Convocation Marks Anniversaries

California Tech
Associated Students of the California Institute of Technology
Volume LXVIII
Pasadena, California, Thursday, October 27, 1966
Number 6

Gell-Mann Leads Off Conference

Some of the concepts that furnish the framework of some of the current concepts of sub-atomic structure and particle physics. Basically, he said, there are four important forces — gravitation, electromagnetism, weak interaction, and strong interaction. These last two forces act on a scale smaller than the atomic nucleus. In fact, evidence from that immortal line in Finnegans Wake: "Three quarks for Muster Mark," provides the existence of three basic clumps of matter, quarks, with mass either negative one-third or positive two-thirds, and their antiparticles. In the words of Gell-Mann, "Quark structure seems to explain, in detail, the properties of atomic particles." Yet quarks may or may not exist. Even if they do not exist, they form a good mathematical model of the confined universe of elementary particles.

Thinking big

The second lecture was by Greenstein. He described the growth of the astronomy observatories, and elaborated on the growing importance of, higher temperature, furnaces. At present the cost of uranium and nuclear plant is enormous. A world of the future where people will be able to live where there is sufficient fusion in the stars to provide for pleasure, and communicate to work.

Nukes for peace

Sir William’s talk dealt with the development of the nuclear situation in the United States, England, and France. He emphasized the growing importance of atomic energy, and at the same time the great potential of available materials to feed the nuclear furnaces. At present the cost of uranium and nuclear plants being on the 75th anniversary of Caltech, led discussions on the amazing developments that have occurred in the last few decades.

Fierce, executive research director of the Bell Telephone Laboratories, spoke of the progress made in communication. Fierce, chairman of the United Kingdom Atomic Energy Authority, elaborated on the growing use of atomic energy for everyday power needs. Mueller, a Nagoya University professor, stated clearly useful aspects of the space program.

Three authorities and major constituents of the technological revolution, John R. Pierce, Sir William Penney, and Dr. George Mueller, spoke in Beckman Auditorium on Tuesday afternoon.

The conference gave valuable insights into three main facets of the space race to the common man. Notable among these are the prospects, weather prediction and information about the future. Their conference also highlighted the current developments of the space race, the role of communication in the underdeveloped areas of the world. Because of recent developments, a universal ability to send messages, in the form of radio waves, to distant places, is now in its infancy. This ability will have to be improved in order to make it practical for everyday use. The next project, in this field of communication, is to extend these developments so that they can be used in the underdeveloped areas of the world. Because of recent developments, a universal ability to send messages, in the form of radio waves, to distant places, is now in its infancy. This ability will have to be improved in order to make it practical for everyday use.

Fierce chiefly discussed the progress in the technology of communication which we have made in the last few years. He cited television as being major importance in the unification of mankind, and he envisioned communications satellites being used in the underdeveloped areas of the world. Because of recent developments, a universal ability to send messages, in the form of radio waves, to distant places, is now in its infancy. This ability will have to be improved in order to make it practical for everyday use. The next project, in this field of communication, is to extend these developments so that they can be used in the underdeveloped areas of the world. Because of recent developments, a universal ability to send messages, in the form of radio waves, to distant places, is now in its infancy. This ability will have to be improved in order to make it practical for everyday use.

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Save the Coffeehouse!

Last year at the Y Planning Conference one of the ideas brought forward was that the installation of a coffeehouse might encourage Caltech students to get together and exchange ideas more readily. Such a place might become quite exciting, both for students and non-students. The idea, and mobbed Roma Garden's the first night the Coffeehouse Menu went on trial. There was a lot of discussion in favor of a Caltech Coffeehouse Committee even formed to aid in the planning of the eagerly-anticipated alternative to The Crock.

Now the administration tells us that it can't find a house to put it in. There is a city ordinance prohibiting certain amount of parking space for every building erected, and the spaces are planned to fall precisely where the Coffeehouse could feasibly be located. Going farther north involves neighbors who aren't so tolerant of students' nocturnal attitudes, and who would probably constantly complain about the noise across the street.

