

Rose-Hulman Institute of Technology

Rose-Hulman Scholar

The Rose Thorn Archive

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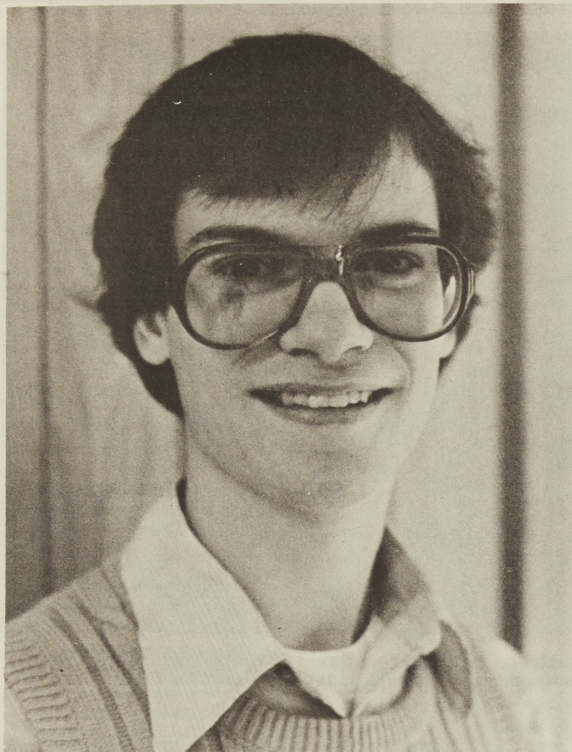
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Chris McGill will be one of the many talented Rose students in this year's Engineers in Concert, which will happen Sunday, February 20th, at 3 p.m. in the Auditorium of Moench Hall. Admission is free. For further information, see Reverb on page 2.

Rose talent shows

by Al Hippleheuser
"Packed" with people and with talent was the way to respectively describe the Worx and the Student Activities Board Talent Show last Friday.

Scott Tyring's professional performance took the top prize of \$75. He sang three original folk songs entitled "Sing a Song for the Lord Today," "Tears of Desperation," and "Teach Me About Love." David Dvorak won second place strumming an original harp composition that was romantic in nature. Third place was captured "magically" by Tom Vorjohan in an act of entertaining illusions that gave the audience a rise.

The masters of ceremony were Brian Myers and Matt Deutch. Between acts they performed two play cuttings: Myers did Neil Simon's hilarious "Drowned Men" and both did the courtroom scene from the Scopes trial dramatization "Inherit the Wind."

Other acts included the memorable "Flock of Keyboards" in which five singers in mob garb sang "Volare" accompanied by one accordion and four typewriters. Also, Jeffrey Nadeau rendered Scott Joplin's "The Easy

Winners" on piano. David Brumbaugh also embellished the show with magic.

The show opener was Spyrit Band performing "ABACAB" from Genesis and Kenny Loggins' "Heart to Heart." Spyrit Band has Brett Townsend on vocals and Eric Utsler on vocal backup and lead guitar; Steve Profit played keyboards and Steve Seeley played drums. Sam Dlugach, Mike Morrison, Piero Madau, and Larry Romine also rocked the crowd with songs from RUSH.

The show ended with an excellent performance of Harry Chapin's "Mr. Tanner" by Richard Payonk and David Harrison.

Judges for the show were Dr. Calvin Dyer, Major Casale, and Tom Miller.

The Student Activities Board (SAB) hopes that next year, St. Mary-of-the-Woods College will jointly sponsor the talent show. SAB sponsors events such as the homecoming concert, basketball game halftime events, ping pong tournaments, "Air Band," and "Imitate Your Favorite Professor" contests at dinner, and convocations. In April, look for Springfest '83 — a weekend extravaganza.

Gibson to be honored at Banquet

Lieutenant Colonel Stephen C. Gibson, an RHIT professor of Military Science, will be honored this evening at the 53rd annual Military Ball.

"Students from Rose-Hulman, Indiana State University, DePauw and St. Mary of the Woods College will be on hand, as we honor Colonel Gibson for his many years of dedicated service," ROTC cadet Jamie White said.

