$\frac{4 x}{2 \pi}$

## HכyキヨSヨy SวITกキyaxh <br> FOR IRAN

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UBIold KDOIOLOK

# 1 

－In the middle of January Georgia Tech was host for tit first time at a meeting of the Inter－Service Committee Technical Facilities，Southeastern，USA．This is a operative association，primarily of military research orga
 and electronics laboratories，etc．The committee encourag the sharing of such facilities and the exchange of technia information of mutual interest．


 tronic Computer Center，the Analog Computer Labor
 Engineering Experiment Station is honored to serve as
 the Tennessee Valley Authority．
 tion playing games with electronic computers，much carrying on such an engagement by proxy．But it has
 not only played tic－tac－toe with Tech＇s IBM 650 fromi mountain hideaway，but he won．It seems that someo the University of Florida wrote a 650 program for game and challenged anyone to beat it．Last summe Hefner accepted the challenge，made one move， the machine＇s rapid return move，then retired to the of his cabin porch at Lake Rlue Ridge，Georgia，ards Computer Center operators who refereed the contest dean was pronounced winner and still champion objectives and rest of these suggested programs curricula. closer scrutiny of Tech's current basic undergeation must take but specialization our conviction that higher place more and
 just the opposi fundamentals, especially at degree program more emphas is special occasion when a newistration and the level. Thus enthusiastic support of the ad bachelor's programs
 (engineering mechanics and appo months.




 se IIəM se ou! səyวueiq $12 y+0$ mechanics.

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 physics,
humanities study and research in psychologlied psychology pro-

 years. In the future,
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water stored behind the dam, complete failure of the high dam must be pre-
cluded without a possibility of a doubt.
 tank cars of water would trample downstream cities and would be a major disaster. One possible way for such a fail-

 safely beyond the dam, then the water
 water flowing over the dam could re-
sult in damage to the foundations to the extent that failure could occur.
 exbed scour and sand-bar build-up in
existing navigation channels. existing navigation channels. With this multiple-purpose metnod of at is released for irrigation and navi-
 urbines for the generation of power. wever, since the demands may not actly coincide for each of these uses,

 g reservoir just downstream from the ver end of the canyon.
Because of the tremendo
tremendous volume of

ft . in the $1450-\mathrm{ft}$. gorge at the river bend

## 



SPILLWA
 $\mathrm{A}_{\text {been }}^{\text {spillways of an Iranian dam has just }}$ Hydraulics Laboratory for the Development and
New York.

The Development and Resources Corporation is the parent organization of the "Khuzestan Development Service,' which is inventorying the resources,
planning development, and supervising
 in the Khuzestan region for the Iranian

 east by Afghanistan and Pakistan; on the south by the Persian Gulf and the and Turkey. The Khuzestan region is in southwestern Iran at the same latitude as South Georgia.)

The resource-development plans are
primarily based upon integrated schemes for utilizing natural gas and for greater utilization of the rivers. The natural gas of the Iranian oil fields, presently
wasted, will be put to work as a source of heat, electrical energy, and chemical products. The region's five rivers will be controlled through a series of large maximum benefits of water storage for irrigation, flood control, electric-power generation, and navigation.

The first project undertaken in river
development will be the building of a 630 -foot high dam in the gorge of the Dez River. The canyon bottom is about 160 m in elevation. The walls rise
steeply at about 2 (vertical) to 1 (horizontal) to a plateau which is in excess


$\Gamma^{h}$ he anxious young man above is Norman G. Heller,
 unique registration system for the District Conference of the American Institute of Electrical Engineers held in


 The computer was connected by telephone lines to input-output electric typewriters at the Dinkler-Piaza Hotel in downtown Atlanta. When the above photograph was made, Heller was at the information desk of the hotel,

 (ERA 1101) computer was beginning to answer the first шоцу sə! the machine were not always the complete English sentences they should have been, a situation reflected in Heller's brow. But the bugs were soon eliminated from the program, which involved a moderately complex encoding and decoding arrangement for rapid communica-
 lines were furnished by Southern Bell

