# THE COLTEGIAN 

THE STUDENT WEEKLY AT ST IOHN'S COLLEGE

Yes, you pawns, we have been chal lenged. Annapolis Senior High School. has put out the word. They're sitting in their classrooms, their chess(ts) all puffed out, thinking they can rook us out of our (a) trophy. So stop horsing around ... do it toknight; to play this kingly game contact $C$. Stoll and arrange
a joust.
R. Plaut

## r.a.m

## movie of the week

King Rat, directed by Bryan Forbes, and King Rat, directed by Bryan Forbes, starring George segal Mills, is the RAM film for this weekend.
The locale of King Rat is a prisoner of war camp in Asia during World War II; but it is not a camp like David Lean's in Bridge Over the River Kwai where gentlemen strive to remain honorable despite mistreatment, hunger, and disease; nor is it a war camp as seen in La Grande Illusione, where a sense of patriotism arid comradery is underlying.

The stars of King Rat are American entrepreneurs living off of their fellow prisoners. The "king" is their brash boss played by George Segal. H Alpert of Sat urday Review stated very well that "Mr Segal manages to make, touchingly, the ironic point of it all: that hate, an emotion stronger than love, can help ple survive. The picture is certapts to about hate and survival. It att seeing state therein thin situation where they will revert to some sort of nature that is basic- but not lacking in humor, loyis basic- and pathos.

There will be a meeting of the RAM film board this Saturday at 1 pm . on the quad. All persons interested in coming year are welcome to show up.

The package room will be open the following houre:
a.ft. 12:30-1:00 Mon, Weds, Thurs 1:10-1;40 Tues, Friday eve. 7:15-7:45 Mon, Friday

sometimes I think: "oh well,"
-But then again I don't know.
but, on the other hand...
-she wore a glove.

Laurance Lea.

4o marulana ave.
annopols ma 4 la annapo $11269-674$

COLLEGIAN MOTION PASSES
The Collegian takes great pleasure in announcing that we have been kicked out of our office. We now reside in 213 Mellon. Don't try to call us, we don't have a phone, but do come up and see us some time. Although we have a name on the door, we don't have a rug on the floor; so if you quite happy to put it to use.

> Da Editor

## IRSI SEMESTIER ART CLASSES

bASIC LIFE DRAWING
Wednesdays 7:30-10:30 pm
Instructor: Anne Geddes
Begins September 24
No Fee
BASIC OIL PAINTING
Saturdays 9:30-12:30 am
Instructor: Snowden'Hodges
Begins September" 27
Must provide own materials
BASIC POTTERY
Wednesdays 8:00-10:00pm
Room opens at 7:00 pm for practice
Instructor: Sandy Kabler
Lab Fee
If you have questions regarding the classes, either come to the art studio and ask us, or drop a note in the artist in-residence's mail box.

Models for Life Drawing Classes will be needed every Wednesday from $7: 30-10: 30 \mathrm{pm}$. We pay $\$ 4.00$ an hour for clad modeling, $\$ 2.50$ an hour neccessary.

If you are interested in modelling for classes, contact Sinclair Gearing or Anne Geddes.

The Student Woodshop (northwest corner of the power plant) will be open from 2-5 pm. on Wednesdays, Fridays, and Saturdays. Anything you know how to make with wood can be
made in the Student Woodshop.
Materials must be provided by the student.

Roy Wieselquist

From the Health Center
I am asking anyone who has a car and is willing to transport patients to pleas give me your name and phone number. ician Dr Kinzer or Dr Rivers, the physcologist, should call me for an appoint ment, at extension 53.
The Student Health Advisory Committee has two vacancies; anyone interested in serving on this committee should let your delegate of the Delegate Council or Dan Jerrems know.

Marilyn Baldwin Kyle College Nurse

There will be a meeting to determine a class time of those interested in taking Mr. Sarkissian's Organic Chem. course at 4 on Wednesday, the 17 th in room 21 (MacD.)

Andy Wisniewski

## DOCKSIDE

## Annapolis

Dock folk think
Dave's crab stuffings
are great, but I say
Bouillabaisse is best.


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The Golden Arches of the Galazy On! You who wander the distant stars Wo seek to bring day to the far-sleeping night
Wherever you go you always shall se
Wherever men are men who are free-
A beacon which shines upon those who must The Golden Arches of the Galaxy! -Cadet Song, Hamburger
"Captain, there's trouble off Mu Ceti. Apparently the Taurans have intercepted one of our supply ships."
"Sound the fall-to, ensign, and then resume your post. Five planets are depending on that ship for their burgers, and t's up to us to see that she gets through."
"Aye-aye, Captain."
In the late 2030s, space travel was up for grabs. Neither American voters nor Soviet workers saw economic necessity in it, and the few colonies which had keen established on planets of nearby stars were no longer dependent upon ships from Earth. Besides, all astronautical agenies were bankrupt, because all Earth governments were. There was one force that thrived, however, one force that laughed at the economic plague toppling social systems and business empires like King Kong swatting the 7th Avenue El (he didn't even have to pay a token). One force alone that could not only sustain itself, but provicie acceptable levels of employment, food distribution, and advertising material on a tightrope-walking orld, and, since the inception of light

Fry em! and a Tauran ship went down in a sizzling hot salvo. "Well done," announced the captain's voice. The Quarter Pounder was still badly outnumbered, but hers was the advantage of a double cheeseburger design twin patties of 360 degree firing and pi oting maneuverability, the rest encased in two diamond-hard buns. Again and again the beam shot forth. Two more Tauran craft went down to deep-fried defeat. One thee was downed by bill rerguson, only hree wonths ago a senior graduating the Academy
"Yes, and it really feels great. As if
really were- Great Mac, Sam, get down!" airight, Sam?
"He's dead," someone answered.

It was natural that the early colonists, divorced from Earth by a journey of dec ades, had brought with them the only thing which had overcome the ceniuriesold barriers of ideology and culture. In deed, it was only the universality of this force that had prevented the abject nations fron seeking recourse in global warfare. An organization which sold burgers for francs, pesos, and yen could see the petty delusions of nationalism. And where diverse peoples ate the same food every day, the other habits peculiar to each nation became charming, rather than cause for xenophobia. There were ro significant differences left to defend. In 2042 , brother's hatred for brother discarded in the toy chest of history, the urge for battle forgotten like a iank rusting in a sunlit readow, man joined hn era of blantiy, but then firmly. It was of sufficiency the of and, after the United States paid its debt to MacDoland's by handing over its fleet of spaceships, one of exploration:

The Death of Harry Henson Burg-O-Naut
The small craft touched duwn on the virgin planet. Harry opened the hatch and extended the ladder. Preparatory to making the first human step on this world, he. threw down the javelin bearing the flag of the MacNited Nations, point first. The javelin stuck, then flew away. Strange, thought Harry. It almost looked like the planet spit the durned thing out Undaunted, he climbed down the ladder and uttered the words heara in millions of MacDoland's (Over 16 trillion servea) on a dozen planets: "One small step for a burgerman, one Jumbo step for MacKind!", and stepped onto the istrange surface.