Gibson is scheduled to be the guest of honor at the annual Army ROTC function.

Before coming to Terre Haute, LTC Gibson was a student at Command and General Staff College at Fort Leavenworth, Kansas, and served as a Battery Commander in Germany, White said.

LTC Gibson received a Bachelor of General Studies in Business from the University of Nebraska at Omaha in 1972, after receiving his commission in Field Artillery Officer Candidate School in 1965, White said.

"His dedicated record includes overseas assignments as an Assistant Executive Officer, an

Assistant Operations Officer and Battery Commander, as well as a Battery Commander in Vietnam," White said. "Not to mention being a Service Battery Commander at Neu Ulm, Germany."

Stateside assignments for Gibson include duty as a Forward Observer at Fort Devens, Mass., a Group Operations Officer and Battery Commander at Fort Irwin, Calif., a Training Extension Course (TEC) Project Officer at Fort Sill, Okla., and an Assistant Professor of Military Science at RHIT.

With military awards including the Bronze Star Medal with two oak leaf clusters, the Meritorious Service Medal, the Army Commendation Medal and the Good Conduct Medal-2nd Award, one might suspect Gibson to be a descendant of a long-time military family. However, Gibson says, in fact, the opposite is true.

"No, my dad was a traveling salesman in Wisconsin during World War II," Gibson said. "I had only one uncle of all the relatives that I know of who was ever in the service."

So, what inspired Gibson to join the Army?

"I was in college in LaCrosse, Wis. and I wasn't doing well," he recalls. "I was wasting my dad's money which I shouldn't have been doing."

"I said to myself, 'I need to do something to grow up a bit and hopefully repay dad. I need to make something of myself,' so, I quit school in the end of March or so, after I had gone off to school in September. I went home and told my dad I was sorry, but that I had quit before they threw me out."

Looking back, Gibson thinks he made the right decision in joining the military.

"I joined the service to grow up a little bit and in fact, I did more than grow up a little bit — I grew up a lot," he said with a wink and a smile.

Midway through his first enlistment, Gibson married his high school sweetheart of five years, the former Kathleen A. Quade of Wausau, Wis. She then joined him in Hawaii, where he was stationed at the time.

Cont. on page 2

Rose, ACD form company

by Mike Sullivan

On Tuesday, February 8th, representatives from Applied Computing Devices (A.C.D.) and Rose-Hulman Institute of Technology signed the paperwork which officially established the Indiana Center for Telecommunications Technology (I.C.T.T.). The Center is a jointly owned, for-profit company which is chartered to do research and development in the telecommunications field.

However, this is not the first time that the paths of Rose-Hulman and Applied Computing Devices have crossed. In fact, to separate the two establishments would be a difficult task. According to William Schindel, the president and co-founder of Applied Computing, "A.C.D. and Rose-Hulman have several years of individual success stories and single faculty or student intern projects of a development nature, and I.C.T.T. is a means of encouraging more of the same. This means more

opportunities for faculty professional practice, sample case studies for classes and labs, increased exposure to professional practice prior to graduation by students, and supplemental income possibilities for faculty and students. For A.C.D., it's an opportunity to work on its development projects with talented people."

Schindel went on to say, "Beyond all that, telecommunications technology is a major growth area of opportunity. Telecommunications was measured by the U.S. Department of Commerce recently as the number one growth area in the economy, and is targeted for special emphasis in the state of Indiana. I.C.T.T. is a chance for Rose-Hulman and A.C.D. to be significant players in a major future growth area of the world economy and to center that attention in our community."

Applied Computing Devices is

an eight year old company based in Terre Haute. The company was co-founded by Rose graduates William Schindel and Roger Sherfick. Schindel, who holds a B.S. and M.S. from Rose (1969 and 1972, respectively), was then Assistant Professor of Mathematics at Rose. The two were later joined by Mike Haley and James Baker, two more Rose graduates. Baker was also an instructor at Rose before joining A.C.D. Since then, the operation has grown to 80 people, with \$4 million in sales.