On the following pages are more pictures and information on the successful student project, a story we might

research-minded Ph. D.'s, the
D. the
a tech-
sciences
in
presence
study in basic ~
will be available for other studies of behavior. In the area of clinical psychology,
 figure-drawings as a means for the eval-
uation of personality uation of personality.
deals with the the discipline which logical traits, is a branch of psychology which overlaps many other branches of the field. Dr. Loveland is presently conducting research on the measurement of istics of applicants for admission to istics of applicants for admission to
Georgia Tech. These research efforts are directed toward the formulation of a more efficient method of selecting stu-
dents who will succeed scholastically



 research, and hence can be used as illustrations for the teaching of industrial
personnel selection


 of material available for the training of
 for the past six years, been collecting
data on the rel data on the relative contributions of
various sources of random error of measurement to the unreliability of psy-
 aptitude tests, opinion surveys, person-
ality tests, etc.). The foregoing partial summary account gives only a gia Tech. It does, however, reflect the gia Tech. It does, however, reflect the
vitality of the young science and the broad scope of educational and research capability in Tech's new School of Psy-
chology.

 arch larger psychology departments, and pects the diversity in training of the

 oveland's work is in the areas of indus-
ial psychology and psychometrics. Dr. ial psychology and psychometrics. Dr.

1. Carr Payne's research reflects his ecialized training in the psychology of



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 ored blocks of equal size. He found changes in the size of blocks did not
 "heavier" (red and blue appeared
other colors). Dr. also found that apparent weight -elated to the viewers' color pre-
 . advertising and marketing fields. Morls article, "Effect of Drive Response," is in press for the Journal nparative and Physiological Psy-
. The work reported in this pubThe work reported in this pubbjects. It is Dr. Moll's hope that ime in the future an animal colony
 industry, not the least of which has been greatly increased utilization of psycho-
logical techniques for the solution of perlogical techniques for the solution of per-
sonnel, production, and design problems
 new personnel is no longer a novelty. The psychologist's knowledge of the learning process is now frequently applied in industrial training and employee armed services and defense industries clearly demonstrated the usefulness of

 but in the engineering departments.
Knowledge of human perceptual, motor, and intellectual processes is now being used in the design of products ranging from telephones to airplanes. Research duct design is rapidly becoming accepted industrial practice.

One consequence of the increased use of psychological techniques has been ining in psychology. To meet this demand, Georgia Tech was recently authorized to offer a curriculum leading to the degree, Bachelor of Science in Applied Psycho g. Gracuates of the newly estab-
 personnel and training departments, and


The new curriculum leading to the degree, Bachelor of Science in Applied Psychology, was approved early this year
by the Tech faculty and the Board by the Tech faculty and the Board of
Regents of the University System of Georgia. It is unique in the Southeast.
the basis for the selection of a flood magni2. occur in a particular locality. The magni-
tude of this flood can then be used to de-





A comprehensive land-use plan summa-
rizes the future requirements for land in a community and acts as a guide for devel-

Finally, the selection of the means of flood-damage prevention to be undertaken
 local flood problem. Each method has a spe-


 situations. A summary of measures to reduce flood damage is outlined for develop-
 programs.
 son of the Bactericidal Activity of Ozone Reprinted from The Journal of General MiI
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The bactericidal effects of ozone solutions were tested against Escherichia coli suspen-
sions at $1^{\circ}$, and the lethal concentration was sions at $1^{\circ}$, and the lethal concentration was found to be that quantity of ozone necessary
to produce a detectable residue in the susto produce a detectable residue in the sus 0
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 similar conditions emphasized the different
modes of action of the two These and other technical publications may
be obtained, and the complete publications list requested, by writing Publications Services, Engineering Experiment Station, Georgia Institute of Technology, Atlanta
13, Georgia.
 on the Technology of
1896-1956." 1957. SpeGratis. subject divisions-planting and
harvesting and curing, storing






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 compilation is indexed in detail. A
2573 references is listed.

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principal contributions this study рие иопрэу!̣иәр! әчд ( I ) :әге әувш tion of flood and land-use factors
should be considered, so that pro-
 ely utilized; and (2) the establish-
 flood and land-use data can be anal-
and the inter-relationships between can be studied.
methods of analysis presented show planning for flood-damage prevention
d be pointed towards assisting local ing bodies reach three decisions: (1)




water reaches the ground surface at the
 of the canyon.

The size of the structures is impressive. The diameters of the vertical shafts and horizontal conduits are 46 ft . and 41 ft . for the upper and lower spillways, respectively. By comparison the
 sists of two tunnels, each 31 ft . in diam-

 and 362 ft . higher in elevation than the


The scale ratio of the prototype-tomodel is 62 -to-1. In other words, one foot on the model represents sixty-two кІІэ! passages in the model were geometrically
similar to the prototype (actual structure). The model was operated under




