

Norman Brooks Writes About Proposition 9

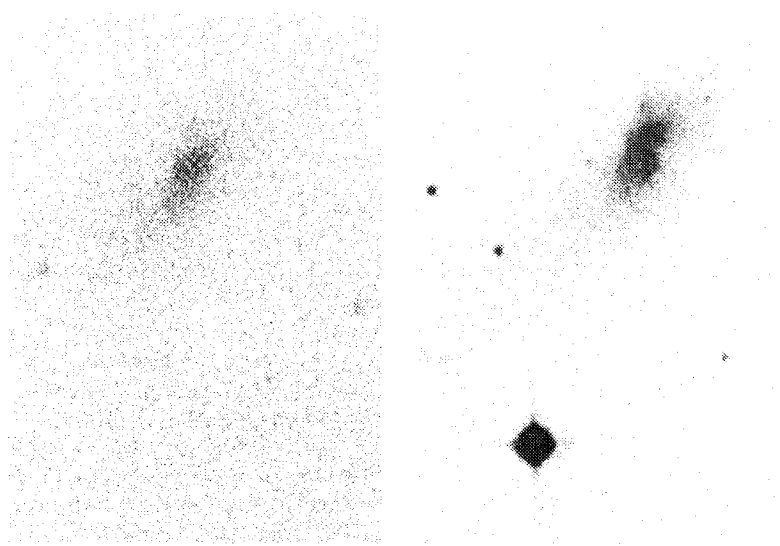
[Ed. Note — *The California Tech* is presenting a series of comments by informed people on Proposition 9, the environmental proposal which will be voted on June 6. Below is a statement by Norman Brooks, Caltech professor of environmental science and civil engineering.]

Everyone would like a better environment, but there is widespread disagreement on what and how much to do toward that end. Proposition 9 was born out of a sincere desire to do more than the government has already been doing. Unfortunately, it has a number of technical and legal defects which, if it passes, will make it difficult to administer and will not result in as much environmental improvement as implied by the proponents. On the other hand, the opponent's predictions of severe adverse effects on jobs and the economy (if it passes) are also grossly exaggerated. Numerous court actions would probably preclude any drastic actions for some time if it should pass.

In all there are about twenty substantive provisions. In general I support the sections on: composition of fuels (although needlessly strict on sulphur); monitoring devices; citizen class action suits; public records on air pollution; conflict of interest; control of sales of vehicles not meeting emission requirements; moratorium on tidelands oil; control of ultrahazardous activities; and control on persistent chlorinated hydrocarbons.

I oppose the 5-year moratorium on nuclear power plant construction because it will sti-

Continued on Page Three



SUPERNOVA — These two plates show one of the brightest extra-galactic supernovae ever discovered. The event is in NGC5253 and will be visible for years.

Frosh Opt Out: Physics Number One

by Philip Massey

The three most popular options are still Physics, Engineering and Applied Sciences, and Biology, or so the freshman option choices would indicate. This year 22% of those who made option choices prior to the deadline decided they wanted to be physicists (compared to 20% last year), while 19% went into Engin. & Ap. Sci. (compared to 17%), and 16%, the same amount as last year, went into Biology.

Chemistry and Math switched places for the positions of fourth and fifth. This year only 10% wanted to be chemists, although 13% thought they would like it in math.

Astronomy got its customary dozen majors (6%) although Applied Physics got only 5%, compared to 10% last year. There were seven Chem E. trolls, three geology majors, and two people enrolled in the Independent Studies Program. There is one person apiece in economics, English, geophysics, and history.

ASCIT of Hugg

Class Elections Approved

by Jim Hugg
ASCIT Secretary

The results of the class officer elections were approved by the BOD. Seniors elected were: President — Jan Waluk, Vice President — Dave Evans, Secretary — Charles Almquist, and Treasurer — Cliff Brown.

