Pakistan Development Speeded
By Private Investment Policy

BY JAY LIPMAN

On January 9 Professor Gus Papamak spoke on "Public or Private?" at Harvard University, and then gave his views as supported by four years of experience in Pakistan.

Government Control
He gave several of the arguments for government control. The main argument is the rate of growth and savings of a country under private enterprise is too slow. Opponents of private enterprise often say that private investment does not plan ahead for changes in the society, but is only concerned with profits at the present time. Consequently, investment often goes in the wrong directions, and socially undesirable industries develop. Moreover, most of the persons in power are unwilling to make the necessary voluntary changes for private enterprise; and if they do, the investors will squander their profits on luxurious living.

Private Investment
The main argument for private investment is the government is subject to political pressure. Therefore, its goals are distorted and it cannot increase the rate of development because different political pressure groups in a country will have conflicting goals. In addition, the government itself does not have enough money in order to make the correct decisions; and since it does not feel the mistakes in its own pocket book and they were not trained for this work, they will thus cause economists and businessmen. If the central government controls everything, it will create an atmosphere of inefficiency, waste, and repression it will inevitably lead to dictatorship.

Incentives Work
In his own words, "the main support for his work in Pakistan is that given sufficiently high economic incentives it was possible—and is in other countries—to create a very able corps of planners who were committed to industry and industrial enterprises. Within ten years Pakistan made tremendous economic advances with the only government control being the manipulation of market incentives. This system minimizes administration and corruption and releases the civil service to attend to more urgent needs such as the regeneration of the stagnant agricultural system in Pakistan. The government is not concerned with the direction of investment by using different taxation and subsidies or foreign aid to create a system that is flexible and efficient because of decentralized decision making.

Bayne Says Reds Strong In Italy

BY MATT COUCH AND JIM JOHNSON

Italy and Iran were the principal topics of discussion in the International Affairs Staff's section of the Associated Students of the California Tech. A Bayne interview with the director of the American University Field Staff. (Last week's interview was concerned with the development and current problems of Berlin.) These interviews have been referred to the California Tech, Volume LXIII, Number 12.)

In this week's interview Bayne discussed the factors that have influenced the development of the Italian political since World War II, touching upon the growth of the Communist party, the importance of the post-war anti-fascist feeling, and the pervasive influence of the Catholic Church in all aspects of Italian life. When questioned about the present strength of the Communist Party in Italy Bayne estimates that there are about 400,000 "hard core" Communists in the country, over one million card carriers, and that the Communist-dominated union 23 percent of the electorate — over 25 percent of the electorate — in the quinquennial parliament elections. These figures are actually somewhat lower today than they were the years after the Second World War. Bayne pointed out that the Fascists had more than two million card carrying members in 1947, but had entertained plans for capturing control of the Italian parliament in the national election of 1946.

Fascists Rejected
The post-war successes of the Communist Party are directly related to what Bayne considers an overwhelming rejection of the fascist movement by the Italian classes. Bayne argued persuasively that the fascist movement was different from the Nazi movement in Germany, not only on questions of creed, but in that the fascist movement was accepted by essentially all elements of German society (with exception of the university and college professors), while the fascist movement in Italy was being rejected by the Italian nature and found little favor among the masses. The Communists took advantage of this pre-existing rejection of Mussolini's fascism. They led the anti-fascist, a non-German under-ground during the war, and when the Fascists put a group of people under arrest the Fascists squandered to gain control of the country's only major labor union, with the war ended. Although they still have control of this union, the Christian Democratic Party and the Social Democrats have started unions and have been able to split the Communist-dominated unions in size and influence.

The Catholic-dominated Christian Democratic Party, although the largest single party, has not been able to obtain majority control of the Italian parliament. This has inevitably led to coalition governments. Most of the coalition in recent years have been center-left coalitions, including the C.D.F. and some moderate leftist parties, but excluding the Communists and the parties on the far right. A recent attempt at a center-right coalition was in 1953 and fell after only three months. Although Italy remains solidly Catholic, there is some national orientation, and, in Bonapartism, there is little...
Bayne (Continued from page 1)

real anti-Americanism in Italy, there is, he feels, a significant amount of "Forti's" feeling.

