

Rose-Hulman Institute of Technology

Rose-Hulman Scholar

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Spin-off workshop to be offered

by John McHugh

On November 6, Rose-Hulman hosted an Effective Teaching Institute of the American Society for Engineering Education. The Institute conducted by Jim Stice, of Engineering Education, focused on course design and methods of problem solving.

According to Dr. Brij Khorana, Associate Professor of Physics and National Coordinator for the ASEE, the all-day seminar was very successful. There were a total of 68 who attended for the full day; out of those, about twenty were from Rose-Hulman's faculty. Khorana stated that he has only heard positive remarks about the teaching institute.

The direct benefits of the seminar should impact the students shortly. In an effort to facilitate these benefits, Dr. Khorana, in conjunction with the

Residence Hall Staff, will present a short workshop based specifically on the problem-solving part of the workshop. This workshop will hopefully pass on the information imparted in the teaching institute to the students.

This workshop will be held in the WORX from 4:30 p.m. to 6:00 p.m. on Thursday, Dec. 11. The workshop will consist of three half-hour parts which will follow the format of Professor Stice's lecture on November 6. The first part of the workshop will discuss Polya's strategy for problem solving. This half-hour session will contain a short lecture, then several problems will be solved in small groups to demonstrate the Polya technique. The second part of the workshop will cover the Whimsey pairs technique for development of problem solutions. This half-hour session will also consist of a lecture and

application format.

The final half-hour will be open discussion which will allow the participants to voice experience and tap off the knowledge of others present.

Each of the half-hour sections will be directed by a different professor who attended Professor Stice's presentation. Those who will be lecturing include Professor Hite, Chairman of the Chemical Engineering Department; Professor Khorana, Chairman of the Physics Department; Dr. Dekker, associate professor of mechanical engineering, and others.

The workshop will be open to all faculty, staff, and students and should be very worthwhile. The actual subject matter will give students an insight to possible directions to take when tackling major engineering problems.



The faculty shown above participated in the Effective Teaching Institute held here November 6. A total of 68 faculty members from Midwestern colleges and universities attended, including about 18 from Rose-Hulman. Part of the institute, "Techniques in Problem Solving," will be the subject of a workshop offered here on December 11. The seminar will be open to all faculty, staff, and students and could be very beneficial to those who participate.



Hudson shows style

by Craig Warner
Staff Reporter

A sigh of relief is in the offing for that seemingly endless span of classes between Thanksgiving and Christmas breaks.

Two weeks from today, on Friday, Dec. 11, singer/songwriter Helen Hudson will be appearing at 8:00 p.m. in the Rose Auditorium. Admission is fifty cents.

Helen Hudson has been performing at colleges and clubs throughout the country for the past six years. Playing guitar and piano, this Australian native delivers her mostly original material in such a manner as to work the audience's emotions without milking them, proving that she is more than just "another girl singer."

With a repertoire ranging from cabaret to country, Helen Hudson is capable of being either serious or up-tempo and lighthearted, whichever the music requires. She also has the skill to tailor her mood, movements, and vocals to suit the tone set by the various songs, truly portraying her as a

performer with sensitivity, humor, and honesty.

Helen Hudson's charming stage personality, combined with her infectious enthusiasm and positive attitude, help to allow her to better relate to the audience. With her first album, "Playing for Time," released just last week, and even Dr. Demento playing her single, "If God Were a Pontiac LeMans," she is well on her way to success. This is mainly because of her attitude that, "When I do something, I'm determined to be the best at it." With this philosophy, she is destined for fame.

In the exclusive interview with *The Thorn*, Helen Hudson reflected on her attitude towards her work by saying that she is having a "beautiful time doing what she is doing," and is just enjoying everything along the way. When told about the composition of the typical Rose audience, her response was "Terrific!"

This first Coffeehouse of the Winter Quarter is sponsored by the Student Activities Board.

the Rose Thorn

Vol. 17, No. 11

Rose-Hulman Institute of Technology

November 19, 1981

Hulbert considered for Alfred U.'s presidency

Rose-Hulman President Samuel F. Hulbert is one of several candidates under consideration by a presidential selection committee at Alfred University. Hulbert, an alumnus of Alfred, has reportedly said that, despite his dedication to Rose-Hulman, he would be tempted to return to his alma mater as president if the offer was made.

