour (not Louis XV). (Another authority attributes it to neither the Marquise nor the King, but says it's an old French proverb.)

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