

Makes Slip-Stick Old-Fashioned . . .

Math Brain-Busters Easy For A&M 'Electric Brain

By RAY WILLIAMS

just because you couldn't sorts solve that 'ole algebra problem? Just listen my friend, for your worries are over.

On the second floor of the Electrical Engineering Building there is an "electric brain" that can not



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only solve two simultaneous equa- | located in this section of the coun-Have you ever come home at night dejected and all out of has to be done in the All that equation to be worked in an equiv-alent electric circuit and, presto, you have your answer.

> The "brain" is known as an Alternating Current Network Calculator. It was built by the Westinghouse Electric Co. in 1947 and is owned by the A&M **Research** Foundation.

Installation of the calculator began in April 1947, and the first problem was: worked out in June of the same year. The EE department, including some students, did the entire job of installing it. At the present, the estimated value is in the neighborhood of \$250,000.

The calculator is the only one of its kind in Texas, and is the largest in the U.S. other than one in the Westinghouse main factory. It has 4,170 plugs, switches, re-sistors, readers and capacitors, each having its own job.

project is L. M. Haulp, John Denison is in charge of operation, and he is assisted by Douglas Johnson, and Bill Evans, both electrical engineering graduate students. This project was made possible by 11 power companies who are

Radios to Replace

try. Each company bought time, which was to be used in working their individual problems. The sum of all these investments totaled enough to buy the Calcula-

> tor. The charge now made for nonmember companies is \$100 a day. This amount seems large, but when you consider that one company, on its first trip here, saved from \$250,000 to \$300,000 through the work of the calculator, you may realize why this price is actually very reasonable. Theoretically the "brain" can solve power network problems in-

volving areas as large as the state of Texas, and it's done it. Just recently, the staff worked out a problem covering parts of four states.

asked how long it would have tak-en to do this analytically, they

Supervisor of the foundation

1. Interest on obligations

issue

When the Calculator staff

just smile and say "If it could be worked at all, it would take years.

Some Income Is Texas Boxer Dies After K.O.

New York, Feb. 24—(P)_La-verne Roach, handsome ex-marine idol of Plainview, Texas, died yes-of the tenth round. Shocked television viewers saw the fight at 1:57 Charlie Fusari - Jimmy Flood pro-gram in Madison Square Garden, March 10. Don't Report It idol of Plainview, Texas, and terday of brain injuries received last night in a 10th round knock-

out loss to Georgie Small of Brooklyn. The end came at 12:50 p.m. with the palient in a deep coma at St. Clare's hospital where he had been taken on a stretcher from St. Nicholas arena. "The patient was in a deep co-

ma," the hospital report read, "and there was respiratory failure with final censation of heart action due to the after effects of a cerebral hemmorhage and brain damage." Huddled at the bedside in stunned silence were the boxer's wife,

Evelyn, and his manager, Johnny Abood, who handled Roach's career since his days with the Cherry Point, N.C., marines, Yesterday was his 24th birthday.

Dr. Vincent A. Nardiello, New York State Athletic Commission physician, and four other doctors attended the stricken athlete after his last fight. rules. Only a handful, 1,832, waded through sleet and snow to see the

middleweight battle. Hundreds of thousands and perhaps millions of

of the tenth round.
Cameras focused on Roach's corner for several minutes as his handlers and doctors worked over him following the knockout.
The District Attorney's office announced a full investigation of the fight that resulted in boxing's fore Cerdan won the middleweight for seven counts, he bounced jerk-fore Cerdan won the middleweight title.
Canden when the distribution of the fight deaths

last year. Detective Lieutenant Henry Dev- crash last fall, crushed Roach with Detective Lieutenant Henry Dev-lin, of the New York City police, said all persons concerned with the bout would be questioned at the District Attorney's office to-morrow morning. He said he had seen the match and "there does not appear to be any negligence at this time." Chairman Eddie Eagan of the New York State Athletic Commis-the State Athletic Commis-New York State Athletic Commis-

New York State Athletic Commis-sion called an open hearing for Three out-of-town victories ov-10:00 a.m. tomorrow. He said a er outclassed opponents preceded preliminary examination indicated last night's test with Small, a brilno infraction of the commission liant young boxer-puncher a knockout wallop.

Small, shaken by the fatal acci-Scorecards of both judges and dent, said, "I thought he was referee Frank Fullam had the Tex-fresher than I was." an out front in the first nine rounds

Later Small said that he had of his last fight. Early in the bat-cancelled a scheduled appearance the he outpunched Small with a for a preliminary match on the solid left hook although he ap-

A terrific right hand punch

Seconds later, Small battered Roach to the canvas again and he collapsed flat on his back. Ref-eree Fullam quickly stopped the fight without a count, reaching down to remove the boy's mouth-piece. Dr. Elexander Schiff, a Commission dector, was in the ring

After Roaci was half-dragged to his corner be came to and open-ed his eyes. Talking to his train-er he said, "damn it, this would happen.

Two or three times he started to ge up but sagged and sat down on the stool. Dr. Mardiello quickly with gave him an injection and order a stretcher.