## GUPP!

"Grill 'em! Make 'em pay!" So shouting, Captain Roland MacDoland IV led the EVA party in his distinctive ancestral spaceparty Taurans were pouring out of disabled ships, some firing upon the Quarter abled ships, some firing upon the quar their remaining able ships. "Don't let 'em get away!" A blow from behind sent
the captain reeling through a blackness indistinguishable from the depths around him; these stars he was seeing- were they in hiseared; he whirled around, seized the Tauran by his horns; "You...deserve....a break...today!" he gasped through clenched teeth, kicking the Tauran in one of his four stomachs. (The Taurans are not so called because they originate from a planthoug they do. They are actuall even thout intelligent as buls iy as Homo Mac and even ore ly advanced ascere the slaughter of peair innocent cousins on MacFederation theirets is concerned.) Cashiers were evplanethere, ringing up victory after victory. The subtotal was defeat, the pricesurrender or death. Just as this battle occurred during the waning stages of the steeroid-humanoid conflict, it seemed to
be nearing completion itself.
Suddenly, a craft like no other in the galaxy appeared- the El Toro, flagship of the tyranotaurus, Steeroid counterpart to the Great Galactic MacFederation's Grand Overmac! No natter; soon it, too, would be split open by the Quarter Pounder's
infra-beams like a burger waiting for infra-beams like a burger waiting for catsup and relish.
The process had reached its end. In half a decade MacDcland's nad progressed from the cultural facet nost likely to survive the shift from Earth to stars to the one leading the way; from the only game in towr with money enough to build new lightspeeds to the only one with reason to do so- franchises. But MacDoland's huge capital reserves held a potential for expansion that lightspeed didn't even scratch; until 2050, no aliens had been. found. Except for microbes and fungi, and they don't count, not even as material for burgers. It was in 2050 that taste suinelans working on ani improved secre as tachytrole upon the particles known on that day the ( ${ }^{\text {a }}$ MacDoland's as sole and forequeatir Closer and closer loomed the her hide shedding the infra-beam's $\frac{\text { Toro, }}{\text { bol }}$ with ease. In the shadow caused by her bulk swarmed the spaceworthy Tauran bat tleships; in minutes they would disperse and pummel the Quarter Pounder from all directions. As he viewed the giant ship gliding past him, Captain MacDoland could not help but think of the whale of
ancient story for whom the fishburger, Moby Mac, was named. Was he still swimming the seas of Earth, that deathless whale?
Whenever man advances, whenever he steps on places not allotted to him, danger comes forward to press him back to where he came from. The white whale would ever have been seen if sailors hadn't ventured far beyond the normal shipping lanes, where none but whales were ever e ho... lush and solid ground sudden burst of clarity ar ... With a in league with that other captains the centuries and the years night's sail from those troubled waters.
Making his way back to ship, he ordered over suit radio, "Get out...Big Mac!

Phil Reissman
Next Week: MacKind Adopts a Younger Bro.

Found in Music Library-
one dark blue leather wallet (no identification)
one volkswagen key
music librarian

## You can still dia us As they diaup our street

## Robert de La Uiez

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ON GALILLEO'S USE OF EXPERIMENT
Note by H. Golding
I have submitted the article below for printing by THE COLLEGIAN especially for two reasons:

1. In the past I have heard from some tutors (perhaps as a result of their reading A Koyre on Galileo?) the sugleast some of the experiments he mentions in the TWO NEW SCIENCES and particularly The one mentioned in Naturally Accelerated Motion, Proposition II, Corollary I (National page 212; Stillman Drake translation page 169). Exposure to criticism of this view seems warranted.
2. Junior laboratory students have read or soon will read the report of the experimented mentioned above. They may (should?) be interested in this careful attempt to duplicate what Galileo probably did and the results which may be obtained.
The students will perform later an experiment similar to it but will use Buck Rogers' equipment.
(A third, some what peripheral reason, for this printing, is actualizing my desire to have goo
Collegian.)

Those interested in reading further on Galileo's use of experiment will find of interest:
Thomas Settle, "Gaiileo's Use of Eixperiment as a Tool of Investigation" in GALILEC, MAN OF SCIENCE, edited by E. McMullin, 1967, Basic Bcoks, (pp. 315337.) (I have a few copies of this article.)

## anu

Stiilmañ Drake, "Tle Role of Music in Galileo's teperimerts," SCIENTIFIC AMERRICAN, Junc, 1975 . Mr Drake allude to relevant and recent AN articles of his ana to Mr Settle's article printed below.

A note on the page regerences:
Settle's (1, p. 171) corresponas
to Drake's p.i69.
Settie's (1, p. 154) correspondis
to Drake's p. 153
Enjoy!

## An Experiment in the History of Science

With a simple but ingenious device Galileo could obtain relatively precise time measurements.

Thomas B. Settle

On the "Third Day" of his Discorsi urally accelerated motion. To get a (1) Galileo described an experiment in which he had timed a ball accelerating along different lengths and slopes of an inclined plane. With it he believed
better appreciation for some of th problems he faced I have tried to reproduce the experiment essentially as Galileo described it. In the process I found that it definitely was technically
feasible for him, and I think I gained a good idea of the type of results he probably looked
He described the experiment because in his words: "in those sciences where mathematical demonstrations are apin the case of perspective, astronomy mechanics, music, and others []] the principles, once established by well chosen experiments, become the found ations of the entire superstructure" (1, p. 171). In this case his aim was to establish a science based on two prin ciples: (i) a general definition of unoccurs in nature" ( 1 , p. 154), as tha motion in which equal increments of velocity are added in equal times and (ii) an assumption that "the speed acquired by one and the same bod

