

Rose-Hulman Institute of Technology

## Rose-Hulman Scholar

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The Rose Thorn Archive

Student Newspaper

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### Volume 27 - Issue 8 - Friday, October 26, 1991

Rose Thorn Staff

*Rose-Hulman Institute of Technology*, [library@rose-hulman.edu](mailto:library@rose-hulman.edu)

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**SOCCKER**  
at DePauw University  
Greencastle, Ind.  
Saturday, Oct. 26  
1:00 p.m.

# the Rose Thorn

**FOOTBALL**  
Wabash College  
Phil Brown Field  
Saturday, Oct. 26  
1:30 p.m.

## News Briefs

### Technology's impact on personal freedom topic of public forum

The second in a series of local programs to increase understanding about the United States Constitution will focus on technology and its impact on individual liberties included in the Bill of Rights Oct. 29 at Rose-Hulman Institute of Technology.

The public forum at 7:30 p.m. in the GM Room of Moench Hall will feature a presentation titled, "Computers and the Right to Personal Privacy," by Deborah Johnson, author and educator.

Johnson is associate dean of the School of Humanities and Social Sciences, and professor of philosophy at Rensselaer Polytechnic Institute in Troy, N.Y. She is the author of "Computer Ethics," "Ethical Issues in Engineering," and is the co-author of "Ethical Issues in the Use of Computers."

Following her presentation, a panel of local and area officials will respond to Johnson's comments and discuss further how technology has influenced freedoms outlined in the fourth amendment of the Bill of Rights. The amendment protects persons against unreasonable search and seizure,

and illegal use of private communication.

Members of the panel include Beth Ahlemeyer, attorney, Wilkinson, Goeller, Modessitt, Willkinson and Drummy; Pat Ensor, coordinator of electronic information systems, Indiana State University; Robert Schumacher, editor, The Terre Haute Tribune-Star; and Sylvia Turczyn, executive board, Bloomington Civil Liberties Union.

The public forum is funded by a grant from the Commission on the Bicentennial of the U.S. Constitution. The local series is sponsored by Rose-Hulman, St. Mary-of-the-Woods College, and Indiana State University.

Further information about the Rose-Hulman program can be obtained by contacting John Robson, librarian, Rose-Hulman Logan Library, 877-8200.

The final program in the series will be Nov. 13 at ISU. Sarah Evans Baker, judge of the Federal District Court in Indianapolis, will discuss freedom of expression and the Bill of Rights at 7:30 p.m. in the Hulman Memorial Student Union.



The Solar Phantom, Rose-Hulman's solar car, has been completed and is awaiting its next competition. photo by: Dale Long

## Solar Phantom to compete in Sunrayce '93

by Joseph Batt  
Staff Reporter

The Rose-Hulman Solar Phantom solar-powered car team is planning to participate in Sunrayce '93. The race is being sponsored by the Department of Energy, while the Environmental Protection Agency, National Renewable Energy Laboratory, the Society of Automotive Engineers, and the General Motors Corporation are also contributing to the race.

The race will cover a route from Dallas, Texas to Minneapolis, Minnesota. New rules have been created to make the race more competitive. Only over-the-counter lead-acid batteries and

terrestrial grade solar cells will be allowed in the cars.

These rules will cause the engineering of the car to become more critical, and lessen the fundraising burden currently experienced by the teams. Chris Kaus, project director for the Solar Phantom team, said that a competitive solar car should be able to be buildable for under \$100,000. With the new rules in effect, some teams will have to re-engineer their entries to satisfy the restrictions.

From information the Solar Phantom team has received from the Department of Energy, about 36 colleges will participate in Sun-

rayce '93.

Unlike in the Sunrayce '90, when GM sent the winning teams to Australia for the World Solar Challenge, there is no information that states that the Department of Energy will do likewise. The Sunrayce '90 has defined a new class of solar car, however, and that will be a class in the World Solar Challenge.