Junior Officers are: President — Rik Smoody, Vice President — John Steubs, Secretary — Marian Movius, and Treasurer — Rob Olshan.

Sophomore leaders include: President — John Best, Vice President — Dan Chitty, Secretary — Kristie Harmon, and Treasurer — Jim Ogg.

By-Laws Updated

The ASCIT elections ballot was carefully designed to prepare voters for the upcoming California Primary. The ballot was inordinately long, confusing, and the voter did not know what he was voting for. ASCIT thoughtfully provided the possibility of voting straight 'yes' or 'no' for the By-Laws amendments and

Bright Supernova Found By Palomar Observers

by Mark Aaronson

What will probably become the major astronomical discovery of the year was observed for the first time last week. Mr. Charles Kowal, while scanning a picture he took with the 18-inch Schmidt telescope at Palomar Mountain, found the brightest extra-galactic supernova seen since 1937. The supernova occurs in the irregular galaxy NGC5253 at 13h 37.1m, -31 degrees 24

min (Epoch 1950), for all you astronomy buffs with setting circles.

Initial estimates have placed the visual magnitude of the supernova at 8.5, making it easily visible with a pair of binoculars. Only three extra-galactic supernovae have ever been found that are brighter than this. They are 1885a in Andromeda at magnitude 5.8, 1895b in this same galaxy NGC5253 at magnitude 8.0, and 1937c in IC4182 at magnitude 8.4. In addition to these, just three supernova have been historically recorded in our own galaxy. They are the Crab Nebula SN spotted by the Chinese in 1054, Tycho's SN in 1572, and Kepler's SN in 1609.

Being so bright, the supernova should remain visible for several years before fading into oblivion. In that time more data will be taken on it than exists for any previously known such object. The standard procedure for reporting the discovery of objects like supernovae or comets is to notify the International Astronomical Union in Cambridge, Massachusetts. They in turn send out telegrams out to all the observatories and astronomy departments in the world. The whole process takes several days. However, the supernova was judged to be such an important find that cables were immediately sent to observatories in Chile, Europe, South Africa, and Australia, while several in our own country were notified by telephone.

Mr. Kowal, a member of the staff of Robinson Lab, has been conducting two supernova surveys, one on the 18-inch Schmidt and one on the 48-inch Schmidt, under the direction of Professor W. L. W. Sargent. He had spent seventeen months on the 18-inch and found nothing. This was to be his last month conducting

many corporation members took this option.

All but one of the amendments passed and will appear in next year's *little t*. One ambiguous change relating to the duties of the Treasurer did not receive the required two-thirds vote and will not be submitted for reconsideration this term.

Summer Job Interviews

The interview committee for the ASCIT summer job will be Morin, McDuff, Hugg, and Spivak, who have been most involved in planning academic reforms proposals. The job applicants are Val Catanzarite, Steve Kelem, Norris Krueger, Doug Matchett, and Bob Murphree. The committee will conduct interviews tomorrow and the job will be awarded at next Tuesday's BOD meeting.

The last ASCIT Coffee Hour for third term will be held Wednesday, 31 May, at 4 p.m. in Winnett lounge. There will be more donuts than you can eat and the coffee will be brewed by a new, improved (?) method. There will be a surprise guest — watch for further announcements.

"Unfortunate Policy"

The reaction of the BOD,
Continued on Page Two

Continued on Page Three

News Briefs

Beer & Pizza at H-back's Sunday

Soon-to-be-ex-Dean Huttenback is holding his final open house this Sunday from 3 to 5 p.m. at his home, 1661 Lombardy Road. Bring your own mug!

Jenijoy's Lament

A certain professor of English, who shall hereinafter remain anonymous, lamented to two editors of the *Tech* the other day that no disparaging remarks appeared about her in the aforesaid periodical this year. We invite readers to remedy this sad situation in the upcoming edition of the *HOT THROBBING RIVER*.