The author is a graduate student in the histor
moving down planes of different in clinations are equal when the heights of these planes are equal (1, p. 163) tions directly, he claimed that he tested consequences of them which, to us, seems to carry the same weight.
This is relatively straightforward Though Galifeo did not give us a sampling of his data, he did tell us what equipment he ised, and did state explicitily that his results were very good
Since we know his "principles" were correct theoretically, we should have no reason, on the face of it, to doubt any of the particulars.
Yet they have been doubted. Before the publication of the Discorsi. Marin Mersenne had seen references to the experim. From these he had tried to per form the experiment; and because, probably, of a combination of conceptual and experimental errors, which we need not explore here, he conclud ed: "Ie doute que le sieur Galilee ayt fait les experiences des cheutes sur le plan, . . . l'experience r'est pas capabie
d'engendrer vne science" (2). Perhaps taking his cue from Mersenne, Alex. laking his cue from Mersenne, Alex on the "amazing and pitiful poverty of experimental means at his [Galilco's] disposal": "A bronze ball rolling in a smooth and polished wooden groove. A vessel of water with a small hole through which it runs out and which
one collects in a small glass in weigh it afterwards and this measure the times of descent (the Roman water-
lock, that of Ctesebius, had been al ready a much better instrument): what and inexactitude!" (3)
An interesting conclusion, but I think a bit premature. To my knowledge no one has ever tried to perform an experiment equivalent to the one Galileo described. The laws of acceleration have been demonstrated many times no one, including Mersenne, has byer tried to find out if Galileo's wooden channel and water timing device ac tually worked, or what sort of results he accepted as the foundations of his new science. If these questions were merely of antiquarian interest we could leave them to the mercy of each indi-
vidual's philosophic predisposition. But they are more; they weigh heavily up on, and are in fact basic to, any ade quate evaluation of the logico-scientific tatus of Galileo's exposition of nat urally accelerated motion, his real conributions to science, or his views on the ature of science and the need for ex eriment.
hope to show that this experimen maturity is simple straighforward and easy to execute. Thus far I can only eproduce the end product of a process of evolution (in Galileo's own mind) which may have covered 20 years There is, in addition, a fascinating and vastly important body of knowledge "hringing to maturity" of bo and theoretical and empirical aspects of this
experimentation, just as in most other significant departure points in the his-
tory of experimental science. Eventually tory of experimental science. Eventually
we would like to know the actual evolution of Galileo's thought in time as well as logic. For each step of original work we would like to know the mistakes and dead ends, the contributions and limitations of the existing technology and mathematics, the many conceptual aids as well as hindrances inherited from his contemporaries, and predispositions. This could, we would hope, give us broader insights into the formative stages of any new discipline. But for now our aims are more limited. First, let us see what Galileo himself says of the experiment ( $1, \mathrm{pp} .171-$

A piece of wooden moulding or scantling, about 12 [braccia (4)] long, half a
[braccio] wide, and three thick, was taken; on its edge was cut a channel a little more than one finger in breadth; having made this groove yery
straight, smooth, and phisher straight, smooth, and polished, and hay-
ing lined it with parchrent ing lined it with parchment, also as smooth
and polished as possible, we rolled along it a hard, smooth, and wery round bronze ball. Having placed this board in a sloping position, by lifting one end some one or
iwo (braccia) above the orher, we rolled the ball, as I was just saying, along the channel, noting, in a manner presently to
be described, the time required to be described, the time required to make more than once in order to measure the time with an accuracy such that the
deviation between two observations never exceeded one-tent of a pulse beat. Hav-
ing performed ing performed this operation and having

rolled the ball coly one-quarier the leagth
of the channel, and having measured the time of is descens, we found it precisel Me-halif of the former. Next we tried the whole length with that for the half, or widt that for two thirds, or three-
pourthes or indeed for any fraction; in lourths, or indeed for any fraction; in
guch Emperiments repeated a full hundred
fimes stimes, we always found that the spaces timeverssed were to each other as the
gquares of the times, and tis was true squares of the times, and this was true
for alliinclinations of the plane, i.e., of
the clannel, along which we rotled the
tain whe oberved that the times of dethe channel, along which we rolled the
ball. We observed that the times of de
zcent, for various inclinations of the 3cent, for various inclinations of the
plane, bore one another precisely that
ratio which, as we shall see later, the Author thad
for them. for them. ployed a large vessel of water placed in an elevated position; to the bottom of this vessel was soldered a pipe of small diameter giving a thin jet of water, which we col-
loced in a smali glass during the time lected in a small glass during the time
of each descent, whether for the whole length of the channel or for a part of its
length; the water thus collected was lenght the water thus collected was
leighed, after each descent, on a very weighed, after each descent, on a very
accurate balance; the differences and ra-
tios of these weights gave us the difiertios of these weights gave us the difier-
ences and ratios of the times, and this ences and ratios of the times, and this
with such accuracy that although the with such accuracy that although the
operation was repeated many, many times, operation was repeated many, many times,
there was no appreciable discrepancy in the results.
Them let us recognize what, exactly Galileo sought, so that we will demand no more of his work than he dic himand form of Euclidean geometry. He had neither the apparatus of functional mathematics nor the interdefined system of standard weights and measures which would allow him to work with such a formula as $s=1 / 2 g t^{2}$. He designed his equipment for less sophistiit to show that: (i) for a given inclination of the plane, the distances a ball travels are in direct proportion to the squares of the time intervals (5):

$$
S_{2} / S_{2}=T_{1}{ }^{3} / T_{3}{ }^{3}
$$

and (iii) for planes of different incliaations, the times of descent are proportional directly to the distance of travel and inversely to the square root of the vertical height of fall (6)
$T_{2} / T_{3}=\left(L_{1} / L_{2}\right)\left(H_{2} / H_{1}\right)^{8}$
This is important for at least three easons. We must not ask him to give as a value for the acceleration due to gravity as we understand the term. great deal of further development in

Physies and mathematics (7). Nor thould we expect him necessarily to give determinations that might be anthing. In addition, we see there is little justice in Koyre's criticism that Galileo failed to account for rotational inertis
(3). Not only did the problem not exist in his mind, but it was irrelevant to the proof of his laws. The functional equivalent for

$$
s=1 / g g q^{r}
$$

for a ball on an inclined plane is

$$
s=1 / 2(5 / 7)(a / c) g t^{2}
$$

$a / c$ being the ratio, for a given slope, of the vertical height of fall to the slope tational inertia; being constant, it does not affect the proportionalities given
above. Finally, because he could work above. Finally, because he could work entirely with ratios, Galileo could be completely arbitrary in his choice of measures.

## Reproducing the Experiment

The most difficule part of executing the experiment lay in the necessity of choosing equipment and procedures which were available to Galieo or which were inherently no better than
those he could muster. In making a plane, for instance, I assumed that he would have had excellent craftsmen at his disposal but that the work would have been done essentially by hand. Nonetheless, after choosing a 2 - by 6 inch pine plank 18 feet long, with a straight grain and fewl knots, I had a $1 / 4$-inch rectangular groove cur in one I hand-sanded the surfaces, applied wood filler, and thoroughly rubbed in wax, making the rolling edges of the groove hard and smooth. Even so, there were irregularities where knots or the grain crossed the groove. But I made no further attempt to make the edges
exactly parallel over the whole length. exactly parallel over the whole length.
I used both a standard billiard ball and a steel ball bearing, respectively about $21 / 4$ inches and $7 / 8$ inch. in diameter.
For tirne measurement II used an ordinary flowerpot as a water container and threaded a small glass pipe through its bottom hole for the outflow. In all long and tad an inside diameter of about 0.18 inch. Its upper end was
positioned high enough for mee to
cover it easily with a finger white my pam zested on the rim of the pot. Enstead of collecting the water and then weighing it on a balance, I collected it in a graduated cylinder and
"wweighed" it by reading its volume in weighed" it by reading its volume in milihters
Then, for each reading, I placed a wooden block at a predetermined dis. tance down the slope; filled the pot the inside end of the pipe; filled the pipe by letting the water flow briefly; sook an initial reading of the waicer the ball at the starting position on the plane with my free hand; released the ball and lifted my finger simultaneously; replaced my finger at the sound of the ball striking the block; and took a final reading of the graduated cylinder.