How can? Just why does the parking space need to be here the Coffeehouse should be? Which is more important, parking lots or the one-all-night hangout on campus? Macadam or mocha? The administration, it pains us to say, apparently prefers the assfault.

For years and years, we've had an old L. C. Smith & Bros. typewriter sitting in the corner. For all we know, it may be a valuable piece of antiques. We leave it alone, absolutely free, to the author of the best original poem or jingle satirizing the administration's choice in this matter. We're not trying to railhouse (although we'd like to remind you that there's a meeting Student Senate next Monday) but we know there's a great deal of sentiment in support of this idea, parking lots notwithstanding.

The Coffeehouse is clearly not as important an issue on this campus as the students being able to get together someplace and converse with each other. Perhaps if the Coffeehouse sites were all to be occupied by buildings, the indefinite postponement of the idea would be justified; but for a parking lot? This is the issue. Within the next week we ask that some other building be saved for a coffeehouse, even if a few parking spots are given up. We are sure that it is possible for any student who wants to use a coffeehouse this fall to obtain a place, and in the meantime there is no harm in saving a building, even if only for a coffeehouse.

WANTED: FREELANCE TRANSLATORS FOR SCIENTIFIC MATERIAL. ALL LANGUAGES. SCIENCES ON OFFER. EXCELLENT PAY. SEND RESUME TO P.O. BOX 162, MONROSE, CALIF. 91020.

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SNOOPY

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**Intelligence Report**

by Feider and Jacobs

For true aficionados of fine jazz, we suggest The Lighthouse Beach. More well-known, and a bit of a tourist trap, are the Golden Bear, this establishment's feature menus: such perennial jazz favorites as Miles Davis, Moe Allison, The Ramsey Lewis Trio, and Cannonball Adderley. A featured artist usually holds forth for about two weeks. Information concerning current attractions may be obtained by listening to KSCLA (101.1 on the FM dial), or by phoning FFL 4006.

**Where the action is!**

The action is best on Fridays and Saturdays, when the cover charge is $2.00. The doors open at 8 p.m., and seating is first-come-first-served (no reservations). There is no age limit. For those desiring alcoholic beverages, ID's are checked by the waiters. Prices for drinks (about $1.50 per) are not exorbitant. There are usually a few "beach types" in the audience; dress is generally costumable (or perhaps good sweater and slacks).

On opening nights, or when very famous groups are playing, it is a good idea to arrive at least a half an hour early, as there is always a long line out the door. By arriving even earlier, one may leisurely peruse the interesting characters and sights (some coffee houses located next to Pier Avenue, or visit the Tuna Tio behind the Lighthouse to enjoy a snack. Although the food there isn't any better than at other two stands, the flames issuing from the center of the tables do provide a certain amount of "atmosphere." The fine beach close at hand is ideal for an afternoon swim, or even a casual pre-concert post-workout "swipe" and an ankle out Hermes Pier (at the end of the street) might add a romantic touch to the evenings.

**And after the waves**

Hermosa Beach is reached by taking the San Diego Freeway south from its Intersection with the Santa Monica Freeway to Artesia Blvd. Then drive west on Artesia to Pacific Coast Highway, and south on the Coast Highway a short distance to Pier Avenue. The Lighthouse is a non-descript building at the ocean end of Pier Avenue, on the south side of the street. If you get lost, consult any good map or service station attendant. Hon Chance.

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**Redhot Flashback!** According to the archives of Colonel Goldsworthy, an ex-president of the Caltech Glee Club, the following number of students held directorships under Caltech's Student Government for the 1945-46 school year were pianists and percussionists:

- 10: Tenor sax
- 9: Drum
- 6: Bassoon
- 5: Baritone sax
- 4: Trumpet
- 3: Clarinet
- 1: 2nd tenor sax

Singing engagements for the 1946-47 season include the traditional Christmas Concert in December and the Home Concert in May. In between, the Club will offer a little something for everyone. The Lighthouse is a non-descript building at the ocean end of Pier Avenue, on the south side of the street.