Ikon I Out

Ikon I, a new literary magazine containing poetry and work in translation by Caltech students and Caltech's poets-in-residence, Robert Kelly and Diane Wakoski, is now on sale in Baxter for five cents a copy. The edition is

limited to 75 copies, so hurry if you want one.

Kelly and Wakoski To Read Poetry

Robert Kelly and Diane Wakoski, Caltech's poets-in-residence, will read selections from their works in the Judy Library in Baxter at 4:00 p.m. next Tuesday. All Techers are invited to attend.

Chem Six Encore

Next Thursday, June 1, at 4 p.m. in 153 Noyes, Carole Hamilton of EQL will give an encore seminar for Chem 6 entitled: "A Chemist in the Real World: Analyzing Energy Problems."

To What And What?

There will be a meeting of the Caltech Science & Human Values Committee to evaluate

the past and discuss the future, Thursday, May 25th at 4 o'clock in the Y Lounge.

It's All Over Sunday

The Scripps meal exchange program will be ending this Sunday, May 28. That is the last day tickets will be valid. Please retrain all unused tickets to the Food Service secretary.

Board of Control Position Open

One at-large position on the Board of Control will be falling vacant at the end of third term. The Board will be holding interviews to fill this chair on Sunday the 28th. The interviews will begin at 7:00 p.m. and will be held in the Y offices. Anyone interested in applying should tell his house BOC rep.

Snake For Finals



Master of Student Houses "Dirty Dave" Smith promised 20 belly dancers for a TGI Finals celebration yesterday. As 500 spectators discovered, he delivered.

Editorial

More Housing Problems

Well folks, it looks like we're going to have about 240 frosh next year. That's a lot more than any student we know ever wanted, and probably more than the administration ever wanted.

What's done is done, we can't lower the number of incoming frosh now. What the Institute can do is start to plan now for this fall's inevitable overflow. Some actions are obvious. Priority in the student houses can be given to those freshmen who live furthest away, and the deadline for upperclass contract renewals can be strictly enforced.

More to the point, the Institute should seriously consider implementing ASCIT's plans for renting Institute owned houses to groups of undergraduate students. This will open up quite a bit of space for freshmen in the student houses and will also cut the expenses of upperclassmen who choose to live in the newly opened housing.

The school year is rapidly coming to a close, and it is now the time for students to make decisions on where they will live next year. It is now the time for the Institute to act if it wishes to avoid housing problems first term.

— Peter W. Beckman
Gavin D. Claypool
Jefferey J. Mallory

Down the Tubes

240 Freshmen Next Fall

by Etaoin Shroedlu

Come this fall, the Spirit of '76 will be running rampant all over the campus (but especially in the Student Houses, one assumes). The original rate of applicant acceptances of our acceptances was unusually low earlier this term, so the Admissions Office extended offers of admission to a couple of dozen Waiting List applicants. Predictably, the malevolent forces were soon found to be at work, and, with all results not absolutely final yet, membership in the Class of '76 has risen to "230 plus," according to Dr. Peter Miller. Rumors have placed the figure as high as 236, including 27 girls.

One anonymous administrator has reminded us that several

years ago the esteemed ASCIT leaders took it upon themselves to send out summer letters to the incoming frosh telling them what Tech is really like, and suggested that we should repeat that 'public service' this year.

Simay's Savvy Yards

Congratulations seem in order for the intrepid members of the H.M.S. Pinafore cast for their small miracle in pulling off a good show before two full houses in Ramo Auditorium last weekend. Plans are going forward for a repeat performance next year, perhaps another Gilbert & Sullivan or perhaps a more challenging musical show. Interested conspirators may contact Greg Simay in Ruddock, or his co-workers.

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the caltech forum

Chair for Theologian?

Editor:

At the recent conference on the impact of genetic engineering on society (May 6), it was proposed that a chair be established in the division of biology for a theologian whose function would be to interact with faculty, students, and the outside community, providing them with another viewpoint upon which to base consideration of the future consequences of on-going biological research.