How good was all this? From a study of the ratios we know that Galileo had length, vertical height of fall, and time. The first was easy; I marked off the plane in even foot lengths, using a 1 foot architece's scale. Actually, all either I or Galileo needed was a compass sufficiently large to mark of convenient unit lengths and sufficiently rigid to do it accurately. Then ra-
fios of length turn out to tios of length
fractions.
Galile
iractions.
Galileo
Gatileo did not mention how he level techniques for various purposes had been used in the building trades for centuries, and measuring heights would have presented no serious problem. I took a long piece of flexible
tubing, fixed a short length of glass pipe in either end, and filled it with water. Placing the meniscus in one pipe at a mark near the lower end of the plane, I could measure vertically from the meniscus of the other pipe to a mark near the upper end. For each inclination we need only one such measure to compare with the distance between marks. The scales do
even have to be to the same base. Of the three measurements, measurement of time is the most controversial and the most difficult. With a little thought we find that it has two crucial aspects: we want the flow from the pipe to be uniform for at least the period of our longest readings, and we release the ball and the water flow at the same time and stop the flow at the operator is an integral part of the apparatus. He must spend time getting the feel of the equipment, the rhythm
of the experiment. He must con-

## Table 1. Sample of experimental results. and calculations which confirm Eq. 2 . Time (ml of water) <br> |  | Distance |  |  |
| :---: | :---: | :---: | :---: |
|  | (Exp.) | (Av.) | (Cal.) |
| 15 | 88 | $90+$ | $90+$ |
|  | 91 |  |  |

we must remember that the
sciously train his reactions. And each day, or at the end of each break, he must be allowed a few practice runs plished all this by repeating the experiment "many, many times." Then we nust remember that this is not a water clock; it is what it is and no more-a container for water with a pipe of small diameter in its bottom and with no dials, falling weights, or gear trains. All we are interested in,
we find, is maintenance of a constant we find, is maintenance of a constant
flow in the pipe for a maximum of 8 seconds. How can we test this? Galileo mentions a "pulse beat." Is it possible that he checked his own flow rate against a beating pendulum, a pulsilogia? On this hunch I made a simple pendulum out of a piece of thin wire and the billiard ball. Since a 1 -mete pendulum has a beat of about 1 second, than a meter long so that it would beat at about pulse rate. By watching the shadow of the bob against vertically lined paper I could accurately lift and reset my finger in the timer at the end of a beat. I found, after collecting water at intervals of $2,4,6,8$, and 10 beats, that the flow was indeed con
62-. $62-$ As below (9). interest, using the second-hand on my watch and timing for 5 - and 10 -second intervals, I made a rough deternination of the rate of $52 \quad 52+\quad$ flow and found it to be 19.5 milliliters per second. It followed that, if I could measure a definite interval to within 2
milliliters, my apparatus would be premilliliters, my apparatus would be pre-
cise to almost $1 / 10$ second. In fact, it was very common to get sets of points well within this limit, to 1 milliliter or about $1 / 20$ second. Is this better than Galileo could have done? My flowerpot ass probably smaller than his "large
vessel," giving me a greater fall of head for each reading. If my flow was "con stant," his certainly was. Then we "conthing in doubt is the "weighing" From Agricola we learn that early 16 th cen tury assayers could weigh with precision to the equivalent of 0.2 grams (10). My cylinder was graduated to
milliliters, and I read to 1 milliliterthe one that Galileo could have con manded.
We note further that Galileo, thoug slopes, only claimed to have success fully tested relatively shallow ones.

Table 2. Experimental data obtained with
he billiard ball for the bases of three slopes, nd ines computed trom one of the ofine
 Slope $\frac{\text { Experimental data }}{} \frac{\mathrm{L}}{\mathrm{L}} \frac{\mathrm{T}}{} \mathrm{Calculated}$ data slo

|  | Llope | $a$ | T | T |
| :---: | :---: | :---: | :---: | :---: |
| a | 12 | 2.92 | 117 | $118-($ from b) |
| b | 13 | 6.25 | 84 | $85-($ from c$)$ |
| c | 9 | 11.47 | 52 | $51+($ from a) |

Whether this was the result of experimental insight alone or of poor results obtained at steeper inclinations we do not know. But the reasons are obvious. The theoretical results are only valid if there is no slippage between the ball and the plane and since the errors in curacy decreases with the shorter in tervals. So I followed Galileo's example, nor did 1 think it particularly worthwhile to ciy to find a maximum practicable slope.

## Experimental Results

As I have intimated, all this turned out quite well. Table 1 gives a representative sample of some experimental Eq. Eq. 1 above. This particular rue;

$$
a / c=6.25 /(8 \times 12) \text { inches, }
$$

or about $3^{\circ} 44^{\prime}$. The distances are given in Table 1, column
Column 2 gives, for each distance the several observed times in milliliters of water. In this case all except the last set were recorded one evening, this last being recorded the following morning. Here we see the process of warming up; only after the first six readings did I begin to take the results seriously.
Column 3
Column 3 merely gives the sightaverages of the good readings of col-
umn 2. They serve as specific times for the distances where these are needed in further calculations or comparisons.
Column 4 shows calculated times. Whereas Galileo struggled simultaneously with two unknowns, the validequipment, I was really using known and accepted laws to deternine the latter. As a result I have chosen to focus on the most ticklish part of the

## 10

work, the time measurements, by comparing the experimental and theoretical the sight-average time for one of the middle-to-long distances as a base. Then, using the equation

$$
T_{1}=\left(S, / S_{i}\right)^{1} \times T_{3},
$$

1 calculated times for the other distances: Actually, we are comparing experimental points with points on a parabola passing through one of them. This comparison needs little comdistance 10 , is less than 2 milliliters, or $1 / 10$ second. Elsewhere, by and large, the deviations are considerably less.
The check of Eq. 2 turns out just as well. To fit my data and purposes I reduced it to

$$
T_{1}=\left[\left(L_{1} / L_{2}\right)\left(a_{2} / a_{1}\right)\right]^{3} \times T_{2}
$$

a being a unit measure of vertical height. Table 2, columns 1-4, shows the pertinent experimental data, obbases of three slopes. Column 5 shows times computed, as noted, from one of the other slopes.
The results of the tests made with the steel ball were just as good, but 1 found that they were not comparable with those made with the billiard ball. For instance, on the shallowest slope, in 136 milliliters but the steel ball took 4 milliliters longer. This seemed odd; theoretically, neither the mass nor the radius should affect the acceleration By the correct formula we can calculate that both balls should have traversed the distance in 132 milliliters. Actually, because the balls run on the ning" circumferences are slightly less than their real ones, so they require more revolutions, and more time, to cover the same distance. A rough cal culation shows that this fact probably accounts for most of the discrepancies Had Galileo noticed similar differences between results for balls of different
size, he probably would have ascribed bize, he protaty to frictional retardation. In any case, it appears that they would no have controverted his proportionalities.

