California Tech

CaliforniaTech

Association of the California Institute of Technology

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No. 10

SOLD FOR PREVENTION

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Labor Leader Ralph L. Helstein Tells Union's Role In Integration

"Discrimination is both divisiveness and a movement of the labor movement and is irreconcilable with the basic tenets of unionism," Mr. Helstein said in his speech yesterday in Dabney Lounge. He also promised the TMCA's first guest this year in its Leaders of America series and was very well received in his initial address.

Before a surprisingly small crowd, Helstein spoke on the role of "Labor in the Race Struggle." He began by stating that he felt Labor has not concerned itself sufficiently with race problems.

A submerged Nation

"This is a submerged nation. The nation in America today, may be said, is likely to be submerged within a nation," one anxious to throw off the social yoke and assert its independence. At the very same time, he continued, another revolution is inevitable, that of automation, is eliminating vast numbers of jobs, creating jobs. It was made clear that new jobs would be available, but not unless jobs are available.

Jobs Are Needed

Helstein commented that both professions and students who are at this very moment a child, are going to be hired into work, that the chances are 3 out of 4 that he is being born while his parents are on relief, this being the third generation for whom "when the Negro wins his freedom, it will be done in the South." For Helstein, the integration exists while in the North there exists a segregation glossed over by many layers of hypocrisy.

This evening

Mr. Ralph L. Helstein, President of the United Packhouse, Food and Allied Workers, AFL-CIO, will give his major address, "Automation. The Crisis," at 8:00 p.m. in Dabney Lounge tonight (Thursday, December 4).

Mr. Helstein is a recognized national authority on the subject of automation and its importance to the labor force and the national economy. He is regularly called upon to speak at leading academic institutions, at government, and trade union conferences, and on national television documentaries. The UPWA has been pleased to hear Mr. Helstein trying to meet the challenge of automation, such as Technological Adjustment Pay, in his union.

WILL HILL WELCOMES FOLK SONGS

Mr. Helstein will comment on various folk songs of the labor movement, and will speak of his personal experiences in the South and felt that definite progress was being made toward changing ingrown attitudes. He agreed with Come-

mentary of the week that "When the Negro wins his freedom, it will be done in the South." For Helstein, the integration exists while in the North there exists a segregation glossed over by many layers of hypocrisy.

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High School Swarm Descends Upon Tech

Caltech's undergraduate body will be more than doubled this Saturday, when 1200 high school students from California high school students and teachers invade the campus during that study in unprece- dented chase—Student's Day. this year directed by Dr. Rich- ard Button.

Commemorating from a bleak 8:30 a.m., the vast immigration from 225 schools within a 150-mile radius of Caltech will reg- ister and have their pedigrees taken at the Student Houses.

Tourists Americanas

Following registration, the students will spend the rest of the morning on tours. A vast multitude of student guides will lead them on one of ten differ- ent tours, each one embracing seven stops—a procedure thoroughly set up to accommodate the most bizzare interests of typical high school students.

There will be, however, no gatherings at JPL, exhibit this year; all emphasis is on the de- but of Caltech's pride and joy, Booth Computing Center and the new IBM 7090.

In order not toocharming anyone on that necessity of Caltech, Student's Day will be food, lunch will again be served in two shifts. As an instance of distorted per- spective, miscellaneous Techmen will be served lunch at 11:30 in their respective house courtyards in order to make room for the infinite line of hungry high school students pouring in at noon.

To aid in the digestion of the Saga food and material of the morning tours, a little pro- motional-head is planned: Dr. Dubrige addressing the students, and Dr. Feynman the faculty in the Athenaeum.

Petticoat Preachers

For the remainder of the after- noon, from 1:45 to 4:30, the stu- dents will participate in a series of three lectures. Space explora-

(Continued on page 2)

Rousselot Tells Birch Stands

John Rousselot, District Gov- ernor of the John Birch Society, spoke to a packed house in Dabney Lounge, November 27, on the aims and principles of the Society. Opening the meeting with a dramatic silent moment of prayer for the late President Kennedy, Rousselot read a state- ment by Robert Welch, National Director of the Society, deploring the event and linking it to civil rights everywhere.

