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the THORN



VOLUME 10, NUMBER 15

ROSE HULMAN INSTITUTE OF TECHNOLOGY

TERRE HAUTE, IND.

FRIDAY, MAY 16, 1975

Gibson & Kato Present Paper

Dr. Darrell Gibson, professor of mechanical engineering at Rose-Hulman Institute of Technology, and Dan J. Kato, a recent Rose-Hulman graduate now working as an environmental engineer for the Arthur G. McKee Co., of Cleveland, presented a paper entitled "Methods for Predicting the Environmental Noise Effects of Coal Strip Mining Operations" during a recent national meeting in Los Angeles.

The paper was presented at the 21st Annual Meeting of the Institute of Environmental Sciences entitled "Energy and the Environment."

Gibson, who has been a member of the faculty at Rose-Hulman since 1971, has done extensive work on noise measurement and control.

"As the need for coal as a primary energy source becomes more evident serious questions inevitably arise concerning the environmental impacts of strip mining operations needed to meet these energy demands," Dr. Gibson stated in the introduction to the paper.

It is therefore necessary to develop better methods for predicting noise so that future

mining operations can continue to provide needed energy while having a minimal effect on environment.

Thus, the Gibson-Kato paper set out to explain sampling techniques for measuring noise on a wide range of operations, including draglines with buckets of 100 cubic yard and larger capacity, rippers, shovels, front end loaders, and haulage trucks of 100-ton and larger capacities.

"The problem then becomes that of using the knowledge of the noise generating characteristic of these several individual sources to predict the noise environment at a prospective mining site," the authors continued. "In short, how do you write an environmental impact statement for a new strip mine?"

For the ease of interpretation and comparisons with the Environmental Protection Agency (EPA) guidelines for acceptable noise levels, results of the study were presented in terms of the recent EPA designation Equivalent Sound Level (Leq). According to Dr. Gibson, Leq has been found to be a meaningful measure for interpreting noise pollution since it accounts for the total noise energy exposure.

ALL-SPORTS BANQUET

Ruel Fox Burns, Sr., avid Terre Haute sportsman who headed an effort to honor Rose-Hulman Institute of Technology athletes and bandsmen "in a manner fitting the Centennial occasion," was recipient of an honor of special significance during the Centennial All-Sports Banquet Friday night.

It was announced at the conclusion of the program that the annual Blanket Award—the highest athletic award given by the school—will hereafter be named the Ruel Fox Burns Blanket Award.

As in the past, the award will be presented to the outstanding athlete of each graduating class and/or specific people so designated by the athletic department for outstanding service contributions to the Engineer athletic program.

A 1915 graduate of Rose-Hulman, Burns has been a staunch supporter of Engineer athletics since boyhood.

He rarely misses an Engineer athletic contest and from the vantage point of his front row seat on the northwest corner of Phil Brown Field and a corresponding location in Shook Memorial Fieldhouse, has become a favorite among athletes.

On the occasion of the Centennial Banquet, he was presented a director's chair by the athletes in appreciation of his dedicated support of athletics.

Two other Terre Haute civic leaders were honored by the athletes and athletic department. Maynard C. Wheeler was presented a crystal elephant for his work as chairman of a committee of the Board of Managers which along with students, faculty and administration developed and promoted Rose-Hulman's new recreation complex. Construction is to begin next week.

Tony Hulman, who coached freshman football at Rose-

Hulman the first year after his return from Yale University where he was an All-America selection, received a football signed by members of the 1974 College Athletic Conference champions. Mr. Hulman was absent from the presentations.

Dr. John Logan, who has been much more instrumental in the upgrading of the Engineer athletic program than the outsider would realize, received the first Ruel Fox Burns Blanket Award for continued support of the program and leading Rose-Hulman into the College Athletic Conference with academic heavyweights such as Centre, Sewanee, Southwestern at Memphis and Principia.

A portrait of Dr. Logan also was presented to the school as part of the recognition of the Rose-Hulman president.

Banquet chairman Burns made special presentations and recognition of persons who sponsored the Centennial Banquet, including Fred Crapo, Joe Engelhard, Paul Grafe, Shelton Hannig, Marshall Hubbard, Tom Merritt and General Telephone, Henry Offutt and Henry Smith. Plaques were presented to the sponsors.

Team Physician Dr. Clyde Jett, who has earned approximately 15 jackets for "quarters participated," was awarded a letter jacket with the appropriate full sleeve of

(Completed On Page 2)

Schedule Changes

How have you liked 7:50 a.m. classes and the battle to make the left turn onto the campus from Highway 40 each morning?

There's good news. The 7:50 start will cease to be after next week. Instead, classes will begin at 8:05 a.m., run 50 minutes in length with a five-minute break between classes in the fall. Ninth hour will end at 4:15 p.m.

AN INTERVIEW WITH MR. SISSON

by Choi Wong

Today is the last day of school at Rose for the seniors in the Class of '75. Many will go on to their chosen profession and graduate while others are still waiting for a job offer. The present job market has tightened its belt due to the economic situation. To find out about the present employment situation for Rose engineers, this reporter interviewed Bill Sisson, director of placement.

Q. What's the overall employment situation for the average Rose engineer this year?

A. The employment situation is tight. The number of job offers made by companies is down. With fewer job offers, some companies are more selective in their recruitment of engineers. Most companies have decreased the number of engineers that they want to hire; however, a few have increased their job offers to partially make up for the slack. In particular the petroleum industries are hiring more engineers while the automotive industry is experiencing a slump.

Q. What about the salary range for Rose Grads this year?

A. The salary range for an

engineer has definitely increased. The average salary for a Rose grad this year is \$11,400 per year. This compares very favorably with the national average and other small colleges.

Q. Did all of the job seeking seniors this year receive a job offer?

A. No, a few are still waiting for a job offer, but the offers are still coming in. With the present economic situation, various companies feel the effect of recession at different times.

Q. What is being done by the placement office for those seniors without jobs?

A. We continue to write to companies about jobs. Whenever a company informs me of a job opening, I send data sheets of the seniors without jobs and let the company contact the senior they are interested in. A senior without a definite job after graduation should keep in touch with the placement office in case something should happen during the summer. Jobs still don't come automatically, the student must still go out and sell himself.

You've Been Ripped Off

By Mike Meck

During the last few years those incidents of thefts and vandalism to property at Rose have grown to outlandish proportions. The costs of these are passed directly on to the students through raises in the tuition and fees, not to mention the costs which must be borne by those who have had their calculators stolen while they were taking a shower or by having their door kicked in while they were gone.

Some of the thefts have occurred when off campus students have decided to "borrow" furniture out of the dorms without telling anyone that they were taking it. This is almost as bad as stealing because as far as anyone can tell the furniture has been ripped off and must be replaced. As a consequence, those who borrowed the furniture either get the lazy's or else they decide that they like the stuff too much to part with it. Again the students pay for it.