In conjunction with that proposal, or separately, Caltech should consider the construction of a campus chapel. Such a structure, nonsectarian in nature, could house resident or visiting theologians; provide a location for religious services and ceremonies; serve as a small theatre for the presentation of plays and psycho-dramas; and be a place of beauty and tranquility where one could pray or meditate. A possible model for the building is the chapel at Mills College in Oakland, which is round, with seating in the round, large skylights and a central platform and altar.

— Tad Reynales
O/C Ricketts

Commandos Raid

Editors:

We would like to express our amazement at the incredible verbiage that the "Entertainment Editor" of the Tech, one Nick Smith, was able to generate as a result of the rearrangement of the letters fronting Keck Labs. Although we clearly realize that to condemn such unjustifiable verbiage is to condemn the very stuff of which *The California Tech* is made, we were not entertained at all by the article and we have several responses to Mr. Smith's column on "Racism in America."

We would indicate first that Mr. Smith contradicts himself nicely. He contends that the rearrangement of the letters was "not a major incident," and he then proceeds to draw the most wide-ranging conclusions about the qualities of racism. If, indeed, the act in question was "not a major incident," it can in no way be indicative of the existence of racism on campus or elsewhere.

Secondly, it is well-known that the "only important letter out of the whole bunch," i.e. the one written to the Tech about

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ASCIT of Hugg

Continued from Page One

upon hearing that 239 frosh have been admitted to the class of '76, was less than enthusiastic. One reliable source reported that top ASCIT officials felt it an "unfortunate policy" that such a large class be admitted in the face of declining applications.

The president's press secretary, Jim Hugg, pointed out at a recent press conference that Mr. Morin and his staff feel that the silent majority of undergraduates want a smaller frosh class — something on the order of 200 admissions, about 30 female.

Jokingly (or was it?) one official said that it would make no difference in the long run how many frosh are admitted: "That's just that many more they can flunk out," he choked as he cowered in the shadows of the expected Final offensive of the common enemy. But in a sudden surge of courage he called out: "What we need is action!" and he moved for adjournment.

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NEXT WEEK:

MATT HELM

Brooks

Commandos

Continued from Page One

mulate construction of more fossil fuel plants with more emissions of air pollutants. Nuclear plants could be made even safer, but they are probably already far safer than many other situations (like old buildings in Los Angeles, automobiles, medical X-rays, dams, or even your kitchen).

I also oppose the provisions for emergency shut-downs of only plants with air pollution variances or recent violations, because *all* major sources of air pollution (including automobiles and power plants) should be curtailed or shut down in case of air pollution emergencies.

Finally, it is ridiculous to put all this legislative detail into the state constitution, where the revision of even the smallest details would require future statewide ballot propositions. We should elect legislators who are willing to do a good job for environmental control.

I hope Proposition 9 comes just close enough to passing to prod the legislature into more action.

— Norman H. Brooks

Continued from Page Two

the incident by Kathleen Murphy, was totally fabricated by members of Ricketts House and therefore expresses no legitimate concern over non-existent racism, again, most unfortunately for Mr. Smith.

Third, we would contend that the incident itself in no way exposes the perpetrator(s) as racists, as the author claims. Using the definition that he so faithfully reproduces from the dictionary, it is blatantly obvious that the mere rearrangement of the letters in no way implies the existence of an "assumption of inherent racial superiority," a "doctrine of racial domination" or "race hatred" on anyone's part. This, again, is an unwarranted assumption on the part of the author. In addition, we fail to see how he can tell that anyone possessed either of his "two biggest reasons for racism," fear or a desire for simplification, at the time the deed was committed.

Fourth, his attempt at demagoguery by trying to relate the incident to the war in Vietnam in calling the sign "an unthinking

slur quoted from an unpopular war" fails miserably. The line "eat lead gooks" was taken specifically from an underground comic sequence referring to a cowboy-Indian confrontation in the old west. Although the same phrase may be used by some unspecified participants in the Vietnamese war, we can assure Mr. Smith that the minds of the perpetrators were totally free of such impure thoughts at the time the deed was committed.