"This was the eve of this week's Friday Evening Science Lecture, "Metal Crystals," given by Dr. Sten Hangan, Friday at 3:00 p.m. in Dabney Lounge. "The Spirit of Protest" will be traced from the past to the present (Continued on page 8)

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Welcome!

This Saturday is Student's Day and it is traditional for the editors of the Tech to write a short editorial welcoming the visiting high school students and reminding them that they are at Caltech that day. Now that we're into the frontiers of research in almost all scientific fields.

This is indeed true. As an incidental fact, Caltech and MIT receive so much government R & D contract money (see on the University of California) that they have been criticized by Congress. But then Congress has often been criticized at Tech.

Today, the visiting high school students will see some of the what the government's money has been spent on.

Today, however, is not the end of all the visiting students. A good many are probably thinking of Caltech for their College education. For to get more than just a "little glimpse of what a center of education and research looks like."

Despite the flashing exterior of exhibits and the emphasis on research, Caltech is still primarily an educational institution. It is impossible for your clear idea of the learning and courses here from the lectures presented, but they will give you some idea.

But perhaps the most important thing to learn about is student life. It is quite easy to get a good idea of what it is like to be a student here by learning about the Student House, that peculiarly Caltech institution that is far more than a dormitory but not quite a fraternity. The Houses play a major part in the lives of Techmen, and an interesting idea is to get a chance to see for ourselves how the other side lives. Perhaps it is just a case of having been led to expect too much, but I don't think so. Nobody could be freer than the student at Acalbe might be our age after all, and not for all time.

The Plot

Who's Afraid of Virginia Woolf? Ever since I saw The Zoo Sto­ ry, I’ve heard so much about all the stories in the book. Nobody is very interested in the Woolf plays. Virginia Woolf has been a very ac­ tively discussed. But I didn’t find a chance to see for ourselves how the story was told. Perhaps it is just a case of having been led to expect too much, but I don’t think so. Nobody could be freer than the student at Acalbe might be our age after all, and not for all time.

A special extra, super­ dooper treat this week we have got that is unfamiliar, very simple, versatility. Albee's play is a cata­ lyst, a spark to set off more than someone? Or simple prurience? The subject of man's Oedipus complex. It might be that he had taken during the 1960's; it's published by Simon and Shuster. Published in the book was the following sort of thing called a guitar TAM. Here is quite a bit of music, some of the songs being used with app­ ropriate symbols for strings, frets, etc.

This book is the first time I've ever seen any of the songs. I tried several of them and found out that the original books is to listen to while trying to play them out. in all the book is pretty good, with a few good ideas, but I think of a song like this would do well at look at it, but with a critical eye.

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Norstad Describes NATO Task, Goals

In an enlightening lecture and question period Tuesday evening, General Lauris Norstad described the aims of the North Atlantic Treaty Organization, inserting his own disarmament proposal. General Norstad, former Supreme Allied Commander of NATO and current president of Owens-Corning Fiberglas Corporation, listed these aims: (1) to live at peace with all peoples and governments, (2) to promote stability in the North Atlantic Area, and (3) to insure for the preservation of world peace. In Norstad's opinion the responsibility for the common defense must be a collective one. The success of the organization is evidenced by the fact that no nation has been attacked since the end of the world war.

Norstad proposed that a solution to these aims and problems have the following criteria. It is imperative that there be a widespread public opinion (acceptability) that a true and genuine one factor, should not cause any nation fear, so as to make a nation fearful, and accordingly build a basis for further understanding. Under the Tripartite Arrangement, the two components were a mobile ground inspection and an aerial inspection. Professor DuBridge mentioned reports of each nation's progress in weapons development, making any actual reduction of forces or limitation of weapons, Norstad predicted, will take many times to grow, his proposal could become a reality.

DuBridge (Continued from page 1) financed.

