The Interhouse Committee recently circulated among the freshmen class a questionnaire concerning Initiation and Rotation. The purpose was to solicit the opinion of the frosh on the success of the second trial of Rotation, as well as on Initiation, which has come under attack because some think it is becoming too rough.

The three-page questionnaire was divided into two parts, Initiation and Rotation. In the first part the questions were designed to evaluate effectiveness of the present system of choosing a House and the possibility for improvement. In the second part, Initiation was evaluated from the standpoint of enjoyment and the benefits of initiation to the frosh. From the questionnaires sent to each frosh there was a total return of 156.

Among the frosh questioned, 66 thought choosing a House was of major importance while 81 thought it of reasonable importance. A large majority of the returns, 110, said they had gotten enough information to make their choice of Houses. Forty-eight thought that the impressionism they got of the Houses were distorted. Only two frosh did not like the idea of Rotation.

Alternate Rotation Methods

Thirty freshmen did not approve of the way Rotation was carried out and 84 thought they should have more of a say in their choice of Houses. Three alternate systems of Rotation were presented to be ranked according to preference. The most preferred consisted of four choices of Houses. These would be divided into two groups of two Houses each, one group preferred over the other. Thirty freshmen did not approve of the way Rotation was carried out and thought choosing a House was of major importance while 81 thought it of reasonable importance. A large majority of the returns, 110, said they had gotten enough information to make their choice of Houses. Forty-eight thought that the impressionism they got of the Houses were distorted. Only two frosh did not like the idea of Rotation.

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No Debt!

As long as anyone can remember the California Tech has been in debt. Three years ago the business manager of the Tech said that the university was no longer the utmost frugality, plus an increase in subscription rates to reclaim the loss.

Now after three years the Tech is free of debt. The credit for this goes to the past three business managers. We hope this experience is remembered and is never repeated in the future.

Does this mean the average Tech reader? First it is now financially feasible to include more pictures and illustrations. This should make the paper look more lively. Second, the length of the paper will not be entirely dependent on the amount of time spent in going over today’s news and features in a particular week the space can be created.

It feels good.

—Wolfy Oliver
Stuart Galley

Random Thoughts

"Tis the season to be jolly..."

Give a subscription to the Tech as a Christmas present.

Wishing you all a Merry Christmas.

Gnats have no biceps.

"... Falalalalalalala."

—E. Scrooge
B. Humbug

Silver Talks On Geologic Time

BY JUAN LARGO

Dr. Leon Silver of the Division of Geological Sciences at Caltech presented "Cracked Clocks and the Measure of Geological Time," as the last of the full series of lectures in Beckman Auditorium last Monday night. Through the use of slides, Silver explained how he measured precisely geologic events through radiography of crystals.

Silver began the lecture by explaining that while our solar system was formed about 4 ½ billion years ago, the radiating unstable elements were found in the earth. These radioactive and unstable elements decay exponentially in time to produce "daughter" isotopes. Hence this process can be compared to the sandclock: the "parent" isotope in the top half changing into the daughter isotope when it passes through the neck of the glass.

The five most convenient isotopes for the purpose of dating according to Silver, are carbon 14, uranium 238, thorium 232, potassium 40, and uranium 235. The relative amounts of both parent and daughter isotopes can be measured by the use of the mass spectrometer.

Problems

However, through Silver’s research, the calculated age of a small, lichen-covered fragment of Pikes Peak varied widely according to the isotope used. Silver concluded that the lichen must be a "leaf" somewhere in the parent daughter system, then say it was never "eroded" and the isotopes were escaping.

Another source of error would also be introduced if some daughter isotope was already present in the system. Hence Silver found himself in a dilemma analogous to having a crinkled sandwich which not only leaked, but was also not started with an empty bottom.

Luckily for Silver, the uranium 235-238 system helped solve this dilemma since the two isotopes are always found in the same relative concentration of about 4.9 to 1.

He continued by giving examples of the dating of granite through the analysis of the strontium-silicate crystals found in the granite. It is a known fact that the strontium isotopes will readily accept uranium atoms at the time of crystallization of the granite.