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**Glee Club with New Approaches, Familiar Music**

by John Walters

The Caltech Glee Club, under the direction of Glad M. Frodsham, will offer its annual concert more than a month early this year. During Vaughan Hammy's "Hymns of Frodshamhood" for the 75th Anniversary Convocation, the Club will be unison in style of its four principal sections: Soprano, Alto, Tenor and Bass. The Club, split into individual quartets, each with a single first tenor, second tenor, baritone, and bass. This technique produces a better-balanced tone than the conventional division of the Club into four gross parts, but requires more concentration on the part of each individual.

"The old Madrigal Society (as part of the larger club) offers a wider repertoire and a new type of musical experience for the family-minded members of the audience, the Schur brothers, Bob and Bill, played a baritone solo; David will form a new act. In addition to these features, the Club will be even more impressive in its new brass and timber section. And in these two large, anonymous donations.

For those desiring alcoholic drinks (about $1.50 per), come-first-served (no reservations). There are usually a few "beach types" in the audience; dress is generally costumable (or perhaps good sweater and slacks).

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**Greenstein Gazes at Galaxies; Sharp Shows Slides**

(Continued from page 1) preservation of the universe for two reasons: Firstly, because you are cordially invited to a CHRISTIAN SCIENCE LECTURE entitled

**"Is Prayer Obsolete?"**

to be given by Lenore D. Hanks, of Portland, Oregon, a member of the Christian Science Board of Lectureship.

3 p.m., Sunday, November 6

Dabney Hall of the Humanities

sponsored by Christian Science Organization at Caltech

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California Western University parallels California Leaders of America with a leader of their own. George Lincoln Rockwell was their visitor for a day.

The Rutgers Observer reports a statement by the Rutgers Dean of Students to the effect that teachers and students should not double-date. An article in the same issue suggests that the solution to air pollution is to seclude people to it by continual exposure. Suggestions include holding lectures and picnics in all roadways and alongside freeways.

Supporting the theory that somewhere in the country there are those more bony than Tockers is this report from Worcester Polytechnic that they are considering allowing women in the dormitories. An editorial asks in wonder, “Is the average Worcester Tech under graduate ready for this social breakthrough?”

What do you think?

California Tech editor on his future family life.

Hearing Paul Horn makes a trip to the Manne-Hole, one of the two night clubs in Los Angeles area featuring jazz, w h i t e b l o c k. Horn, an alto saxophonist, flutist, and clarinetist, is one of the most outstanding musicians on the Coast. He plays flute most of the time, and his performance on this instrument overshadows his also playing, which is good by itself.

The modulated echo
During the session, Horn introduced the use of the amplified flute. He also used delayed playback, which produced a pleasant, but weird sensation. The effect was one of a natural flute being echoed several times. However, the use of these new (to this writer anyway) devices was over-done to some extent. At times the echoes modulated the actual music, but the overall result was good.

In addition to Horn, the quintet features vibraphonist Len Bleshing, drums, bass, and piano. Bleshing deserves special credit as he actually drives the rest of the rhythm section on the selection that swings, as well as being an excellent soloist. The drummer tends to be too “busy,” and the pianist and bassist are competent, not outstanding.

Ned Driver...

... from Beverly Bled, “La Brea...”

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PROFESSES Profuse in Academic Life

At one of the teas given for by the students, only on the unusually spectacular occasions that come up at Caltech only every three weeks or so, the appointment of new faculty members was announced in an attempt to fill the only school in the country with more faculty than students. These announcements were really no shock since all the new appointments were prearranged in a meeting of the Bulletin long before the tea (most coffee we’ve heard.). (I have been instructed by the likewise informed editor to insert aside witty comments bordering the line in order to entice you into reading this otherwise boring article.)

Engross yourself in all star cast of thousands which graces the big Pasadena movie set are the following big parters.

In the full professor department, Dr. Noel Cornell stopped visiting and has made the big step upward for his first starring role. Congratulations Dr. Corn. Likewise, Dr. Harry Gray is being promoted from a lovely visiting professor in chemistry and is now in the first ranks of Academia. A whole flock of migrating visiting professors are descending upon campus just in time to reply to the elevation of their two fortunate colleagues. Since they are coming from other campuses, your reporter has not as yet been able to find out what subjects these new men will be teaching, and will reserve that delight for future issues. They are, in order of alphabetical preference:

Drs. Wladyslaw Fizdon, aeronautics; Edmund Gill, palaeontology; Fritz Laves, geology; A. M. Ogier, physics; Denis Sargood, physics; Edmund Stephens, physics.