Three more buildings which will be erected yet but are being planned are a chemical building, a humanities building, and a high-energy physics and space science laboratory. DuBridge stated his major effort to secure the funds for these buildings is now underway.

DuBridge stated that Tech's net assets increased by 14 million dollars to a total of 124 million dollars. Campus operations expenses were $7,088,000 with an income of $17,995,000. That is a profit of $10,005,000. The largest government research grant was from the Atomic Energy Commission for the Systems Lab. Other grants include U.S. Public Health Service, Office of Naval Research, and the National Science Foundation. Gifts from private sources were $4,727,000. Among the contributors were the Ford Foundation, Industrial Development Associates, IBM, American Can Society, RCA, Alfred P. Sloan Foundation, and the California Associates.

DuBridge reviewed to the Trustees the scientific achievements of Caltech. He spoke of the usefulness of the 200 inch Palomar telescope and of the advancements of Robert A. Millikan and Professor William Fowler. DuBridge noted the success of JPL's Mariner II Venus probe. He speculated on the existence of life on Mars.

From Other Campuses

By Jace

You wishing to break with tradition, this column will be again this week with Ren. You can be dependable as ever if you lost your last football game of the season, but you must be dependable as ever. Caltech holds the 15th place in the National Merit Scholarship Corporation established in 1955. Total merit scholarships are given to students in all school in the United States. Approximately 1,000,000 students are elected to the Board of Directors each year. Caltech is one of the top 100 institutions.

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Helstein

(Continued from page 1) labor movement of the 100% fight which Mr. Helstein experienced as an officer of the National Recovery Administration and a labor lawyer to the civil rights movement today in which it is so pertinent.

Mr. Helstein is the Folk Music Festival, an annual Confere ce of Christians and Jews, and a frequent speaker to the Los Angeles County Human Relations Commission.

The featured performer at the Troubadour, this folk artist performer at the Troubadour, this folk artist, and a penet­ rating individual style" derives his greatest pleasure from per­ forming for youth groups.

Welcome to the Campus Barber Shop

In Winnetker all haircuts $1.75 Three Barbers to Serve You 1 to 5:30 Monday - Friday Paul A. Hamms

Fie N Burger

913 E California

Home-Made Pies — Hamburger Food to Go

Open 11 a.m. Closed 2 a.m.

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The holiday season or any other season is the season to be jolly—if Marlboros in poor brand. You’ll find Marlboros wherever cigarettes are sold in all fifty states of the Union. You get a lot to like in Marlboro Country.
**Wind Tunnel Enjoys Long History**

An electric motor built for a World War I submarine has helped solve major aerodynamic problems for all varieties of aircraft, including those that take off vertically, as well as for automobiles, trucks, buses, radar antennas, and even a single-roof roof. The 57-horsepower motor provides energy to generate winds up to 200 miles an hour for Caltech’s venerable 10-foot wind tunnel in which, nowadays, are being tested models of a wide variety of vehicles in addition to those of airplanes, for which it originally was built 34 years ago at a cost of $250,000.

The tunnel has resolved configuration problems for more than 900 types of aircraft for more than 40 American and foreign companies, and for six governmental agencies. Such key U.S. World War II aircraft as the P-38, P-40, and P-51 pursuit planes, the B-17, B-19, B-24, B-37, and B-29 bombers and the PBY reconnaissance amphibious planes all were aerodynamically groomed in the tunnel.

The tunnel was designed in the mid-1920’s by Clark B. Millikan and A. L. Kline, then graduate student and research fellow, respectively, in accordance with basic concepts furnished by the late Dr. Theodore von Karman, the “father of aerodynamics.” It was named the GALCIT tunnel, GALCIT being an acronym for Guggenheim Aeronautical Laboratory California Institute of Technology.

The inside tunnel diameter ranges up to 20 feet. The section in which the models are tested is ten feet long and ten feet in diameter.