More Problems

However, the predicted age was found to vary inversely as the concentration of the parent isotope alone, which is not what should theoretically be independent of this quantity. Here was the second dilemma.

Silver reasoned that this effect would not be a "serious" one if there were some geological disturbance later on that removed that portion of the daughter isotope. He put the theory to the test by predicting the age of a second event and found that the date corresponded exactly with a known upheaval of a new group of mountains. The samples were taken in the Mojave Desert, within a few miles of each other.

The Presence was Here

Nick Zulchitch and Kermit Kubitz represented Caltech at the Fall Championship Speech Tournament held at California State College at Los Angeles on December 4 and 5. In debate Zulchitch participated in impromptu and extemp, while Kubitz competed in oratory. Zulchitch was awarded a Certificate of Excellence for his recitation in Impromptu.

Caltech’s overall debate record now stands at 36 wins and 34 defeats for a percentage of .514.

The presence of the California Institute of Technology, Incorporated.

California Tech

Published weekly during the school year by the Associated Students of the California Institute of Technology. Incorporated.

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Stuart Galley, Wally Oliver
Managing Editor
Les Fetig, Les Fishbone, Barton Gordon, Nick Zulchitch, Nick Zabitchuck, Kermit Kubitz, Stuart Galley, Wally Oliver

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TECH Debt

(Continued from page 1)

To make matters even worse, an estimated earnings and expenses report soon afterward revealed that, even operating at minimum expense and cutting all possible corners, the Tech could not hope to break even on just a single year's operation, and the deficit was growing ever larger.

Economy Kick

These facts, when reported to the ASCIT Board, caused a major uproar and a crash program was immediately begun to put the Tech back on its feet financially. The four major steps in this campaign were 1) the raising of the yearly subscription rate from $2 to $3 for students and from $4 to $5 for others; 2) the obtaining of $800 from the Institute to cover the Tech's actual costs in printing and distributing copies to all faculty members each week; 3) an expanded effort to obtain more local advertising; and 4) a comprehensive belt-tightening in every phase of Tech activity.

In addition to these steps ASCIT tightened its own belt and began a concerted effort to divert as much money as possible to all Tech activities, notably the social program and in the yearly grants ASCIT could make to various activities. All these factors have finally combined, however, to eliminate the Tech debt and put the newspaper on a sound yearly operating basis.

THE CALIFORNIA TECH
Statement of Finances
as of December 3, 1964

ASSETS
Cash on Hand
Bank Balance $227.77
Undeposited
Checks 210.75
Petty Cash 37.77

Accounts
Receivable
National Ad $129.04
Local Ad 412.26
Alpha Phi 40.00
Gamma 54.00
Student's Day 55.00

Total Assets $2235.59

LIABILITIES
Accounts Payable
Stickleby Printing Company $1047.90
Cronen Photo 60.19
Alice's Photo Supplies 35.65

Ad Commissions
National (agency) 410.00
Local (agency) 38.00
Business Mgr. (national & local) 451.25

Salaries & Expenses
Editors' Salaries 100.00
Mileage 20.00

Total Liabilities $2203.84

Present California Tech Debt $ 30.25

BY DICK TEZAK

Due to the efforts of Wes Her­shy and the E&SA, Caltech Frosh will have an unequalled oppor­tunity next term to meet a number of outstanding campus personali­ties under informal conditions and in a leisurely atmosphere. At a series of planning sessions held last week, and ad hoc com­mittee of approximately sixteen fresh­men, under the general direction of Soph Norton Greenfeld, set January 8 as the tentative date for the first of a number of weekly Frosh Dinner Forums.

Scheduled every Friday evening at 6 p.m. in Chandler, the forums are open free of charge to all frosh, as well as any interested upperclassmen. The purpose of this program, according to Green­feld, is "to acquaint freshmen with people whom they wouldn't ordinarily meet during their career at Caltech, and to give them a greater understanding of the kind of work being done here."

Three-Part Program

The evening program at each forum will be divided into three parts. During the first part of the program, a guest speaker will de­liver a short address, lasting about half an hour. This will be fol­lowed by dinner, during which frosh will have time to discuss whatever they found intriguing about the speech. After dinner, students will be free either to leave for other engagements, or to stay and visit with the speaker.