The new class is more suited to the Solar Phantom's budget. The car will increase in weight approximately 100 pounds due to the new lead-acid batteries. The old batteries were lighter silver-zinc, but more expensive.

## SMWC presents 'Taming of the Shrew'

Saint Mary-of-the-Woods proudly presents The National Shakespeare Company's production of the "Taming of the Shrew," one of Shakespeare's rowdiest comedies and most visually comic plays.

Tickets are on sale in the SMWC Public Relations Office for the production on Wednesday, October 23, 1991 at 7:30 p.m. in the SMWC Cecilian Auditorium.

The play is a sixteenth century knock-down, drag-out battle of the sexes. This matching of wits and wills between a sharp-tongued vixen and her stubborn suitor has long been an object of delight for au-

diences who are looking for enjoyable entertainment and whole-hearted fun.

The National Shakespeare Company, founded in 1963, has performed in 48 states and two foreign countries, giving an average of 120 performances a year.

Tickets for "Taming of the Shrew" are \$8.00 for adults and \$5.50 for senior citizens, students with valid IDs, and children. Tickets may be reserved by telephone or purchased in advance.

For more information or to make reservations, call the SMWC Public Relations Office at (812) 535-5212.

## Blood drive becomes a tradition among Rose-Hulman student volunteers

By Cassandra Jungblut

Fads among college students come and go, but some turn into traditions such as the turnout from Rose-Hulman students to donate blood.

On Oct. 15, 235 pints of blood were donated during the first of three blood drives at Rose-Hulman during the current academic year. The effort is sponsored in conjunction with the local office of the Central Indiana Regional Blood Center.

Groups winning awards for having the highest percentage of participation were Lambda Chi Alpha fraternity and Scharpenberg Hall.

Prizes included a 46-inch television set that will travel to the winning residence hall's lobby for that quarter. The fraternity with the highest percentage received a plaque.

Last year, Rose-Hulman dona-

ted five percent of the blood in the Wabash Valley region by contributing 722 pints. Three hundred of the college's 1300 students helped make the large donation possible.

Donna Gustafson, Rose-Hulman director of student activities, says one of the reasons for the student volunteerism is that blood drive organizers emphasize the personal side of being a donor.

"We tell about a student who has been in an accident and how vital blood is to saving the victim. In another case, type AB blood is used exclusively for babies. So every time a student donates that type of blood, he'll be thinking about helping infants," she said.

Mike Brown, Rose-Hulman senior and co-chairman of the fall blood drive, said that it is important for student volunteers to get involved before the blood drive even starts.

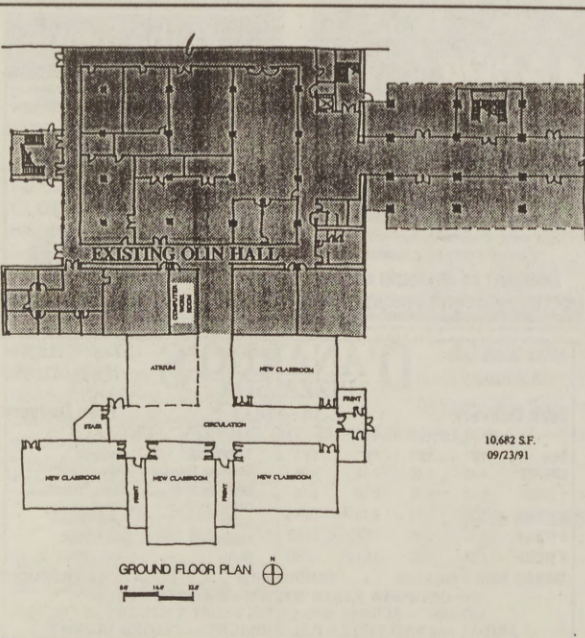
Resident assistants, sophomore advisors, and Inter-Fraternity Council members work to promote the blood drive on campus.