Catholic Influence

In discussing the influence of the Catholic Church in Italy Bayne contrasted countries like Spain and Italy — where Kath­
colics are the vast majority of the population — with nations like the United States and Canada, where there are Catholics, but they are in the minority. He pointed out, that while it is hard to prove the existence of religious oppression in Italy, the subtle dominance of the Cath­
olic hierarchy makes it almost impossible for a person to get a foothold in Italy. The Catholic Church, as a result of the Lateran pacts of the late twenty-twenties, also exerts a great in­fluence in the Italian public school system. Bayne mentioned that one of the texts used by his ten-year-old daughter in the Florence school system begins with a chapter on, "The Cult of Mary" followed by a psychologi­cally-potent chapter entitled "Diabolical Possession" (Perhaps the titles lose some of their eupho­ny in translation.)

Iran

Bayne discussed his views and impressions of Iran at length in the Tuesday Public Affairs Lecture (receiving, incidentally, 29 seconds total applause… a new indoor record.) Bayne's as­essment of the Iranian situation is summarized in his sewage of the recent A.U.P.S., report: "Iran has moved satisfactorily in the direction of independence it desires, and in the doing it has apparently established a momentum of development in social and economic areas that presages the continued progress toward modernity. It has man­aged to keep its closest threat, Russia, at bay without serious cost, trading with its satellites and with Russia itself. Iran ap­parently has taken the liberal and prudent path of the Islamic republic." But teacher salaries are getting bigger every year. And with a

degree from Caltech you'll have

your choice of a lot of good of­

employment. Surprisingly enough, the best schools also pay the most money. With a M.A. degree, starting salaries in the New England area range from $4000 to $6000. The best offer I have heard was that of $5000, with pay raises such that you would achieve a salary of $10,000 in eight or ten years. Salaries are being raised each year.

Work

Dull work? I'm getting more and more excited over the possi­bilities in front of present high school courses was solidi­fied in the early years of this century. Yet science has com­pletely changed since then. There is a great need for ima­gination and well-trained men

(AiResearch immediately needs preliminary design, creative, and solar equipment and hardware development engineers at all levels, with backgrounds in the following disciplines:

Thermodynamics

Fluid Mechanics

Heat Transfer

Controls

Stress and Vibration

Systems Engineering

Cryogenics

Test Engineers

Here is an opportunity to participate in a major expansion of a company which pioneered the space environmental field. Specific experience in space environmental controls is desirable but not necessary. Education requirements are B.S. and up. Garret is an "equal opportunity" employer.

Interviewer will be on campus January 31

SILVERTON, who holds a Ph.D. from the University of Pennsylvania and has been an associate pro­fessor at Tulane University, be­gan his research in Latin Amer­ica during 1947-48 as the recip­ient of a Penfild Traveling Scholarship. He is the author of a two-volume work entitled, "A Study in Government: Guate­mala." Silvert was born an A.U.P.S. As­sociate in 1960, and during 1959-60 reported on affairs in Argen­tina, Chile, and Uruguay. In 1960-61 he directed a major stu­dy of the role of education in social and economic develop­ment in Latin America which was made possible by a grant to the A.U.P.S. from the Carnegie Corporation of New York.

Silvert's tentative schedule for the first two days of his visit is as follows:

Monday, January 22, he will address the Upperclass Dining Club at 6:30 p.m. in Chandler Dining Hall.

Tuesday, January 23, at 11 a.m., Silvert will speak to the H 5 class on "Recent Political Events in Argentina," after­wards attending a luncheon with the H 5 staff. Tuesday afternoon he will be interviewed by the International Affairs Staff of the California Tech and a n 11 will wind up the busy day with a dis­cussion at Dr. Munger's H 124 Seminar at 7:30 p.m. in 208 Dab­ney.