Schindel, Sherfick, Haley and Baker are not the only people from the Rose community who worked for Applied Computing. Over the years, Drs. Hoover, Froyd and Voltmer have all done consulting for the company. In addition, numerous students have been summer engineer interns for A.C.D.

President Hulbert describes the I.C.T.T. as "very good for Rose-Hulman, the community and this region of the country."

the Rose Thorn

Vol. 18, No. 16

Rose-Hulman Institute of Technology

FEBRUARY 18, 1983

Management program near

by Geoffrey Lange

Some members of the Rose-Hulman Faculty are awaiting President Hulbert's final decision on a new program designed to develop a student's understanding of management in business and society. This new program, the Management Studies Program, has been approved by the curriculum committee and may be offered to students as early as next year.

The Management Studies Program (MSP) will compliment the education of Rose students by providing a set of courses which teach: 1) An understanding of the management concepts of quantitative and economic analysis, 2) Communication for management, 3) analysis of both intended and unintended impacts of management decisions, 4) appreciation of the legal and ethical context of management, and 5) an awareness of the human interactions that make management necessary and possible. The MSP includes a variety of disciplines which are

brought together by a common goal — preparing students for responsible and effective management in our technological world.

Only sophomores can enter the MSP; interested freshmen are encouraged to focus on the Institutes normal humanities and social science requirements their first year at Rose. Tentatively, the MSP consists of 15 courses. There are approximately 25 courses from which the student may choose the seven remaining courses, three from a "management in society" category, and four from a list in which he may emphasize a strength area such as quantitative analysis, social science, economics, or communications. The student is advised to update his scheduling plan from quarter to quarter to eliminate as many scheduling conflicts and over-

loads (for some majors) as possible; a major commitment on the part of the students is necessary.

Upon successful completion of the MSP the student receives a certificate of completion. Completion of the program is noted on the student's official transcript but not on the diploma.

The management studies group, chaired by Dr. Sam Vuchinich, has spent two years of careful planning developing the MSP and is very anxious to hear President Hulbert's final decision on the MSP in March.

To the knowledge of the management studies group there are no other programs like this being offered at other schools; Dr. Vuchinich has stated that the program has been "specifically designed for the Rose student."

ΔΣΦ ΣΝ ΑΤΩ ΔΛΧΑ ΦΙΛΙ

FRATERNITY

RHO

by Jim Grimshaw

Elections for new officers of the Interfraternity Council (IFC) were held last week. The new officers are: Chet Crow (LCA) - President; George West (ATO) - Vice President; and Dave Titzer (LCA) - Secretary/Treasurer. The IFC is the governing body of all fraternal activities, which represents about 40% of the campus population. The concerns of the IFC center around three major areas: Rush-planning of rush parties, closed weeks/weekends, etc. and appropriate rules; Great Weekend - events and appropriate rules; and to act as a liaison between the chapters and the school. The council is composed of 32 members: Tom Miller, advisor, three officers, and four members from each fraternity (president, one senior and two junior representatives.)

Last year the IFC revised its constitution thoroughly and had it bound. They also worked on developing a better attitude among the fraternities concerning Great Weekend, revised a shorter Rush program for next year, and established a

quarterly Fraternity-Faculty Meeting. The latter is a meeting between all fraternity presidents, faculty advisors and Jess Lucas, Dean of Student Affairs. The meeting consists of dinner and discussion about appropriate topics. Last year's officers were Steve Nowak - President, Brian Fabel - Vice-President and Jim Krieg - Secretary/Treasurer.

In other fraternity news, the Little Sister Pledges of ATO had their annual pledge dance last Saturday, February 12th. The dance is one of their final phases of pledgship before activation.

The Triangle Pledge Class went on a walkout to Northwestern University in Evanston, IL on Feb. 4-6. Northwestern was also the site for their Regional Workshop last weekend. Eight actives attended, including the newly elected officers. The workshop was a forum of representatives from twelve area chapters. Finally, a representative from Triangle's National Headquarters will be visiting on February 21-22.