Alfred University is a private educational institution in Alfred, N.Y., with an enrollment of approximately 2,000. The school specializes in business administration, nursing and health care, and ceramic engineering. Hulbert earned his B.S. in ceramic engineering in 1958 and his Ph.D. in ceramic science in 1964, both from

Alfred.

President Hulbert indicated, in an interview with *The Thorn* Tuesday, that this matter is not an indication of his leaving Rose in the near future. "I'm not looking for a job," he commented. He pointed out that there are 3,193 colleges and universities in the U.S. and at any given time a large number of them are having trouble making ends meet. When this happens, their first option is to generate more resources. If that fails, they sometimes look for a new president.

Hulbert indicated that he is approached frequently, but this case was a little different. Although most inquiries are brushed aside, Hulbert stated that "when a friend of 25 years

calls you, you talk to them." He went on to say that he offered advice and suggestions for their consideration in the matter, but that was all.

Hulbert came to Rose in 1976 after serving as dean of engineering at Tulane University. During his tenure at Rose-Hulman, he has pushed for a broadening of cultural life. He has actively sought coeducation and an enlargement of the graduate studies program. One of the highlights of his term at Rose has been the improvement of campus facilities, especially the recent acquisition of funds for the construction of Olin Hall. Some of his other priorities have included faculty salary improvement and achievement of a lower student-faculty ratio.

MEs, EEs begin grad work

(This is the second in a three-part series of articles about graduate students at Rose-Hulman. Part three will summarize the students' impressions of the graduate program.)

Mechanical engineering and electrical engineering students account for seven of the twelve students enrolled in the graduate program at Rose. All seven of them are just completing their first quarter of graduate studies, and a few of them have narrowed down their thesis topic.

The lone electrical engineering grad student is an alumnus of Rose who has returned to the

Institute after working ten years in industry. Bob Penno, a 1971 graduate, earned his undergraduate degree in mechanical engineering before going to work for General Electric. Although Penno thought highly of G.E., he decided that he wanted more schooling, so he returned to Rose to do some preliminary work in electrical engineering. Penno's work is being supervised by Dr. Buck Brown.

Of the six mechanical engineering graduate students, Mark Shirley is the only one who is not a 1981 graduate of Rose. Shirley received his B.S. degree

in mechanical engineering from Rose in 1979, then went to work for McDonnell-Douglas. He and Steve Whitaker are both studying under Dr. Darrell Gibson. Gibson said that although neither has pinpointed his topic, both are contemplating projects in the field of noise and vibration.

Dan Teegarden, who is working under the tutelage of Dr. Donald Morin, plans to do kinematic engineering analysis of robotic manipulators. Practical applications of Teegarden's research may be useful to the auto, computer and electrical equipment industries, all of which use robotic "arms" to assemble and manufacture their products. Ernest Grube, who is working with Morin, is likely to work on a related subject.

Bob Tryon, who consults Dr. C. Mallory North for advice, is investigating the power spectrum of a randomly excited vibrating beam. He plans to run a computer simulation and test case in partial fulfillment of the M.S. degree.

Bill Grant, who is advised by Dr. Irv Hooper, has not chosen his topic but is considering examining the dynamic characteristics of actively controlled hydrostatic bearings. Such bearings are most commonly used in the machine tool industry.

"Hobbitt" visits Rose

by David Dvorak
Thorn Columnist

If the period between Thanksgiving and Christmas gets you down, you might consider taking a trip . . . to magical, mystical Middle-earth. Tickets for the journey will be provided by the Fine Arts Series, as the Hutsah Puppet Theatre "takes off" from the auditorium stage on the evening of December 12.

Over thirty large puppets will come to life in the Tolkien fantasy, *The Hobbitt*, due to the efforts of a team of six puppeteers. This troupe,

which operates from behind a three-tiered twenty-foot-long stage, is headed by Rusty Steiger . . . who not only built most of the puppets, but also composed the musical score!

In *The Hobbitt*, the prelude to the monumental trilogy *The Lord of the Rings*, we join with Bilbo Baggins and fellow dwarfs as they seek to recapture their treasure from the clutches of an indescribably evil dragon. If you enjoy reading Tolkien, or if you are a Miss Piggy or Kermit fan, this is an event that you won't want to miss!