SILVERTON'S solution to in­sight

Our man in the "Ivy Leagues"

by Larry McCombs

Has the idea ever crossed your mind that you're not cut out to be a research scientist or an en­gineer? Do you like people and

selling? Do you like people and

money, dull and

aiResearch needs Engineers for SPACE ENVIROMENTAL CONTROL SYSTEMS

by Roger Bayne

The disposition of Culbertson Auditorium after completion of the much larger Beckman Auditorium has been a matter of great concern to the Drama Club. The Club's concern stemmed from a fear that Culbertson would largely be taken over by the Industrial Relations group who now occupy the basement rooms and that further development of the building for dramatic presentations would be impossible. However, this probably will not be the case. According to Dean Eaton, Indus­trial Relations is tentatively planning to move to a differ­ent location in the near future. This will," he said, "leave Culbertson available for dramatic presentations, which would be impossible. However, this

This will," he said, "leave Culbertson available for expanded activities soon— only a tentative suggestion. In terms of the long-range de­

development of the campus, such considerations are admittedly unimportant. From the standpoint of students who will be

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By Steve Schwarz

WEST SIDE STORY

As Grauman’s Chinese Theater

To avoid the movie version of a favorite book or play is a risk disappointment. In part this is because one has already formed an impression of how it should be done; in part it is because motion pictures are a relatively unsatisfactory medium fundamentally different from page or stage, and what is suited to the one is not necessarily suited to the other. Further, American movies, like Oxydol suited to the others. Further, American movies, like Oxydol from page or stage, and what is formed his impressions as to what are for the masses; in rendering the lively arts. The stage leaves the hectic, stricken tarantella which Capulets and Montagues are now given it a permanent place in musical history. This sum of production, and clearly he has tried to intensify every detail, and this is taken by the audience as a promise of realism. As soon as one is set for realism, small de- parts plausible come through unscathed — action; moving it seems heavy-handed and unjustifiable.

Almost Ideal

Yet with all this technical ex- cellence one might expect the filmed “West Side Story” to be ideal. Almost ideal it is, but not quite; and the reason lies in the mobile differences between stage and screen. The stage saves a great deal of such much to the audience, says “play make-believe with me;” and as the audience plays make-believe, it is drawn in and captured. Distinctions and improbabilities are easily overlooked, for the participating audience is trying to overlook them. On the other hand, motion pictures of any type are for the most part “experimental” type are relentlessly realistic; the camera, in its documentary fashion, catches every detail, and this is

by Peter Movius

ENGINES... SCIENTISTS

You are cordially invited to attend a private interview with a Special Representative of Lockheed Missiles & Space Company. Objective: Pursue mutual interests by examining the almost limitless fields of endeavor being investigated at Lockheed. Lockheed Missiles & Space Company in Sunnyvale and Palo Alto, California, on the very beautiful San Francisco Peninsula, is constantly probing all the sciences related to missiles and space projects. These cover the complete spectrum—from human engineering through celestial mechanics—providing a fascinating challenge to those whose interests lie beyond the ordinary day-to-day job. Lockheed, Systems Manager for such projects as the Navy POLARIS FBM and the Air Force DISCOVERER and MIDAS Satellites, is also an important contributor to various NASA programs involving some of the nation’s most interesting and sophisticated concepts. As one of the largest organizations of its kind, the Company pro- vides the best kind of opportunity for a professional to participate in the initiation of advanced technological developments.

Further, Lockheed strongly encourages continuing education and advanced degree work, maintaining two programs in their support:

• Lockheed’s Tuition Reimbursement Pro- gram reims seventy-five percent of the tuition for approved courses taken by professional and technical people who are working full time.

• The Graduate Study Program permits selected engineers and scientists of outstanding scholarship and professional potential to obtain advanced degrees at company expense while employed on research assignments.

SPECIAL CAMPUS INTERVIEWS

will be held

Monday FEBRUARY 5

See your placement office for details

GRADUATE RATTLE

BY FLETCH MURPHY

Last week Professor Cole walked into his AM 105 class carrying a Persian rug, rolled it out over the floor in front of the blackboard, said something about always wanting a rug, and began his lecture. Some of his students thought that he might have been suffering from fallen arches or varicose veins, but it turned out that the rug was actually for his new office in Firestone, the bare walls there having awakened a new interest in interior decorating.

Too Bad It Wasn’t TB Deals

A box on the unknown bor- rower of numerous books of Orange Stamps and a little cash, too, who made his haul over Christmas vacation. This was a heart-breaking loss to the resi- dents of MJ House, who were saving the stamps to buy a watchdog — so that their House may be safe from tigers, Orange Stamp borrowers, and other watchdogs, and so that the park- ing lot may be free from under- graduate cars.