Reverb

David Dvorak

The third annual Engineers in Concert is to be held February 20 (Sunday) at 3:00 p.m. Here is a rundown on this year's events:

There is a barbershop quartet comprised of Ian Brockie, a senior chemistry major; Keith A. Dodson, senior EE; David Rinehart, a junior CE, and John Rohlfing, a sophomore ChE who wrote two of the arrangements that the group will be performing.

Freshmen Brian Mast (EE) and ChE Bill Lindstaedt will be performing the Aria from Cantata No. 77 by J.S. Bach. Brian will be playing the flugelhorn and Bill, the piano.

There will be four piano soloists — Olin Calvin (junior ChE) will perform Beethoven's

Moonlight Sonata (1st mvmt.), freshman EE Scott Crockett will perform the interesting "Fantasie Impromptu" of Chopin, Chris McGill (sophomore PH) will play the challenging "Prelude in C# Minor" of Rachmaninoff, and Jeffrey Nadeau, senior ChE, will play the "Elite Syncopations" of Scott Joplin.

There will be a saxophone ensemble with members Scott Brady (Fr-ChE-CM), Pete X. Dodge (Sr-ChE), David Fox (Jr-ChE), Brian Henry (Fr-CS), and Philip J. Moore (So-EE), who wrote the piece that the group will be playing... "It's Not Cold, It's Phrygian." As for myself, a senior ME, I will perform a harp improvisation on my "Concerto I for Harp & Organ."

There will be three vocal soloists — Alan Hipplehauser (Jr-ChE) will be singing Schubert's "Die Forelle," and Doug Sprunger (Fr-EE) will perform a beautiful work by R. Vaughn Williams. Both will be



The saxophone quintet of Philip Moore, Peter Dodge, David Fox, and Scott Brady will perform an original composition entitled "It's Not Cold, It's Phrygian," for the Engineers in concert on Sunday.

accompanied by Professor Al Schmidt of the math department. Anthony Weber (Sr-EE) will sing Gary Chapman's "Sincerely Yours" to the piano accompani-

ment of John Weigel, a sophomore chemistry major.

This is the third year for EIC, and we expect this concert to be as successful as the first two.

This is a great opportunity for you to hear your fellow classmates' musical talents...

so make plans to attend this event!

Russian speaks for Int. Affairs Ass.

by Cary Stokes

On Wednesday, February 9, the International Affairs Association presented Mr. Lez Pevzner, a Russian emigrant to the U.S., to give a presentation entitled "The Soviet Citizens and Their Relationship to the Law." The major portion of the talk compared the constitutions of the U.S. and the USSR. On the surface, the two are surprisingly similar. Glancing through the constitution of the USSR, one would think Soviet citizens have the same basic rights as Americans. The difference lies in the fact that the Soviet citizen is granted these rights by the state and thus may have these rights revoked by the state. In the U.S. these rights are recognized as inherent. Some results of this may be found in housing situations and the use of mental institutions by the Soviet government. For instance, in the Soviet Union, if the father of a family dies, the family may be required to give up a room of their house. Since a room is not so easily separated from the house this may result in giving up the house. Another "twisting of rights" is shown in the Soviet use of mental institutions as political prisons. Anyone writing anything that criticizes the state may be deemed insane and committed to an institution.

Next quarter's IAA topics will include NATO, U.S.-West German relations, the United Nations, and trade and unemployment. Watch for news of these events after break!

GIBSON

cont. from page 1

Gibson said he re-enlisted with an "understanding with my wife that I would go to Officers Candidates School (OCS) and attempt to finish my degree."

Mrs. Gibson, in a separate interview, said it has been that "teamwork" spirit, as well as a strong, religious family bond that has held their marriage together and furthered her husband's career.

Mrs. Gibson, who says she is "most definitely" a housewife, recalled the couple's most recent wedding anniversary. "We celebrated our 20th anniversary Army style — away from each other."

Although her husband quit college, Mrs. Gibson said, "He's no quitter now, especially if he feels something is important and right. If he believes in it, he doesn't let anything stop him — he keeps going until he achieves it."