Roach was placed under an oxygen tent and fed through the veins He was unconscious from the time

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below the rank of a commissioned officer was not taxable. Officers formerly received a special exemption of \$1,500 of service pay. Some annuity income is not taxannuity income is a very complicated job, and taxpayers may need the help of a collector's office or other reputable tax authority. Some kinds of interest payments received by taxpayers are free from tax. Among these are:

ject to income tax.)

Not Taxable, So

Washington, Feb. 24, (AP) Some kinds of income are

free from tax and need not be included in your tax return.

Veterans are not required

to pay tax on dividends from their

government payments made to veterans and their families, with

the exception of retirement pay which is not for disability.

1. Money on a life insurance policy paid to you upon the death of the insured ported to

is taxable to the extent that the

amount received is greater than the premiums paid for the policy.)

2. Social Security benefit pay-ments from the Federal Govern-

ment or from a state under the Federal Social Security program.

3. Money or other property re-

ceived as a gift, bequest or in-

insured person. (However,

paid to you as a policy in endowment insurance

Among other major items of some free from tax are:

money

(bonds) of a state, territory or any political sub-division thereof, 2. Interest on obligations of the United States issued before March 1, 1941, to the extent provided in the federal laws authorizing their

3. Interest on abligations issued tion organized under an act of Congress if such corporation is an instrumentality of the United States.

bonds (at cost) and treasury bonds at face value which were issued before March 1, 1941.

Piano Duo Presents Emphasizing that he was not condemning the system, Mayo con-Friday Program

Appleton and Field, duo piano team, will appear Friday, Feb. 24, at Stephen F. Austin High phasis on the national debt. School in Bryan under the aus-

neritance. (However, income later derived from such property such as dividends and interest is sub-Mayo, Morgner 4. Money received through health or accident insurance or un-Speak on Eco der workmen's compensation laws for personal injury or sickness. Since Jan. 1, 1949, all military service pay has been taxable. Ser-

vice pay received from Dec. 31, 1940 to Jan. 1, 1949, by a person

debt, in a two part program of the Economics Club Tuesday night in the YMCA chapel. Dr. Mayo, head of the English

Department, listed several "social costs" of our American capitalistic system, in which "business is privately owned and run for profit". A certain part of our crime of the District of Columbia or ity may be traced to our system,

he said. Mayo cited the Harvard report on the high cost of education as evidence of the inequality of social opportunities. It costs \$90 a year

send a child to high school, Mayo said, and the cost is probefore March 1, 1941, of a corpora- hibitive to many poorer class fam-

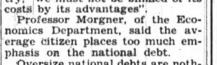
ilies in our economic system. As an example of what he called the two inherent, opposing urges in everyone, Mayo described the 4. Interest on not exceeding pig and artist in every person. Our \$5,000 of United States savings system tends to make the pig, or basely possessive instincts, grow

lusty, he continued, while the arfist, or finer senses, become apologetic. Emphasizing that he was not

> cluded that even though our system may be the best for our country, "we must not be blinded of its costs by its advantages". Professor Morgner, of the Economics Department, said the av-

> > "because governments,

ployment resulting from clearing



Large Size TIDE Oversize national debts are noth-



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Phones in Lowers The Texas Forest Service, a part of the A&M System, is con-Water and Sewage verting from telephone to radio communication. Plans to sell ap-**Course Scheduled** proximately 2,000 pole miles of telephone wire have been made by the Forest Service because of this change. Fire fighting vehicles of the

Forest Service already are equip-ped with radio communication. Radios will be installed in the lookout towers after the sale of telephone lines is completed. Ice storm damage to telephone lines sometimes is a menace to experimental course we will deter-

forest fire control work because vital communications are disrupt-ed for weeks, J. O. Burnside, For-education of each student." est Fire Control Department Head, said recently.

Because 60 students have en Greater use of radio will also re- ed into four divisions of 15 each. duce the cost of maintaining tele-phone lines and right-of-way and days through Fridays in the city

extension of communications to hall by J. E. Williams, I. E. S. in-new areas, he added.

rector E. L. Williams.

mine needs for other courses at

COMING TO GUION HALL



Coming to Guion Hall Saturday night for the prevue is "Under Capricorn" starring Ingrid Bergman and Joseph Cotten in technicolor. "Under Capricorn" will also show Sunday and

pices of the Bryan Artists Ser-ies. ing new, Morgner said, pointing out the 1695 English debt that arose Michael Field was at first a to tremendous proportions during disappointment to his father be-cause of his refusal to practice to require 50% of the tax revenue ite instrument. Instead, young to cover the interest on the debt. Mike spent most of his time at It was 9% of the national income the home of an aunt listening to as compared to our present debt his cousins practicing on their which is only 2.5% of the nation's An experimental course in watpiano. income

After very much persuasion, "Nations do not go bankrupt Field Sr. gave in to his son's wish from national debts," Morgner er-works mathematics, which will last for three weeks, started Monand bought a piano. When the in- said,

day in Houston by the Industrial Extension Service according to Distructor arrived, she was sur- like individuals, can tax or create prised to find that her student money." could already play each one of We have more to fear, he con-the compositions he had heard tinued, from inflation or unem-"Principles of mathematics are applied to water-works problems." his cousins playing. Williams said. "At the end of this The talented pianist studied with a national debt.

Carl Friedberg after his entry into the Juiliard Graduate School. Both speakers were introduced by club president Bill Turley.





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