Feynman, Vogt to Appear

Dr. Richard Feynman and Rochus E. Vogt have already agreed to address the forum, and should prove to be top attractions. Others invited to speak include Dr. Linus Pauling, on the subject of "War and Peace"; Dr. James Bonner, professor of biology, on "The Origins of Life on the Earth and Other Possible Forms of Intel­ligent Beings on Other Planets"; Dr. John Weir, associate profes­sor of psychology, on "Learning to Live With Your Sexual Frustr­ations"; and Dr. Jesse Greenstein, on "The Life and Death of Stars."

In past years, the Frosh Dinner Forum has received a considerable amount of enthu­siasm. In 1962 it extended over both first and second terms, and met Wednesday evenings. Al­though rather poorly attended, last year's program featured many outstanding guest speakers, in­cluding Dr. Randolph Meisbauer.

Atired Frosh Interests.

"In contrast to past years, this year's program was planned by fresmen and for freshmen," stated Hershey. "It will hopefully give them a chance to hear about the things they are most interested in. Everyone planning to attend must sign up in advance through their House, in order to transfer their evening meal to Chandler. They will receive $1.35 credit for anything on the menu."

"Since the forum will fall on Fridays rather than during the middle of the week, there should be little conflict with studies," Greenfeld pointed out. "It will break up early enough not to interfere with other Friday even­ning events. And the forums should provide a welcome change from dining in the Student Houses."

MAGIC SKIN FOR SPACE METALS

You've seen an apple turn brown where the skin was peeled off. Oxidation is the culprit.

Oxidation also attacks and damages metal parts subject to high temperatures. GT&E scientists tackled this problem, and developed a remarkable new coat­ ing that beats the heat, metal parts in space vehicles and jet engines subject to high temperatures.

Innovations such as this are fostered by General Telephone & Elec­tronics. Full information is available from your Cam­pus Placement Director, or write to the Research & Development Laboratories, 730 Third Avenue, New York, N.Y. 10017.

Thursday, December 10, 1964 CALIFORNIA TECH Page Three...
You really know how to hurt a guy!

Boy, it's sure easy to spot your heap in the parking lot, Richy, with all those Dodge Coronets around it.

Got a second? Lend an ear. Dodge's all new, hot new Coronet 500 has got an awful lot going for it (besides your girl). For instance: buckets and backup lights, full carpeting and a console, spinners and a padded dash—all standard equipment. More? Much! Like an engine lineup that would make any car squeal for joy: 273, 318, 361, 383 or 426 cubic inches. Like a lean and hungry look. And like a low, low price tag—Coronet costs less than any full-size Dodge in years. We can't hope to make you a believer with an ad, so we'd like to extend an invitation—come and see the 1965 Coronet 500 at your nearest Dodge dealer's. Bring your girl along ••• it makes for a cheap date.

CLAUDe CHARROL\'S color masterpiece in the Hitchcock manner
Starring Jean Paul Belmondo

"A tale of adultery in the brilli\'nt sunshine of southern France"
—N.Y. World Telegram & Sun

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ONE WEEK — ENDS TUESDAY
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Papers •• • Science
Projects •• • Charts
Files •• • Signs •• • Greet-
ing Cards •• • Gift Wraps
and 1001 others.

PRESTYLE
39c

O A REPORT ON
THE SEX LIFE OF
GINGER ALE BUB

PRESTYLE COLLEGE EDITION/126 W. 23 ST. NEW YORK, N.Y. (10010)
More Rheingold

(Continued from page 2)

Ring, and plunges into the depths, leaving the stage, which had been lit with a soft blue-green glow in pitch darkness.