"Most people who didn't donate blood either didn't want to or weren't aware of the drive," Brown said in explaining the role of campus promotion.

"We want students to know their one pint of blood can help four or five people," he added.

"It's tremendous how the students respond to the blood drive," said Mike Sullivan of the local Blood Center office. "The students who help are professionals. They are sincerely and thoroughly dedicated to their work. They take it seriously."

Pete Gustafson, associate dean of students, says, "Our students want to share their benefits (with) others who are less fortunate and in need. The blood drive is an ongoing tradition at Rose-Hulman."



10,682 SF.  
09/23/91

These drawings, prepared by the architecture firm Howard, Needles, Tammen, Bergendoff, detail the proposed addition to Olin Hall. For reference, the circle drive is to the right of the addition in the drawing. The second floor features an atrium which will be open to the student commons below. A proposal being considered is that the eight new classrooms will be "classrooms of the future," featuring advanced technology such as workstations for the students and additional presentation devices for instructors.

Opinion

# The nonscience of evolution

The most recent issue of *Omn* magazine has an article entitled "The Chasm of Creationism," written by Keith Ferrell. I find Ferrell's article appalling and erroneous.

He writes, "The great gift of science is its methodology, the relentless questioning of the universe in search of its workings. Science asks why and how and couches those questions in a rigor that insists the answers be provable. Evolution, one of those answers, has been proved repeatedly. Creationism's followers accept their dogma without question;...Evolution has been proved so thoroughly that its validity can no longer be questioned in scientific terms. Creationism, by its nature, can never be proved."

All is good and well unless you remember the scientific method.

## The Fish-Eye Lens

by Gregory Ford

It calls for three steps: hypothesis, experiment, and conclusion. The hypothesis is a proposed way of explaining a set of observations. Then an experiment is designed to test the hypothesis. This experiment must be repeatable, with reproducible results. Only after repeated testing with consistent results does a hypothesis earn the title of theory.

My question is, what experi-

ment has been performed that conclusively verifies evolution? I would like to think that if one has been performed, I would have heard about it.

Unfortunately the nature of evolution is that it is as impossible to test evolution as it is to test creationism.

First, a caveat: I am talking about macro-evolution, not micro-evolution or adaptation. Adaptation can be tested to some degree.

The problem with evolution is this: we have one, count it, one, observation of evolution and no experiments. Science is based upon repeated occurrences of events, not singular events. This places evolution on shaky ground.

Whether or not that is the case, the lack of experiments makes evolution a hypothesis, not a theory. To say otherwise is to de-

mean the scientific process.

I find that Ferrell has made the same mistake he accuses the creationists of, accepting dogma without question.

Some may ask about all the evidence for evolution. All the evidence amounts to observations. Evolution explains these observations fairly well. But remember, observation led Aristotle to declare the four elements of fire, air, water, and earth. Ptolemy's geocentric universe had complex equations that could accurately predict the locations of the planets. Neither of these hypotheses is given much credit today, but they explain two series of observations.

I am not necessarily defending creationists. There are some extremists as Ferrell describes. But there are also those who are very interested in the scientific proc-

ess, and declare that evolution is only a hypothesis, and a possibly faulty one.

Ferrell also writes, "Nazi Germany used pseudoscientific arguments to justify abominations." His stance on evolution is a pseudoscientific argument and is an intellectual abomination. I hope those at Rose-Hulman try to avoid similar mistakes.

**THE ROSE THORN OPEN FORUM:**  
Letters in response to the opinions page are welcomed and may be sent to Box 170.

# A Thousand Points O' Pizza

"Let's see," he said, while standing at the cash register. "I think I'll have four soft tacos at fifty-nine cents apiece... Wait. I didn't know you could get six tacos for \$3.54. Sweet! That's a good deal. Give me a six-pack of tacos, then."