EDITORIAL

The nuclear threat:

Proliferation

by John Marum
Assistant Editor

Since the United States exploded the first atomic bomb on July 16, 1945, five additional countries have obtained or constructed nuclear weapons. These are the U.S.S.R., Great Britain, France, China and, most recently, India. There is a clear danger of nuclear weapons proliferation. The sale of nuclear power plants to non-nuclear countries increase this hazard by supplying the materials and technology for weapons construction. Since it is difficult to regulate the use of these power plants, the U.S. is faced with a dilemma. On the one hand, it is promoting nuclear energy for peaceful purposes, such as electricity and cancer research; on the other and, it is increasing the likelihood of nuclear war or terrorism — should this same technology be misused.

Nuclear proliferation is a particular problem in countries with a potential for conflict. In the Middle East, for example, Israel may have already constructed nuclear weapons. Libya, a long-time enemy of Israel, is retaliating by attempting to acquire an atomic bomb from Pakistan. Should war ensue, either side might use its nuclear weapons (perhaps with retaliation from the other side) rather than accept a conventional defeat. Situations like these are difficult for the United States to control because 1) the U.S. wants to avoid diplomatic entanglement in a dispute which could lead to a nuclear exchange, and 2) by withdrawing its influence, the U.S. relinquishes any possibility of working toward a negotiated settlement.

One way to show nuclear proliferation is to prevent countries without nuclear weapons from obtaining uranium or plutonium, the fissionable material necessary for atomic weapons. Uranium is difficult and expensive to process. Most experts believe that plutonium would most likely be used in countries developing atomic weapons, because plutonium is made in nuclear reactors. The current potential for producing plutonium is immense. With an estimated world nuclear generating capacity of 300 billion watts, 80 percent of this is produced in countries without nuclear weapon capability. South Korea alone could produce enough plutonium to supply forty-five 20-kiloton warheads.

Luckily, the plutonium produced in a commercially efficient reactor is only 70% pure; 90% purity is required for most weapons. To increase purity, the length of time the nuclear fuel remains in the reactor must be shortened, so that the plutonium does not become contaminated by other materials. The Nuclear Non-Proliferation Treaty was designed to prevent such readjustment. However, not all countries with nuclear plants are signatories (such as Pakistan). Furthermore, should a government be toppled, there is no assurance that the new regime would feel bound by previous agreements.

To base the sale of nuclear technology and materials on predictions of government stability would be foolhardy. The U.S. has made wrong assessments in the past, and could make them again in the future. The U.S. has two choices. First, it can try to form an international organization to oversee and control all nuclear facilities. This organization, made up of representatives of all nations, would be authorized to remove critical reactor components should any country try to abuse its nuclear privilege. Second, a special task force could be formed by the U.S. to detect and assess nuclear misconduct. Economic or political sanctions could be used to discourage weapon construction. Without strict control of nuclear power plants, the world is exposed to an unnecessary danger.

FRANKLY SPEAKINGby phil frank

DUMB? I WOULDN'T SAY YOUR
DATE IS DUMB... HE'S JUST
BIG FOR HIS BRAIN...

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Page Five

Security cracks down



by Ima Scared

Today the Rose-Hulman Security Staff (S.S.) announced that a crack-down on all subversive activities would begin immediately. In a move that shocked the entire administration of the school (including himself), Glen "Silver Star" Stevens ordered that all security men and B & G men be heavily armed. After the

B & G department destroyed all of their coats by sewing extra sleeves on them, M-16s were distributed and the student body of Rose got to taste the cold steel of the real world.

In the picture above, several students were stopped at the new main entrance guard station. The students were attempting to steal a 1965 Corvair from the M.E. Department archives. The students were removed from the car and executed on the spot. It was then learned that they were taking the car, with permission, to Indianapolis to have Ralph Nader bless it. In order to keep the knowledge of this incident down, all of the other people waiting were also silenced.

"Silver Star" Stevens also announced today the acquisition of three land-based mobile drug detectors. The LBMDs are a system that picks up particulates from the ground and can accurately pinpoint from where the particulates originated. These particulates can include smoke, body odor, or dust. The machines have been operated around campus gathering information from leaves. B & G claims a raid is scheduled for their next slow day.