Valhalla Appears

In the darkness, the orchestra's music slowly changes from the motifs of the Ring and the majestice Valhalla theme. The stage is lit to reveal a ledge far above the Rhine. Across the river is the newly-built Valhalla — the castle of the Gods. Wotan and Fricka are sleeping on the ledge. Fricka awakes Wotan, and immediately lights into him for promising the newly-built Valhalla - the castle of the Gods. Wotan and Fricka Rhine. Across the river is the setting of The Ring and Reunion of Love to the majestic

motifs of The Ring and Reunion of Love to the majestic

background. Alberich, donning a brilliant red-orange cape and in a brilliant red-orange cape and with a beard of red-orange hair that stuck out in all directions. He tells the giants of the Ring which Alberich has forged and is using in subterranean Nibelheim to amass a fortune. The giants agree to gold as a substitute, and Wotan and Loge descend to Nibelheim to fetch the gold.

The descent is portrayed magica­

The descent is portrayed magica­

lly, while scenery is shifted. In

Nibelheim, we find Alberich. The setting is glowing and gloomy; there are thick clouds on the screen, and coals glow in the background. Alberich, donning the Tarnhelm, disappears, and Loge and Wotan enter and question. Alberich then returns driving a horde of Nibelung slaves, carrying sacks of gold.

He finds the intruders, and they challenge his power. To impress him, Alberich changes himself into a dragon. Alberich is thereby turned into a toad, and Wotan steps on it. When Al­berich reappears, Loge ties him up and they carry him back to the real world.

Then there is another inter­

Then there is another inter­

lude to portray the return from Nibelheim, and we are back above the Rhine on the ledge. For van­nom, Alberich is forced to yield up all of the gold, including the Ring and the Tarnhelm and the Ring. Alberich places a curse on the Ring and disappears back into the depths.

Fosse Gets It in the End

The giants return for their pay­

The giants return for their pay­

ment, and the gold is stacked up. The giants force the surrender of the Tarnhelm and demand the Ring, but Wotan refuses to yield it. The giants then prepare to take Freia for good, but Erda, the primordial mother-wisdom, appears and warns Wotan to yield the Ring. This he does and immedi­ately the giants fight for it, with Father killing Fasolt, and then leaving, dragging the booty behind him.

To clear the air of all of the previous unpleasantness, the storm-god Donner swings his hammer and calls a thunderstorm. When the storm clouds break, a rainbow bridge is revealed join­ing the ledge with Valhalla. Loge sees only destruction in this Godly pomp, and refuses to enter Val­halla, but the other Gods cross, to the Rhine Maidens' laments and the motifs of Valhalla, the sword, and the Raublich.

Well Worth the Price

The orchestra was generally good, although there were a few flubs here and there, which can't easily be avoided in a live performance. The voices of the cast were not as strong as Wagnerian opera requires, but this was only

(Continued on page 8)

“when can I interview IBM?”

Interviews January 12-13

“for what jobs?”

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If you are majoring in Engineering, the Sciences, Mathematics, or Business Administration, see IBM. The development, manufacturing, and marketing of information systems and equipment offer many opportunities to show what you can do.

See your placement office for our brochures — and an appointment with the IBM interviewers. Ask where your ideas can best be used at IBM, an Equal Opportunity Employer. There are 20 laboratories, 17 plants, and over 200 sales and service offices coast to coast.

If you cannot attend the interviews, visit the nearest IBM office. Or write, telling us about your interests, to Manager of College Relations, Dept. 882, IBM Corporate Headquarters, Armonk, New York 10504.

JOYOUSLY OPENS CHRISTMAS DAY — BEVERLY THEATRE, Beverly Hills

“Father Goose”

by TREVOR HOWARD

Sponsored by PETER STONE and FRANK TARLOFF — book by S. H. BARNETT, Directed by RALPH NELSON

Produced by ROBERT ARTHUR • A Granox Company Production • A Universal Release

PETER STONE and FRANK TARLOFF • Based on a story

THE CHRISTMAS DAY

Painted by S. H. BARNETT

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Systems Simulation, and related areas.

IBM
Let's Stop Playing Conference Football

By J. K. Evans

Although the beavers finished the football season on a positive note with a fine game against UC, the shadow of the Oxy debacle still loms. At the time, I made a suggestion which has aroused some interesting comments. Before the whole thing alighs our minds, I want to con­tinue the discussion.

I said that Caltech has no busi­ness playing conference football against opponents that win by scores of 70-0. I still believe that. I also said a few other things (which I also still believe) re­garding which more information has been made available since I started causing trouble. More on this in a minute.