Luckily for the young man, I stepped in. "Think again," I cautioned. "Just because it looks like a better deal, don't assume that with increased volume comes a reduction in unit price. Actually, (I punched in the numbers on my calculator watch) the price of six tacos bought individually is the same as a six-pack. So if you really don't feel like eating six tacos, you're losing money instead of saving."

"Thanks, mister," he expressed his gratitude. "You just saved me some cash."

Then he took advantage of the "Buy one drink at double price and get one free" offer.

A scientist in *Scientific American* worried that not only is the populous becoming more illiterate, but also more innumerate. He showed how innumeracy makes the public very vulnerable to the warped mathematics used in marketing and advertising. He is trying to point out some of the gimmicks to make consumers aware, but even more importantly, he is calling for greater education in basic math. He feels that even a rudimentary knowledge of mathematical concepts on the part of the consumer would

## I Don't Even Want To Think About It!

by Kevin Neilson

make these techniques ineffective.

Those who know math use these tricks to their advantage. One of the easiest ways to exploit innumeracy is with graphs. The most common way of doing this is leaving out the zero point on the y-axis. A small section of the y-axis is shown, for example, to increase apparent slope and make a growth rate appear at first glance to be larger than it really is. Likewise, the entire y-axis can be shown in order to downplay, say, a reduction in sales over time. Pie graphs can be rotated about an axis parallel with the page to exploit sines and make a section of the pie look larger.

The solution is, as stated, more math education. Of course the problem is that most don't want more math education. Most people have a notion that even such pursuits as algebra are wholly theoretical and useless in a practical sense.

That's not true, but it's hard to convince people of the fact. The evidence of innumeracy is alarm-

ing, however. I watched as a young man ordered delivery pizza. "Why don't you get a large?" his friend asked. "The large is twenty inches, and the small is 10 inches," he responded. "So with the large pizza you get twice as much, but it costs three times as much. Forget that. I'm not gonna let em rip me like that."

The failure to realize that a circle's area is proportional to the square of its radius dates back to the days of the innumerate Romans. The engineers of antiquity charged users of aqueducts proportional to the diameter of their feed pipe. So the problem isn't new; nevertheless, it's a bigger problem in a technological society such as ours.

That's why I'm joining the cause to eliminate innumeracy where it stands in every corner of America. I'm serving as a point of light that shines in the darkest reaches of our uneducated country, following Bush's agenda to make this land's students leaders of the world in math and science. That's why I've started the study of Pizza Math.

Pizza Math has fundamentals which are easily learned by the student, yet it can be expanded to encompass practically every field of mathematics. It also meets an important prerequisite — it is entirely practical and suitable for everyday use. Thus it demonstrates the need for math and generates an interest which will be followed up in other fields. (Incidentally, I've written a textbook on the subject and it is being offered as a class next semester at a school near here.)

I had a chance to explain it the other day. I noticed a kid holding several pizza coupons, trying to decide which was the better deal. Before he picked one at random, I offered to help.

"What seems to be the problem?" I asked.

"Well," he faltered, "I can get two ten inch pizzas for \$10 or one twenty inch pizza for \$12. So I should get the two pizzas for \$10, because I get the same pizza for less money. But then again, I like crust, so I should get the bigger pizza because it's bigger so it has more crust."

"You've never heard of Pizza Math, have you?" I asked.

His quizzical look answered my question.

"Pizza math will help you find the better deal, saving you money in the process. The basis for Pizza Math is finding the area of the pizza. This is done simply by squaring the radius of the pizza in inches. The result will be the area in standard pizza units, a unit which I've taken the liberty of naming after myself. The NPU, Neilsonic Pizza Unit, is the basis for all further equations. One NPU is pi square inches of pizza. So if you want to find the area of the large pizza in question, you find that it's 100 NPU, while the sum of the area of the smaller pizzas is 50 NPU. So the larger pizza yields twice as much eating material as the two smaller. Got it so far?"

The glazed look in his eyes told me that he didn't. "I never had this kind of stuff in school."