Silver Star also announced that he expects all officials of the school to stay out of his way in enforcing the rules of the school. "I've got security and B & G on my side and I'll have ARAT as soon as they see that I'm in their league." He continued, "The next problem area we'll deal with is those punks on The Thorn, but their days are numbered." The writers of Page Five would like to point out that if our days are numbered, they are probably numbered incorrectly.

Student Activities Board report

The Rose-Hulman Student Activities Board would like to take this time to present some information about our programming for this year. Our active membership stands at approximately 30 with a budget for the remainder of \$4500.

This year we have had an unusual occurrence happen twice. The acts of Larry Daniel and Ted and Ed had to be cancelled at showtime because they did not show. We apologize

for any inconvenience this caused and we will make an effort not to let this happen in the future. These acts may be rescheduled for later this year if some interest is voiced.

I would also like to take this time to formally thank all of those who made Homecoming possible.

We will be changing the types of acts offered next quarter to fulfill the needs of the Rose student, and any input would be

appreciated. As always, we are offering discount movie tickets to General Cinema theatres for \$2.50. Take advantage of this service before you go home for the holidays.

John McHugh
Chairman, Student
Activities BoardReverb
David Dvorak

At the conclusion of the piano recital by Tamara Karetkina Orlovsky on November 5, the large audience responded with hearty applause and a standing ovation. Dr. Orlovsky performed with a great deal of power and technical facility, and a precision that made the opening number, Sonata in C-major by Haydn, a real pleasure to listen to.

The overall musicality of the recital suffered, however, due to the uncharacteristic and terse phrasings in the Romantic pieces. This "plowing" through the music was especially troublesome in Liszt's Sonata in B-minor, a work that benefits from a high degree of expression. Robert Schumann's carnival, which is a collection of short pieces, was also somewhat wooden and lacked cohesion.

Is your stringed instrument a closet case? Do you wish that Rose-Hulman had a string ensemble? If you answered "yes" to either of these

Although the artist demonstrated a wide range of dynamic control of the piano, there was a definite lack of contrast and dynamic gradation; most playing was held at a loud or very loud level.

Dr. Orlovsky performed with greater feeling in Rachmaninoff's Preludes, Op. 23; a reverie section in the second prelude had a magic effect amid the rapid scale passages. This was the one piece on the program that was written by a Russian composer, and her performance of this work was beautiful and exciting.

The artist's precision and technical capabilities were most impressive, and represent many years of study at Leningrad State Conservatory and Leningrad Conservatory.

questions, now is the time to do something about it. All interested students should contact Bruce Wade, Box 1053.

The THORN

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IM Sports Round-Up

by Brad Burton

The IM football standings are now virtually complete. Sigma Nu wrapped up the Major League title with their 20-6 victory over Fiji. In last week's action, ATO defeated Lambda Chi 19-14 in the other game played.

In Minor A action, BSB 1 just got by Deming Basement 8-6 to complete an undefeated season and capture first place in its league. Speed 2, with an overtime victory over a strong RCF team, took second place. The Minor B champion is Lambda Chi No. 1 as it defeated a good Apartment C team 18-0. Thus, Apartment C dropped to second place as its amazing bench strength failed to materialize for the Lambda Chi game.

The Minor C division playoff will have taken place on Monday as Apartment A-B and Lambda Chi No. 2 ended their division play with identical 5-1 records. In their first meeting this year, Lambda Chi defeated the Apartment team 19-2, so the Apartments will be out to avenge this loss. Finally last Saturday, WBS remained unbeaten as they handed the Off-Campus team its first loss and took the Minor D crown.

Beginning playoff action last Monday, Apartment A-B won the right to face WBS by blanking Lambda Chi, 6-0. The nearly completed final standings are listed below.

MAJOR	
Sigma Nu	4-0
ATO	3-2
LCA	3-3
Fiji	1-5

MINOR A	
BSB 1	5-0
Speed 2	4-1
RCF	3-2
Triangle	2-2
Deming Base.	2-3
BSB 3	0-5

MINOR B	
LCA 1	7-0
Apt. C	6-1
Fiji	3-3
DSP	3-3
Mees	2-4
Speed 3	1-5
Speed 1	1-6
BSB 1B	0-3

MINOR C	
Apt. AB	5-1
LCA 2	5-1
DHM	3-2
Blumberg	3-3
Indpt. 2	2-3
Deming 2	1-5
Townies	0-4

MINOR D	
WBS	5-0
Off Campus	3-1
Speed Alumni	3-1
Indpt. 1	2-3
Deming Demons	1-4
ATO	0-5

The intramural cross-country meet held Tuesday, Nov. 3, drew over 100 participants with a record of seven teams being entered. The 11-minute time limit was not much of a problem for the runners as just about all of the entrants beat that time for the 1.5 mile course.