Sorry, Followers

The 100 ruble reward for info about Sobolchevsky’s book is being withdrawn. Mike Fournier claims that the book can be pur- chased quite inexpensively from the Emulky Chow Book Store in Hong Kong. An order has been placed for a translated edition, and we’re hoping the translation (Continued on Page 7)

by the audience as a promote of realism. As soon as one is set for realism, small de- par- tures plunge one out of em- pathy and into indignation. Yet “West Side Story” is a sort of fairy tale, and thus not entirely realistic; the resulting conflict again and again gives one the feeling that one is watching a movie. It is a middle point, yet in my opinion it is just this which makes the stage version the better two.

Yet it may however it may appear by comparison with the original, the film is not as good as the stage produc- tion, and clearly he has tried to intensify every detail, and this is taken by the audience as a promise of realism. As soon as one is set for realism, small de- partures plunge one out of em- pathy and into indignation. Yet “West Side Story” is a sort of fairy tale, and thus not entirely realistic; the resulting conflict again and again gives one the feeling that one is watching a movie. It is a middle point, yet in my opinion it is just this which makes the stage version the better two.

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Anarchists Take Over Penn Campus

A new political party dedicated to "sin and occasional motherhood" has been formed at the University of Pennsylvania by a group of students intent upon putting an end to student government at the University. The party, which calls itself THE UNITED CHRISTIAN FRONT STUDENT ANARCHIST LEAGUE, has rallied considerable support from various segments of the student body including nativity-taried Ivy Leaguers and bearded Bohemians. At the core of the movement are a group of fifteen students who, in a manner reminiscent of the Dadaists and goldfish-swallowers of twenty years ago, are given to holding meetings on rooftops and signing petitions on toilet tissue.

Political Idiocy

The leader of the elite inner circle of the party — known as the Committee of the Faithful — is Charles Horner, a writer for the campus daily who is described by other members of the paper as the incarnation of the late H. L. Mencken. When asked to state the motives of his party, Mr. Horner replied, "We desire, through a subtle combination of satire and sense, to demonstrate the basic absurdities of any system built upon political idiocy."

Planks of the party's platform include "settlement of the German question by re-establishment of the Holy Roman Empire" and conversion of the university's faculty club into a retirement hall for the university's building and grounds crew.

New Jobs Ease Recession

Modern technology, over spreading out to include more and more subjects, seems to have resulted in a weird combination of generic names for the newest specializations. Basing theory about some strange combinations in the California Tech office the other night, we came up with these:

- Kinematography
- Auto-ornithology
- Paleo-engineering
- Tonsorial mathematics
- Organic chemistry
- Social spectroscopy
- Aero physics
- Semantic seismology
- Celestial neurology
- Topological taxidermy
- And last of all, Psycho-geology.

Absurd as some of these may seem, they represent only about 25% of those suggested. Suggestions by one person turned out to be options of others. Combinations of the strangest terms turned out to be current ideas.

The Bell Telephone System involves more than the telephone. Communications is now a wide field. Illustrating this fact is the opportunity offered by members of the Bell System Team.

Senior or Graduate Students will want to talk to our employment representative when he visits...

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Interviewing For:

Pacific Telephone and Western Electric

on February 7, 1962

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has openings for technical graduates for engineering and administrative positions in the Los Angeles Area. There are any number of fields where your technical or administrative abilities can develop to the fullest...from space-age engineering to a career in management.

offers opportunity to men in engineering and administrative positions throughout the United States with technical and non-technical backgrounds in several different fields:

- In Plant Layout: design of test sets, tools and equipment; quality control and other engineering.
- Research and development of data processing equipment.
- Field engineering in defense communications systems.

offers opportunity in one of the world’s foremost research laboratories. Opportunity in three kinds of scientific and engineering work is available.

1. Research and development
2. Systems engineering
3. Specific development

Also offered, is a communications development training program that provides graduate level training with credit.

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ITALIAN
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PRIVATE INSTRUCTION
SMALL CLASSES STARTING NOW

Native Teachers Day or Evening Free Trial Lesson

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An Equal Opportunity Employer
Poets Down Beavers In Second League Loss

BY RICK WEINENBERG

The Caltech varsity basketball team lost its second straight league tilt to an impressive and powerful Whittier five last Saturday night at the Whittier gym. The final score was 80-52, and the varsity was outplayed in every quarter but the second. The Poets, sparked by the sharp play of Steve Hayes, who traditionally has his best games against Caltech, jumped to a commanding lead in the first ten minutes of play and the beavers could do was to pull back to within six points in the second quarter. This was the same Whittier team that had been trucked by Pomona just the week before. Saturday the Poets looked unbeatable.