As of yet there is no specific plan of action for stopping these thefts or what to do with the culprits if they are caught. There is, however, a drastic need for such a plan and the administration is being forced into setting up some type of system where the interests of the students and the university can be protected.

This may result in locking up the building after 5:00 or even setting up a security system with guards to protect the equipment. Either way this means a greater cost to the students and less freedom with the very equipment that is needed to finish projects outside of class.

So far this year we the students have had to replace; 2 Kodak industrial display panes taken from the union building, a TV and tables taken from the upper class dorms, 3 broken glass doors in Crapo hall at approx. \$80 (that's eighty dollars) each; stolen equipment from the EE and Physics labs, extensive damage to doors and light fixtures, not to mention the equipment taken from the library earlier this year.

This is just a sampling of the costs which we the students must pay. In my opinion there is only one thing to be done with those who are caught stealing our property. They should be made to hang by their yarbils from the water tower (literally). The next time you see someone ripping off something, remember that they are ripping off you. If you don't want to be called a "stoolie" maybe you would rather be called STUPID instead.

Rose Man Wins Scholarship

Two students, one attending Rose-Hulman Institute of Technology and another from Indiana State University, have been awarded Two-Year U.S. Army ROTC Scholarships, according to the Department of the Army.

Chosen to receive the scholarship was Robert A. Shaw of Princeton, Ind., a sophomore here at Rose-Hulman Institute of

Technology.

The scholarships are awarded on a competitive basis to highly qualified students enrolled at colleges which offer Army ROTC.

The scholarships pay for all school tuition, textbooks and educational fees along with a tax-free subsistence allowance of \$100 a month for the 10 month school year.

Pickett Presents Paper

Dr. William B. Pickett, assistant professor of history at Rose-Hulman Institute of Technology, presented a paper on a portion of his doctoral thesis on former Indiana Senator Homer Capehart at the Great Lakes Regional History Conference in Grand Rapids, Mich., Friday, May 2, 1975.

The paper is entitled "The Capehart Cornfield Conference and the Midwestern Conservative Response to the New Deal."

According to Dr. Pickett, this little remembered episode in American political history occurred in August, 1938, at a time of growing disillusionment caused by apparent failure of New Deal economic policies and Franklin D. Roosevelt's attempt to change the composition of the Supreme Court.

Homer E. Capehart, wealthy vice president and general sales manager of the Rudolph Wurlitzer Company, saw an opportunity to use his money and sales promotional skills to rejuvenate the Indiana G.O.P. and, hopefully, the national party as well.

The resulting "cornfield conference" on Capehart's southern Indiana farm gave a new vitality to the Hoosier Republican party, marked the beginning of a conservative resurgence nationally and made photographer manufacturer Capehart a name in Republican politics.

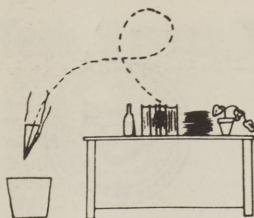
The conference was sponsored by the Grand Valley State Colleges of Michigan.

Rifle Team Bags National Championship

The Rose-Hulman ROTC Rifle Team has won national rifle honors by winning the first place trophy in the Society of American Military Engineers rifle match. Rifle match competition is conducted by schools throughout the United States. The rifle competition requirements are that the rifle team members be enrolled in the ROTC program and be majoring in the field of engineering.

The Rose-Hulman ROTC team consisted of Thomas Heimbarger of Indianapolis, Gary Werne of Ferdinand, IN, David Cooper of LaGrange, IN, Karl Fox of Fort Wayne, IN, and Bruce Huntington of Holton, IN. They fired a score of 1339 out of a possible 1500 points. The second place was taken by the University of Oklahoma with a 1288 and Michigan Technological University placed third with a 1286 score.

The Rose-Hulman Military Science Department will retain the Society of American Military Engineers traveling trophy until at least next competition next year when the Rose team hopes to defend its national title. Last year's trophy winner was Virginia Military Institute.



Off The Editor's Desk

Well at long last we finally wrap it up for another year. Now that it is all over with I think I will go and quietly have a nervous breakdown.

My thanks go out to the following people who won't be with us next year: Tom Nick who has been our business manager for two years and has helped to keep the financial ship afloat and graduates next weekend. Thanks Tom. Gary Russell who has faithfully shown up on time and helped with the layout of the paper when no one else would help. Gary got smart and transferred out of Rose. Thanks and good luck in the future Gary.

Thanks also to Paul Herbig and Wally Skylark who have been the only columnists who have written anything on a regular basis. Both of these fine journalists will be graduating shortly and their loss to the Thorn will be greatly felt. Good luck to both of you!

All ready we have some new faces around the Thorn office and if you have the time I would recommend that you get to know these people because you are going to hear a lot more about and from them. Choi Wong will be serving in some as yet undetermined capacity and Dewey Rissler is our new business manager.

If you haven't filed an application for the Thorn Editor or Associate Editor positions yet, you had better get to it if you want a job because 5:00 p.m. today is the deadline. Look at the notices in the main hall for more information.

Next year part of the Thorn's objectives will be to take the lead in improving the quality of the

ENROLL NOW FOR SEPTEMBER. LEWIS UNIVERSITY'S COLLEGE OF LAW

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PHAREWELL

Well, kiddies, this is it. The Holy Kissoff—what four years at Rose gets you. In just one week, commencement—and I commence my long career of unemployment. (Graduating without a job is becoming increasingly popular among America's "in the know" college students—in addition to the obvious benefits of not working eight hours a day (improved blood circulation, better sleep, etc.). Unemployed students are finding many other unique advantages to their position.

Under Ford's new "super soaker" tax program, it is possible to end up considerably worse (ie. gas tax, oil tax, air tax, etc.) by having a large income than by having no income at all.

Furthermore, if you're still legally a student (which you can claim until either you get a job or you turn 25), you can take advantage of all those spiffy student fares to Europe. . . .

. . . And remember, 59% of all Americans are overweight. How did they get that way? Simple—they had well-paying jobs that enabled them to eat often as many as three meals a day!!!

But enough of this levity—what we're really here for today is the (zum badda bum da ta da!!!) **Seniors Only Trivia Quiz!** Yes, here's your chance to show how much you remember (and how much you'd like to forget) from your four years at Tony's Hole.

- 1) What was Fred (Boo-Boo) Snyder's first name?
- 2) How many replays did Chris ("Scunge") Osburn, Rose's number one pinball wizard, rack up in one night at the Union?
- 3) What was in the notebook that Ray Wallace always kept within reach? (Some of your Juniors might remember this one.)
- 4) What was Tau Omega Delta?
- 5) What color was Marc Skeel's hair in the freshman class picture book? What color was it during his freshman year? In fact, what ever happened to good old Marc?
- 6) What was Bob Taft's cume when he dropped out, the only Rose student to pass out autographs to his fans?

The answers follow this column, or they're hidden on the next page, or something—I don't know what the editor does with them.