Anonymous Faculty Members

It has been pointed out to me that my previous article could be used by certain people (whose names I won't mention because I don't know them but whose ini­tials are “Faculty Members”) as proof that the student body at Cal tech, and some are pretty influential. It is a constant battle for all you're worth when you are fighting win­ners playing conference football against opponents that win by scores of 70-0. I still believe that.

The Forces of Good

Fortunately, there are some good guys on our side, men who feel that a man who enjoys phys­ical activity should be given every chance to play in any sport in which he is interested. One leader of the forces of good is Dr. Corcoran, chairman of the Facul­ty Athletic Committee.

Dr. Corcoran is all for sports at Caltech. He believes that as long as there are enough men to man a team in a sport, CIT should be able to play.

But you've got to want to play. If you don't want to play, there is no point in wasting money on you, outfitting and coaching you. No sportsman, player or fan, likes to see a team lie down and die at the first sign of adversity. Outlawed.

This is why all this uproar started. It is hard to keep fighting for all you're worth when you are being slaughtered through no fault of your own, but simply because your opponent is too good. It takes real guts to get up off the ground for no other reason than to get knocked down again. But if you're going to play foot­ball, you have to do it.

Right here is where Dr. Cor­coran and I part company.

Sure, taking a beating builds character. I just don't think it is necessary to take so many beat­ings. Finally, when the score was tied and only 35 seconds re­mained, backcourt man Carl Fink scored on an easy drive to ice the game.

The Zone Defense

Technically, the zone defense of Rio Hondo seems to me the most constructive. The game against Rio Hondo was close until the frosh finally cracked Hondo's zone defense, and won 64-45.

Tech and UCR were both run­ning through the other's pressing defense, with the result that the half ended with the Beavers be­hind 36-34. The final period saw the imbalance increase until cen­ter Terry Bruns knocked the frosh out of their doldrums with a tremendous tap-in. Evans and Frazzini did fine defensive work and scored on steal after steal, while guard Jim Stanley spurred the offense with elusives, twisting and thick glasses and toothpick necks. Heaven forbid that anything I write should give any encourage­ment to those forces of evil.

We want football. Let's get that straight ones and for all.

Drop in for a game of skill and apply the laws of physics — besides it's FUN!!

FREE INSTRUCTION

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How much foam should there be?

You'll hear some people say there shouldn't be any head at all. They say phoey on the foam . . . where's the beer?

They shouldn't. Not when it's Budweiser, anyway.

Budweiser is brewed so that it will kick up a healthy head of foam. We go to a lot of trouble to let Budweiser create its own tiny bubbles, rather than pumping them in. Natural carbonation and our exclusive Beechwood Aging are two things we just won't get modern about. It takes a lot longer this way, and costs more money. (In fact, it gives our treasurer fits.) But the results—a good head of foam, real beer taste, smoothness and drinkability—are more than worth it.

So pour your Budweiser with about an inch-and-a-half collar of foam. Two inches if it's a tall glass. Watch those bubbles gather . . . then taste. (That's what we tell our treasurer to do when he starts fanning about the high cost of bubbles and beechwood. And he just smiles and swallows his arguments.)
Swimming Prelims Held

Fleming, Rudden, and Ricketts completely dominated the Interhouse swimming preliminaries held today afternoon at the Alumni Pool. However, Lloyd must still be reckoned with in the finals this afternoon, as their favorite events did not have preliminary heats.

While Fleming appears to be the eventual winner, second place could go to almost any House since only three events required the trial heats. All together there are six individual races, two relays, and a diving competition in the three day meet.

Each of the three events required three heats due to the large number of entries; the 50-yard freestyle was swum first, followed by the 50-yard backstroke, and finally the 100-yard freestyle. Qualification was based on the fastest eight times so that swimming in a fast heat did not pose a disadvantage. Strangely enough, Fleming had the fastest qualifier and Rudden came in second in each event.

