The California Tech

Turner Speaks Out on CIA

by Christopher Juten

We stand outside, neatly and in front of Beckman auditorium. We file through the main doors, and come to Turner's dark of the stern-faced doorman. Once inside, we notice interesting anomalies in the audience: one man wears a funny little hat, another a visage of Dick

A young man with a long trench coat, peculiar turned up lights, a usher under his arm strolls the stage and peruses each seat and cranny. In a few moments he returns to his seat. He then opens his newspaper and peruses through several government-placed stories. Someone is indeed eager to see Field Turner, Director of the CIA, reply to the covert activities in recent years.

A quarter of an hour after the scheduled beginning of the speech, the auditorium is filled. Turner appears. He is tall, thin, and sharply dressed. The audience quiets, and he begins to rebuild the CIA's public image.

The changes forced upon the CIA over the past few years, as the US is on balance, beneficial, he told us. One important change is the new perception the US has taken towards the importance of international terrorism, the US is a more sophisticated, easy to know and control, the U.S. now must support the larger countries in this area. We stand outside, neatly or a much different world. This does not always necessarily mean that the CIA needs to be be run by business and industry to quickly shut down machinery and processes vulnerable to earthquake damage, and to bring emergency power on line.

So a system could mean the difference between economic survival and catastrophic damage to an industry, said Dr. Iwan, an expert in the placement of strong-motion instrument arrays for measuring large earthquake motions.

"An example of an early-warning system for southern California might consist of an array of strong-motion instruments along the San Andreas fault which would communicate with industrial subscribers via telephone lines," said Dr. Iwan. The key to the system's viability is the fact that seismic waves travel at a speed of several kilometers per second, while electrical impulses travel over wires at the speed of light.

"Obviously, if an earthquake occurred right under a plant, such a system would be useless, but for an earthquake on the San Andreas fault, industries in southern California could have from approximately 10 seconds to more than a minute between the alarm and the arrival of seismic waves depending on where the earthquake originated along the fault.

"An alarm system would be useful in any location in California, including certain northern areas of the state, where electrical impulses travel over wires at the potential source of energy release," he said.

The alarm, said Dr. Iwan, could consist of either a sign of the "yes-no" warning of an impending large earthquake, or of a more sophisticated transmission of the estimated magnitude of the quake and the estimated arrival time. In the latter case, the reaction of the industry could be keyed to the time interval before arrival of the seismic waves.

News from the mini-Con-Con

by J. Copeland

This sudden member of the jet set woke up this morning at 6 am in Pittsburgh and so far today has been to Rochester and Syracuse, (thanks to Allegheny airlines), Ithaca and back to Syracuse (Avia) & Philadelphia (Eastern). Before I return to LA, I will have been to Dallas/Ft. Worth also, the last 2500 miles thanks to American Airlines.

Well, this excursion started out as a trip to the First National Student Congress, U. of Pennsylvania, Philadelphia, 1-4 March. (March 5th was an incident side trip to Carnegie-Mellon, today Cornell.) I thought I was in for a much needed rest. (Never produce a musical if you're ten per cent on more than 36 units.) We ended up working our butts off. In 72 hours, students from about 40 colleges and universities drafted and argued over proposals in 16 areas of national policy, from Foreign Policy and Defense, to Poverty to Morality. I learned a hell of a lot. The conference was organized by Tom Andrews, Greg Coolsey, two students at U.P., with some help from the Foli, Sci. department and Congressman Bob Edget. Most of the time, the oldest person in any meeting was 25. The faculty took no active part at all.

There were lots of frustrations in the first time out. A house meeting, or a BOD meeting can be run without the benefit of parliamentary procedure, since there are only fifty people (ok, seventy) at most, and they all know each other. But just try that with 105 total strangers. So, constant modification of the rules was in order. Our first mistake was to change the rule for modification of the rules from two-thirds vote to a simple majority. We also allowed amendments to resolutions from the floor. (The rules originally called for postponing debate, while amendments were proposed, and offered in writing.)