The individual meet winner was freshman Bryan Millard of Speed Hall, while the top

team was BSB 1, finishing ahead of ATO and Fiji. Meet results are listed below.

FIRST - BSB 1	
M. Dunkel	3
M. Grieger	4
G. Bridwell	8
B. Ramey	9
S. Smith	16

SECOND - ATO	
S. West	2
T. Lennox	10
C. Collison	12
B. Klemola	13
B. Cromwell	40

THIRD - FIJI	
M. Schipper	5
J. Hostettler	14
K. Swinehart	20
T. Brown	21
R. Bender	24

TOP 10 INDIVIDUALS	
1. B. Millard	Speed 1
2. G. West	ATO
3. M. Dunkel	BSB 1
4. M. Grieger	BSB 1
5. M. Schipper	Fiji
6. S. Gootee	Indpt.
7. D. Richards	LCA
8. G. Bridwell	BSB 1
9. B. Ramey	BSB 1
10. T. Lennox	ATO

Engineers Rally Past Washington U.; Complete Best Season in 23 Years

by Kim Borgman
Staff Reporter

Rose-Hulman completed its finest season since 1958 with a 10-5 win over Washington University last Saturday. The Engineers finished the College Athletic Conference race with a perfect 5-0 record and won the conference after finishing third last year. The victory didn't come easy as Randy Hancock scored the winning TD with less than two minutes to play in the game.

The Washington Bears scored first on a safety where QB Mike Trench was called for grounding the ball in his own end zone. Rose, however, came right back with a field goal by Jeff Jackson with 2:33 remaining in the third quarter.

Rose then failed to drive after receiving the kickoff. When the

Engineers punted, a bad snap resulted and the Bears recovered the ball on the one-yard line. However, the strong Rose defense held the Bears and forced them to settle for a field goal to make the score 5-3. It was the second time the defense showed their strength as Washington failed to score from the same field position in the same quarter. The defense, after shutting down SAM last week, allowed Washington only 60 yards rushing in 35 attempts.

After scoring Washington seemed to come alive and started driving for another score in the fourth period. But Rex Phillips intercepted a pass on the 10-yard line and returned it to the 47 to set up the Engineers' winning touchdown. The Bears had one more chance but Phillips again came up with an

interception and Rose was able to run out the clock.

The Engineers finished the season with a 6-2-1 record, losing only to Wabash and DePauw, both of whom are ranked in the Division III polls.

Touchton Retires

A somber note accompanied the Rose win over Washington as five-year head-coach Joe Touchton announced after the game that he is retiring from his coaching duties. The decision, which Touchton had made earlier in the year, came as a complete surprise and shock to his players and all Rose faithful. Touchton guided the Engineers to a 6-2-1 mark this year, with a 5-0 mark in the C.A.C., good enough for the conference championship.

Thorn Sports

Midwest Major College Cage Preview

When you discuss midwestern college basketball, there's no better place to start than the Big Ten conference and Indiana University. Coach Bobby Knight of the reigning NCAA champion Hoosiers will be hard-pressed to return to the top spot as he has lost three very valuable players from last year's squad. Isaiah Thomas, the floor leader, opted to turn professional. Ray Tolbert was lost to graduation, and Landon Turner was partially paralyzed in a tragic auto accident last summer.

Most teams would crumble after such losses, but Indiana had a great recruiting year and plenty of talent is waiting in the wings. Randy Wittman returns as does speedy James Thomas at the guard position. The front line will be anchored by 6-8 senior Ted Kitchel with help from freshmen Uwe Blab and John Flowers. The Hoosiers should be a strong contender for a post-season tournament bid.