A casual reading of last week’s issue of the University of Redlands’ weekly rag, the Redlands Bulldog, reveals a proposal by the managing editor that all grades be limited to “pass” or “fail.” The reasoning behind this proposal was that such a system would cause students to work harder, and hopefully, help them avoid the draft.

The location of the next Model Town is subject to the decision of the students. Those interested are urged to attend the town meeting at the U.N. by debating current problems.

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In 1899, Dr. Weir and an associate at Amherst college were making a study of nonacademic factors affecting performance in a college situation. In an attempt to find out if one could consider Caltech and Amherst students as coming from the same population, they administered a Freshman Biographical Inventory to the freshman classes of the respective schools. As a result, they discovered that there were differences between students at Caltech, a representative liberal arts college, and Amherst, a representative liberal arts college. In addition, they found that there were differences, although not pronounced, between science students at the two schools. Their findings were similar to those reported in independent research done by Anne Roe, Paul Brandwein, and Bertrice Ethington, although it is not alleged that the results are definitive. They are reported as quotes from items in the inventory.

It was generally more true of Amherst students than of Caltech students that:

1. They skipped a grade in their early school years, were often bored by the slow pace of their schoolwork, and found it easy to get good grades and stay ahead of their classmates without much effort.

2. They read a great deal, often impressed adults with their knowledge, and in high school felt that they would like to live in a world of pure intellect.

3. They had few close friendships and never felt accepted by their peers, many of whom were critical of them because they were braves. They had little to do with girls in high school.

4. They had decided to study science by the seventh grade, often did scientific experiments with a friend, and liked science school subjects.

In the case of science students, it was found that, in most cases:

1. They preferred the values their parents taught them to those of their peers. They liked activities that involved a lot of people and they liked selling things.

In an interpretation of the data concerning the prevalence of science and nonscience students, it is found out of placing their effort of the procedure used to select the respective classes. It was most true of Caltech students to have good physical science, and least true of Amherst students that:

1. They were shy in high school and never very good in athletics.

2. They tended to do things by themselves, spent more time on individual projects than group activities, and more time in reading and intellectual activities than in social activities.

3. They gained major recognition and self-respect by doing well in their studies.

In the other hand, it was least true of Caltech students, more true of Amherst science students, and most true of Amherst non-science students that:

1. They had good physical coordination and liked sports.

2. Tests often scared them even though they were prepared.

3. They tended to take up popular fads.

The statistics concerning the family also seemed to be significant; the father's occupation and being an only child.
Mighty Cal Luther Chews Up Beaver Squad

Cal Luther might have won the war but they've lost a few battles. Following a 44-4 victory over both Caltech and Western's national standing dropped because of the "low" score. In addition, according to halfback John Frantzl, there is a completely unsubstantiated rumor that Cal Luther has 200 laps to run this week, 100 for being under 59 points and 100 for each touchdown Caltech scored.

Actually, the game was not nearly the rout it was supposed to be. Cal Luther dominated the game, yet their star, Dave Regaldo, was held to only one rush. However, the rest of the squad made up for his. (Regaldo is a 22 year-old, 6' 8", 237 pound fullback). For Caltech there were no real individual stars; most of the team did their part.

The scoring in discobolous is as follows: three points for a victory; two points for a tie; one point for a loss; nothing for a forfeit.

Fleming, Lloyd Tied for First

Fleming moved into a tie for first place in the Discobolous standings by losing to Page in battledrom over the weekend. This gives Fleming and Lloyd four points each and Page three. The match was not too close at Page never lost a game. First, Dave Van Kersen beat Roger Davidhizer two straight. Then, Don Dresser beat Randy Harlan in two games. This was followed by Rick Norman over Dan Adelas, Nathan Inger over Bill Miller, and the Gallop-Stebbings John and Alan Porter over Leo Lemell and Ken Yano.