Fifth, we resent the contention that forms "the point" of his article: that the rearrangement of the letters was "unthinking and automatic." We would have Mr. Smith know that long hours were spent attempting to create a phrase that could be constructed out of the available letters in "W. M. Keck Engineering Laboratories."

Sixth, we challenge Mr. Smith to demonstrate some proof for his claim that "the thought, the stereotype, the grouping and the xenophobia were there" and to give us some quantification and significance to the claimed dehumanization and harm.

Finally, we would like to ask Nick Smith to do us a favor. To gain some appreciation of the difficulty involved, he should sit down and try to form phrases that can be made of the letters presently in front of Keck Labs. If he discovers something that we have missed, he should let us know, and we will certainly use it next time in place of anything

that may offend him.

Thus, it should be clear to *Tech* readers that Mr. Smith should exercise a bit of journalistic responsibility and insure the accuracy and relevance of his story before launching into such an impassioned tirade as we witnessed in the last issue. Perhaps then we would see fewer of the verbose, pathetic attempts at "relevancy" that the *California Tech* has been perpetrating too often. So it goes. Eat lead, Nick.

—The Broken Cherry Commandos
Broken Cherry Alley
Ricketts House

[Ed. Note — First, Nick Smith is a part-time columnist for the *Tech*, as well as Entertainment Editor. We doubt that his intention in the Racism column was to entertain.

Second, 'Eat lead, gooks' is a slur from the Viet Nam War, and *does* indicate a rather obvious 'doctrine of racial domination' and 'race hatred' in that context. The above gentlemen seem to us to have brought this confusion on themselves.

Third, we fail to see why "W. M. Keck Engineering Laboratories" does not commend itself as a natural phrase to be made from the letters of "W. M. Keck Engineering Laboratories"; not even long seconds were required to think of this solution.

Thanks for saving us some time writing verbose, pathetic attempts at 'relevancy' this week. Peace, Commandos.]

Supernova

Continued from Page One

that particular survey. To add to the irony, the supernova was not found where it was supposed to be. Kowal had been observing forty different fields, each of which contained one or two type ScI galaxies. These galaxies are thought to have the highest rate of supernova occurrence — about one every twenty years. However, the supernova was not in an ScI, but in a faint, irregular companion galaxy to an ScI. The magnitude of the irregular is 11.1 which means the supernova is about ten times brighter than the galaxy it is in!

Not much is known about supernovae, and little interest has been shown in them until quite recently. Way back in the 30's, Dr. Fritz Zwicky proposed that supernovae were collapsing stellar objects that released huge amounts of energy, leaving behind a star with a great enrichment of neutrons. He also suggested supernovae as a possible source of cosmic rays. With the discovery of a neutron star located in the Crab Nebula remnant only a few years ago, these theories have again become popular.

Our own galaxy seems long overdue for a supernova, as one has not been spotted for over 350 years. If one did appear, it might be the brightest thing in the sky — next to the sun and moon — and even visible in the day!

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Tubes

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While I'm handing out congratulations, we mustn't forget Jerry Glashagel, who is departing the Caltech Y for points east after several years of faithful and inspired work as the Y Associate Director. The best of luck in the future, Jerry; I hope we can replace you with someone as good.

Tonic Dominant?

On a closing note for this year, I would like to recall a few of the thoughts in the final Throop Beat of two years ago. At that time, real progress seemed to be coming about in Caltech attitudes toward, and communication with, the problems of the Outside World (and of Caltech), but the overall level was far below what it could have been. Since that time, some progress has been made at Caltech, although it is not always easy to see exactly how much. It's not clear that the world is doing so well.