Fleming

Ralph Kimbrell of Fleming had the best time in both freestyle events, clicking off a 25.5 fifty and a 58.2 hundred. Two of his teammates qualified in the latter event, Sterling in fourth place, and Kubota in eighth. Three more Flemens made the finals in the backstroke, as Stephens (33.3), Haver, and DavidWilson wound up with the first, third, and eighth best times. Altogether, Fleming qualified seven men, even though two were in eighth place.

Rudden

Rudden did better than had been expected, thanks to three swims (Continued on page 8).

FORD MOTOR COMPANY BUILDS A TOUGH ONE

IT SWIMS
Ford Motor Company's new military truck floats. All-inflated seals and internal air pressure keep the body and mechanical components dry. Its water speed is 2.5 mph.

IT CLIMBS STEPS
Climbing over a 27-inch high step or negotiating a 60% grade when negotiating a 60% grade when

IN FACT, THE ARMY'S NEW TRUCK GOES ALMOST ANYWHERE
Early in 1963, Ford Motor Company received a contract from the U.S. Army to design and develop a 5-ton cargo truck for use in tactical military operations. Before the end of that year, the first test unit had been designed and built. This new vehicle, called the XM656 cargo truck, was sent to the Aberdeen Proving Ground for 40,000 miles of testing—twice that required for military acceptance. The vehicle was tested against road conditions that might be found anywhere in the world: swamps... loose sand... hilly back-country... and highways. During the test, the truck carried a 10,000-lb. payload and, half the time, towed a 13,000-lb. load.

Outstanding characteristics of the truck's design are its flexibility, improved cross-country ability, reduced need for maintenance and a multi-fuel power plant that will run on anything from diesel oil to gasoline. This is only one of many exciting new developments at Ford Motor Company. From manufacturing to marketing, we are finding better ways to do things. Career opportunities at Ford Motor Company have never been better. Schedule an interview with our representative to find one just right for you.

THERE'S A FUTURE FOR YOU WITH FORD MOTOR COMPANY

The American Road, Dearborn, Michigan
More IH Swim
(Continued from page 7)

As the men from the Northeast reason for optimism. Brown finished six-
etents of a second behind Kim-
and behind him a long associa-
no such loyalty. I be-
that the conference exists for
and that when it ceases to serve, any
obligation to it is at an end. I do
not feel it necessary to sacrifice
CIT football players so that the
be built on a hand-to-mouth exist-
leaving, for instance. But the
Council took the typical Caltech
situation at Caltech.

Dr. Corcoran is loyal to the treatment of athletes. At the risk
quite adequate - fortunately Har-
and has behind him a long associa-
hold up its head; more precisely,
and there are conference honors
we leave the conference in foot-
can stay in the conference.

Confidence and morale cannot
but it is easier (it appears that football
I say we can still have all the

We invite you to bring your newly acquired
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suppressors, and rocket nozzles. MS or BS in Aeronautics, or
Mechanical Engineering with Jet Propulsion or Physical Metal-
urgy option.

Technical Support: BS in Mechanical Engineering for Plant
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neering.

CAMPUS INTERVIEW JANUARY 14th

Arrange your interview through your Placement Director

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ROHR WROTE THE BOOK ON ADVANCED AEROSPACE TECHNIQUES

Rousse Bubbles On
(Continued from page 6)

to be expected. But they were
quite adequate - fortunately Har-
or the overall perfor-
industry down on my head, I take it
For the overall perfor-
massive, I have no such loyalty. I be-
that the conference exists for
are in three events, Fleming would
one tomorrow night, and one Sun-
range from $3.50 to $1.50. You can
the guard who stops your car
Army, S.C. Col-
ugh that this will not harm the

We invite you to bring your newly acquired
knowledge to Rohr. Special opportunities for
Research and Development: Technical Staff Work on
to the long freestyle event, but could not come
to Kokrinc's time.

Ricketts matched Ruddock in
qualities with six, but only ac-
cumulated two thirds, two fifths,
a sixth, and an eighth. Both thirds
were in the freestyle events -

Ricketts finished with a sixth; and Lloyd
managed to get only a seventh. On the basis of the preliminaries
in three events, Fleming would
have 26 points, Ruddock 18, Rik-
etts 13, Dubose 8, and Blacker 1.

Rousse Bubbles On
(Continued from page 6)

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