Conclusion
1 have tried to emphasize the simplicity and ease with which these results were obtained. The only extended effort put into the equipment was with respect to the plane, and then only to the limits already mentioned. And ex oping my own ear-hand coordination, Imaintained a deliberately cavalier at titude towards the procedures and measures. For instance: the striking block and the starting position were located at the marks on the slope only by eye; the vertical height reading and patience would have allowed. and and patience would have allowed, and brought to as high a polish as a larger pot, a smaller pipe, and a finer "balance" would have made possible. But with no more precise knowledge of Galileo's tools than what can be learned in the passage cited, I wanted to give error and inexactitude every reasonthey did not.
What of this? When I said that Galieo worked with two unknowns. meant it only from a logical point of view. By the time both the theory and the experiment had evolved to the evel implicit in the Discorst, Galle he worth of each independently, irre spective of their mutual confirmation And the fact that they coincided so nicely added one more to the list of chose sciences in which mathematical demonstration is appropriate to physical phenomena. But it was not as simple then as it seems now. Science of the deepest prejudices of the Middle Ages, one which regarded all here below as corrupt and innately lacking the perfection, mathematical or otherwise, of the real world. At one place in Galileo's other major work, the Dialogo, Simplicio is made to express this opinion by saying: "In physical science matical precision of evidence" (11) By finding this excellent approach to perfection in the physical world, Galileo took a long and important step in this early phase of experimental science.

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## theatre news

There will be an organizational meeting of the King William Players next Wednesday, the 17 th, at $7: 30$ in the Conversation Room. We will discuss the new charter and begin planning this year's everyone interested in writing, acting, directing, or otherwise joining the the atrical world of St John's College.

TW Hendricks

## $\triangle E I T N O E O \Phi I L T A I$

The Deipnosophists, or Learned Banqu eers- St John's only group of people steadfastly dedicated to the unflagging pursuit of the one, true liberal art, ioe e the art of Good Living- intend this realm of "splendir explorations of the ultima Nend insensitivity to the involving the consumptivagant symposia ties of wine and food are in the quantiAnyone interested in joining in the fes. tivities please contact me through the campus mail or call 263-9127.

Bill Randolph

There will be a meeting for all sons interested in learning and playing the game of go this Tuesday evening at $7: 30 \mathrm{pm}$ in the coffee shop. Go is a Chi nese-Japanese board game.
All you people who want some Eastern intellectual activity have had your fondest dreams fulfilled. Come and learn to play. --C Stoll for the Go Club

MODERN DANCE CLASSES
This year the Annapolis Association for Contemporary Dance is offering a class in jazz dancing as well as classes in Graham technique. These classes will be held on Tuesdays in the backstage area of FSK, and, as usual, there will be a $1 / 3$ reduction of tuition for wi John s students. Regious: R and elass schedule are as
follows: Registration: Tues., Sept. 16 Classes: Jazz $3: 30-4: 30 \mathrm{pm}$

El 3:30-4:30 pm 7:30-8:30 pn Advanced Graham Technique

8:30-10:00 pn For further information, call 268-2919 or 268-8838, or come to registration in FSK. If you're interested, get in touch with us soon; classes start on Iuesday, Sep
-- Veronica Skinner

vegetarian's paradise for sandwiches

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máain st. annapolis 269-1770


## 12

Edifice Wrecks -- A play with no acts to grind
Cast-Off Characters
Rosencr ta añ Guildenstern
( a female impersonator)
Connors and Evert, ( mixed doubles )
Home, (a place to hang your hat)
Bertrand Russell, (a scat singer)
(The audience is composed of the spectral dpraritions of the GREAT PHILOSOPHERS. iresent are the etheric doubles of such dialecticians as FLATO ARISTOTLE, DESCARTES and DICK CAVETI The curtain rises on the quiescent campus of StJohn's College as the early morn ng sun shines over Annapolis. PRESIDENT WIEGLE is asleep on the quad and looking quite snug in a pair of Dr . Denton's. All the buildings on campu have gathered in a circle about the somnolent figure. Looking serious and solemn they are preparing to discuss an important subject. McDowelu HALL, the seaior edifice in the grouping, sits lumly purfing a meerse RANDATI HALI smouldering cavenam. Reeks of puffy-eyed and PTNKNEY looks detached enedicine.. MEILON HAIL sneer nd fallen asleep. The discussion opens with the rap of a gavel...
McDOWELL HALL (in brusque, stentorian voice): Well gentlemen, I suppose you are all wondering why I have called thi meeting at such an early hour

RANDALL HALL (obviously blotto): Yesh. yesh indeed... hic... excush me... would shertainly like to know..

CHASE-STONE (retrieving his pince-rie which has slipped into a tumbler of Perrier water): Yes quite old man. Ahhrrrmm... I think all of us would like to get on with this business. We ve all busy schedules and I for one wuuld opt for expedience in this matter: Procrastination is the thief of time and all that... besides is quite frankly stacked like the Great Pyramid. (The aforementioned femme fatale enters stage right. It is CAMPBELL HALL; stage right. It is CAMPBELL HALL;
a tient cashmere sweater. Her entrance halts the discussion and the other buildines are all stairs. She seats herself, hoisting her skirt as she doos quietly choking on his mineral water, and places her thirteen volume O.E.D to her right)

CAMPBELL HALL (combing out her tresses) Ohh hi boys! So sorry I'm late but do hope you'll forgive me. (a chorus of breathy e.ffirmatives echo round the table) On thank you... ycu're all dears. RANDALL HALL: Hi toots.
CAMPBELL HALL (turning the other racade) : Don't taik to me you Neo-Georyian Casanova!
McDOWELL HALL (taking command) :
Well, enough schmoosing...now down to business. That man who sleeps so peacefully is the cynosure of the onerous pyjanas hich I must make manifest today. (PACA CARROLT snorts loudly in his sleer (PAC and roll He does not awaken) President Wiesle has, for the past year, been threatening the buildings on this campus with numerous renovations that are as ludicrous as they are unecessary.

WIEGLE (talking in his sleev): Mmmpppfffr ...Boola boola, Boola boolá, Goooo Bulldogs!..Mmmpprfffrrr...'Zzzzzz.
CAMPBELL HALL (polishing her nails) Hmmplf...a Yale man.

McDOWELL HALL (ignoring the sneer) As you know he planned to add a wing on to PACA-CARROLL and the drilling would be certain to keep poor HUMPHREY'S in constant agitation. It was only an attack of rheumatism that kept her from today's meeting. This isn't all, fellow buildings. The clincher is his plan to move the dining hall to the IGLEHART GYM.