A three-bladed propeller 15 feet in diameter generates the stream of air, which is directed around the corners of the continuous tunnel by sets of turning vanes that minimize turbulence, according to the test section. Two banks of vanes contain inlets and outlets to control the wind speed. Under test conditions, the most important of which is a configuration problem for a $2.3 million jet fighter plane. Such problems for all varieties of aircraft, including those that take off vertically and those that operate from the sides of ships, are solved in the tunnel.

**That’s Not Gneiss**

Geology Division Research Studies Always Expanding

**BY STUART GALLEY**

Contrary to popular belief, the endless basements and subbasements and tunnels and labs that honeycomb the buildings here on campus are not just mockups used for studying eager high-school students and freshmen. Countless projects are always in progress in basic and applied research that we (who tread so close to them) know so little about. Not to be among the dozen or other disciplines, the Division of Geological Sciences also carries its research into the field, about as close to Mother Nature as possible.

Dr. Robert P. Sharp, Chairman of the Division, recently granted an interview with this writer, during which he described some of the research endeavors currently being carried out by members of the Division.

**A New Science**

One of the newest fields of study on campus is planetary science. Roughly, planetary science does for other bodies around us what straight geology does for the earth, but Dr. Sharp admits that the field is “kind of confusing planetary astronomy.” Despite the failure of two Ranger spacecraft (that carried seismographs from Tech) to land on the near side of the moon, the effort to effect such a landing is still under way. A seismograph would give back about the biggest yield of important information of any instrument that could be landed; moonquakes and meteoric impacts would give clues to the interior of the moon by the shock waves they produce that are picked up by the seismograph. Whether or not the moon has sources of heat (Continued on page 8)

**Debaters Score In WSA Meet**

**BYS. AMEZUCK**

Sophomore Dave Close received third place in men’s extemporaneous speaking at the Western Speech Association Tournament at Humboldt State College over the Thanksgiving weekend. Another Caltech sophomore, Scott Solomon, entered the final rounds of competition in extempor and was awarded a Certificate of Excellence.

This tournament is the 1963 Championship of the W. S. A. which is the largest forensic organization west of the Rocky Mountains. Sixty-four speakers from fifty-six schools took part in men’s extempor. States represented were California, Oregon, Washington, Utah, Montana, Idaho, Arizona, Nevada, and North Dakota.

Caltech’s junior debate team of Roger Davison and Gary Scott and the sophomore team of Solomon and Close each compiled a record of four wins against three losses in debate.

This weekend the freshman team of Dan Metyay and Mike Bobel will represent Tech in debate at the Western States Alternate Tournament at L. A.

---photo by Phil Lippa

Sophomore lose tug-of-war in Muduo.

**Electronics Research**

**LINCOLN LABORATORY**

has openings for a limited number of engineers, physicists and mathematicians.

LINCOLN LABORATORY, a research center of the Massachusetts Institute of Technology, is engaged in research and development in advanced electronics, with emphasis on applications to national defense and space exploration.

A LABORATORY REPRESENTATIVE WILL INTERVIEW APPLICANTS DECEMBER 6 CONSULT THE CAMPUS PLACEMENT OFFICE FOR ARRANGEMENTS

**RICE**

Most beers use inexpensive corn grits as their malt adjunct. Budweiser uses much more costly and superior rice. One more of the seven special things we do to make your enjoyment of Budweiser even greater!

**By Stuart Galley**

An electric motor built for a World War I submarine has helped solve major aerodynamic problems for all varieties of aircraft, including those that take off vertically, as well as for automobiles, trucks, buses, radar antennas, and even a single-roof roof.

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Oh, Really?

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**To Their Doom**

Juniors became members of the Tau Beta Pi fraternity Fifteen To Their Doom.

**Thunday, December 5, 1963**

**One of the seven golden keys to brewing Budweiser.**

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**By Stuart Galley**
BY THE EDITORS

I'm the queerest young fellow that ever you heard. My mother's a jew, my father's a bird. With Joseph the joiner I cannot agree, so here's to discipline and Cavalcadie.