"Where'd you go to school?" I asked.

"I graduated from a high school

in Indiana."

"I'm sorry," I answered and proceeded. "So if you still don't know the better deal, you must find the price per NPU, or PPNPU, of each pizza and compare. So you find that the PPNPU of the larger pizza is twelve cents, while the PPNPU of the two smaller pizzas is twenty cents. So the larger pizza is a much better deal. Crust-to-pizza ratio is a little advanced for you now, but that's in chapter 5 of my textbook if you care to read it. Chapter 7 deals with 3D NPUs, in which the thickness of the crust is taken into account. Chapter 10 deals with solving simultaneous systems of toppings. The next chapter is entitled *Sector-Cut Pizza vs. Cartesian-Cut: How to divide equally among your friends*. There are appendices dealing with methods of making the Domino's person arrive late, and advanced topics in non-Euclidian pizzometry. If you read this textbook and take the associated class, not only will you have a practical knowledge that will pay for itself, but you will have developed a lifelong love for mathematics that will never be quenched."

He stared for a moment, then: "You're like really a nerd."

It appears that my first attempt at mathematicizing America was less than successful. But with my efforts, Bush's agenda and all of us working together, I know we can get it done.

### THORN STAFF

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The Rose Thorn welcomes letters or comments from readers. Articles, ideas, and announcements are also desired. In view of length constraints, we reserve the right to limit the lengths of comments and use excerpts from letters. All submitted material must be signed. All material should be submitted the Monday prior to publication.

### Announcing 8th Annual Rose-Hulman SKI TRIP

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## Sports

### Despite downs, soccer team is up

by Tommy Baker  
Sports Reporter

After a strong beginning, the Rose-Hulman soccer team is in the midst of a five game losing slump. The Engineers have lost their last five games giving them a record of 4-7. Coach Greg Ruark attributes the turn-around to a possible slack-off after winning four games straight. In their last five matches the Engineers have given up 17 goals and only scored 2.

As bad as it may seem, the team has not really played badly. With the exception of MacMurray and Taylor, all the losses have been by two goals or less. The Engineers have lost to both the 5th and 8th ranked national NCAA Division III teams, and the Fontbonne College (8th) was scoreless in the first half of play. In the second half Fontbonne managed to score on a set play and on an intercepted pass from the Engineer defense. The losses to St. Joseph's College and Denison University were also plagued with bad luck. With air lofted balls and deflections off players, one has to wonder when the ball will bounce for Rose, instead of against us.

However gloomy the past five

games have been, the Engineers are not down for the count. Although Rose has only four wins, three of those wins are I.C.A.C. conference games. This gives Rose a share of the first place standing with a 3-0 conference record. The Engineers have three games left in their season. These last three games are of major importance due to the fact that all three are conference games.

At print time, Rose will have played Wabash College on Thursday. This is a game that will pit two of the three undefeated conference teams against each other. The third undefeated team is the DePauw Tigers. Rose will play the Tigers on Saturday, Oct. 26, at 11:00 a.m. at DePauw. Either of these two matches could decide the I.C.A.C. champion. The Engineers' last game will be at home on November 2, against Franklin College at 11:00 a.m.

The outcome of the Rose soccer season is far from being decided. With three conference games left, the Engineers could very well walk away with the I.C.A.C. championship title for the first time ever. Standing in the Engineers' way are Wabash College, Franklin College, and DePauw University.

### Cross Country gears for ICAC championship

by Greg Dixon  
Sports Reporter

Last Saturday, the cross-country team enjoyed a well-deserved break as it chose not to compete in the Indiana Intercollegiate Invitational. Instead, the Engineers are focusing on tomorrow's Indiana College Athletic Conference Championships at Anderson University.