As the stomach turns—final trivia to cap four trivial years: There was a live mouse in the main dining room of the Hulman Union Monday morning . . . reports have it that the mouse escaped from the freezer. . . . Professor Emulator in return for the RSTS-11 source listings . . . enough nuclear fallout has landed in Alaska that the Eskimo artifacts being dug up before the Alaska pipeline comes through are radio-carbon dating 2000 years in the future.

Richard Petke's term paper is still on the PDP's desk—the machine is said to be down for an indeterminate amount of time. . . Wally Skylark asked "Just who is the original Rose Hulman space cadet?"

. . . And on my way down here to write this column, one junior said to another in the hall, "Just think! We're both almost seniors!" Brother, you just don't know what you're getting into. Goodbye and good luck!

—The Purple Phantom

ANSWERS TO TRIVIA QUIZ:

- 1) William. Interestingly enough, Fred's middle name wasn't Fred either; he took the name Fred out of admiration for Frederick the Great.
- 2) Twenty-five; the machine wouldn't count any higher.
- 3) Structural formulas and synthesis techniques for all chemical warfare weapons since Zyklon.
- 4) An informal fraternity, standing for Top 'O Deming.
- 5) Picture: Brown; At Rose: Blonde. He ended up going to a college in Michigan, studying to be a caterer.
- 6) 0.4

Rose-Hulman social life. It is possible that the Thorn will host a concert or dance with some possible new twists to attract some 'chicks'. More info to come later.

Good luck on your finals!

All Sports

(Concluded from Page 1)

chevrons, as was Mrs. John Logan, the Engineers' first lady, who has been popular among students for announcing days off for homecoming victories, etc.

The evening included a reception and candlelight dinner, followed by dancing to Rose-Hulman's dance band.

Art Nelson, a senior from Norman, Ind., and president of the band, was master of ceremonies.

THE WAY IT IS

By Roger Demon

The Shape of the World (not round but oblong)

What's going on around here? Read the papers and try to figure out some of the damn things that have been happening in the past few months. Read the paper and find out that the construction workers are walking on the capital demanding building programs. Half are unemployed. The other half? Well, here comes the funny part—the other half is striking for higher wages. Now what the hell is going on here?

Or about their march. They demand the passage of bills to build millions of units of housing—probably at prices no one can afford with the present interest rates. They demand new federal construction. They demand 100 power plants to be started on immediately. Now I'm a labor man myself, but did anyone stop to think about the economic, political, pollution, energy, etc. problems caused. No, it is action with a capital A and hell with the consequences. Is that right?

Or what about the fall of Vietnam and Cambodia? Is it the darkest moment? Or is it the dawn? The main error was policy—or lack of it. For the past ten years there was no policy on Vietnam. What should they have done? Like one man said ten years ago (a shame no one listened to him), either go in and get the job done (which meant fighting on Asian guerrilla terms instead of fighters, bombers, helicopters and tanks—little good they really did) or else get out and stay away. One or the other. And instead what policy was taken—the middle mediocre road. Policy. America better start preparing some right now.

Let us examine another item. South Africa. Apartheid. I don't believe in their policy but reaction is awesome. Mexico called two South American tennis players as "illegal entrants to the country" and literally threw them out. Where's the limit? Israel. What about the UN's move or attempt to declare the PLF the "legitimate" government of Palestine and give them proper credentials? Does this mean that the Black Panthers, if they got the support of the UN, could get themselves declared the "legitimate" government of the U.S.? What the hell is going on? Portugal. The dictatorship abuses the assembly and the country appears headed for another Czechoslovakia. Do American Liberals yell about what is happening there like they yelled about Vietnam? No. But where's the difference? Thailand, Philippines, Greece, Turkey: they reassessed the need of U.S. bases in those places and in some cases called for their evacuation. It seems they no longer have faith in us. Should they?

Of course, there is the U.S. Problems abound. I wonder, though. January 1 these events were not foreseen or at the least not much of a possibility. I wonder. By New Year's what else is going to happen—that is—if we're still around to see it.

A LAST FAREWELL

By Roger Demon

Because this is the last issue of the Thorn and this is the last article I shall write for them, I have decided to do two things that I promised not to do when I started this last year: to write two columns and to write on Rose and Rose policy. But being this is the last article and I shall be leaving (to write for the New York Times, no doubt), I'll break them both.

Rose. Good Ole Rose. The Rose Tradition. Well there's another term that is well known—the Rose Shaft—twist it any way you want and it only goes in deeper. I've had four years of experience and I've known seven classes of people and through it all there has been one common denominator—the Rose Shaft. Talk to anyone and you'll find it. I was amazed—well not amazed but surprised to find out that Frosh are aware of it before Christmas.

Remember the first time you visited Rose? When you were a naive high schooler. Probably with your parents. Snowjob took you around and told you about the great school and the dozens of offers every graduate gets. St. Mary's is just down the road and ISU has 7,000 girls waiting for your presence, all of them just five minutes away. Wow, you say. This is great. I'll take it. And you took the bill of goods. Then you get here. You veterans out there, you remember. At first it was party time, then came school. Then came the realization that "just" down the road meant over the river and through the woods. ISU's 7,000 women disappeared on weekends. You got a glimpse of the bitter truth.

Your second awareness of the truth came after several months on the campus. Nothing. Absolutely nothing going on. A case of boredom the world never hath saw. Fraternities lived things up a little, but even they have their limits. Classes and school appear to you in a vision of ugliness. Christmas the dawning comes. It is not as great as you once believed it to be. Fifty will decide this ain't for me and leave. But the majority will stay. Some will admit they were given the shaft but they might as well finish. Some say they're going to stick it out but all say they're going to say. The Rose Shaft.

Another thing. Ever hear of the "Rose Way?" One hundred years this was the way it was done. Tradition. That's the way it should be done now. Conservatism isn't the word for it, primitive and ignorant is. Co-ed, advanced ideas, etc. Nothing wrong with them. But because that wasn't the way it was fifteen years ago, why should it be now? Good thinking. Just like an ostrich in the sand. You can't hide everything.

Look at the curriculum. Bio-engineering, a great hope for the future, was phased out. Aeronautical was toned down. Both should be reinstated and expanded. Look at Computer Science. Computer engineering would be a better word. Equipment for them is limited. Expansion is possible. Technical assessment. Phase it in! Utilize what is available elsewhere. This is coming but slow. Speed it up for God's Sakes. Let's get it going.

Jobs. Placement. We were told we would get a dozen plant trips and almost as many offers. Well, what happened? There is plenty of people who have no jobs. What happened, people? Is the name of Rose

Continued on Page 7

For Your Entertainment from 'Cycle Guide January 1974'

The Night of The Dimp

Or how to drive away your old dog and pick up a new one. by John Hurley

If you said something to me like, 'Your motorcycle stinks, I couldn't argue with you very much. At least not after what happened the other night. It was crazy.'

