

How Did Sputnik Get Up" And How Does It Stay Up There"

Talking to an audience two thirds of which did not have a background in elementary physics, Mr. John Barss, of the Physics Department at P.A., discussed two questions involving Russia's satellite, Sputnik. His talk was centered around the problems "how did it get up?" and "how does it stay up?"

To illustrate his answers, Mr. Barss had made two slides concerning Newton's three laws of motion. The third law, "if body A exerts a force on body B, then B exerts an equal and opposite force on A," shows how Sputnik was first launched. When the fuel is burned, the rocket pushes the particles of the fuel back against the wall and push the rocket up with the same force as the rocket pushes back on the burned gas. This is connected with this concept of relative effectiveness of different fuel compounds. If the fuel is broken into many small particles moving at high speed, its push capacity will be far greater than if it breaks down into fewer, larger, slower ones. Thus, because of the difference in their masses, hydrogen compounds are more effective than those carbon dioxide compounds. Another problem concerning fuel transportation in the rocket is, if the rocket is to go high, it must carry a lot of fuel. However, since the fuel is heavy, the rocket will have to work that much harder just lifting its own fuel. The solution, used by the Communists, is to use the U. S. multi-stage rockets. Under this arrangement the first stages are merely detachable fuel tanks which drop off after their supply is exhausted.

How does it stay up? Newton's second law ("every object retains its state of motion...")

(Continued on Page Four)

Andover Vocalists Scheduled To Join In Music Concert

The music students of Phillips Academy will give a concert on November 24th in Peabody House on the school campus. Mr. Louis Davis, voice teacher at Phillips Academy, has planned that his students will begin their recitals at 4:00 P. M. and end sometime around 5:00 P.M. in a brief but promising performance.

CONCERT GUEST

Paulist priest Reverend Norman J. O'Conner will be the guest of Phillips Academy and will introduce the *Concert of 20th Century American Vocal Music*. Father O'Conner holds a Ph.D. in philosophy and religion and is an authority on American music. He has gained fame through numerous television and radio appearances which concern his specialty of American jazz. As a Catholic priest he treads a tight line of divided public opinion. Asked about this, Father O'Conner answers, "Jazz musicians are people with problems like other people, plus a few peculiar to their profession. There are times in the life of every man, whether he is a jazz musician or a president, when the weight of his personal problems must be shared with someone who can offer sympathy. I've been able to refer and recommend musicians to people with whom they'd never otherwise have any contact. This wouldn't have been possible without my connection with jazz. These

(Continued on Page Four)

Mr. Kemper Talks To Newcomen Society In Boston About P. A. Faculty's Authority

On the night of November 14 the 1957 Massachusetts Dinner of the Newcomen Society of North America was held in Boston with Phillips Academy as the honored institution. The Newcomen Society is composed of businessmen who are concerned with the material

history of the U.S. and Canada as opposed to the political history. This history is related by a series of stories of success in industry, education, etc. The Society gives a string of dinners across the country to honor some organization, usually a successful business, and occasionally an education institution. This year Andover was chosen to be the honored "guest" of the Massachusetts dinner. Mr. Kemper represented the school before the 350 diners, most of whom are leaders of New England industry and education.

The headmaster's address dealt with the tradition of a strong faculty here at P.A. He described the evolution of the old one-man rule style of administration to the system that we know today. From 1838 to 1872 "Uncle" Samuel Taylor ran the school practically single-handed. In his dictatorial reign the teacher at Phillips Academy had little power or respect. He was treated more or less as a hired hand. "Uncle Sam's" power could have been checked somewhat by the Trustees, but they were more concerned with the affairs of the Andover Theological Seminary than P.A.'s troubles.

In 1873 Doctor Bancroft took over the headmastership and began to make some changes. The Doctor was influenced in his thinking by Mr. Eliot of Harvard. Eliot, the educational reformer of the post Civil War period, was against one-man rule in schools. Dr. Bancroft took steps to develop the strength of the faculty. By 1890 the faculty had control of such things as discipline, athletics, curriculum, and what little medical program existed. This granting of power to the faculty enabled the school to grow, for the headmaster was not responsible for very individual boy. It also acted as a draw to get better men here who hesitated before because of the treatment of the faculty.

The whole point of Mr. Kemper's speech was to attribute the cause of the growth and success of the school to where it belonged, the rise of the faculty

— M. Burlingame

Mr. Colby Chosen For Latin Position At Tufts For '58

Mr. John K. Colby, an instructor in Latin at Phillips Academy since 1940, was recently appointed the instructor in charge of the Tufts University Latin Workshop for the summer of 1958. The Latin Workshop is a refresher course open to fifty secondary-school Latin teachers from all parts of the country. Some of these teachers are new to the profession, and wish to pick up some good teaching techniques while broadening their general knowledge of Latin. Others are more experienced teachers who feel that a briefing on the most modern teaching techniques would be desirable.