Gerber High Man

High scorer for the Beavers was Dean Gerber, who scored fifteen points, and close behind were Noll and Hopp with twelve and eleven points, respectively.

Fear of the Pack

Earlier the frost lost by a 77-31 score, being completely outclassed by the Poet freshmen.

The hand deserves a compliment for Saturday night’s efforts. We heard several favorable comments from Whittier people about their playing. It is hoped they will show up at further games since it adds little to the spirit, even in a losing cause like Saturday’s.

Tomorrow night the Beavers meet Claremont-Harvey Mudd at Claremont in a league contest.

Page Leads In Varsity Rating

Last week the Athletic Department released first term standings for the Alumni Intercollegiate Athletic Rating Trophy. Page, winner of the trophy last year, was significantly ahead of the pack again this year with 73 points. The score is tabulated for each varsity team member, two points for each frosh team member and varsity manager, and one point for each frosh manager.

The points awarded per sport were:

WATER POLO

Ricketts 24
Dabney 18
Lloyd 18
Page 18
Blacker 14
Fleming 10
Ruddock 6

CROSS COUNTRY

Page 16
Fleming 8
Blacker 6
Ricketts 4
Dabney 2
Ruddock 2
Lloyd 0

SOCCER

Blacker 14
Lloyd 10
Dabney 8
Page 8
Ricketts 8
Ruddock 6
Fleming 4

FOOTBALL

Ruddock 22
Page 21
Lloyd 20
Ricketts 20
Blacker 16
Dabney 9
Fleming 8

The summed-up standings are:

Page 73
Ricketts 56
Blacker 50
Lloyd 48
Ruddock 44
Dabney 37
Fleming 30

Fleming Wins Discobolus Rifle Match

Fleming House, led by John Letcher with a score of 135, scored a clear-cut 643-585 victory over Ruddock in a Discobolus rifle match last Friday. A combination of peak performances by most of Fleming’s shooters and below-normal scores by Ruddock decided the match, which was expected to be much closer. Dan Paxton led the losers with 132.

Current standings are:

HOUSE POINTS

Dabney 15
Fleming 10
Ricketts 8
Ruddock 6
Blacker 4
Lloyd 1

Page 1

Page has the next challenge.

Swimming Practice Begins; Oxy Potentially Strongest Foe

BY J. C. SIMPSON

Practice has begun for the coming swimming season, but the outlook for the coming season is a bit darker than last year. Many of last year’s champions have been lost, and the competition promises to be rougher in the league this year.

Although many of last year’s stars, such as Gary Tibbett, have been lost, the team this year will be strengthened by the addition of George McLean, who is coming out for the first time. Caltech’s strongest league opponent this year will be Oxy, which has come up with a very strong team. Many team members feel that if they can beat Oxy, the Beavers will take the championship again.

This year’s team has most of its strength in the backstroke and all the freestyle races. The breaststroke and butterfly are the weak spots, with butterfly being the more serious problem.

Practises have begun in preparation for the preliminary meets which begin in late February. The league finals are in May.

Drama Club Meets Tonight

The Caltech Drama Club will meet tonight at 7:30 p.m. in 206 Dabney to choose a play for a public reading in the latter part of February. Anyone interested in the reading or the club is invited.

Suggestions for a play should be accompanied by enough knowledge about it to permit a brief description and outline.

Space Technology Laboratories

invites you to discuss opportunities in the new era of Space Technology with members of STL’s technical staff when they visit your campus on

JANUARY 25 and 26

TODAY Space Technology Laboratories, Inc. is engaged in a balanced program of diversification and planned growth.

PROGRAMS. Research, development, design, and construction of three Orbiting Geophysical Observatories (OGO), and project coordination and systems planning for Project Relay, both for NASA. Design, fabrication and test for the Air Force-ARPA VELA HOTEL Program to detect nuclear explosions in space. Studies for the Air Force-ARPA BAMBI Project, a multi-satellite system which can identify and destroy enemy ICBM’s shortly after launch. Systems engineering and technical direction of the Atlas, Titan, and Minuteman weapon systems for the Air Force, Original and applied research in a broad spectrum of technical disciplines: particle physics, solid state theory, guidance, space physics, communication theory, propulsion and power, and electromagnetic systems in the infrared, ultraviolet and microwave regions.