Anyway, Thursday evening opened the conference with a plenary session, where we modified the rules, found out who took the floor, and Iwan's rebuttal started lightly, and Sen Joseph Biden (D-Del). Biden's speech was short and I met a chap named Garth Crane's speech was short and dull. But just try that with 105 total strangers. So, constant modification of the rules was in order. Our first mistake was to change the rule for modification of the rules from two-thirds vote to a simple majority. We also allowed amendments to resolutions from the floor. (The rules originally called for postponing debate, while amendments were proposed, and offered in writing.)

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I can't figure it, but for some reason the other eds. won't allow me to use Clip & Paste articles to fill space. They seem to think that writing dimshyt editorial is instinctive for me, as effortless as the natural function to which my writing has been likened.

Now, I'm essentially a rather lazy person, and it seems quite a waste to write editorials when hpt Techers are bright enough to know just how they'll run from the first line—and read no further. In the interests of efficiency, then, I'm listing here the topics for what would otherwise be my next fifty editorials. Read through them. Take one or two of them seriously—and just imagine the possible advantages. Or don't bother. I don't care. Whatever you do, just don't call me.

There is not enough student parking space near the houses.

Pass/Fail grading is underused.

There is too much pressure for undergraduates to consider taking leaves.

Caltech's standards are lowered by the: (1) absence of humanities; (2) presence of humanities; or (3) absence of humanity.

How come they don't have any real books at Millikan?

How come Tech editors aren't paid real money?

Why doesn't the Institute sell the options of any five characters for ID numbers? It works with license plates!

Could somebody revamp the Caltech-Oxy student exchange?

On the other hand, why pick on Oxy?

Let UASH faculty members be student-elected.

Replace food service with a McDonald's.

How about having Caltech secede from the Union?

Allow TA's to use the handicapped spaces.

Offer pensions for flamed Techers.

Moralize tobacco.

Just why is it that the student houses are the only buildings without air conditioning? I mean, where do people live?

Let's import a sense of humor for the Annex.

Institute "kiss a Flem" day.

Let Caltech become the eighth nuclear power.

Relocate student houses to San Marino.

... and why not sex stamps? Pink for .

Replace Saga with Soylent Green.

How about a rotating restaurant on top of Millikan?

We need an on-campus grocery store . . . hardware store . . . optometrist . . . munitions depot.

Sever diplomatic ties with Liechtenstein.

And just what's wrong with a 24-hour flame-out hotline?

More indoor sprinklers.

More social life.

More pork in the beans.

Establish diplomatic relations with the Annex.

Ban nuclear testing in the infinite storerooms.

Well, we could rent out Millikan for Bud ads.

Isn't Voyager about due for recall?

The steam tunnels ought to be air-conditioned.

And when was the last time they were dusted?

What this place needs is to replace gravity with something better. Levity, perhaps?

Bring back prayers in class—or do the Gideons deliver big red books?

Eliminate the middleman. Replace profs with TA's.

Anyone want to renumber Millikan from the top down?

A Chem Lab/Student House shuttle?

To The Editors

Once again, the Tech football team has been maligned, and as one of the few students who have been around long enough to witness a couple of winning seasons, it looks like it falls to me to defend our reputation, and to straighten out anyone else who may be suffering from the same delusions as Mr. Phil De Beubien of the Daytona Beach Sunday News-Journal (amazing, the people who decide to pick on us, isn't it?).

In an article published on January 28 of this year, Mr. De Beubien accuses us of having the worst college team in history, of having grad students on the team, and misrepresents not only our cheer and the letters on our letterman, but also, as usual, the very name of our alma mater. In been called something different lettermen, but also, as usual, the gridiron (although they may have in addition, he accuses us of not the same delusions as Mr. Phil De left Tech with a sweater or had any of the people who decide to pick on us, isn't it?).

In reply, if you want to identify this place and 'The California Institute of Technology' seems to long and too ambiguous, you call us Caltech, not Cal Tech. If you want to capitalize the 'Tech', leave off the 'Cal'. To the best of my knowledge, no letterman ever left Tech with a sweater or had any of the people who decide to pick on us, isn't it?).