Fleming has beaten Lloyd the week before to gain the first actual victory of the year, Dubinsky forfeited the first challenge to last year's champs by not getting it in time.

Tech Runners Win Meet Whittier Next

It had to happen sooner. Spurred by the demurring remarks in recent Tech articles, the Caltech cross-country team finally had a victory last week, when it swamped Claremont-Harvey Mudd 22:43 at the MountSac course, the breakfast of champions.

A hilly course
First to complete the newly-lengthened feature was Peter Cos, in 20:55, followed by Lane Mason 13 seconds later. The first CHAM finisher was Dave Bock, who crossed the gun 43 seconds before Mike Mee, the Snapges' third man. Van Stecker and Jan Hauge were 6th and 7th, respectively, new up the victory.

Patrick Cole of Pitzer, a distressingly pretty half-miller, ran half the course with the men; the fresh team did not have a separate meet and used the race as a distance workout. (Continued on page 7)

Ricketts then proceeded to lose an 8 to 7 contest to Dubinsky, producing the three-way-tie.

Outstanding performers for the year were: Fleming House—Chuck Wolfe, Randy Harlan, Jim Stanley, and Roger Davidhizer; Page—Gary Schmuelle, Larry Brown, Craig Maxwell, and Dave Gooden; Ricketts House—Ed Behlman, John Okada, Tony Garretti, and Larry Milliday; Daloney House—Dave Kasha, Herb Robinson, John Kuehn, and Wayne Lobb; Ruddock House—Hank Thacker, Rob

Discobolous

...appearing...

by Savas

Interhouse Softball is over, and irrationality is the order of the day. Ricketts, leading the race with a 4 and 9 record, dropped its last two games. Page lost its last, and Fleming won; the result was a three-way tie for first place.

Ricketts, undefeated in its last 9 games, lost to Ruddock in a see-saw battle 9 to 8. The same afternoon Page-bequeathed its last game to Fleming, dropping them into a second place tie.

Soccer kicked Apart by Westmont Team

The Caltech varsity soccer team met its strongest opponent so far, Westmont, and went down to ignominious defeat. Things looked optimistic during the first half as the Beavers peeled their best soccer of the season in keeping the score down to 0-1. But in the second half the whole team fell apart, perhaps due to tiredness, and allowed six more goals. Had they been able to keep up the tempo of the first half, they would have been a great game.

The team was somewhat rearranged for this game, and the defense did a creditable job, at least in the first half. Thieves coverage, kicking, and passing were fine until they started lagging in the second half.

The outstanding individual player was Armando Moreira, a freshman from Brazil. His ball-handling at inside forward was excellent, but unfortunately wasn't enough to score any goals. The open team fared much better, as they beat UC Riverside by a score of 6-3. After playing UCLA twice, this was the team's best soccer of the season in the second half. Their coverage, kicking, and passing were fine until they started lagging in the second half.

The varsity plays on Saturday afternoon Page bequeathed its...
Interhouse Dance will soon be upon us, and preparations are more or less under way. Each house has its pet plan and secretly believes that its theme is the best. The situation in each of the houses is as follows.

Xenophobic Zirk

Page seems to be furthest along in the construction of its interhouse project. In fact, it is the only house that has done any construction. The setting will be the eighty eight moon of Saturn and the lounge will be decorated as a temple of an ancient human civilization. There will be a monitor room with screens from all over the universe and a weird-looking snail named Zirk will follow people around and threaten them.

Interhouse Plans Coagulate as Page Starts Four Weeks Early

Although no definite plans have been released, it seems that Lloyd and Biddock will work together on a communal interhouse. There will be a ball in the Lloyd dining room and the majority of the construction will be done at Biddock. Each house will do its own decorating, however. The kings of Interhouse are Jim Lucas in Lloyd and Ed Seguine in Biddock.

Dabney, Blackett, and Blacker did not have any plans as of Tuesday, but said that they would be having meetings this week.

Waiters Threaten Strike; Get Wage Increase

Dr. John Boultin, Professor of Radio Astronomy at Caltech from 1955 to 1960, returned Thursday, October 20th to lecture to the Physics Department on his recent researches. Presently, the director of Parks Observatory in Australia, Boultin spoke on the identification of radio sources.