Jeffrey, the Gibson's 14-year-old son, shares his mother's admiration. "When people ask me what his rank is and I tell them he's a Lieutenant Colonel, they're amazed. My friends are really amazed."

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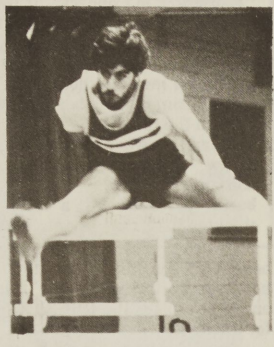
Thorn Sports

Track team places second

by Bob Mattingly

The Engineers' track team placed second all around in the fifth annual Rose-Hulman Indoor Invitational Track and Field Meet last Saturday. Butler University took first place with 172 points, Rose took second with 136 points, and Illinois Wesleyan College grabbed third with 61 points. Vincennes University took fourth with 39 points, DePauw (20) fifth, Manchester (14) sixth, Wabash (10) seventh, and Franklin College and the University of Evansville shared eighth with 6 points each.

Rose captured 3 first place slots for 30 points, 8 second place spots for 64 points, 2 third place positions for 6 points; 6 fourth place positions for 24 points, 1 fifth place spot for 2 points, and 4 sixth place positions for 4 points. The team scored 38 points in 5 field events, 38 points in 4 distance events, and 60 points in the 6 sprinting events. Five Invitational records were broken, two by Engineers. Senior John Singleton broke the



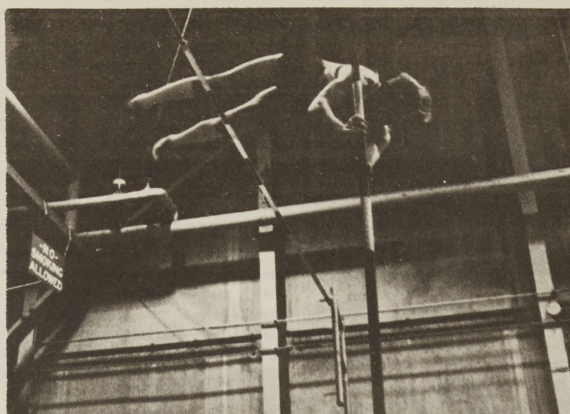
Dave Smith took third in the 60 yard High Hurdles at the Rose Invitational. Bob Mattingly photo.

record in the shot put with a throw of 54'-8.75" which also broke his personal best as well as the school record which he set last week. Senior John Smith did the same to the 880 with a time of 1:57.97.

Rose entries which placed are as follows: Shot put - Senior John

Singleton, first (54'-8.75"); Freshman Greg Hoffman, fourth (45'-7.75"); Pole Vault - Sophomore Dave Beil, first (14'-6"); High Jump - Junior Brad Zike, second (6'-8"); Junior Terry Martin, fourth (6'-2"); Long Jump - Sophomore Erik Schneekloth, sixth; Triple Jump - Sophomore Erik Schneekloth, sixth (41'-2"); Mile Run - Senior Mike O'Brien, second (4:21.52); 2 Mile Run - Senior Mike O'Brien, second (9:32.43); Freshman Bart Polizotto, fifth (10:02.71); Mile Relay - Freshman Brian Cavagnini, Senior Erik Mrozek, Sophomore Bryan Millard, Senior John Smith, second (3:37.71); 60 Yard High Hurdles - Sophomore Dave Smith, third (8.02); 440 - Sophomore Tom Vanderlaan, fourth (54.22), Senior Tom Redford, sixth (56.34); 600 - Sophomore Earl Wiggins, third (1:18.43), Senior Erik Mrozek, fourth (1:18.44); 50 Yard Dash - Freshman Brian Cavagnini, second (5.65), Sophomore Steve Nearny, sixth (5.77); 880 - Senior John Smith, first (1:57.97), Sophomore Bryan Millard, second (2:00.98); 1000 Yard Run - Freshman Tracy Houpt, second (2:22.53), Sophomore Richard Leonard, fourth (2:23.95); 300 Yard Dash - Freshman Bryan Cavagnini, second (33.35), Sophomore Steve Nerney, fourth (33.57).