This friend of my sister came from out of town to our house to visit. She's what you call a dimp. I guess. You know what a dimp is. It's the other girl in the pair commonly referred to as 'the pretty one and the dimp.' Pretty ones always go around with dimps, because it makes them look even prettier. And no female can go to the bathroom alone, so the dimp and the pretty one help each other that way too. My sister's a neat chick, and this girl is a dimp.

Now the thing about dimps is that they're usually not a total loss. They have good points sometimes. Sometimes they have great personalities. Sometimes they're smart. Sometimes they're rich. This particular dimp happened to have a terrific body. Really put together. But her face was a clock-stopper, the kind that guys who are really prepared carry a grocery bag in their back pocket for. Imagine Raquel Welch's body with Keenan Wynn's head on it and you've just about got the picture.

We picked her up at the airport and by the time we got home it was almost our normal dinner-time. My mother can't stand that; she thinks it makes her look bad to have dinner off schedule. She acts like she should have been basting a pot roast in the back of the car on the way home. So in order not to spoil her record of always being on time, we decided to call out for Chinese food, and I was elected to go pick it up.

I thought my bike would be faster so I decided to take it. That way the dimp couldn't go along like she wanted to. Dimps like to go out for Chinese food. So I got out the old Beezer and she watched at the kitchen door as I kicked it over. And over. An old Beezer is a lot like a

dimp—they both need a lot of attention.

"Does it go fast?" she asked, shouting so she could be heard over the lumpy idle.

'Very fast,' I said.

'Oh, I love motorbikes,' she said. 'Maybe you could take me for a ride or something.'

That was what I was trying to avoid, but on second thought, the idea didn't seem half bad. If she were behind me, I wouldn't have to look at her. But I could still feel her.

'Maybe,' I said. 'Later on tonight.'

'Oh goody,' she giggled.

I gunned the Beezer and sped away. About thirty feet away. I forgot to turn on the gas, and the Beezer stalled dead. Twelve kicks later I was on my way again. I looked over my shoulder and saw the dimp standing at the driveway waving goodbye. Then I looked ahead again, just in time to ride through this guy's front lawn. He was waving at me too. With his garden hose.

The dimp saw it all, which was quite embarrassing. Even if she did have a weird face, she was a girl, and I could see that I hadn't impressed her much. But maybe I had earned her sympathy.

I got the chop suey and egg foo yung, but then I discovered that I had left the bungee cords in the garage and had no way to hold the packages on the bike. So I carried the bag of Chinese food on the tank in front of me. By balancing on my toes on the pegs, my thighs were higher than the tank, and I could cradle the food. Except with every gear change my left leg dropped, and the bag kept listing to port. Chop suey juice leaked out of a carton and made the bag soggy. I think it was shift to fourth that broke the bottom of the soggy bag. By the time I got home, goop had run down the tank, on the seat, on my Levi's and finally onto the fins and pipes of the bike. I stopped a block from home and pushed the rest of the way so no one would hear me.

I got the tank and seat wiped

off and into the kitchen through the back door before anyone saw me. My loony aunt, who has come to expect anything from her 'strange nephew,' as she puts it, was making the tea when I came in. She looked at my Levi's and her eyes said it all.

I got changed and we all ate dinner. It was pretty good, except for the dry chop suey and the milk I dribbled down my chin (I had been looking over the top of my glass at the dimp). It ran all the way down my leg into my shoe. But it wasn't really very much: you couldn't hear the squish unless you knew what to listen for, and nobody was listening for it.

It was time for our ride. Me and the dimp. It was cool, except for one problem: what would I do if one of the guys saw her? I wasn't one of those guys who is always prepared: the only grocery bag in the house was a soggy one.

Then it dawned on me. As we walked out to the bike, I said to her, 'It's a state law that passengers have to wear helmets.' And I handed her my Bell Star. With the tinted visor. I showed her how to put it on, resisting the temptation to put the window in the back. It was a real improvement.

I started the bike.

'Whew!' said the dimp. 'What's that smell?'

Have you ever smelled baked-on chop suey juice coming from hot exhaust pipes? Probably not; you'd know if you had. I looked down at this tough brown coat all over the fins and pipes, like Teflon or something. Maybe I had discovered a revolutionary product: New! Heat Resistant! CSJ (Chop Suey Juice) Engine Paint!

'You'll never notice the smell once we get going,' I said, almost gagging.

Seventeen kicks later we zipped away from the curb. Well, that's not quite true, since you don't exactly zip anywhere from a standstill in third gear. But superior torque prevailed, and

away we lugged

For the most part, we had a very nice ride that night. Sure, I could feel the milk curdling in my shoe, and if we slowed up, the CSJ smell was there, but it was still nice. Those curves were very soft and warm, just as I'd thought. I even saw a couple of the guys as we went past the pizza parlor. They looked at me and the foxy chick on the back and were impressed. I could tell by their tongues. Thank God for the Bell Star.

Then a rotten thing happened to spoil whatever magic the moment might have held. We were leaned over in a nice left-hand sweeper then I saw these funny round things in an orderly row on the road. Since we were on a country road with ranches nearby, I quickly realized what I was up against. But not quickly enough. I tried weaving in and out between them, but like a magnet, the front wheel of the Beezer was drawn toward one. A big one. Splursh! Shwleep! There we were, kind of sliding along, first sideways one way, then sideways the other, arms and legs flying, flinging the stuff all around and all over the Beezer and everywhere. We didn't go down, but we did have to stop to wipe off the headlight. When the wind stopped, we could smell the chop suey juice as it mingled in the night air with the ripe aroma from the latest misfortune. I decided enough was enough.

'Let's head back, okay?' I said.

'Gluarg,' seemed to be the closest translation of the dimp's reply, filtered through the spattered faceplate of the Bell. I took it to mean "you're bloody right, let's head back." So we made for home by the most direct route, never slowing enough to let the wind catch up with us.

As we turned the corner of my block, I saw Hanny waiting on the porch. Hanny is short for Hannibal, our faithful and mostly-bewildered family mutt. He has terrific hearing. Mom says he hears the bike long

before she does, and scratches on the screen door to be let out to greet me. Usually he'll wait until I'm close and then run down to the curb and waggle a greeting.

Hanny started down from the porch like always. The cool night breeze fanned across us as we pulled up to the curb. Hanny was downwind. He stopped dead at the bottom of the porch steps. He has a terrific sense of smell, too.

'Hi, boy,' I said.

With a kind of nervous caution he shimmied toward us. Then the wind carried our aroma to him again. He stopped, and I swear that dog wrinkled his nose! He jumped back, all four legs in the air at the same time, and then he high-tailed it for the backyard. I don't think Hanny will ever go near the Beezer again.

Well, that's what happened the other night. As I said, it was crazy. It would have been a total bummer, except later that night (after a bath), the dimp proved to be not so dimpy after all, if you know what I mean.