Purdue is the other Indiana school in the Big Ten. The Boilermakers are stocked with experienced players. Seniors Mike "Scooby Doo" Scearce and Keith Edmondson join probably the best sophomore in the Big Ten, Russell Cross, up front. Cross averaged over 16 points and 6 rebounds per game for the Boilers last season. Senior Kevin Stallings, a clutch shooter, will try to fill the void left by the graduation of Brian Walker.

The Boilermakers have the talent to challenge for the conference title, but probably won't. Coach Gene Keady's strategy stresses individual rather than team effort (i.e. the Joe Barry Carroll phenomenon of years past). Cross was recruited to be Carroll's successor, but will the guards be able to get him the ball? Walker (the only man bearing a resemblance to a team player for Purdue last year) and his 205 assists of 1980-81 are gone.

Previewing other area majors — Illinois will suffer severely the losses of Eddie Johnson and Mark Smith, two players that, when at top form, were the best one-two tandem in the country. The Illini will have power at the guard slots, however, as Perry Range, Craig Tucker, and Derek Harper all return.

Notre Dame loses more than any team in the nation with the graduation of Kelly Tripucka, Tracy Jackson, and Orlando

Woolridge, and the transfer of Joe Kleine. John Paxson is the only standout left and Digger Phelps will have to build a new team around him.

DePaul lost the number one draft pick in Mark Aguirre — which may be the best thing that could have happened to the Blue Demon basketball program. Now that the one-man, cry-baby show is gone, guys like Teddy Grubbs, Terry Cummings, and Skip Dillard can display their own respective skills.



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Modulus may emerge

by David Slavin
Senior Reporter

If you want to irritate a member of the Modulus staff, just ask him, "When do I get my yearbook?" This question is especially irritating to the current staff members who are working hard to put Modulus production back on schedule.

Led by editors Sam Christie and Steve Shuman, the small but dedicated staff is currently working on four yearbooks. The last yearbook to be distributed was the 1978 edition.

The 1979 through 1982 editions are all in various stages of development. The 1979 yearbook is completed and printed, except for 15 pages which will be written by the administration. That edition is expected to be distributed by February, 1982.

The 1980 yearbook is complete except for three misplaced pages. It should be ready by January — that's right, the 1980 book will be finished before the 1979 book.

The 1981 Modulus is one-third complete. The expected delivery date is Homecoming, 1982. The production of the 1982 Modulus is just beginning and should likewise be distributed at next year's Homecoming.

Special things to look for in future Moduli will be a special biography of Dr. Moench to appear in the 1980 edition, and a comparative study of small engineering colleges in America to appear in the 1981 edition. The 1982 edition will feature reports

on the new construction to begin at Rose, especially that of Olin Hall.

Individual photographs for the 1982 Modulus are being taken this week in the Hulman Union. Students who have not signed up for appointments should check the sign-up schedule in the Union to determine whether any times remain open.

Chief Editor Sam Christie vowed, "The 1983 yearbook will be distributed on time." He is being aided in his efforts by Delta Sigma Phi, which is providing five workers each Saturday to help with Modulus production. With this much-needed assistance, Rose may see an on-schedule yearbook in a very short time.

Computer workshop offered

by David Slavin
Staff Reporter

Dr. Brian Winkel, Associate Professor of Mathematics here at Rose, will conduct a workshop entitled "Microcomputers in School and Home" as part of the Continuing Education Studies Division.

The workshop will be held from 9:00 a.m. to 4:00 p.m. on Saturday, Dec. 5, at a cost of \$35 per person.

The workshop is primarily aimed at teachers and other interested individuals who would like to know more about the application of the ever more popular microcomputers.

is considered to be very nearly an economic feasibility by McKinney, who did his doctoral work in the area. Recycling of asphalt will become very cost-effective as the industry proceeds up the learning curve.

The conference will start at 9:15 a.m. with an introduction by Dr. Hulbert and will continue until 4:30 p.m. with seven different sessions on various aspects of asphalt recycling. The methods and techniques used in Indiana and Illinois will be explained with slide and film presentations. Speakers from both the construction industry and government highway departments will discuss surface recycling, in-plane recycling, and central plant recycling.

torics (the study of ways to count things) and others. In a nutshell, the exam required ingenuity.