The session will last three weeks during next summer, the third year of the Latin Workshop. During this time, discussions of the modern teaching techniques, and of the most recent modern texts will take place. There will also be a guided tour of the classical section of The Boston Museum of Fine Arts. Three outside lecturers will speak on their specialties: Oral Latin, Audio-visual Techniques, and The Status of Latin Today. Mr. Colby has been invited, in the past, as a lecturer, to the Latin Workshop.

Before coming to Andover, Mr. Colby taught at Milton Academy and at the Country Day School in Newton. For eight years he has been a visiting instructor in Latin at the Boston University summer

(Continued on Page Four)

P. A. Gives Land In Pond Area To The Ward Reservation

The P. A. Trustees voted last week to give the eight acres of Academy owned land adjacent to the Charles W. Ward Reservation to the Reservation permanently. The Reservation was formerly composed of 276 acres of land, covering or touching on Boston Hill, Shrub Hill, and Prospect Hill, and with the addition of P.A.'s gift, now owns 284 acres.

The advantage of this arrangement is that preservation is now assured because the land can neither be built upon nor destroyed as according to the Reservation charter.

The Reservation is set up in memory of Charles W. Ward, and its purpose is to preserve this land for the recreation and enjoyment of the general public, to which it is open.

P.A. students use, and will continue to use, the land in many ways. The General Science students annually make a field trip to the Reservation to study the zoology of the area. Individual students of the other sciences occasionally make field trips to the reservation as part of their particular projects. The ski team uses the land and its hills for ski practice and has a ski jump on Prospect Hill.

At the bottom of the ski jump is one of the Reservation's main attractions. It is a "glacial spot", or a small pond that was scrapped into the earth during the passing of the pre-historical glaciers. This meant that the cycle of evolution started in this pond much later than in surrounding areas. Because of this, many unusual forms of life are contained in it. Among them are pitcher plants, native orchards, many species of ferns, black spruces, and thrushes that are uncommon to this region.

Mr. Sanborn of P.A. is a member of the board of trustees for the Reservation and made the arrangements which led to the gift.

— B. Frickhoeffer

Graves Hall Laundry In Its Third Month, But Still Needs Greater Student Support

Now going into its third month, the newly created laundry known as "Plan IV" provides the washables of slightly over one hundred Phillips Academy students in the basement of Graves Hall under the supervision of a group of scholarship students. The plan was originated to free students from the expense of operating laundry services in the dorms at Harvard in a manner which had good possibilities at Andover. An agreement was made between the school and the company whereby Gray-McDonald would install a battery of laundry machines, the school paying for installation and overhead and the Gray-McDonald company owning the machines.

Those who have been using the Graves Hall laundry for the past eight weeks have found that it does their rough work quite satisfactorily and, most importantly of all, it does the laundry inexpensively. The pants and shirts, of course, need to be ironed. This can be done by taking advantage of the iron and ironing board in Graves, by taking the shirts and pants downtown to one of the private laundries, sending them to Rutter's under a special contract, or putting them in stretchers.

Unfortunate from the school's point of view is the fact that not

enough students are using Plan IV. Although Gray-McDonald is making a small profit, the Academy is losing money not only from the installation cost but also from the overhead, the latter of which is still higher than the income. The school is hoping that in the winter term at least two hundred students will participate in the laundry; otherwise it may be necessary to discontinue this worthwhile plan.

— D. Schulman

BOY ON A DOLPHIN

If I said it was a good movie, I'd be lying. If I said it was bad, people would accuse me of a poor attitude. The chances are good that no one besides yourself is reading this... So gosh guys, I just don't know!

J. McBaine

We Defend "MAGIK" To The Death

THE PHILLIPPIAN joyously reveals an error in the last issue. Under the strain and duress of last prom weekend, the editors committed the heinous sin of misspelling the word "magic". Or at least so some narrow-minded, conformist, literalist grammarians may claim.

We sinned, deeply and unpardonably, against the grammarian's bible, *Wooley, Scott, and Bracher*. But are we repentant? Not in the least. "Conformist" is the charge levelled against P.A. No such thing, THE PHILLIPPIAN proves.

Consider what courage, what moral fortitude led the editors to boldly strike out on their own. We feared not the wrath of English department nor the stigma of incomprehensibility. Fearlessly our pens stroked the bold, forceful *MAGIK* on the top of our prom inset.

What of the consequences? Let us be stoned in the streets jeered in the alleys, awakened in assembly, it will avail them nothing. They, who seek to regiment our thought, strait-jacket our free expression by mere spelling, shall have no effect whatsoever upon us.

Thus do we make our solemn pledge. Howsoever long may the sun rise shall we continue to faithfully print our inimitably stylized prose. There shall never be the tyrant, the petty literalist who will change our editorial policy. "All the news of one syllable that fits, we print."