News Item: One of our ME's recently won a national design competition. He was awarded a gold medal to commemorate his achievement. During our interview he disclosed that he intends to make this honor an event his family will always be able to recall. He is going to have his medal bronzed.

'The people upstairs are very annoying,' complained the student to his landlord.

'Last night they stomped and banged on the floor until midnight.'

'Did they wake you?' asked the landlord.

'No, luckily I was still up playing my tuba.'

Salesman: 'Sir, I have here something that's guaranteed to make you the life of the party, allow you to win friends and influence people, help you forge ahead in the business world, and generally make life a more pleasant and invigorating experience.'

EE: 'Okay, I'll take a fifth.'

Genesis as Translated by Maxwell

AND GOD SAID:

"LET:

$$\nabla \times \vec{E} = -\frac{\partial \vec{B}}{\partial t}$$

$$\nabla \times \vec{H} = \vec{J} + \frac{\partial \vec{D}}{\partial t}$$

$$\nabla \cdot \vec{D} = \rho$$

$$\nabla \cdot \vec{B} = 0$$

AND THERE WAS LIGHT!

A Genuine Thorn Cut Out Poster

A Summer Job In Europe

A Summer job in Europe is available to any college student willing to work. Paying jobs are available now through the summer, and applications may be submitted by mail. Jobs in Europe are filled by the Student Overseas Service (SOS) on a first come, first served basis and interested students should allow 2 to 4 weeks for processing.

SOS arranges jobs for students in resorts, hotels, restaurants, offices and factories throughout Europe. Temporary positions include general helper, buffet server, receptionist, kitchen helper, waiter, waitress, bakery worker, groundskeeper, and clerk-typist. Wages range from \$250 and up plus room and board is arranged and provided free with most jobs. Volunteer work in summer camps and on the community projects in France, Germany and other countries is also available.

The only requirements are willingness to work, an open mind and adaptability. Applications may be obtained by writing to Summer Jobs, SOS, 22 Ave. de la Liberté, Luxembourg, Europe. Requests for application and latest available jobs must include name, address, and \$1 or the equivalent in stamps or international postal coupons, to cover the cost of overseas postage.

Student Jobs Cards for Europe, valid for one year, are also issued to students who do not have definite plans for this coming summer but who may want to work in Europe later in the year or next summer.

Advantages of a temporary job in Europe include an opportunity to experience Europe on an earn-as-you-go basis and having overseas job experience to list on any future job application.

Beaming Down on Star Trek

(Wisconsin Engineer Vol. 79 #6)

When Gene Roddenberry first dreamed in the early 60's of placing a science fiction adventure thriller on television—one with real meaning and importance—he knew it would not be easy. Cynics abounded, calling his concepts 'risky,' 'too different' and 'impossible to produce.'

What followed was a new science fiction series called STAR TREK—a show which so captured its audience that in 1968 when the network considered cancellation, it set off a series of marches and student protests in both Burbank and New York. Simultaneously, over 115,000 letters were received by the network from angry fans forcing an unprecedented on-the-air announcement that STAR TREK would continue.

The series, now in syndication around the country, is in the midst of a revival that is growing to such proportions that STAR TREK fans held a national convention this year. On many college campuses it is watched daily with almost a religious devotion by fans who call themselves 'Trekkies.'

So what is it about STAR TREK that so magnetizes the masses? What is it that makes you fans keep coming back for more? How is it that STAR TREK succeeded when LOST IN SPACE became just that?

Three things seem to set STAR TREK apart from all the other science fiction adventures produced for television: subject matter; believability, and scientific accuracy.

Instead of insulting it's audience as so many television programs do, STAR TREK prods

and challenges its viewers to ponder philosophical questions about politics, economics, sex, human relations, and war, both as they relate to our present culture and as to how man's thinking may or may not change 150 or 200 years from now.

The key to STAR TREK's believability, according to Roddenberry, its creator and producer, is that it purposely avoids way out fantasy and refuses to dwell on intellectual scientific theorems and instead concentrates on problem and peril met by very human and recognizable continuing characters.

"Tales of six-headed monsters are rare among science fiction classics," says Roddenberry. "The best and most popular feature highly dramatic variations on recognizable things and themes. But even within these limits, there are myriad stories, both bizarre and shocking, plus a few monsters legitimus."

According to Roddenberry's story format, STAR TREK uses a 'similar worlds concept' in their depiction of aliens. They are presented in humanistic terms physically, adding different skin coloration, hair, noses and ears simply for dramatic effect.

Roddenberry felt that the main concentration in dealing with the concept of alien life should not be on physical differences but on the incredible differences that would probably exist in social organizations, customs, habits, religion, politics, morals, intelligence, family life, and emotions. Concentration on these

topics removes the series from the realm of a mere shocker.

The creator also went to great lengths to be certain his series would maintain a high level of scientific accuracy not only in the design of the ship but in the vessel's power source and in its presentation of gadgetry and equipment.

One of the goals of STAR TREK was to break down the myth that science fiction and fantasy are the same thing. "Science fiction is based on fact or well thought out speculation," said Roddenberry. "It is extension of current knowledge or of a theory worked out in enough detail to seem at least 'possible.' "With fantasy," he says, "you can have a guy blink and then disappear and never really explain how or why he could do that."

To achieve maximum accuracy, Roddenberry called on a number of specialists. Personnel from space technology labs and the Air Force Space Systems division acted as advisors. Harvey P. Lynn, a physicist at Rand Corporation acted as a script consultant for over a year and a half on his own time, simply because of his fascination in STAR TREK concepts.

The design for the space ship, the USS Enterprise, came about from researching a collection of drawings gathered from various personnel at North American, Douglas, and NASA, plus reviewing the previous research done for the Flash Gordon and Buck Rogers series.

All apparatus, equipment and gadgetry used in the show were likewise the result of known or tested concepts of design or at least theorized models of the

future.

For example, the source of power for this futuristic vessel, the Enterprise, is matter-anti-matter engines. This concept was not decided on until after the show was already on the air. As the matter was being discussed, a rather vague term, 'space warp' was used to explain the vehicle's thrust.

As Stephen Whitfield explains in *The Making of Star Trek* "Discussion with scientific consultants had already ruled out atomic power as inefficient and inadequate for achieving hyper-light speeds. Ion drive was ruled out for the same reason. Finally, the conclusion was reached that the only power source conceivably large enough to do the job would be energy released by the sheer annihilation of matter and anti-matter. This has already been achieved on a small scale by several research laboratories."

One of the most popular pieces of apparatus among fans is the transporter mechanism. This device will temporarily convert matter into energy, beam that energy to a predetermined point, and then reconvert the matter to its original pattern and structure. No receiver is needed. With a range of about 16,000 miles, it can transport up to six people at one time. As incredible as it seems for viewers to see people dissolve in one spot and reappear in another location, the idea of a transporter is a concept that has long been discussed by the scientific community.