The Invitational was the Engineers' final indoor meet this year. On the year, the Running Engineers broke 3 school records — the two previously mentioned and Junior Brad Zike setting the record in the High Jump at 6'-8".



Dave Beil takes 1st in the pole vault. Bob Mattingly photo.

IM Sports Round-Up

by Dale Bennett

by Dale Bennett

The past couple of weeks hasn't produced any major surprises in the indoor soccer leagues. In "AA" play,

The best times and distances on the year for each event are as follows: Brad Zike - High Jump (6'-8"), Dave Beil - Pole Vault (15'-3.5"), John Singleton - Shot Put (54'-8.75") Erik Schneekloth - Triple Jump (41'-2"), and Long Jump (23'-5"), Bryan Cavagnini - 50 Yard Dash (5.65) and 300 Yard Dash (33.35), John Smith - 60 Yard High Hurdles (7.96), 600 Yard Dash (1:15.91), and 880 Yard Dash (1:57.97), Bryan Millard - 440 Yard Dash (53.9), Mike O'Brien - Mile Run (4:21.52) and Two Mile Run (9:32.43), Bart Polizotto - (15:18.8), and the Mile Relay best (3:37.86) was held by Bryan Cavagnini (54.64), Erik Mrozek (54.83), Bryan Millard (55.3), and John Smith (53.09).

Scharpenberg has remained atop the standings with an unblemished 6-0 record. Last Sunday, they walked away with a 5-1 victory over the Apartment team. Of the 11 teams, the top four at the end of the season get to compete in the playoffs and, as of last Sunday, those four teams are Scharpenberg, Independent 2, TVB, and the Apartments. In "Minor" soccer, WBS is on top but followed closely by Sigma Nu, the Apartments and ATO 1. As of last Sunday, these would be the four playoff teams.

In major basketball, Lambda Chi seems unbeatable with a 7-0 record and only a couple of weeks to go before the playoffs start. The Old Men of the league, however, are holding down second place with a respectable 5-3 record and could provide some upsets in the playoffs. In the minors, Mees 2 defeated a previously unbeaten Speed 2A team and thus become a "minor" factor to be reckoned with.

The major volleyball league is led by Independent 2 at 10-1.

AA SOCCER

Scharpenberg	6-0-0
Ind 2	5-1-0
TVB	4-1-1
Apts	4-2-0
Ind 1	3-3-0
ATO	2-3-1
Fiji	2-3-0
DSP	2-3-0
Deming 'O'	2-4-0
LCA	1-4-1
Sigma Nu	1-3-0

MINOR SOCCER

WBS	5-0-0
Sigma Nu	4-0-0
Apts	4-0-0
ATO 1	3-1-0
Speed 1	2-2-1
ATO 2	2-2-0
Scharp	2-3-0
Fiji	2-3-0
LCA	1-3-1
Triangle	0-4-0
Deming 'O'	0-5-0

MAJOR BASKETBALL

LCA	7-0
Faculty	5-3
WBS	4-3
Apts	3-3
Sigma Nu	3-4
Fiji	3-4
ATO	0-7

MAJOR VOLLEYBALL

Ind 2	10-1
LCA	8-3
Sigma Nu	7-3
Apts	6-6
Fiji	5-6
ATO	3-8
DSP	0-12

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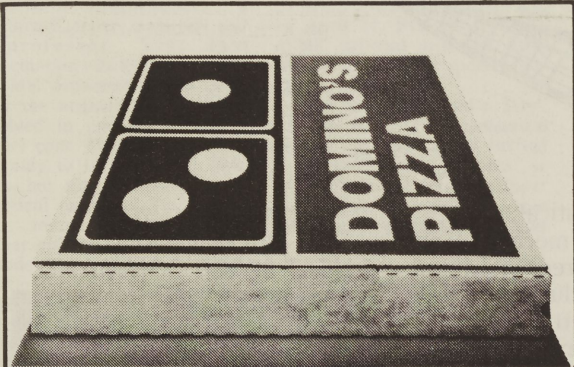
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Page 5 + Rose → bad chemistry