The Mad Adventures

of 'Rabbi' Jacob

SIGMA TRIAD

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Mika Tihan

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Friday, April 6, 1979
from one

Quakes

"Even though ten seconds does not sound like much time, a great deal can be accomplished in that period, especially if the alarm is used to trigger an automated shutdown process," said Dr. Iwan. "Among the measures that could be taken, according to Dr. Iwan:

- Lashes, grinders, and jig saws or other rotating machinery which could be damaged or knocked out of service by a large earthquake could be shut down and/or the oil removed from contact with the work.

- Open vats of toxic or dangerous fluids could be tightly covered.

- High-pressure plumbing lines and other such systems vulnerable to shock could be strengthened.

- Emergency generators could be brought up to prevent any interruption in power should public utilities fail. In such power interruptions, computer memory data may be lost, thereby disrupting the control of potentially viral activities.

Although detailed economic analyses of the proposal have not been made Dr. Iwan estimates that subscription costs to such a service could be less than one thousand dollars per year, depending on the number of subscribers.

"The technology is already available for such a system, and in many places along the San Andreas fault, strong-motion stations are already in place, that with modifications, could be adapted to such a system," he said.

"I would suspect that, should such a system become available, insurance rates for the companies subscribing might go down," he said. "And it might turn out that insurance companies would require earthquake alarms, should the system be offered."

In general, the manufacturing and processing industries are quite vulnerable to large earthquakes, said Dr. Iwan. Much less attention has been given to this area than to the earthquake-resistant design of structures.

Many industrial buildings have a value that is relatively small compared to their contents. When they start begging me to write an article, you know that they're getting desperate. The 'y' on my typewriter has been sticking lately. So has the 'x'. It is going to be a royal pain to have to add words with 'y' and 'x' in them.

"Many industries use special tooling, fixtures, or test equipment that are one-of-a-kind items, and their loss could be staggering to the company. A company could lose production for weeks or even months.

"Industry has also not adequately researched the effects that a large earthquake on their inventory. For example, many industries store inventories on tall palletized racks or on unsecured shelves, which could fall in a large earthquake. Many times such inventory is quite delicate, and even the cost of electronic parts, and the loss could be substantial."

Well, folks, this is going to be one of those issues. When they start begging me to write an article, you know that they're getting desperate. The 'y' on my typewriter has been sticking lately. So has the 'x'. It is going to be a royal pain to have to add words with 'y' and 'x' in them.

To tell the truth, I really don't have any great ideas concerning what I should write about this week. rrrrrrrrrrrr. Well, at least the r is working a little better now. Now for the y: yyyyyyyyyyyyyy. Well, I guess that it's working OK now, too. Wasn't that fun? It's too bad that nobody besides the Tech typist and Editors ever sees these; in their own way, they are actually rather beautiful. If you look pop-art, that it. I have even been asked if I am the same person who writes these. Well, I think I am. Perhaps I'm too normal in person. Oh well, non-conformity has its dangers. But like any other schizo, I have many different sides and I don't know about the rest of you, but I intend to keep that small touch of insanity that makes me human. I feel very sorry for those of you who go through life living under an assumed reality and losing your creativity in the maze of the demands placed upon you. If something is choking you into something that you don't like, it's up to you to adapt and possibly change your situation so that you can continue to exist without losing your personal integrity and identity. At the same time, it is important to remember that there will be changes in ourselves as we go through life and that we must accept ourselves for what we are at any given time if we are to be truly happy. Everybody in the world has the opportunity to become something special but the mud of failure is constantly enveloping those who are too weak to resist. There is nothing intrinsically wrong with mediocrity; happiness is almost everywhere in life and you are best off where you are honestly happy. Mediocrity offers happiness and breaking free from the crowd brings some very intense pains. But there are also some very special joys and the decision is a very personal one. I warn you though, it can be very hard to return to the crowd once you have been apart from it. Why this, instead of the usual useless trivial? Well, perhaps just to serve as a reminder that we are all marvelously unique and special and that life is never easy. Sometimes we forget those things when buried under work and tests and the temptation to lose ourselves within our own work becomes very great.

Don't worry too much if this doesn't seem to make too much sense; just look upon it as the ravings of an overworked, half-crazed Tech student. At least it's better than an ad with Christopher Columbus saying he sailed around the world to discover Bud or something like that. Also, I hear the food quality around here is improving. People have actually said that some things tasted good. This can only mean one of two things: either the taste buds of Techies have degenerated to the point that crude oil would taste good or else SAGA has actually been buying a better grade of horse. Credit where it's due. I had better quit or there won't be enough room for the B.C. ad.