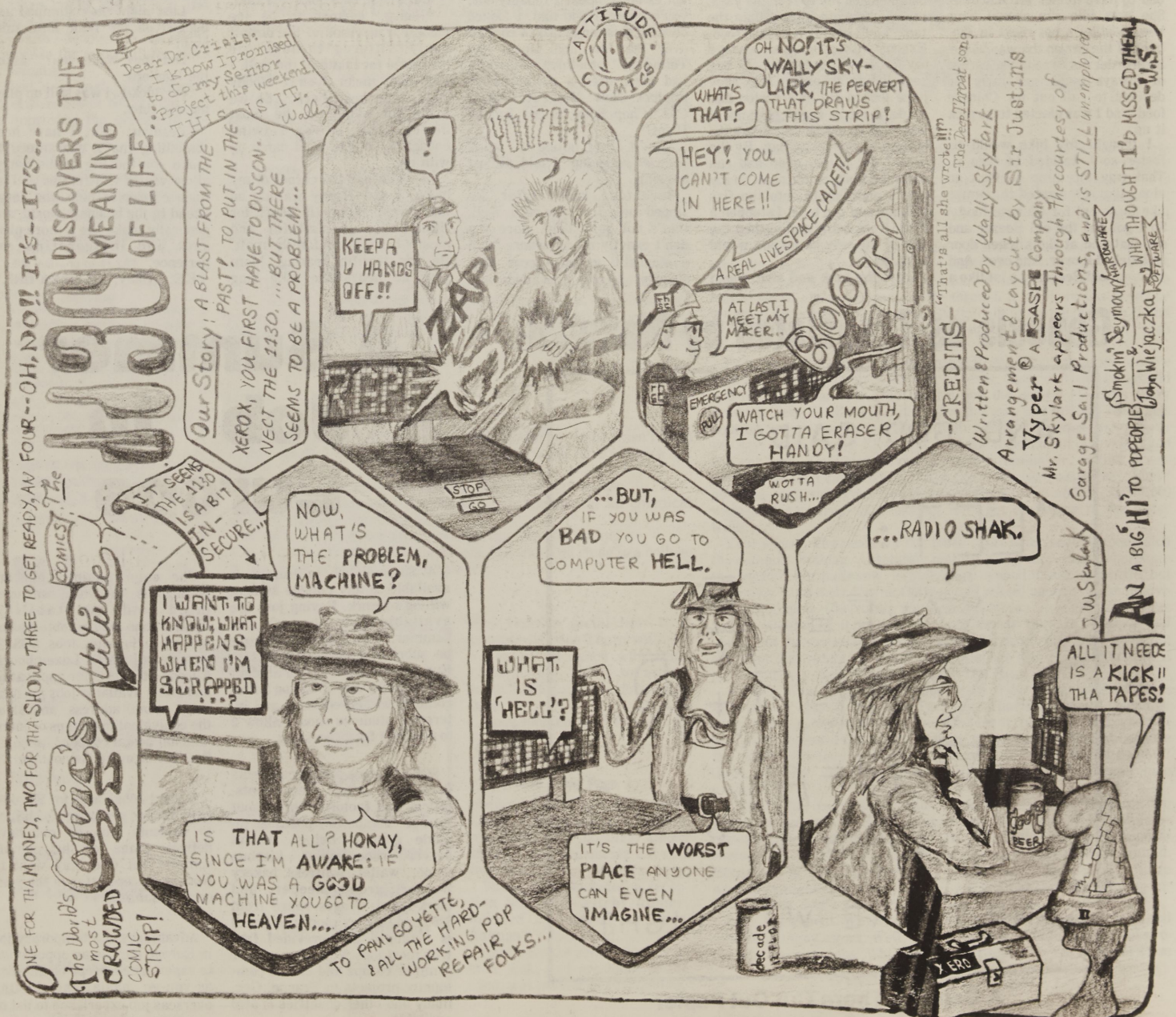
Another piece of equipment used aboard the Enterprise

which has definite implications for the future is found in the vessel's sick bay. Script designers, considering our present methods of taking temperatures and blood pressure as primitive, designed a machine which rests above the patient in bed. The mechanism will run a continuous scan of the physiological body functions by means of sensor devices records all pertinent information on a screen monitor.

Roddenberry, surprised, explained later, 'we weren't on the air long when we were contacted by no less than three separate research organizations, all of whom demanded to know how we had obtained the information on the same devices they had under development.'

Although STAR TREK ran for only two and a half seasons on television, it appears that it was simply a drama ahead of its time. Revivals will undoubtedly occur from time to time as we approach in reality many of the concepts that the show presented only theoretically. It has already proven itself to be a piece of science fiction with real meaning and importance. In 1967, the National Air Museum a branch of the Smithsonian Institution placed the episode, 'Where No Man Has Gone Before' in its archives.

We hope we are helping to form the concept that present space attempts are not wasted money — or that future interplanetary space travel is not just 'wild fiction'. It will be as important to mankind tomorrow as the discovery of America was in its day.



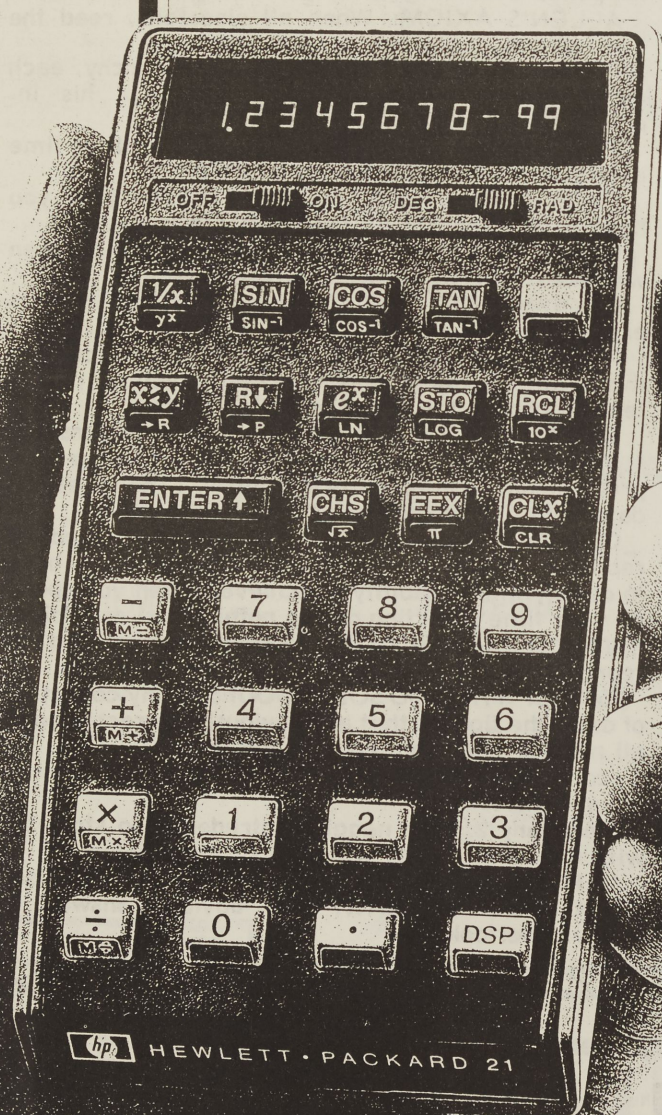
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ROSE-HULMAN BOOKSTORE

B.S. in Engineering?