The Engineers hope to be a surprise darkhorse as they have not yet raced the favorites, Wabash College and Anderson University, this year. The Engineer squad will be led by upperclassmen Greg Dixon, Steve Lawrence, Mark Stremmer and Brett Mazany. Underclassmen Brady Neukam, Lee Dixon, Bill White, Marty Malberg, Jason Hoffman and Matt Likes will provide needed depth.

Freshman Lee Dixon has consistently scored in the Engineers' top three this season while fellow frosh Matt Likes made his top seven debut at the Washington University Invitational two weeks ago.

The team will rely heavily on both senior leadership and freshman enthusiasm as it prepares to challenge some of the powerhouses of ICAC harrying. The conference championship will be held at the Mounds State Park near Anderson. The course, which the upperclassmen have traversed before, is characterized by hills, wooded trails and soft footing.

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### Rose-Hulman football woes continue

by Jim Broskow  
Sports Editor

The woes continue for the Engineer football team. Last week's 36-32 loss to Hanover was the fourth this season. With four games remaining, they already have as many losses as they've ever had under head coach Scott Duncan. With two ICAC losses, chances of a conference title are slim... and the competition won't be getting any easier.

Last year, Rose beat Wabash for the first time since 1941. It was also Wabash's first homecoming defeat in seventeen years. They are going to be hungry for revenge. The Little Giants are undefeated in the ICAC so far, and will be gunning hard for the conference championship. They've got a tough defense, allowing just over 54 yards

rushing per game the last three weeks. Linebacker Jason Gallman earned last week's ICAC Defensive Player of the Week by getting 15 tackles in their defeat of Anderson.

One highlight of Rose's game last week was Mark Guerretaz's 158 yards rushing. He's got nearly 700 yards this season, and if he continues at this rate, he'll top 1000, and possibly take a stab at a record. But his performance is not generally indicative of the team's play.

Rose's play has been inconsistent all season. Lately, the offense hasn't been moving until the second half, and the defense is getting winded after the third quarter. Over forty percent of opponents' points have been scored in the fourth quarter alone this season.

After a slow first half at Hanover, Rose scored 20 points in the third quarter, while shutting the Panthers out. But in the next quarter, Hanover replied to the surge and capped the game. Says Duncan, "It's hard to figure out why we're making critical mistakes at such important times in the game." Some have criticized that the bench should be more effectively utilized, to help prevent the fourth quarter doggedness.

The coaching staff has questioned the desire and motivational drive of the team, and has passed that task on to the players alone. "The players have got to want to win the game, starting at 1:30 p.m."

#### NEXT WEEK IN ROSE SPORTS SATURDAY, OCT. 26

##### FOOTBALL

Wabash College (ICAC) Home 1:30 p.m.

##### CROSS COUNTRY

ICAC Championship at Anderson 11:00 a.m.

##### SOCCER

DePauw University at Greencastle 11:00 a.m.

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#### NSA INTERVIEW SCHEDULE

The National Security Agency will be on campus November 8th interviewing seniors majoring in electrical engineering, computer science and mathematics.

Features

New Releases

FRANKIE AND JOHNNY

The lonely big city and a small coffee shop are the backgrounds for this endearing, working-class, love story that unfolds with warmth and wit. An exuberant Al Pacino is the determined short-order cook who courts a fearful plain-Jane waitress, played with much credibility by Michelle Pfeiffer. This expanded screen version of Terrence McNally's two-character play offers a sympathetic portrait of middle-aged, little people, seeking another chance for happiness — and finding it. (R) GOOD ROMANTIC DRAMA DIR-Garry Marshall LEAD-Al Pacino RT-117 mins. (Profanity)

HOMICIDE

From David Mamet, a melodrama involving a Jewish-American detective who agonizes over his ethnic identity. Joe Mantegna expertly portrays this big city cop who investigates the murder of an elderly Jewish shopkeeper. The case leads to a strange web of anti-Semitism. But the film fails to sustain momentum and events and characters lack credibility. (R) FAIR DRAMA DIR-David Mamet LEAD-Joe Mantegna RT-102 mins. (Profanity)