The PHILLIPIAN

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Cool Job . . .

What a prom! THE PHILLIPIAN has been spending a lot of time this year praising people. We frankly enjoy it, and when there is so spectacular a success as the Fall Prom, we take great pleasure in printing our congratulations.

The decorations were tops. Nearly every prom article says somewhere "the gym was a gym no longer last night as. . .", and most people raise an eyebrow and say "Do tell." Perhaps the prom-goers knew they were in a gymnasium, but only for one reason: they could see the lines on Mr. Harrison's new floor. From the walls up, the gym was a romantic ballroom.

The best expression of the theme "Black Magic" was on the dance card. The whole school has at one time or another seen Bill Hamilton's cartoons in Commons. Whether exhorting us to join the Spanish Club or to "come to the Rallye", the posters are wonderful. Bill outdid himself in the Macbeth-like witch and cauldron on the dance program.

The prom was a complete success, an occasion worthy of the title, "Tradition." In order to become a solvent tradition, however, the Fall Prom must pay for itself. Out of two hundred twenty boys who said they would like to go, only ninety actually came to the prom. Why? Obviously the suave P.A. man hasn't incurred the wrath of the entire world of eligible females.

The small turn-out was attracted by the two-day prom. Many of the original two hundred twenty felt they would rather go home for two nights than stay here for one. Others, remembering the success of the three-day Spring Proms, decided that a two-day prom would be a bust. They were wrong, but the fact remains that in order to make a social success into a financial one, the Fall Prom must offer the same advantages as the Spring Prom.

Mr. James assures his classes that historical precedent is not always a telling legal argument. THE PHILLIPIAN, fortunately, isn't arguing law. We merely reason that once the three-day Spring Prom is already an accomplished fact and the Fall Prom a proven social success, next year's would draw many more couples as a three-day affair.

As we all know, Andover "tradition" is a changing thing. By constant improvement, a tradition, like the Spring Prom, becomes successful, financially as well as socially. Now is the time to start improving Andover's newest tradition, The Fall Prom.

FACULTY RESOLVES

Voted that the Faculty of Phillips Academy wishes to commend the student body for the excellent manner in which it conducted, under the planning and supervision of its own leaders, all phases of the recent trip by the school to Exeter, as well as the rallies of the weekend, with sound judgment, high efficiency, and a sense of responsibility and pride, thereby bringing great credit to the student body and to the school. The support and encouragement given by each student to the football team, along with the fine efforts of the band, contributed in no small way to complete success.

Voted that the Faculty further recommends that special commendation be given to SAMUEL H. BACK, EDWARD A. PERELL, and EDWARD M. ROTAN, for their particular contributions to the success of the weekend, this to be added to their permanent records.

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Getting To the Point:

Neighborhood News

by KLAUS KERTESS

As the little boy struggled to get his hand over the counter Varsity Liquor Store to pay for his daily fifth of Scotch, he saw the November ninth issue of the Harvard Crimson. He bought it and thinking it would make him appear older than ten. Once outside of the store he dropped the Crimson; the paper was picked up by a P.A. grad searching for filtered cigarette butts. The boy's father (who had never taught him to be discriminating); and from thence, the paper was passed on to this reporter. The Crimson ran a four page article on Exeter entitled, "The Exeter Man: Rebel Without a Cause." The subhead read, "The Exeter Syndrome: Dissatisfaction, Delinquency, Despair and Departure." The article was written by a former member of the Exonian. Due to indolence and writer's cramp, this article was not reprinted in its entirety, however, there are some quotes that this reporter wishes to pass on to enlighten the student body of Andover.

"Exeter graduates leave Harvard in larger number than any other group. They see psychiatrists in unusual numbers." That's why they are an unusual group. The weather in Neurotic Hampshire has to have numbed the minds of the Exies.

"Both Exeter and Harvard have a reputation which attracts 'non-fraternity men', and high IQ types." Did anyone see that captivating Exie with ground grippers, shorts, Dana Hall blazer and curls at the football game two weeks ago?

"The value of Harvard is not, primarily, as a creative colony or a rest home for neurotics." Well then, who are all those bearded, Charles Adams characters walking around in straight jackets?

THE PHILLIPIAN wishes to make certain acknowledgements for last week's prom that have thus far been neglected: the rain that started exactly five minutes before the dance was over and ended five minutes before zero hour, was contributed by the Sprinkling Spinsters of Massachusetts; and the washtub wine was given by the Wash Tubbers.

The actions of the Sprinkling Spinsters were partially inspired by Grace Metalious who stood at the gym entrance handing out umbrellas.