Since exam time is rapidly approaching again, and since I have often in the past spent many an arduous night peering through my textbooks gleening the pre-eminently important laws from them in order to save my grade, I felt it was time for someone to compound a list of these laws. I herewith set forth such an offering. This list is not by any means meant to be complete but is only a compilation of the laws that

seemed to me to be undeniably useful in almost any field of human activity. Because of their widespread use many of these laws were discovered and published by more than one scientist. In assigning names to these laws, I attempted to be consistent with the name in greatest use in everyday discussion and in previous publications. Herewith, distilled and condensed for your edification is the wisdom of the giants of science.

THYME'S LAW: Everything goes wrong at once.
GOVERNMENT'S LAW: There is an exception to all laws.

HARVARD LAW: Under the most carefully controlled conditions of pressure, temperature, volume, humidity, and other variables, the organism will do as it damn well pleases.

ALBRECHT'S LAW: Social innovations tend to the level of minimum tolerable well-being.

BOWIE'S THEOREM: If an experiment works you must be using the wrong equipment.

CARLSON'S CONSOLATION: Nothing is ever a complete failure; it can always serve as a bad example.

CORRESPONDENCE COROLARY: An experiment may be considered a success if no more than half your data must be discarded to obtain correspondence with your theory.

CROPP'S LAW: The amount of work done varies inversely with the amount of time spent in the office.

CLARKE'S THIRD LAW: Any sufficiently advanced technology is indistinguishable from magic.

CUTLER WEBSTER'S LAW: There are two sides to every argument, unless a person is personally involved, in which case there is only one.

GUMPERSON'S LAW: The probability of a given event occurring is inversely proportional to its desirability.

MENCKEN'S LAW: There is always an easy answer to every human problem — neat, plausible, and wrong.

RYAN'S LAW: Make three correct guesses consecutively and you will establish yourself as an expert.

MURPHY'S LAWS: (1) If anything can go wrong, it will.

(2) Nothing is as easy as it looks.

(3) Everything takes longer than you think it will.

JENKINSON'S LAW: It won't work.

DOW'S LAW: In a hierarchical organization, the higher the level, the greater the confusion.

ACTION'S LAW: Power tends to corrupt; absolute power corrupts absolutely.

HUBBARD'S LAW: Don't take life too seriously; you won't get out of it alive.

SATTINGLER'S LAW: It works better if you plug it in.

THE LAW OF THE PERVERSITY OF NATURE: You cannot determine beforehand which side of the bread to butter.

PUDDER'S LAW: Anything that begins well will end badly. (note: The converse of Pudder's law is not true.)

WILCOX'S LAW: A pat on the back is only a few centimeters from a kick in the pants.

FINAGLE'S LAWS: (1) Once a job is fouled up, anything done to improve it makes it worse.

(2) No matter what results are expected someone is always willing to fake it.

(3) No matter what the result someone is always eager to misinterpret it.

(4) No matter what occurs, someone believes it happened according to his pet theory.

ALLEN'S AXIOM: When all else fails, read the instructions.

PETER'S PRINCIPAL: In every hierarchy, each employee tends to rise to the level of his incompetence.

PARKINSON'S LAW: Work expands to fill the time available for its completion.

PARKINSON'S LAW, MODIFIED: The junk you have will expand to fill the available space.

WEILER'S LAW: Nothing is impossible for the man who doesn't have to do the work.

WOODWARD'S LAW: A theory is better than its explanation.

RUDIN'S LAW: In a crises that forces a choice to be made among alternative courses of action, people tend to choose the worst possible course.

UNNAMED LAW: If it happens, it must be possible.

MAY'S LAW: The quality of correlation is inversely proportional to the density of control. (The fewer the data points, the smoother the curves.)

COHN'S LAW: The more time you spend in reporting on what you are doing the less time you have to do anything. Stability is achieved when you spend all your time reporting on the nothing you are doing.

LAW OF CONTINUITY: Experiments should be reproducible. They should all fail in the same way.

LAW OF THE TOO SOLID GOOF: In any collection of data, the figures that are obviously correct beyond all need of checking, contain the errors.

corollary 1: No one you ask for help will see the error either.

corollary 2: Any nagging intruder, who stops by with unsought advice will spot it immediately.

LARKINSON'S LAW: All laws are basically false.

WHITEHEAD'S LAW: The obvious answer is always overlooked.

Another Genuine Thorn Cut Out Poster From 'UMR Engineer'

Joint Archaeological Expedition Plans Fourth Summer Dig

Tell el-Hesi. A mound of many surprises and historically important to scientific archaeology. It was here that ceramic dating, one of the most important tools of interpretation available to the archaeologist, was founded.

Among the more recent surprises was the discovery of a massive mud-brick wall and tower in which pottery was sealed that indicates a late tenth or early ninth century B.C. date for its construction.

This site was host to an as yet unknown number of walled cities from early Bronze times until its final destruction late in the

hellenistic Era.

Applications from student volunteers are being accepted by the Joint Archaeological Expedition to Tell el-Hesi for its fourth summer "dig." The Expedition is under the direction of the American Schools of Oriental Research and is sponsored by a consortium of 24 institutions of higher learning including Harvard Semitic Museum, Oberlin, Smith and Holy Cross Colleges in the United States.

Tell el-Hesi in Israel, is a 37 acre site an hour's drive south and west of Jerusalem on the edge of the Negev Desert. The

fortified acropolis on its northern quarter was occupied more or less continuously from 5000 B.C. to about 200 A.D. Twenty-four levels of occupation have been identified, one of which was protected by an Iron Age wall 57 feet thick.

The Hesi professional staff numbers 40 specialists representing many major American faculties. Anthropologists, geologists, ceramicists, osteologists, paleo-ethno-botanists, architects, artists and photographers supplement the work of the 18 professional archaeologists.

The volunteer staff consists of approximately eighty students (graduate and undergraduate) and professionals. Volunteers are involved in all phases of the archaeological program and with the educational program of field excavation, lectures and seminars. The six-week program begins with a week of orientation at the major institutions of Jerusalem and then moves to a tent city in the desert. Weekend tours visit every major archaeological site in Israel. Academic credit of six hours is available through consortium schools on the graduate, un-

dergraduate and graduate-professional level.

Expedition members will leave the United States on a charter flight to Tell Aviv in late June. Costs for room, board, tuition and weekend field trips are \$600. Air fare is \$620.