FACILITIES. Nearing completion on a 110-acre site at Redondo Beach, close to Los Angeles International Airport is the STL Space Technology Center comprising ten buildings specially designed for research and development in missile and space systems, for the fabrication and environmental test of subsystems and components, and for the production of scientific and technical devices derived from STL’s sustained research program.

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- EXPERIMENTAL PHYSICS
- APPLIED MATHEMATICS
- SPACE COMMUNICATIONS
- SPACE SYSTEMS
- ANTENNAS AND MICROWAVES
- GUIDANCE AND NAVIGATION
- AERONAUTICS
- ENGINEERING MECHANICS
- PLASMA PHYSICS
- SYSTEMS ENGINEERING
- ELECTRICAL ENGINEERING
- COMPUTER DESIGN
- DIGITAL COMPUTERS
- SOLID STATE PHYSICS
- SPACE PHYSICS
- SPACE TECHNOLOGY LABORATORIES, INC.
- One Space Park, Redondo Beach, California

Please make arrangements with your placement office for interview appointment. Or, if unable to see our representatives, you may write to College Relations, Space Technology Laboratories, Inc., One Space Park, Redondo Beach, California, STL is an equal opportunity employer.
High School Teaching Suits McCombs

(Continued from page 2) to work out new ways of teach- ing high school science and ways of getting the new learning into high school courses. Challenging programs are being worked out in every area. The new chem- ical bond approach to high school chemistry is teaching material that I am just learning for the first time in a graduate quantum mechanics course. Many schools will give you nearly complete freedom to choose your textbooks, outline your course, and even purchase laboratory equipment. More and more high school teachers are conducting original research on their own and presenting it to their more brilliant students.

Free Time

Lack of free time? This is a somewhat valid detriment. Most schools will expect you to teach between 100 and 150 students. You will probably have four or five classes and a study-bill or two during the day. All the preparation of lessons and grading of tests and homework will have to be done outside of school time. If you plan to keep up with the reading in your field and constantly revise your courses to incorporate new concepts in science and new teaching ideas, you won't have a great deal of free time. But you will have three months each summer when you can take further graduate work in science (thereby improving your salary scale), earn extra money (as much as $1000) by teaching in summer school, or just take a long vacation. Many of the extraneous drains upon a teacher's time are being done away with. In many schools, the science teacher is not expected to handle a home room, serve as a lunchroom monitor, or act as a chaperone at games and parties. He will be paid extra for these duties if he decided to take them on. Most schools expect a teacher to serve as advisor for one extra-curricular activity, such as a science club, but even this requirement is not universal.

Shave and a Haircut

Pressure to conform? Here the Caltech student may feel a certain amount of pinching. He must dress decently, shave daily, and in general conform outwardly to the minimum moral code of the community where he is teaching. But, as mentioned above, more and more schools are giving the science teacher a free rein in the classroom to do as he likes. Whether your ambition is to give carefully prepared college-like lectures, or to introduce the classes to the complexities of research, you will be able to find a class where you can try your ideas.

The strongest objection usually made to high-school teaching is the necessity of taking great numbers of dull and trivial education courses. This is true at most state universities and at teacher's colleges. However, an increasing number of well-known universities are offering M.T. programs. May I point out the Yale M.T. program as an example, since I am best acquainted with it.

In this program you will be expected to take a one-semester course in the psychology of education (taught by a psychology prof), one semester of the history of education (a history prof) and one semester of the philosophy of education (a philosophy prof, natch). These courses all come during the school year. In addition to them you will be able to take three full-year courses in your own specialization. You will be encouraged to take undergraduate courses if you wish to fill out holes in your background, or you may take three advanced research courses if you wish. I am taking undergraduate courses in biology and organic chemistry and a graduate course in quantum mechanics. Needless to say, Yale offers just about any subject you might want.

Summer Teacher

Then during the summer following the school year, you will teach in a six-week summer school. You and two other students will each teach one class per morning, and spend the rest of the morning observing your master teacher and observing your master teacher. The master teachers are persons with 10 or more years in high school teaching who are known in their school as outstanding teachers. In the afternoon you will have seminars with your master teacher to discuss problems and methods of teaching your particular subject. At the end of the six weeks you will receive your M.A.T. degree from Yale, which entitles you to teach in 13 Eastern states. At the present time, it will not be accepted for certification in California — additional education courses would be required; but, the California laws are now undergoing revision.