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John Winfield Scores Lone Andover Goal; Goalie Israel, Inside Edwards Stand Out

The Andover All-Club soccer team defeated its Exeter counterpart, 1-0, on Wednesday. The All-Club team consisted of a group of about seven players from each of the various "A" club teams, and was comparable to a J.V. soccer team. The game was a very well-

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played, exciting affair in which each team showed good offensive and defensive strength, but neither was able to get close enough to the enemy's goal to set up a scoring chance. P.A. worked better as a team than their rivals, but Exeter was able to prevent any serious scoring chances for most of the game. The Blue was on the offensive for a great majority of the contest.

After three scoreless periods and with about four minutes to play in the final stanza, Andover left inside "Winnie" Winfield scored the winning goal on passes from left wing Cuyler Shaw and right inside "Whitey" Edwards. This marked the end of a long offensive drive by the Blue.

Exeter tried desperately to tie the score after Winfield's marker, but the Blue defense and goalie Andy Israel were equal to the task, and the game ended without further scoring.

Outstanding in their play for the Blue were Israel in goal, insides Winfield and Edwards, halfbacks Basil Cox and Steve Hibbard, and fullbacks Steve Reiber and Mike Horn.

The All-Club squad included goalies Israel, Hunt Bascom, Kim Bush, and Denny Ellsworth; fullbacks Reiber, Horn, Kirby Jones, Chet Crocker, and Tom Doak; halfbacks Cox, Hibbard, Jim Hawbert, Pete Maxim, Dave Stare, and "Sandy" Burdett; wings Shaw, Stirling, Ted White, Pete Pochna, Mike Cardoza and Jake Matton; insides Edwards, Winfield, Tom Mason, and Sven Hsia; and captain and center forward Andy Cornellison. Credit must also be given to coach W.H.Y. Stevens and manager Allan Weaver.

— Ted White

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On the Sidelines

Rink Cover Delayed

by BILL STILES

A pneumatic drill heard in the vicinity of the Cage last Friday signalled the start of construction on Andover's long-awaited hockey rink roof. Expected to add considerable prestige to P. A.'s already-impressive athletic plant, the covering will provide enthusiastic hockey players with a longer and more enjoyable season.

Originally, construction was to have started somewhat earlier this fall, so that the roof would be completed in time to get Coach Harrison and his pucksters off to an early season. However, difficulties in planning arose over the summer months.

The main reason for the delay was that the rink committee wished to explore several different methods of construction, all of which proved too costly. Although the original plan is the one finally adopted, it should be noted that the headmaster and his consultants wanted to view several plans, thus providing P.A. with varied methods of construction. As Mr. Kemper said, he "would rather have the rink right than early."

The rink cover, one of the first of its kind to be constructed by an eastern prep school, has been designed to endure many years of wear, and also to meet the needs of a rapidly expanding hockey program.

The architect's plans—according

to Director of P. A.'s physical plant, Mr. Healy—call for a barrel-type roof, supported by laminated wood arches, which are at present in shipment from the Pacific Northwest. The roof deck will consist of four layers of felt asbestos roof covering and steel columns will be used for support. With only the corners to be walled in with brick at present, the area may be entirely closed in if so desired in the future.

Ninety feet wide and 220 feet long, the rink covering will have a projection to the Cage, in order to provide bleacher space for spectators. To remove snow that frequently slides off the Cage roof, heated pipes will be installed; also toilet facilities are called for in the plans. The rink lighting is to be provided by sixty-odd mercury vapor lamps, located 20 ft. above the ice surface and providing greater light in the corners and goal areas.

In addition to providing hockey enthusiasts with a longer season, the new roof will considerably reduce present operating expenses. During the spring and summer months, there's even talk of setting up tennis courts under the structure!

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Vocalists

(Continued from Page One)

problems ranged from finding physicians to psychiatrists to bank loans, and many more!"

Because of the text as well as the music on the program, this concert will prove to be of particular interest to both the faculty and the Student Body. The admission is free of charge and all are cordially invited to attend. — M.Toll

Colby

(Continued from Page One)

session. He has been for five years on the board which makes the Latin examinations for college entrance, and is, at present, one of the committee which writes the Secondary-Education Board Latin examination. — M. Toll

Sputnik

(Continued from Page One)

original velocity (both speed and direction) unless an unbalanced force acts upon it") shows that once in its orbit, the satellite tends to remain there. There are, however, at least three forces acting on the satellite: air, meteorites, and gravity. Gravity, contrary to general belief, neither pulls the satellite downward, nor drags its speed; it merely tends to pull Sputnik in a circular motion. Air and meteorites, though they don't have an immediate effect on the satellite, cause its eventual slowing down and burning up.

To bring a satellite back to earth successfully, all that would be required is a radio controlled rocket lodged in the ball so that at its firing the satellite would be knocked out of its normal orbit and start to spiral toward earth. An arresting parachute would have to be released to keep the moon from burning up, however, and this problem is yet to be overcome. — D.Othmer

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