Identification of a radio source requires visual spotting of the source and the radiometer's range of frequencies. The greatest of these difficulties is determining the radio source's position with sufficient accuracy to pin down the visually known celestial object which corresponds to the radio source.

The Quakers took the first four places against CHM at Mount Sac, when their quartet finished in 4:43.20. Springtime brought the first proposal for a 1500 meter track meet in the winter season.

Aussie Elaborates on Radio “Curiosities”

Dr. John Boultin, Professor of Radio Astronomy at Caltech from 1955 to 1960, returned Thursday, October 20th to lecture to the Physics Department on his recent researches. Presently the director of Parks Observatory in Australia, Boultin spoke on the identification of radio sources. The lecture was quite technical in orientation, but was presented so that the salient features were understandable with a high school physics background.

More Academialand Tea and Crumpets

Alec of Cameroon said that he was more or less under way in the construction of his interhouse project. In fact, it is the only house that has done any construction. The setting will be the eighty eight moon of Saturn and the lounge will be decorated as a temple of an ancient human civilization. There will be a monitor room with screens from all over the universe and a weird-looking snail named Zirk will follow people around and threaten them. Steve Brown, the man in charge of Page's Interhouse, is in the process of constructing and perfecting Zirk.

Fleming plans to use a Gold Rush Saloon as the theme of their Interhouse. There will not be extensive construction, since the act is to be presented will comprise the main part of the program. There will be a meeting soon to plan the acts and work out details.

More Academialand Tea and Crumpets (Continued from page 4)

More Academialand Tea and Crumpets

Professor J. S. M. Moon asks:

“Gee, how come in a mass society like ours a premium beer gets to be the most popular? How come?”

Aw, Prof... the answer’s on the tip of your tongue.

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Go to the长江aucasian Tea and Crumpets

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FOR THE FUN OF IT...

Be King-of-the-Hill. The two of you at the top of the hill... the rest of the world down below. A day to be casual, with style. Men who know how to be magnificently casual wear Cambridge Classics by Cactus Casuals. Sacks of pure classic Ivy styling sparked by crisp, virile, elegant colors. Cactus Press’d so they Never Need Pressing. Cambridge Classics—handsome, durable, wrinkle-resistant fabric blends. Usually (surprisingly) under Ten Dollars. You can afford three at a time. Write for store nearest you.

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Go to the
More Psychosis
(Continued from page 5)

Another important difference between Caltech students and Amherst students was in the extent of their parents' educations.

<table>
<thead>
<tr>
<th></th>
<th>Caltech</th>
<th>Amherst</th>
</tr>
</thead>
<tbody>
<tr>
<td>Father's education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High school or less</td>
<td>37%</td>
<td>20%</td>
</tr>
<tr>
<td>College undergraduate</td>
<td>17%</td>
<td>10%</td>
</tr>
<tr>
<td>College degree</td>
<td>21%</td>
<td>20%</td>
</tr>
<tr>
<td>Graduate school</td>
<td>25%</td>
<td>50%</td>
</tr>
<tr>
<td>Mother's education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High school or less</td>
<td>45%</td>
<td>23%</td>
</tr>
<tr>
<td>College undergraduate</td>
<td>22%</td>
<td>21%</td>
</tr>
<tr>
<td>College degree</td>
<td>25%</td>
<td>40%</td>
</tr>
<tr>
<td>Graduate school</td>
<td>8%</td>
<td>16%</td>
</tr>
</tbody>
</table>

Thus, it seems that science students, (and scientists in general, according to the studies of Anne Roe, Paul Brandwein, and Ber­ nice Eiduson), may be characterized as follows: being an only or eldest child, precocity, great interest in reading, feelings of isolation, preference for solitary activities of an intellectual nature, distant relationship with father, difficulties with peers, shyness around girls, low athletic and high intellectual com­ petitiveness. However, this is not the formula for a scientist, but merely a listing of qualities commonly found among them. There are many deviations from this characterization in any scientific population.