Gomez Hosts Y

The first YMCA Faculty Fireside of the term will be held next Sunday evening in the home of Ricardo Gomez, Senior Research Fellow in Physics. Everyone wishing to become better acquainted with this lively campus personality should sign up in the Y office immediately. The group will meet at 7 p.m., in the Athenaeum parking lot to organize transportation.

Your Future in Electronics at Hughes

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In addition, Hughes sponsors advanced degree programs for academic growth. These programs provide for advanced degree study at many leading universities.
**Techmen Rank High On Bill Of Rights Quiz**

**BY DANNY ROMM**

Techmen demonstrated they know more about the Bill of Rights than do students at other southern California colleges on the basis of a recent poll circulated by the Caltech chapter of the American Civil Liberties Union. They also demonstrated that they don’t know too much about how these rights are applied.

On a series of “yes or no” questions regarding rights guaranteed in the first ten amendments, Techmen averaged a 90% correct score, as opposed to an average of 76% at UCLA, LA State, LA City College, and San Diego State.

**Bill of Rights**

Techmen were almost unanimous in their views towards “businessmen’s rights.” The Bill of Rights guarantees neither freedom of enterprise nor right to work, say 16% and 10% of Caltech students, respectively. The averages at the other schools were 23% in favor of right to work, and 36% in favor of freedom of enterprise.

Caltech was also right on several questions that other colleges missed badly—for example, only 16% of Techmen said freedom from excessive bail is not guaranteed, while 47% of the people at the other colleges felt this way. Similarly, all Techmen said freedom of worship is guaranteed, while other schools listed significant minorities of anti-religious who apparently feel that the First Amendment doesn’t exist.

**About Civil Liberties**

There was also a section in the ACLU pool which included some highly simplified black-and-white question about civil liberties. Techmen demonstrated they know more about the Bill of Rights than has hitherto been possible.

(Continued on page 8)
ACLU Poll
(Continued from page 7)

In most respects Caltech appeared to fit ACLU's concept of "civil libertarian" better than did the other four colleges sampled.

As examples — 92% of Techmen said a Socialist should be permitted to teach in a college, while 76% of the others held this view. Similarly, 55% of Techmen said a labor leader should be able to refuse to answer questions before Congressional investigating committees, while only 36% of the other students agreed.

On the other hand, Techmen came out strongly in favor of government and property rights, supporting the following concepts by much greater majorities than did the other colleges:

1. giving the government power to arrest and hold without court hearing suspicious persons during a "national emergency";
2. not outlawing racial discrimination in public and private housing; and
3. giving to police the right to pump the stomach of a known dope peddler on suspicion that he has swallowed evidence.

Yet, surprisingly in light of the above results, Techmen also overwhelmingly refused the Federal Communications Commission the right to cancel TV programs which it feels are against the national interest.

Consistency is Next

The above on-campus results illustrate a fairly inconsistent approach to the civil liberties ideas expressed in the polls, even in view of the highly simplified questions. ("Anyone who has ever belonged to the Communist party should be barred from public employment—yes or no?" is a typical question. What employment? Where? How long ago was he a Communist? Why was he a Communist?) This inconsistency was reflected in the overall statistics, partly because half the students polled were from Caltech.

Eason Monroe of the southern California branch of the ACLU said the poll revealed college students showed "remarkable inconsistency and lack of clarity" on Constitutional questions. Despite the faults of his poll, Mr. Monroe's statement seems well founded. Techmen did repudiate their role of unaware scientists by showing a far better knowledge of the Bill of Rights than did other college students, but they also seemed rather vague on the applications of the rights they know about.

Copies of the Poll, and scores thereof, are available from Larry Rubinowitz, ACLU Caltech chapter president, in Page House.

Physics Club
Meets in Week

Dr. Ted Forrester of Pasadena's Electro-Optical Systems Corporation, will speak next Thursday, January 25, at a meeting of the Tech Physics Club. Forrester will discuss photovoltaic mixing, a topic of significance in coherent-light research. The Physics Club meeting will be held at the home of Professor T. Lauritsen; it starts at 8 p.m.