—James Joyce, Ulysses

Such may be posternity's judgment of the Junior class officers of '65, but nevertheless their deeds have been indelibly carved in the annals of time. However, we come not to bury these stalwart men, but rather to praise them. For praise they we must.

In that puritán rotting bag of Caltech, these men alone stand above the wallowing mire to provide the impetus to those affairs that make Caltech what it is. These men stand far above their fellows, and their diligent works are felt far beyond the confines of the noble Junior Class. Their efforts stretch far into the multitudinous fields of student body activities, athletics, Church, Mother and Home. And it must be admitted that all these would fail without their ardor, say unceasing, support. Their accomplishments stand too numerous to list and so we proceed to examine in more detail each of these marvelous men.

This fine group is led by one Guy Jackson, a true gentleman of the South, noble in bearing and distinct in character. Starting at the bottom as freshman class vice-president, in two short years he has risen to the heights of the Junior Class Presidency, said Guy, "My aim has been to provide an honest and democratic administration for the Junior Class, and, of course, to serve Caltech."

John Tomsen,وارد by his intense efforts for two years as president of the Class of '65, referred this year to the office of Executive Vice-President where he has served as a desert throne to the many varied activities of the Junior Class. John, a pillar of society and Cham E, is almost completely responsible for the unrivaled social prowess of his class.

Waving the pen of power, Secretary Neal Wright has undertaken the vast task of recording for posterity the great epic of the Junior Class and its far-sighted leaders. It is rumored that Neal is the real power behind the throne — instrumental in all far-reaching decisions of that august body — and he alone guards the written record of those closed-door sessions which shape the destiny of the Junior Class, the school, and ultimately the world.

Gary Scott, while nominally only the Treasurer of the Junior Class, in fact exerts considerable power behind the many herebefore undisclosed financial enterprises of the Junior Class. He is the financial wizard in his own right, woven on the Wall Street Journal, he has taken upon himself, at great personal sacrifice, to direct the intricate financial destiny of his class with an unfailing acumen.

While athletic manager of the Class of '65, Bob Scott has been personally responsible for the complete domination by the Junior Class in all phases of Interhouse, Intercollegiate and International Sports.

Editor's Note: The preceding has been a salutary announcement. Information as to rules for similar elegies may be gained from either of the Editors.
Tech Gridders Lose To CHM, 39-0

By Dave Seib

Claremont-Mudd's Stags, led by All-Coast halfback Bob Ellis, trounced the Caltech Beavers 39-0 Tuesday afternoon at Tournament Park. The Beavers were pretty much of a mess after the game, which produced more business for the Health Center than, any three others. The Beavers weren't doole by any means, but the already-lengthy injury list and the usual size discrepancy added up to a solid wallowing.

Tech defense had its brilliant moments, as a CHM drive was halted on the CHM 12, but the overall effort was not exactly devastating as CHM rushed for 304 yds to CIT's 161. Pass defense left a lot to be desired — CHM passed for 212 yds, completing 7 of 13, while CIT completed 2 of 9 for —4 yds and had three intercepted, one going for 25 yds and a TD.

The CIT offense could not get rolling and could not sustain a drive. Much of Tech's yards came on a 50yard breakdown by Dillin, who led CIT rushers, with 60 yds, in 1 carry. Nobody else could get any running room.

Injuries Contly

This closes out Caltech's football season. The Beavers sport a won-lost record of 2-6. Both wins came at the beginning of the season, when prospects looked good; then the injury bugaboo struck. A list of out-of-season and missed-game injuries includes 3 1/2 knee injuries, a dislocated finger, water bugaboo struck. A list of out-of-season and missed-game injuries includes 8 1/2 knee injuries, a dislocated finger, a case of mononucleosis, a calcium-amnesia cases. Add such an array as 4 shoulder-separation, a dislocated finger, water on the elbow, and two strained backs, and it is a wonder anybody survived, but even so they did — three players, Roshbash, Dahlen and Hewitt, went through the entire season without using so much as a bandaid to repair themselves.