CHASE-STONE: Preposterous of course!. But where is IGLEHART? I don't see him present.
McDOWELL HALL: No I'm afraid he had a
lacrosse match today and couldn"t make it. But the upshoot of all this is what to do about this fiend Wiegle.
WIEGLE (still asleep): MMMpppfffrrs... disgraceful the way the studentry dressed for lecture night...showing up in
nothing but cravats....collegian a scandal sheet...a penny dreadful of smut and porn....won then Yuman.

CAMPBELL (putting in contact lenses) That man is utterly revolting.

WIEGLE (suddenly awake and in a seersucker suit) you ain't seen nothing yet. My ruddy-hued face attests to the fact that I've been running myself ragged trying to get the scratch to keep this little nuthouse in the black. (showing blueprints) Here... this is the deal... give a look and if you see something you like we can talk price.

McDOWELL HALL: Nothing doing.
RANDALI HALL: Sour grapes to you Uncile Wiggly!

WIEGIE (golf bag slung over shoulder and tennis racket in hand) Sorry boys but now that I've collected my equipage its 11 to Santa Fe where I'm considering aving the lecture hall into the men's and walking distance. So long and ciac! (he pivots and steps into a waiting Piper Cub. The architecture looks nonplussed.)

McDOWELL HALL (defeated) Defeated.
CHASE-STONE (cheery) Nonsense old boy. We tried and that is what really matters. Let us now to my place for some rounds of Drambuie to soothe the pain of the ignominious drubbing. (all the buildings heartily agree and run off the stage in different directions. The audience applauds.)

VOICE OFFSTAGE: Quiet! You'Il wake the actors! (PACA-CARROL工 runs on stage, dripping wet, just as the lights go out The electrician replaces the fuse an the lights come uq again, this time on the audience where PLATO, ARISTOTLE,

DESCARTES, and CAVETT are seated around a bridge table. PLATO deals three card to himself, one to ARISTOTLE, seven to

PLATO (checking his hand): O.K. Go fish. ARISTOTLE: Gin!

DESCARTES: I've got the Old Maid.
CAVETT: Can you beat a straight flush?
PLATO (pedantic): Obviously we are all ngaged in a different game su let us chuck the whole deal. By the way Aristotle, what did you think of the play?
ARISTOTLE (dissecting a guinea fowl): Well as I've said... a play must have a beginning, middle, and end. This work was lacking in all three categories.
PLatO: And you Cavett?
CAVETT (tearfully eyeing a strip of celluloid on which his old series was (DESARTE tips ove his nith DESCARTES tips over his milk glass, begins bawling and exits)

PLATO: This is dragging on a bit.
ARISTOTLE (peripatetic): Oh you and your Ideas: We should never have come here. Besides, I'm not dressed for it.

LatO (unctuos): Well Ari...I know quiet little pub where we could get some ouzo...then to my place for a nightcap...a little soft music...and then.. well, who knows...

ARISTOTLE (winking): Ooooo...you are th sly one...certainly let us go down intc Piraeus. (they leave arm in arm
CAVETT (wild-eyed and sensing a comeback) wor our first guest; Elliot Gould Now for our first guest; Elliot Gould! chasing him offstage.)

ELLIOT GOULD (entering) Dick? Oh Dick? The lights dim as it begins to snow. the end.)

* the author wishes to express his thanks to Frank Lloyd Wright for making thanks to Frank lloy

Mr. Norman Iglehart will be arriving at $6: 30$ by the gym Wednesday evening, the 17 th , to "call" for on all campus square dance
collection.

On Friday, September 19, the College
On present in concert the Apple Hill Trio. They will perform the trios of Mozart, Beethoven, and Drorak.
The Apple Hill Chamber Players, of which the trio is a combination, are housed on a hundred-acre iarm in Southern New Hampshire and here live and work year round as faculty members at the Center for Chamber Music. The players coach small groups of students that attend the Center's summer session and shorter week end sessions throughout the year. The group first began performing together with a series of concerts in high that New Hampshire towns in 19. Sino that time, the group has travelled to the major citlee one Northeas presenting more than year.

The trio corsists of Beth Pearson, cel Iist, Robert Merfeld, piano, and Mowry list, Robert Meriel. All three are graduates of Oberlin Conservatory, with Mr Merfeld holding a Masters degree from Juiliard. They have performed extensive Iy an New England.
The concert, at $8: 15$ pra in $F S K$, is free and open to the public.

New Prok (Froryed "Wish You weet Hex ONE DEEK OULY $\$ 3.99$
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One Block Off Church Circle of the Corner of West St. \& Cathedral
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(Percentages except
Number of Students
Men
$\underset{\substack{\text { Number } \\ \text { Men }}}{ } 107$
Women
National Merit Honors Scholars
Finalists
Semi-Finalists
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Early Entrance
Previously Attended
College
Veterans
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$(4.6 \%)$ 5 (4.6\%) 2 (1.9\%) 3 (33.6\%)

2 (1.98)
Kind of School Attended Public
Independent
Parochial
Receiving Financial Aid
Age (at time of enrollment) Sixteen
Seventeen
Eighteen
Nineteen
wenty
ver Twenty
(Oldest is 65)
Visited
Before decision
After decision

Twenty-eight States Represented:

| Maryland | 20 | (18.6\%) |
| :---: | :---: | :---: |
| Pennsylvania | 13 | (12.1\%) |
| New York | 11 | (10.2\%) |
| Virginia | 11 | (10.2\%) |
| Illinois | 6 | ( 5.6\%) |
| New Jersey | 4 | ( 3.7\%) |
| California | 3 | ( 2.8\%) |
| Florida | 3 | ( 2.8\%) |
| Michigan | 3 | ( 2.8\%) |
| Connecticut | 2 | ( 1.88 ) |
| District of Columbia | 2 | ( 1.88 ) |
| Georgia | 2 | ( $1.8 \%$ ) |
| Kentucky | 2 | ( 1.88 ) |
| Maine | 2 | ( $1.8 \%$ ) |
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| Mississippi | 2 | ( 1.8\%) |
| North Carolina | 2 | ( 1.88 ) |
| New Mexico | 2 | ( 1.88 ) |
| Texas | 2 | ( 1.88 ) |
| Washington | 2 | ( 1.88 ) |
| Wisconsin | 2 | ( 1.8\%) |
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| Delaware | 1 | ( .9\%) |
| Indiana | 1 | ( .9\%) |
| Missouri | 1 | ( .98) |
| Ohio | 1 | ( .98) |
| South Carolina | 1 | ( .98) |

Two Foreign Countries Represented Iceland Turkey

If you know of any prospective students, teachers, or guidance counselors you think may be interested in St. John's, send me their names and addresses and I will send them informati interested in St. John's, se
about the College. Thanks.