--Duncan G. Mahoney

Student Congress from one

Government. Biden also announced that there were ours to such interference and responsiveness. The case he was of the farmer in/gaining faced by the EPA biologist. The biologist wanted to get the coyote from eating up by feeding the coyote that infected with a streptococcal. This would prevent the animals from feeding. The farmer's comment, they ain't trying to f*ck my trip, they're trying to eat 'em.

In any case, get a standing room. (Friday evening, we were given an after-dinner talk by Bob Edgar. His comments on what a congressman does was particularly punctuated by filling up his voting card for House floor.)

Thursday after dinner, we started our committee meetings. I was a member of the Transportation, Communications and Technology committee. My committee meetings were basically bull sessions out of which resolutions appeared by consensus—but more about that later. Thursday evening ended when the delegates from the West Coast (me, someone from Oregon, someone from Colorado) decided that we had been without sleep long enough getting there, and should find the local drinking establishment and establish and stumble back to our rooms.

Friday's committee meeting was an eight-hour bull session. We produced about 8 resolutions: Discourage private auto use; Encourage mass transit; Make mass transit attractive; Make mass transit usable; Discourage cross-ownership of newspapers and TV stations; Call for more funding for basic research; Call for more funding for applied research. The newspaper/TV resolution should have been more general and, as the case of electronic parts, and the loss could be substantial.
Buck Rogers in the 25th Century

Buck Rogers was a comic strip and radio series that later became a TV show. The character was created by Hal Foster and was known for his futuristic attire and gadgets. Buck Rogers was one of the first to use science fiction elements in popular media, influencing other works such as "Star Wars." The show was produced by Glen Larson and featured actors like John[P 1929].

The Invasion of the Body Snatchers

Somewhere around twenty-three years ago, moviemakers were cringing (or laughing and enjoying them) in the theaters that were showing one of the scariest films of that decade: "The Invasion of the Body Snatchers." The story, based on a novel by Jack Finney, was frightening primarily for its premise, that scientists were planning not just a straightforward invasion, like in the other movies, but a takeover so subtle and insidious as to be genuinely unnerving. They were going to replace your friends, your loved ones, and eventually, you.

The script and acting in that 1950s film are the greatest in the world, but the film nevertheless became a minor classic in the alien invasion genre.

Real Life

"Real Life" is a movie about making a movie of a real-life family. It is a parody of the 1973 PBS series "An American Family," Albert Brooks, actor and director, star in the film, which he also wrote and produced. The film is a personal film-maker. Brooks is a very funny man. In 1975, "Time" magazine called him "the smartest, most audacious comic character since Lenny Bruce and Mel Brooks." So, now he has six short films he made for the first season of "Saturday Night Live," and a Grammy-nominated comedy album "A Star Is Bought." He has appeared on "The Tonight Show" more than twenty times. His first film, "Real Life," is the campaign offspring in "Taxi Driver." The father of the real-life family is a lupus, vegetarian, played by Charles Grodin. His performance last year was as the personal secretary to the Secretary of the Interior. He has also starred in "The Heartbreak Kid," "11 Harrowhouse," and "Demolition."

The characters have faults along the way to settle. "Let's do a same Time Next Year." The plot was standard space opera. The audience finds it difficult recognizing them as really home. "Well, I'm glad that I saw the film."

Piano: This is Don Cossack and some of his buddies sitting around wondering via their in-progress digitaladers what they were going to do to pay the rent in the next couple of months. I know that in a Don, but, respectively, the role that is under control-BAM!

Phantasm

This is Don Cossack and some of his buddies sitting around wondering via their in-progress digitaladers what they were going to do to pay the rent in the next couple of months. I know that in a Don, but, respectively, the role that is under control-BAM!

A Perfect Couple

The latest Robert Altman film (following "Quentin") is simple romance between two very different types of people. The couple is a mix of a rich and overbearing "old world" Greek family and a singer in a new rock band. Alex lives in the family's Greek mansion and looks for the family's antique company. Sheila lives in a converted cassette store in "Klang's "Little Tokyo." With many of the members of the large group. Both are lonely and they meet through a computer dating service.