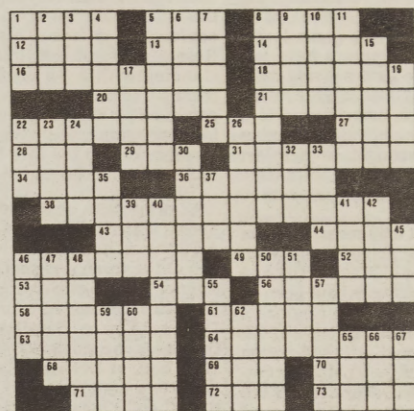
LITTLE MAN TATE

Three cheers for Jodie Foster who makes her directorial debut (she also stars) with this impressive account of a child prodigy. Adam Hann-Byrd is in the title role as the young genius torn between the concern of his mother (Foster) and a special teacher (Diane Wiest) who nurtures his talents. (PG) GOOD DRAMA DIR-Jodie Foster LEAD-Jodie Foster RT-99 mins. (Mild profanity)

SHATTERED

Convoluting thriller starring Tom Berenger as a wealthy real estate developer who survives a car crash with his face and memory in disarray. His wife (Greta Scacchi), however, apparently emerged from the wreckage unharmed. Various clues cry foul play and murder. Director Wolfgang Petersen ("Das Boot") offers too many twists that lead to dead ends. (R) FAIR MYSTERY DRAMA DIR-Wolfgang Petersen LEAD-Tom Berenger RT-97 mins. (Profanity)

The Weekly CROSSWORD PUZZLE

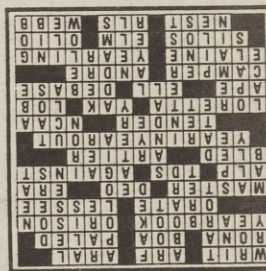


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ACROSS

- 1 "...having —, moves on."
- 5 Sandy's sound
- 8 Soviet sea
- 12 Novelist Jaffe
- 13 Fluffy scarf
- 14 Lost color
- 16 Grads' publication
- 18 Prayer
- 20 Sound off?
- 21 Renter
- 22 Subjugate
- 25 — gratias
- 27 Important age
- 28 Jungfrau, e.g.
- 29 6 pt. scores
- 31 Anti
- 34 Drained
- 36 More chi-chi
- 38 Continually
- 43 Gentle
- 44 Amateur sports grp.
- 46 Actress Swit
- 49 Gab
- 52 Tennis stroke
- 53 Simian
- 54 Building wing
- 56 Lower in value
- 58 Recreation vehicle
- 61 Maurois or Previn
- 63 Actress Stritch
- 64 Rawlings' "The —"
- 68 Grain pits
- 69 Tree
- 70 Potpourri
- 71 Product of nidification
- 72 Literary monogram
- 73 Clifton or Jack

ANSWERS



DOWN

- 1 Distorted
- 2 Caviar base
- 3 Once — blue moon
- 4 Fortuneteller's card
- 5 On train or ship
- 6 Source
- 7 Simulated
- 8 Defensive literary work
- 9 Steak order
- 10 MacGraw et al.
- 11 Diminish
- 15 Busy ones
- 17 Authur Harte
- 19 Straight
- 22 Faerie queen
- 23 Friend
- 24 Graf —
- 26 Restaurant
- 30 Shoe
- 32 Gas: pref.
- 33 Mangle
- 35 Appointment
- 37 Grain
- 39 Soak flax
- 40 Curiosity
- 41 School letters
- 42 N. Mex. art colony
- 45 "Honest —"
- 46 Tatting
- 47 October birthstones
- 48 Stay
- 50 Social reformer
- 51 Deborah of films
- 55 Stratum
- 57 Under
- 59 Heap
- 60 Baseball's Slaughter
- 62 Little —
- 65 — de France
- 66 Penpoint
- 67 Tar