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LOS ANGELES AREA — And Other Areas of Pacific Telephone

February 7, 1962

PLACEMENT OFFICE
BY JOHN BERRY

Two results of last week's colorful Tech drama (1) there is a persistent rumor that a high Caltech official was hunting us with a vodka bottle in his hand, and (2) I have been informed that there is a chap who keeps the basement of the Beckman tower

stool. I wonder if any commitments have been made to the regular of the chapel and the perennial complaint that "Tech is Hell"!

All I know is that I'm not going to visit the place on All Hallow's Eve. I'm that Hallow's Eve. I'm at midnight.

Pat's, Not Klode's

For those who have found Klode's unfriendly of late there is now a reasonable alternative. Pat's on Colorado Street has asked the Barfly's expert advice and received it. Only the ineptitude of our scurvy Business Management has pre­vented them from advertising here. Pat's location is near the Train Station. The chance the stock doesn't include what you want. Pat will probably want to know about and order it.

The remainder of the column is devoted to a report on the greatly anticipated predecessor-but-one, and is about five years old. Its age is the reason the greatest of the prices are out of date.

Scotch Evaluated

"This week we deal with specific evaluation of several brands of Scotch. First let us assume that a drinker has a strictly beer

capitalistic money hoarder. The reader regrets any omissions or errors of judgment. It must be realized that Scotch does not run the complete gamut of qual­

ities that Bourbon does. Almost all of it is quite drinkable in contrast to some of the brews which come to mind without the slightest provocation. Those who do not value their own personal tastes of Scotch we leave to their own inap
tumblings.

The above list is not intended

Pitch, Black and White Deluxe, Johnny Walker Red Label, Kings Rassonne, Chivas Regal, Usher's (20 years old), Martin's (8 years old) (12 years old), Crabbie's and Blended

Moore's. The best Scotch of

body and flavor here is proba­

bly Chivas Regal, with Black

Lable not far behind. Those who

like a lighter Scotch will prefer

Pitch or King's Rassonne.

Blended Moore's has fine flavor qualities but is all of 100 proof which is fine for the Wy­

oming roughneck but may do

disturbing things to the delicate linings of midly's throat. All of

the above Scotches are fine prod­

ucts whose quality reflects their high price.

Pitonarotic realm

At this point we move into the realm of the pitonarotic, capit­

alistic money hoarder. The prices of the following brands range from $10 to a nifty little job that markets for $32.53. This is a considerable range, but above $10 who cares? All of these brands are among the finest Scotch available and are of the result of extensive aging. The list includes Ballantines (17 and 30 years old), Grant's (20 years old), Glenlivit (10 years) and a number of exotic brands not obtainable in this part of the coun­

try.

Glenlivit is the only unblend­

ed Scotch on the market, to the best knowledge of this writer, and will not appeal to the drinker accustom­

ed to the conventional blended Scotches. It is quite highly priced, being dis­

tilled in the Scottish Highlands. Just for the record, the 30-year old Ballantines is the $32.25 in a 5th day­

ny.

The above list is not intended

Russo Routed

"Quit pulling down my pants, Russo" was feminine comment heard by startled Scurvedwarf who was walking by closed door. Beak, always anxious to find a good piece for column, invested in matter further. Unfortu­

ately, expected turns out to be false. Russo, attempting to find new standards for wenches, has measured out of date female associa­

tion. Wenche, attempting to re­

trieve leg from tape, finds bull­

fighter pants caught in same. Thus issue comment. Sigh!

Lampight Lampooned

Beak is relieved to find that others can cause almost as much confusion as himself. Consider case of great mass of nervous­

ness at Scrippshack when two

beers were sold to same person to be all-inclusive, but rather is offered as a summary of the most noticeable things in this part of the country. The writer regrets any omissions or errors of judgment. It must be realized that Scotch does not run the complete gamut of qual­

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Scratch Swamped

Scrute Coxsawn Scratch was much surprised upon returning from recent date with Hero­

Frosh-wench. Upon opening doors to room, Scratch discovered that he has been buried under 700 cubic feet of newspaper; the result of one of college's biggest and 50 man-hours of crumpling. Not to be outdone, Scratch con­
vinced courtyard rooms that morning was at band by using remains of room cleanup for marshmallow roast in our found­

dot's pot.

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