Some interesting season statistics: The Beavers outscored their opponents on the ground, 1100 yds to 1215, but in the air, it was Beavers 69, opponent 101. The Beavers completed 12 of 26 passes, but had another 12 intercepted. Opponents were penalized twice as much, losing 951 yds, while CIT lost only 192. And the Beavers were outscored only by a factor of two, 358-190, instead of a factor of five or six in the past seasons. That's an average score of 25-11, whereas as last year the average score was 30-7.

Individual Leaders

On the individual side, Evans led the team in rushing with 333 yds in 56 carries for a 5.9 average. Liebermann led in total offense, with 349 yds in 49 plays for a 2.9 yard-per-play average, scoring with 36 points, and passing with 11 for 42, for 62 yds. Farmer had 9 catches for 82 yds. Stagg led receivers with one catch for 27 yds. Half averaged 30.7 yds on punts and Blossom averaged 41.9 on kickoffs.

Frosh Casaba Men Dump On R I Hondo

The frosh basketball team got off to a good start Tuesday night as they jumped Rio-Hondo on the short end of an 80-72 contest. At the start R-I opened a 46-33 lead, but Gray Jennings had 10.

In the second half Tech started hitting steadily, and for most of the time held a 10-point edge. Steady scoring by Hsi and Herb Juhbin, coupled with a strong rebounding performance by Gray Jennings kept the visitors at a safe distance. Then with 4 minutes to go, and leading a 16-point lead, the defense slackened and R-I made a big push and got within 8 points as the buzzer sounded.

The Beavers scored in waves with 31 points. Herb Juhbin made 17 and Gray Jennings had 10.

The untested frosh will continue their winning ways Friday night at UC Riverside. The first league game will be on Friday, January 10, against CHM at CHM.

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In the final game of the season on Nov. 27, Caltech's varsity water polo team bowed to Occidental College 3-2. The Oxy goalie tries in vain to stop Tech's first score in the championship game, which produced more business for the Health Center than, any three others. The Beavers weren't doole by any means, but the already-lengthy injury list and the usual size discrepancy added up to a solid wallowing.

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By the opposition put the Beavers behind at the intermission by a 1-0 count. They continued to trail closely during most of the second period, tying the score at one-point lead on several occasions, and with one minute remaining they found themselves two points behind. For once the aaaining Upland five, the Beavers lost more ground until the final margin became eight points.

High-point man with 19 marks was Caltech's Dick Burgess, who also led the team on the boards by snatching 15 rebounds. Joe Weis and Gary Dahlinman each scored 13 points, and Volker Voss hit ten for the losers. Upland's high scorer was center Jeff Solomon with 17 points, followed by Jim McCoy and Andy Sandquist with 14 and 12 respectively.

The varsity will have another chance this week to score its initial victory of the season when it meets Caltech's second nine. It will be played Thursday night at 8 p.m.

Yet More Jace

(Continued from page 3)

himself to USF though; he also used his 12 points on free throws. Life College featured a top scorer, Simpson Bites, who also led the team on the boards by snatching 15 rebounds.

(Continued from page 6)

Mosc Gadgets

 interception of the pass went 37, no good; TECH's quarterback was thrown for -14, and they punted. Kick was good for the TD. Kick Christie fumbled on CIT's 21, he galloped over for a TD. Kick was good; CIT punted, and TECH passed for 25 as the half ended.

Second Half

CHM received; shortly a pass was thrown for -15 and they punted. TECH punted back and on the first play CIT fumbled, CIT recovering. The Beavers drove to the CHM 30 and lost the ball on downs. CIT drove to the CIT 31, where a halfback scampered into the rest of the way. A line kick for PAT was no good; 19-0, TECH ahead.

CIT received and punted to CHM's 17. CIT whipped up 18 and they punted. Kick was good; CIT punted, and TECH passed for 25 as the half ended.

Los Angeles TV First

December 7

The Day of Infamy

Documentary Hour of the Attack That Shocked the World

KTTV

Next Saturday 7 p.m.