For further information and details write or call Professor Harry Thomas Frank, The Hesi Volunteer Program, Oberlin College, Oberlin, Ohio 44070.

A new professor in the chemical engineering department attempted to discover at what level of education his first class stood.

Picking a student at random, he asked, "What do you know about nitrates?"

"Well, they're cheaper than day rates," replied the student.

DECENT CHICK OF THE WEEK



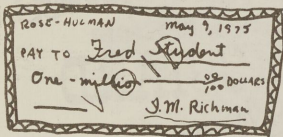
Victoria Russel
Announcing '75-'76
Counselors

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Phil Mott
Warren Mickens
Gary P. Martin
Mike Norris

FRESHMAN DORMS:

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Gary W. Martin
Jim Boyd
Mark Salzbrenner
Dennis Leichty
Gil Hodge
Bill Bayles
Roger Inbody



DECENT CHECK
OF THE WEEK



DECENT CHICKASAW
OF THE WEEK



DECENT KICK
OF THE WEEK



DECENT CHALK
OF THE WEEK



DECENT PICK
OF THE WEEK

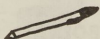


RECENT REEK
OF THE HICK

DECENT TICK
OF THE WEEK



DECENT WICK
OF THE CHEEK



DECENT BIC
OF THE WEEK

5-16-1974 Harry D. Russell



CHICK DESCENT
OF THE WEEK

Shipmates Sought
For Expedition

"YANKEE TRADER" 180 foot, 1100 ton steel hulled vessel, formerly well known for Coast Guard Research, is now being refitted and air-conditioned in Miami by Captain Mike Burke of Windjammer Cruises' fame. The yacht has traveled to the seven seas, and will once again embark on a pleasure seeking adventure 'round the world' beginning November, 1975, for a 10 month cruise following the trade winds in southern waters.

Shipmates who will share in the adventure and expenses are presently sought for the voyage which will feature the barefooted informality traditional to Wind-

jammer Cruises. She will visit famous tropical island ports of call such as Galapagos, Easter Island, Tahiti, Bali, Madagascar, and Martinique.

The group will explore, skin dive, sightsee, take photographs, or just loaf in luxury yachting style known only to be a few millionaires — and they'll do it at the unheard rate of \$25.00 a day. For details and applications for the 'round the world' voyage, as well as the shorter 6 day Caribbean cruises, contact Captain Mike Burke, Windjammer Cruises, P. O. Box 120, Miami Beach, Florida 33139.

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'round the world

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Guadacanal.
Tulagi, Bali.
New Guinea, Java.
Madagascar.
Zanzibar, Beira.
Capetown.
St. Helena.
Ascension Island.
Rio, Devil's Island.
Paramariba.
Martinique.
Antigua, Exuma.
Nassau.



Please send me
your free 'round
the world
expedition
booklet.

Form with fields for Name, Address, City, State, Zip, and a checkbox for "P. O. Box 120, Dept. RW, Miami Beach, Florida 33139".

Farewell (Cont. from P. 2)

falling? Where are those jobs we were promised. Dozens of people would like to know.

Well, that's about it. Not quite everything, but I'd like to leave a little for next year's successor to bitch about. Besides, I can't tell all of Rose's secrets, if they all leaked out perhaps no one would enter and that would mean disaster. As I see it, it is a giant bureaucracy. One bunch tries to influence another bunch because although they know everything going on, if the recruits would be told the facts, they may not decide to come. If that occurred, then rates would go up. So it is in the best interests of the recruiters to keep quiet and avoid the sore spots and guarantee the other bunch gets in. A continuing cycle. Just another item that occurs.

Well, Rose, good bye. You've been good to me these last four years. And although I don't have a job, I'll think kind thoughts of you. The breakage deposit—well, I hope to go out and get drunk with it. And the first alumni notice—well, I'm going to hold a candlelight dinner with it—as the candle. Oh yes, it has been an experience. You can say that again.

It has been an experience.

New Schedule Of Class Periods

The following schedule of class periods will be in effect beginning with the fall term (1975-76).

Period	Starts	Ends
1	8:05 A.M.	8:55 A.M.
2	9:00 A.M.	9:50 A.M.
3	9:55 A.M.	10:45 A.M.
4	10:50 A.M.	11:40 A.M.
5	11:45 A.M.	12:35 A.M.
6	12:40 P.M.	1:30 P.M.
7	1:35 P.M.	2:25 P.M.
8	2:30 P.M.	3:20 P.M.
9	3:25 P.M.	4:15 P.M.

This revised schedule has been approved by the Faculty for implementation during the 1975-76 year on an experimental basis. The change was made to alleviate the early morning traffic congestion problem.

Engineer Sportsmen Grab All The Gusto

Rose-Hulman's Fightin' Engineers added team championships in track and field, baseball and golf to titles earned last fall in football and cross country to sweep to the College Athletic Conference all-sports championship for 1974-75.

The Engineers picked up the "Big Bell" trophy during the annual CAC Spring Carnival hosted by the University of the South at Sewanee, Tenn., last weekend.

Athletic Director John Mutchner summed up the 1974-75 year in sports as the best in his 12 years at Rose-Hulman.

"We had some close calls," notes Mutchner, "but overall things went well." The five handsome team trophies and the traveling railroad bell signifying the overall champion on display in the Main Hall earlier in the week were proof of the pudding.

Mutchner's baseball team extended its season record to 12-6 with a clean sweep of the opposition at Sewanee. The Engineers defeated Sewanee 4-3, Principia 21-1, Southwestern at Memphis 5-2, and Centre 5-2.

In each case, pitchers Gary Ellis, Steve Losey, Gary Lee and Gary Schultz went the distance for the Engineers—a factor which proved to be the difference as unbeaten Engineers and Sewanee squared off for the title.

Big bats for the Engineers were Bob Hildebrand, Curt Vapor, Dick Neal, and John Schroeder.

The Engineer track team, which easily disposed of CAC opponents in the indoor championships here in February, were not sure of victory until late in the meet at Sewanee. Team scores were Rose-Hulman, 84; Principia, 72½; Centre, 45½; Sewanee, 43; and Southwestern at Memphis, 25.

Mike Burkhardt was the only double winner, capturing both hurdle events. Dennis Dierckman won the mile run in a 4:26.3 time, while Frank Mackell won the javelin with a heave of 182 feet seven inches, and Alan Cassiday came home first the half mile with a 1:57.2 clocking.

But perhaps the finest individual performance of the meet was the record-shattering shot put of Senior Dave Linderman. Dave broke the conference mark with a putt of 48 feet 10½ inches.

Paced by Jim Hegarty, that erstwhile Thorn sports reporter, the golf team put together a two-



Jim Hegarty, high point golfer at Sewanee and 'Thorn' staffer models the latest in golfing attire during the meet here against Anderson.

day total of 626 to win the links championship. The Engineers won by a slim three strokes over

runnerup Centre College. Medalist Hegarty turned in rounds of 74 and 78.

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