The stars are Paul Dooley and Martha Feltham. They appeared it known in a Don, but, respectively, as the new rock and roll singer. Their is the group's enthusiastic a part of their debut showcase party LA.

The romantic story-line is much more to offer than opposites do not attract, Mr. and Mrs. Darcy, and their with their attributes. The romance is accentuated by a group of spatial subplots of Alex's ill sister is a producer of a new rock and roll (Philharmonic) and in the laughable contrast of the unperfect. The film is a classical musical, rock/disco, comedy, romances, interesting people, and a very good concept in movie-making.

-Eve Bennett

-Alice Arters

-Nick Smith
A New Trustee?

Dr. Charles H. Townes, recipient of the Nobel Prize for his research that led to the development of the maser and laser, has been named a trustee of the California Institute of Technology (that's us, you know), as announced by R. Stanton Avery, chairman of the Board of Trustees.

Dr. Townes, University Professor of Physics at the University of California, Berkeley, received his Ph.D. in physics from Caltech in 1939.

He received his Nobel Prize in 1964. As an engineer, he has always been a recipient of other honorary degrees and awards. He includes membership in the Royal Society of London, the National Inventors Hall of Fame, and the South Carolina Hall of Fame.

Dr. Townes is a past president of the American Physical Society and is a member of the Council of the National Academy of Sciences. He has served on a number of governmental advisory committees, is a Director of General Motors Corporation and of the Perkin-Elmer Corporation, and is a Trustee of the Carnegie Institution of Washington.

Not One, But Two

"Count 'Em!" Two!

Harry H. Wetzal, Jr., chairman of the board and president of The Garrett Corporation, has been elected to Caltech's Board of Trustees. Wetzal began his career with Garrett in 1946, as an engineering student, he held various management posts, and in 1958, he was elected vice-president and member of the Garrett BOD. In 1962 Wetzal was made executive vice-president of the corporation and the following year he became president. In 1966, he was named chairman of the board and chief executive officer of Garrett.

Wetzal also serves as a member of the boards of The Signal Companies, Thiokol Corporation, National Semiconductor Corporation, and is vice-chairman of the Board of Governors of the Los Angeles Music Center's Performing Arts Council.
Alfred Brendel, one of the most recorded pianists today, played to a small but enthusiastic audience Thursday in Beckman Auditorium. The program was one of the last of a group of all-Schubert recitals that Brendel has been giving in Europe and America commemorating the hundred-and-fiftieth anniversary of the composer’s death.

Brendel started out with a group of six small pieces, *Moments Musicaux*. Despite the different character of each of the pieces, Brendel seemed completely at home with every one. The first, in C major, was very sonorous, very subdued. Brendel played from the start in somewhat introverted style, drawing the audience to him rather than playing out to them.

The second of the *Moments Musicaux* followed in the slow, lyrical mood of the first, but with the third came a change to *Allegro Moderato* and a sort of Turkish dance. The fifth was the high point of the set, a highly rhythmical, sparkling piece in F minor, followed by the sixth and a return to the slow lyrical mood of the first two pieces.

After a good deal of applause, Brendel continued to the Sonata in A major. This piece gave him a chance to exhibit the more dramatic aspects of his playing. Particularly in the extended runs of the first and last movements, Brendel was able to exhibit his remarkable dexterity at the keyboard. At no time though, did he allow technique to dominate his interpretation of the piece; he was in full control at all times.

The crowning point of the evening came after intermission with the Sonata in B flat, Schubert’s last sonata. The sonata is truly of symphonic proportions, and Brendel managed to convey this. He had the proper touch for every part of the Sonata, from the celestial second movement to the playful and spirited rondo, the fourth movement.

Prolonged applause brought two encores from Brendel. The first was the *Hungarian Melody*, a little known, but delightful piece. The second was the *Impromptu* in G flat, Op. 90, number three.