Joanne Aitken

| Name | Prospective Student? |
| :---: | :---: |
| Address | Yes __No |
| Name | Prospective Student? |
| Address | Yes ___No |

Philip Corbin Allardice Alesanaria, Virginia

Marjorie Susan Allison Bethel Park, Pennsylvania
Karen May Anderson New Milford, Connecticut
Bruce Joseph Babij Boynton Beach, Florida
Faton Alain Bacaj Alexandria, Virginia

Julie Ann Berg Atlanta, Georgia

David Arthur Berger Great Neck New Yor

James Whitehurst Black Albuquerque, New Mexico

Todd Campbe 11 Bobo Clarksdale, Mississippi

Christopher Daniel Borden Annapolis, Maryland

Katherine Joan Buck Fairfax, Virginia

Edward Joseph Burgess Flushing, New York John William Burke Auburn, Massachusetts

Jennifer Judith Burns Wilmington, Delaware

Ellen Marie Byrnes
Ann Arbor Michigan
Michael Jeffrey Case Reynoldsburg Ohio

Rhonda Alexa Chocha Chambersburg. Pennsylvania

Carol Ann Colatrelia Jackson, New Jersey

Alan John Cook
Atlanta, Georgia
Scott Michael Cooper Ossining, New York

Bret Finley Cope Issaquah, Washington

Robert Patrick Covelli Huntingdon Valley, Pennsylvania

Anthony Macy Bovingdon Cox Washington, D.C.

Frederick Giffard Cox Scarsdale, New York

Stephen Melvin Crampton Pioneer. Tennessee

Jeffrey Charles Crigler Arlington, Virginia

Mary Elizabeth Caufield Cumming Annapolis, Maryland
Jennifer Brooke Diamond Tucson, Arizona
Catherine Claiborne Eldridge Washington, D.C.

Michael Vallette Elliott Kennebunkport, Maine

Nathan Ames Ellis New York, New York

Robert Dow Evans Baltimore, Maryland

William Henry Sage Fant Holly Springs, Mississippi

Julie Virginia Farrell Keflavik, Iceland

## ark Alan Forreste

 heaton, MarylandNeloise Mary Shannah Frame Ios Altos Hills, California
wen Michael Goldin pringfield, Pennsylvania Senjamin David Goldstein lauvelt, New York

Douglass Paul Gray Catonsville, Maryland

Thomas Martin Griffin Camp Springs, Maryland

Benjamin Richard Haggara Santa Fe, New Mexico

Moses Michael Harris Chicago, Illinois

Randal Ross Hester Lubbock, Texas
Steven Matthew Holland Scarsdale, New York
Bruce Edward Hopkins Rockford, Illinois

Sally Ann Huelsebusch Naperville, Illinois

Timothy Patrick Hughes Detroit, Michigan

Robert Lee Humber Falls Church, Virginia

Jeffery Elizabeth Hume Monroe, Virginia

Charles Bowditch Hunter Rockville, Maryland

Charles Norman Hurt, Jr Gaithersburg, Maryland

Marjorie Anne Hutter philadelphia, Pennsylvania

Charles Foster Jones II waterville, Maine

Carol Lynn Katrina Swedeland, Pennsylvania

Elake Thomas Rizne
Baltimore, Maryiand
Kathryn Davide Kominars Alexandria, Virginia

Elizabeth Trent Leatherwood Fort Worth, Texas

George Richard Lezemby Anbier, Pennsylvanía

Jonathan Joseph Magidovitch Sumter, South Carolina
Wiiliam Hardee Nutuney, ur. Jacksonville, Flurida

David Mark Mazzeo
Newturgh, New Yorik
margery Vera Miller
Upper Saddle River, New Jerse
jean B. Oggins
Vestal, New York
Eltan Christopher O'Leary
Greensburg, Pennsylvania
Robert Ower Faris
ericho, New York
Daniel Nash Parker
-llver Spring, Naryland
zevir Willian parker
Ruanoke, Virginia
Jonathan Peter Patten
Hes. Bloomfield Hills, Michugan
Melinda Lee Pendleton
Nashville, Indiana
Mary Elizabeth Pennypackex Wayne, Pennsylvania

Jennet Peoples Geneva, Illinois

Frances Ellen Pickering Alexandria, Virginia

Joan Ellen Price Louisville, Kentucky

Charles Chaim Reuben highinat pazi, lilinols

Tina Susan Rhea Bootriwyn, Pennsylvania Robert Foster Richards Baltimore, Maryland

Margaret Susan Rosenberg Appleton, Wisconsin

Margaret Alice Fude Hamden, Connecticut
Jamelia Sared Fairbanks, Alaska
Kimberly Ann Schraf Latrobe, Pennsylvania
Kristina Mae Shapar Chevy Chase, Maryland

Stephen Molony Sharkey Gaithersburg, Maryland
brian. ineverman
Beloit, Wisconsin
Lisa Palma Simeone Pittsburgh, Pennsylvaria

Jeffrey Price smith Harwood. Maryland

Saui Arthar Stevens Axlelpha, Marylant

Pailip Carl Storma
Eureka, Canisomau
Robert Edward Tangora Walla Walla, Washington

Robin Frances Thompson Torrance, California

Blair Marie Toler Oxon Hill, Maryland
David James Tonjes Northport, New York

Deana Julij Tosheff Mount Rainier, Maryland William Hall Tripp Alexandria, Virginia

Byron Edwin John Truax, Jr. Miami, Florida

Douglas Robert Twig Pasadena, Maryland

Scott Edward Umphres Creve Coeur, Missouri

Karen Wachsuuth Mendham, New Jersey

## David Walc

 Pittsburgh, PennsylvaniaHarold R. Weisbaum P,tomac, Maryland
Ira Francis Weiss New York, New York

Robert Cox Werner Istanbul, Turkey

Renacti Lee Westmoreland inuasville, Kentucky

Isabei Brock Whistor. Amherst, Massachusetts

Roy Walter Wieselquist Greerisboro, North Carolina

Robert Stuart Williams Anmpolis. Mizyland

Kevin Charles you: y wildwood Crest, New Jersey

Brian Frederick Zenone Vienna, Virginia

Bruce A. Kolman
Wilmette, Illinois

Muesday Sept. 8, 9:30 pm McDowell 24
Present: Mr. Jerrems, Mr. Olson, Mr. Dixon, Mr. Grand, Mr. Magee, Mr. Elliot, Ms. McKay, Ms. Merritt Mr. Feuchtenberger, Mr. Weinstein, Ms. Nash

President Weigle has warned that if smoking in the auditorium continues, the films stop. Furthermore, he is not pleased by the preponderance of cats on campus. They may keep mice and cockroaches away, but occasionally they bring fleas to the dorms (your beds-your bodies) and a certain odor. Try to accommodate the reasons and rules against having them as you see fit or you and your pet may have to pay for it. Electricity too, is expensive. All politics aside turn off those lights.
RAM is rather in debt. No action has been taken on the bills yet. But the 200 dollars plus has to come from someplace soon.
Elections coming up in the next month or so. Freshman, you car. t run, but you can vote, and come to
D. Nash in the absence
C.D. Nash in the absence of Sec. Hencriks

More Notes...
Positions are now open to students interested in serving on the following committees: Instruction, Food, Student Life, and Campus Development.
The Student Committee on Instruction considers matters of curricula weekly and meets with the Faculty Commitlee on ntruction about four
spopals
The Food Committee makes and relays suggestions for the improvement of the manayers of the Dining Hall are looking managers of the Dining Hall are looking forward to working with this committee. should be substantially greater than it has been in the past.
The purpose of the Committee on Student Life "shall be to develop and propose legislation to the Delegate Council (concerning) the regulation and governance of non-curricular aspects of student life." --Constitution for the Government of the Student Polity

The Campus Development Committee is basically a faculty committee with three positions for student representatives. The committee has just completed work on plans for the renovation and extension of Paca-Carroll. The major work for this year will probably be in working out the plans for extending Randall Hall (renova tion of kitchen-serving areas) and the gymnasium.