There are a lot of things Caltech and its people can do. We can educate, we can develop we can act for a better world. We need social scientists, we need scientists who are aware of social problems; *we need people who care about people*: the words are as true now as when written in 1970. "Why bother?" so many ask, "It's just a little thing." Big things come from little things; in fact, big things only come from little things. Think about it.

And don't let it die.
See you next year (maybe).

Page Wins Discobolus, Interhouse Ricketts Gets Varsity Trophy

by Bob Kieckhefer

This spring the almighty powers who make decisions have decided to award athletic trophies in brief ceremonies in the student houses, rather than at an athletic banquet.

With only three days left in interhouse football, Page has clinched the Interhouse Trophy, with Fleming probably second and Ruddock third. The winner of the much-disputed Discobolus Trophy was decided yesterday afternoon, as Page beat Fleming in football in the winner-take-all finale. This year Ricketts has won the Varsity Rating Trophy, with Page runner-up and Lloyd third.

Caltech's top individual sports award, the Outstanding Caltech Athlete Trophy, has been awarded jointly to Steve Sheffield, Randy Lewis, and Alan Kleinsasser. In the sports-for-fun-and-profit category, both Sheffield and Lewis have been nominated for NCAA scholarships of \$1000 to help finance their graduate work.

Tom Howell will be going to Phoenix on June 4 to receive the Gene Waldron Award. This \$300 award goes to the outstanding junior baseball player in the NAIA District III, based on scholarship, citizenship, character, playing ability, and extra-curricular activities.

Roger Goodspeed has also re-

ceived recognition from the outside world, as his opponents on the SCIAC golf circuit have awarded him the Jesse Clark Memorial Trophy, based on his golfing performances over the past four years. He was also voted the fourth spot on the All-SCIAC team.

Winter sports award winners include Tim Hight (Campbell Swimming Trophy), Max Kay (Most Improved Swimmer Trophy), Lewis and Gary Zieve (joint winners of the Latham Wrestling Trophy). Tops on the basketball courts were Jerry Feely (Vesper Basketball Trophy) and Mark and Mike Bandhauer (joint winners of the Carl Shy Freshman Basketball Trophy).

Kleinsasser, Charlie Almquist, and Gary Stormo have been jointly awarded the Goldsworthy Track Trophy. Other spring sports winners are Tom Howell and Phil Gschwend (joint winners of the Alumni Baseball Trophy) and Jim Simmons and Roger Goodspeed (co-winners of the J. Ben Earl Golf Trophy).

Competition for the two tennis trophies is still in progress. Bruce Jacobsen, Dave Dummit, Dave Beatty, and Bruce Eisenhart are still fighting for the Scott Tennis Trophy, with the final match of the tournament scheduled for Tuesday at 4:00. The Novice Tournament should be finished by the end of the week.

Kleinsasser Places Second in NAIA District III Meet

by Bob Kieckhefer

Alan Kleinsasser led Tech Runners at last week's NAIA District III track meet with a second place in the 800-meter run. He would have broken his Caltech record in the 880-yard run if he had run another 5 yards — his time of 1:50.5 for 800 meters (875 yards) was 1.7 seconds faster than the 880 record.

Other Techers who placed in the meet were Charlie Almquist (fifth in the 400-meter intermediate hurdles), Haywood Robinson (seventh in the 100-meter dash), and Gary Stormo (seventh in the long jump and eighth in the triple jump). Tech's two relay teams did not qualify for the finals, but both ran their fastest times of the year and were close to setting school records.

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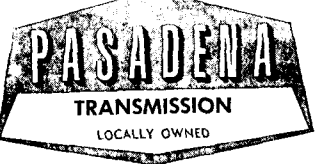
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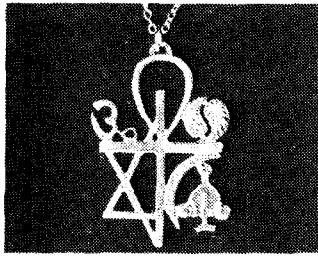
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