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John LaCost received his B.S.E.E. from the University of Illinois in 1962. One of the factors which influenced him to join Western Electric was the continued opportunity for advanced study through the Company-paid tuition refund program. He is also aware of the continued opportunity for moving careers exist now, not only for electrical, as he is aware of the continued opportunity for moving careers exist now, not only for electrical, mechanical and industrial engineers, but also for physical scientists, aerospace and business majors. For more detailed information, get your copy of the Western Electric Career Opportunities booklet from your Placement Officer. Or write: Western Electric Company, Room 6405, 222 Broadway, New York 28, N. Y. And be sure to arrange for a personal interview at the Western Electric Company's recruiting center visit your campus.

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Wind Tunnel

(Continued from page 4)

accommodate full-scale objects. Models made of wood, clay, aluminum, steel, or fiberglass are used, but the test section. Airplane models range from single seat to one-fourth full size. Auto models are up to threeeighths full size and large truck-trailer rig models are one-eighth scale.

The models are instrumented so that pressure, wind velocities, etc., can be measured over many different parts of their surfaces. Pitot, roll and yaw characteristics are measured, as well as lift, drop and crosswind forces. The average test run on a model requires two weeks.

Twiddle-Dee-Dee

Sometimes a mixture of lamp black and water is dashed on a model prior to testing. Or strings of cotton can be taped to the surface. The model is placed in the test section and the wind is turned on. Aerodynamicists can record how the paint is blown over the surfaces or the directions in which the cotton strings are blown. These will disclose the air flow and turbulence patterns.

Useless Homework

At present the wind tunnel is calibrating one of three spheres, each one foot in diameter, that will be placed 100, 200, and 300 feet above the ground at Olds Parkstone on the Mojave Desert to determine wind strengths and directions. Caltech's Jet Propulsion Laboratory needs this information in locating and building giant 210-foot dishes for installations that will communicate with spacecraft.

More Campuses

(Continued from page 7)

nobody us individualizes as college professors — as a group."

To keep this column moving well, we thank you, WPTF, where the Virginia Tech notes: "Irving Bently thinks that Radford girls are finally showing proper interest in Technem's problems. He is a professor, who is reading a booklet on "The Care, Treatment, and Rehabilitation of Alcoholics."

In the same paper, "A sign displayed on the floor bench counter during hours when it is closed reads: "The Lunch Box is closed. Satisfaction guaranteed."

WHAT'S NEW IN THE DECEMBER ATLANTIC?

(Continued from page 4)

- BMW: The Broken City- A special 4-page Supplement. A brand new automobile has been announced by the famous German automaker. The car is distinguished by its smooth, aerodynamic lines and a new type of engine. The car is expected to be a hit, drawing attention during the next few months.

- Ford: A major innovation is a cantilever-arm steering wheel featuring an electronic "memory." The steering wheel is mounted on an arm that extends from a compact, rounded column. The wheel swings upward for easy exit, returns automatically to its former position at the touch of a button. Power adjustment enables it to be moved inches fore and aft and five inches vertically. This, plus power-adjustable foot pedals, permits use of a fixed seat design for low overall height.

Allegro means "brisk and lively," which certainly describes Ford Motor Company's new dream car, a handsome fastback coupe. More than that, Allegro has unique functional features that could be adapted to mass production cars. (This has already occurred in the case of retractable seat belts)

A major innovation is made possible by a new constantdiameter steering wheel featuring an electronic "memory." The steering wheel is mounted on an arm that extends from a compact, rounded column. The wheel swings upward for easy exit, returns automatically to its former position at the touch of a button. Power adjustment enables it to be moved inches fore and aft and five inches vertically. This, plus power-adjustable foot pedals, permits use of a fixed seat design for low overall height.

Allegro was completed by a series of Ford-built dream cars, making them a successful experiment in advanced automotive ideas that are practical for the near future.

Assignment: design a car for tomorrow... that could be built today!