(Name withheld
by request)

While shoveling out the Thorn Office the other day, a couple of the remaining staff members ran across an old copy of a freshman Chem Drag lab handbook. The handbook was essentially a re-written version of the standard chemistry lab handbook, but instead of using mathematical theory to explain concepts and ideas, the book concentrated only on the essentials. (such as passing the course), using learning techniques developed at Romper Room Laboratories, a subdivision of the Chemistry Department here at Rose. An excerpt of the half burned and dissolved handbook is reprinted below (without proper footnotes, of course.)

A Day in the Life of Joe Molecule.

"There he is. Or is he? It doesn't matter anyway. He's just another average molecule. But is he? Of course not, this is Joe Molecule! He has some amazing properties. With a mean free path of 2×10^{-5} centimeters Joe doesn't have much room to stretch out. And with an average velocity of 10-5 centimeters per second, Joe can easily out do your typical racing machine."

So much for the theory section, now onto the "meat" of the issue:

"As amazing as Joe is by himself, he is even more powerful with some of his friends like Joel and Jane Molecule. In combination with some of his inferior friends, Joe can help to create a terribly offensive odor sometimes referred to as "that one city in Indiana." He can also join some of his friends to create long chains of amino acids, or perhaps even polymers, such as the basic X-1 A.R.A.T. lunch plymer, which can then be disguised in a variety of shapes, sizes and colors, some of which closely resemble food. You see, Joe is very versatile."

So much for the practical applications, now back to some more theory:

"A typical day for Joe might be: 12 Midnight-day begins (molecules, like senior E.E.'s during winter quarter, have overcome the need for sleep). 2×10^{-13} seconds later - First collision of the day. So you think you're busy, Joe has over 4.32×10^{-17} meetings per day."

"Basically a pretty boring day, eh? Well with no feet he certainly cannot go running or playing sports. And with his busy schedule he has no time to vegetate in the Nerd Center, playing games or attempting to take control of the infinite Vax. But Joe Molecule does not care one bit (no pun intended). He just continues on his merry way, watching the funny molecules go by..."

The book, which was widely acclaimed by Comp. Sci's and M.E.'s as the best book since *Tip and Mitten*, will be simplified again and released to Purdue next year.

Auditions for Spring Musical:
"Roar of the Greasepaint,
Smell of the Crowd"

Be prepared, if possible, to sing a song (preferably from some musical) as part of the audition. An accompanist will be provided.

**Rose-Hulman
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Rock album review

by Bill Browning



It seems to be a trend nowadays for a band member with any kind of talent at all to try a solo album. As a result, the rock industry has now had to absorb a lot of new material. Some of these explorations into individual sound have turned out to be relatively worthless, while a few have proved to be profitable. The Eagles' Joe Walsh has had some success as had Randy Meisner and Don Henley with solo albums. Genesis has now followed this path also; Phil Collins being the most successful.

Collins' new album "Hello, I Must Be Going" is just now

becoming a top seller. It's my belief that his remake of Diana Ross' popular song "You Can't Hurry Love" is the sole reason. I really can't see any other reason for this album's popularity. The other single "I Don't Care Anymore" wasn't very well known and, in general, there isn't much else on the album that could attract widespread attention. There's nothing new to Phil Collins' sound. He is essentially an extension of Genesis with his voice being the ever present constant. Genesis is much finer toned and well rounded. This album is monotonous and I really had trouble listening to it. I