Brendel’s playing through the entire performance was technically impeccable and full of the Viennese charm that he is noted for. But at no time did Brendel reach a state of abandon; he never seemed to put everything into the music. This is not to say he left the pieces empty; rather, he was almost too controlled in his interpretation of the pieces; he never let his emotions take over. But one cannot fault him for this: maybe it is the way Schubert should be played.

The only real complaint about the evening should be the size of the audience—Beckman was barely half full. The next night, in contrast, Brendel played to three thousand people in UCLA’s Royce Hall.

—Kent Daniel
IBM still wants to talk with you about a career in Engineering or Computer Programming.

Talk to IBM before you make any job decision. If you haven't discussed your career future with IBM before, take time for a frank discussion about opportunities for growth at IBM.

Stop by the placement office to see detailed job descriptions and arrange a convenient time for an interview. If you are not able to meet with us but would like to know more about a career in IBM, write Mr. Harley Thronson, Corporate College Relations Manager, IBM Corporation, 3424 Wilshire Boulevard, Los Angeles, CA 90010.

IBM will be here Tuesday, April 10.
The Huntington Library, Art Gallery and Botanical Gardens in San Marino. A new city ordinance limits attendance on Sundays to visitors with advance reservations.

Each person must have a ticket in order to be admitted on Sunday. Free tickets may be ordered by sending a stamped, self-addressed envelope to: SUNDAY TICKETS, The Huntington Library, 1151 Oxford Road, San Marino is open Tuesday through Saturday from 10:00 am and from noon to 4:30 pm. On Sunday, Sunday Tickets, admission and parking are free.

Shuttle

The Caltech Y Oxy-Tech shuttle has started. Students taking courses at Occidental from 2 to 4 on Tuesday and Thursday afternoon can catch a ride in the Y Lounge to meet at 1:30 pm. We should be back by 4:30 pm. For more information contact the Caltech Y or Mike Nelson.

Janis or Scott?

The Stord Chamber Quintet will perform a program of Zia, Kishi, and Dvorak Slavonic Dances, at 4:30 pm in the Y Lounge on April 18. Please call Ginger or Fred for further information. The date has been changed.

The Red Cross Needs You!

Blood will be drawn between the hours of 10:00 am and 3:00 pm in Dabney Lounge. Food is available. Any blood type is needed. Any blood type is needed. Please call Ginger or Fred for further information.

Awards

Award winners will be selected by the faculty committee on Scholarship and Financial Aid. The chairman of that committee, Dr. Forrest Nelson, will supply additional information on request. This extension is 1064. $ $ $ $ $ All awards are given to students who will be attending the 1979-80 academic year must have their budget requests in by TODAY. See either Flora Boyer for budget request forms or come talk to Glen George in 138 Page. The deadline for applications is April 13.

Music

Piano Ensemble Concert

Dabney Lounge Friday, April 13th, 8:00 pm. Twelve good Caltech pianists (undergraduates) will play Schubert, Mozart Brahms, and Chopin duets at one piano and Dvorak Slavonic Dances for eight hands at two pianos. The public is invited.

For Those Who Want Money

REMEMBER: The Financial Aid Application deadline for the 1979-80 academic year is April 16! Applications are available in the Financial Aid Office, room 208 Dabney Hall. If you have any questions or cannot meet the deadline for some reason, come as soon as possible and discuss your situation with either Urula or Sandra.

The Caltech Y is once again accepting applications for the Paul Studebaker Memorial Award.

Paul graduated in 1972 after five years at Caltech with a BS and an MS in electrical engineering. But Paul was uncertain about his future. He had developed an interest in biophysics and a young woman. He questioned how he could use his skills to help people. He needed a new perspective. He decided to get him to get a fresh view of his life, his future. After graduation he travelled around Europe and the U.S. with his girlfriend, Jean. looking, listening, and learning. By mid-summer 1973 he had come up with a plan. He was going to marry Jean. In August on a lonely two-lane road in Kansas their Volkswagen was struck by a truck, and both Paul and Jean were killed.

The Paul Studebaker Memorial Fund was established with his inheritance in order to give others the same opportunity that Paul enjoyed.

If you have had thoughts of travel, travels, and personal reevaluation, you could do worse than write a brief description of your plans and drop them by the Y office. The deadline for applications is April 13.