The test served two basic purposes. First, it gave the opportunity for high school students to get together and compete for a reason other than athletics. Team spirit, camaraderie and individual performance help make taking a math test fun (for once). Second, it lets bright high school students in the area get a look at Rose-Hulman and Saint Mary's during a time when they are making plans for college. In this way, the contest had mutual benefits.

The winning team this year was from North Central High School in Indianapolis. Terre Haute North High School placed second. A team from Champaign, Ill., had a very strong showing.

IN, and Eric Ellis of Covington, IN. A run-off election was conducted last Friday, and Ellis was elected to the post.

Just enough Freshman Class Representative petitions were submitted to the Student Government Association to fill the number of slots available. Therefore, there will be no elections and all freshmen who turned in valid petitions will serve on the SGA.

Think you've got it rough?

Senior is "Credit-Hour King"

by Don Dodson
Managing Editor

Has that steady stream of term papers, projects, formal lab write-ups, and homework that culminates in a "grand finale" of finals got you down? Count your blessings that you are not in Chris Mack's shoes. Mack, a Rose-Hulman senior who hails from Plano, Texas, is facing a barrage of six finals, four of them this Saturday.

What did Mack do to deserve such punishment? He signed up for 33 credit hours of course work this quarter, almost twice as many credit hours as the normal course load. Actually, this quarter has been "light" for

Mack, considering that at this time last year he was taking 48 credit hours. That's right, 48 hours — three times the normal course load. At the end of that quarter he topped off his studies with ten finals.

Veiled behind this apparent madness is a rationale. Mack hopes to earn four undergraduate degrees from Rose-Hulman simultaneously. Physics is his primary degree, but he is also pursuing B.S. degrees in electrical engineering, chemistry, and chemical engineering. Besides these accomplishments, Mack intends to complete the technical translator program in the Russian language.

Why would someone pursue four degrees simultaneously? Mack has an answer: "My purpose is to gain as broad a background as possible. I'm interested in a lot of different subjects, so when I found out that it was easy (to earn four degrees), I said, 'Why not?'"

Easy, he says. Surely he jests.

But, no! His grades back up his assessment. Mack carries a grade point average of 3.65 after nine semesters at Rose.

Mack gives two secrets to handling heavy course loads: "Don't sleep, don't have fun." Actually, he does get a few winks of sleep each night. He claims to average six hours of shut-eye on weeknights this quarter. In his 48-credit hour quarter, his snoozing time amounted to four or five hours of sleep per night.

Mack stresses the necessity of time management, especially mastering the fine art of knowing when and when not to do homework.

After finishing at Rose, he plans to enter graduate school to earn an advanced degree in applied sciences. Afterward, he wants to apply to NASA's astronaut-training program.

Would he change anything if he had it all to do over again?

"Yes," he says, grinning. "I'd only get three degrees."

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McKinney holds seminar

by Douglas Gundlach
Staff Reporter

An asphalt pavement recycling conference will be conducted on Wednesday, Dec. 9, in the Hulman Union. Assistant professor Jim McKinney of the Rose Civil Engineering Department is the organizer of the conference. Although a fee will be paid by outside attendees, all Rose students are welcome to listen to any or all of the lectures for free.

The purpose of this conference, according to McKinney, is to bring together the consumers and the contractors in the highway construction field and discuss the merits of the relatively new asphalt recycling technology. The re-use of asphalt pavement

Math contest draws attention

by John Marum
Assistant Editor

Last Saturday, Nov. 14, Rose-Hulman and Saint Mary-of-the-Woods jointly sponsored the 16th annual High School Math Contest. Thirty-eight schools from a radius of 90 miles participated. Each school was allowed a maximum of sixteen participants; four from each class (i.e. freshman, sophomore, etc.), two of which were male and the other two female.

Everyone participating was required to work twenty problems and choose from a selection of five answers. Out of a possible 100 points, the average score was 30, indicating the degree of difficulty involved in taking the test.

The test itself was not strictly "plug and chug." It contained questions in such fields as logic, geometry, algebra, combina-

Freshman officers elected

by Alan Yarcusko
Staff Reporter

The freshman class recently elected officers to lead it through the ensuing year. Chris McGill, from Dexter, MO, was chosen as president, while Stan Smith of Rosedale, IN, was elected vice president.

The race for secretary-treasurer was initially a deadlock between Sean O'Shaughnessy, from Hunterton,



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