Daffynitions



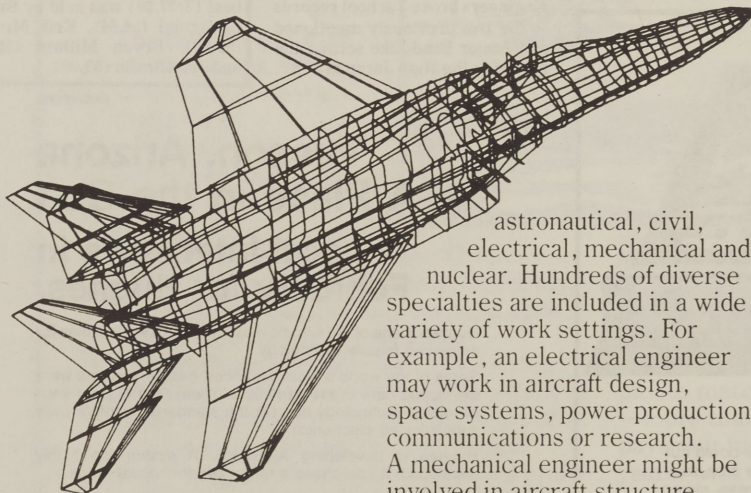
by John Rohlfing

This Sunday afternoon being the performance of "Engineers in Concert," it is only appropriate that this week's column concentrate on music and the stage.
accordian music — noise that comes from playing both ends against the middle.
applaud — what you do to show you appreciate something is over.
basso profundo — a deep thinking fish.

bought Phil Collins' first album but I definitely won't buy this one. Let's hope the title speaks for itself.

burlesque show — strip miming.
chorus line — girly queue.
classical trombonist — Bach slider.
country music — pop corn.
harp — a piano in the nude.
opera — where a guy gets stabbed in the back and instead of bleeding he sings.
percussionist — cymbal minded.
rock 'n' roll — a fate worse than deaf.
soprano — woman with smooth sailing on the high C's.
violinist — somebody who's up to his neck in music.

ENGINEERING TAKES ON EXCITING NEW DIMENSIONS IN THE AIR FORCE.



Computer-generated design for investigating structural strengths and weaknesses.

Developing and managing Air Force engineering projects could be the most important, exciting challenge of your life. The projects extend to virtually every engineering frontier.

8 CAREER FIELDS FOR ENGINEERS

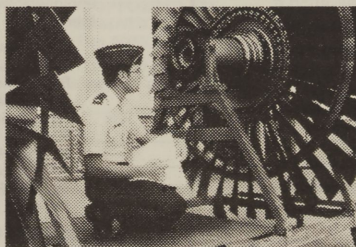


Air Force electrical engineer studying aircraft electrical power supply system.

Engineering opportunities in the Air Force include these eight career areas: aeronautical, aerospace, architectural,

astronautical, civil, electrical, mechanical and nuclear. Hundreds of diverse specialties are included in a wide variety of work settings. For example, an electrical engineer may work in aircraft design, space systems, power production, communications or research. A mechanical engineer might be involved in aircraft structure design, space vehicle launch pad construction, or research.

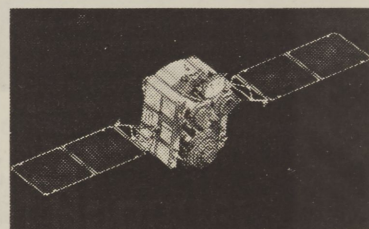
PROJECT RESPONSIBILITY COMES EARLY IN THE AIR FORCE



Air Force mechanical engineer inspecting aircraft jet engine turbine.

Most Air Force engineers have complete project responsibility early in their careers. For example, a first lieutenant directed work on a new airborne electronic system to pinpoint radiating targets. Another engineer tested the jet engines for advanced tanker and cargo aircraft.

OPPORTUNITIES IN THE NEW USAF SPACE COMMAND



Artist's concept of the DSCS III Defense Satellite Communications System satellite. (USAF photo.)

Recently, the Air Force formed a new Space Command. Its role is to pull together space operations and research and development efforts, focusing on the unique technological needs of space systems. This can be your opportunity to join the team that develops superior space systems as the Air Force moves into the twenty-first century.

To learn more about how you can be part of the team, see your Air Force recruiter or call our Engineer Hotline toll free 1-800-531-5826 (in Texas call 1-800-292-5366). There's no obligation.

AIM HIGH AIR FORCE