There is also a position open for a student representative on the Alumni Board and two positions open for student reps
nors.
If you are interested in being on any of the above, drop me a note in the campus mail this week. The DC will be makpus mail this week. next Tuesday (the 23rd).
The Interim Delegate Council
$\frac{\text { The }}{\text { Campbell: Ken Kimble }} \frac{\text { Interim }}{} \frac{\text { Delegate }}{\text { Rachel McKay }}$, Cymphia Nash; Chase-Stone: Rollie Feuchtenberger; Humphries: Bernadette Keefe; Paca-Carroll: S Gray; East Pinkney: Joe Olson; West Pinkney: Karen Bent; Randall see Dan Jerrems or Jacquie Blue; Off Campus: Steve Weinstein, Arthur Dixon, Steve Magee.
President: Dan Jerrems; Treasurer: Bob Elliott; Secretary: TW Hendricks.
FRESHMEN: There will be elections in two weeks, so get to know the upperclassmen in your dormitory--one will soon be representing you. --Dan Jerrems, Pres.

The following is the operating Student Polity budget for this year King William Players $\$ 900$; Syndicate of Bacchus (waltz parties $\$ 100$, cotillion $\$ 200$, square dance $\$ 120$, large party $\$ 450$ ) $\$ 870$; RAM films $\$ 500$; Employment agency $\$ 25$; Astronomy club $\$ 100$; Fencing club $\$ 60$; Photography $\$ 80$; Boat club \$400; Karate club $\$ 75$; Jr-Sr Cocktail party $\$ 50$; Chess and Go club $\$ 50$; Polity \$25; February freshmen \$50; Christmas party $\$ 50$; Party fund $\$ 200$.
Should any of these organizations wish to use the money allotted to them, bills payable must be presented to the student Polity Treasurer for payment. The amo of each bill will then be subtracted from that particular club's allotment Money can be given of Delegate Council officers. Submitted by Bob Elliott

Seniors: If you plan to apply to graduate schools or law school for the 1976-1977 year, you should register to take the GRE or the ISAT this fall.
Next Graduate Record Exam is October 18 1975. Registration Deadline- September 26 1975.

Next Law School Admission Test is October 11, 1975. Regular registration has closed. Late registration deadline (additional fee)- Sept. 18, 1975.
representative of Temple In law school: a representative of Temple Law School will Tuesday, September 23, 1975, 3:00-4:00 in Tuesday, September 23, 1975, 3:
McDowell 22 (Placement Office).
A Marine Corps representative will be on campus to talk turkey from 10:00-2:00, Thursday, September 18, in FSK Lobby. --Brenda Robertson, McDowell 22 Ext. 21

## Do You Know Which Annapolis's store has

... The lowest record prices classics, rock jazz
... The lowest Stereo, Hi-fiprices SONY, Pioneer, Marrante
... Fast, reliable repoir service


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7 Parole Plaza (nexi tro the Booko cars ment $263 \cdot 2992$

MEN'S SPORTS by Bryce Jacobsen
Football: Druids-14, Guardians-12. The Guardians had not lost a football game in several years...Messrs Bell and. J. Harris had seen to that. But these sort of records are always precarious, and little things can cause a team's undoing. One little thing was that the Guardian receivers were not catching the ball very well in this game...which added up to unconverted conversions, and finally some desperation" passes that backfired,
since the Druids caught them.
The Druids are fast, talented, and tricky. They know what to do when they get the ball. They will be tough this year, or at least "pesky". And no doubt the Guardians will settle down and win some games, now that their godlike undefeated aura has come to an end.
ru
Football: Tues 4:15 Greenwaves-Druids Thur 2:30 Guardians-Hustlers Soccer: Sat 1:45 Greenwaves-Druids 3:00 Guardians-Hustlers Remember to renés your locker fee by Friday, Sept. 26 , if you want to keep Friday, Sept. 26, if you want to keep the locker.

## PARKING

Any unregistered car on the pasking lots will be towed away. Automobiles the Treasurer's Office. Any . Mann in on a red line will be fined $\$ 5.00$
C. T. Elzey

Treasurer

BOAT HOTSSE
Tuesday night at 8:00 McDowell 2I there will be a meeting for people interested in learning to sail.

Schedule
Mon Tues Hed ---- 2:30-5:00 Thurs Fri Sat Sun --- 1:00-5:30
People that are already authorized to sail should see Kimo Mackey in order to get an actual bay card

| MOMDAY: | L: Hamburger <br> Escalloped ham and potatoes <br> D: Deep fried perch <br> Pork Polynesian |
| :---: | :---: |
| TUESDAY: | I: Grilled cheese and pimento salad sandwich <br> Frankfurter Creole/Rice <br> D: Corned beef and cabbage Beef stew/noodles |
| WEDNESDAY: | L: BBQ Beef sandwich Turkey Tetrazinni <br> D: Grilled ham steak Spaghetti w. meat sauce |
| THURSDAY: | L: Tuna salad sandwich Beef ravioli/sauce <br> D: Hamburger steak/sauteed onions Chicken pot pie |
| FRIDAY: | I: Beel and cheese on onion roll <br> Western omelette <br> D: Pappy Parker fried chicken Baked whitefish supreme |
| SATURDAY: | L: Double dig'egg salad Cheddar beef bake <br> D: Braised Swiss steak Julienne Turkey Rice wo mushroons |

Di Dotatoes Pork Polynesian
L: Grilled cheese and pimento salad sandwich Frankfurter Creole/Rice
D: Corned beef and cabbage
BRQ stewhodes Turkey Tetrazinni
D: Grilled ham steak Spaghetti w. meat sauce
I: Tuna salad sandwich Beef ravioli/sauce
D: Hamburger steak/sauteed onions Chicken pot pie
FRIDAY: I: Beel and cheese on onion roll
Western omelette
D: Pappy Parker fried chicken Baked whitefish supreme Onda bees salac

D: Braised Swiss steak Julienne Turkey Rice w. mushrooms


since teza

Steak Nite
Baked Moussaka
German Sauerbraten
Corned Beef \& Cabloage
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