1998

1998 Modulus

Rose-Hulman Institute of Technology

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A Faded Rose That Once I Saw
Matthew G. Huizing
3 December 1994

A faded rose that once I saw,
Morning dew drop trickled red.
Clenched by beast, thorns through paw,
Green, live shoot, cut and dead.

My mind it pricked, droop and limp,
Colored petals curl and fall.
To stop and smell was all I did,
Fragrance lingers where I hid.

Imperfect shape and yet it pleased,
A beautiful thing it was indeed.
Single from all the rest,
For once was near your breast.

What is Attar of Rose?

attar of rose  n. a drop of perfume or essential oil obtained from crushing thousands of rose petals.

Obtaining the attar from a rose is quite difficult, yet the pleasure of the fragrant oil is worthy of the effort. Attar of Rose reminds us of our efforts put into earning our degrees from Rose. Together we have felt the pressure of hard work, but once the job is done, the joy of having that degree makes up for all those sleepless nights. The following pages display a small fraction of the effort that was exerted at Rose between September 1997 to May 1998.

Modulus
Rose-Hulman Institute of Technology
5500 Wabash Avenue
Terre Haute, IN 47803
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Freshman orientation...what fond memories we all have of that time. The time we first entered Rose-Hulman. What better way to enter the book that contains all those memories?
The 1997 Homecoming at Rose-Hulman was a huge success although there were a few near disasters before the event. The bonfire had been knocked down several times during construction, resulting in a threat to cancel the bonfire, and the football team suffered a loss. But, all in all, the 1997 Rose-Hulman Homecoming was a great time had by all. The weekend was packed with activities for students and alumni.

The event itself kicked off with the Friday night pep rally. Pi Kappa Alpha won the cheer contest, while the FJJs won the banner competition. The new and improved pep band performed at the rally as well as the football game on Saturday. The rally drew to a close after Jena Ringo was crowned as the 1997 Homecoming Queen. Then a spectacular bonfire was ignited while fireworks decorated the background.

Saturday was also action-packed with the alumni baseball and soccer matches, as well as the cross-country meet against Vincennes University, which proved victorious for both the men's and women's teams. The win was the first in Rose women's cross country history. The varsity soccer team competed against Marian College, resulting in a 5-0 shutout victory. Women's volleyball was victorious over Earlham, and finally, the football team put up a good fight against the University of Chicago Saturday afternoon, ending up only two points behind at 16-14.

By Tammi Russell
Above: Before the Burning, the bonfire stands tall.

Left: Devoted Rose-Hulman cheering section at the Homecoming football game.

Far Left: 1997 Annual homecoming bonfire.

Left:
Homecoming Queen candidate Marcie Kam and her escort play it cool.
When I was given this assignment, I realized that most of us wouldn’t know what the good ‘ole days of Rose were like. What would any of us know about drafting tables and colorful bell bottoms? However, it dawned on me that what I’m writing will affect at least most of our seniors who have seen the good ‘ole days of Rose. After all, four years should be long enough for anyone to gain a handful of memories.

So do you:

• Remember when you first got the Tinkertoys / Lego brochure from good ‘ole Rose?
• Remember when Rose was a gender specific school?
• Remember when Woods’ girls were the toasts at fraternity parties?
• Remember when the infamous red sauce graced the main menu of ARA?
• Remember when there were a lot of trees in front of the old Olin before they were brutally discarded for better technology?
• Remember when 1 A.M snacks at Denny’s were normal?
• Remember when we had an airplane hangar for a gym?
• Remember when freshmen had to build the homecoming bonfire?
• Remember when there were tennis courts in the front lawn?
• Remember when there was a large checkerboard in the commons?
• Remember when the bell tower would peel out some patriotic songs while you walked to class?
• Remember when there was no construction on campus?
• Remember when the NeXT machines were ICers’ best friends?
• Remember when the whole men’s floor would poke their heads out when they heard a female voice?
• Remember when Tom was your friend?

You didn’t think you would remember that many things, eh? I hope this has been a fun trip down memory lane. I sure miss it.

By Vu Thu Pham
Top Left: A Rose motor-sport car of days gone by.
Above: The Rose-motor-sport car of today.
Bottom Right: The campus of years gone by.
Bottom Left: The old way of taking graph-com..
Joni Mitchell's song “They paved paradise and put in a parking lot” has changed from being a cute little song to being grim reality here on the Rose-Hulman campus. In the past several years our grass and trees have been slaughtered to put in a new sports and recreation center, the Olin addition, and more parking lots. Where the SRC is, there once were some trees, although it was mostly field. Several mammoth, majestic trees were hacked down in the name of progress when it came to the Olin addition. And now, in a period of a month, two new parking lots have been built. The natural beauty is part of what makes Rose-Hulman so attractive. It allows for a little bit of escape, for some peace and real world after spending a day in Crapo, staring at white boards and computer screens. Why are we chopping down so many beautiful trees to allow for more bleak pavement, and more cold dark classrooms? Why are we spending millions of dollars to build man-made structures to replace the awesome, natural, existing landscape? One answer is that the faculty, students, and staff complain about parking spaces. While there are spaces out by the observatory, we don't want to walk that far. Wayne Spary commented, "I'm trying to serve [the faculty, students and staff] as the customer" and "In every building we've put up we've been tree sensitive". What it basically comes down to is it is the fault of the consumer, the one who complains, the one who spends the money for the project. The questions you must ask in your heart are: "Is progress worth it?" and "Do you even care?" I leave these questions for you to ponder. It is not too late for our campus. We can keep what we still have, and we do have a lot.

By Susan Howard
Above: One of the groves of trees on campus.

Left: Contrast the life and color of a living tree to the bleakness of leafless tree.

Far Left: Trees that remain add color, life and beauty to our campus.
One of the new facilities on campus this year is the SRC. What does that stand for, you may wonder? Well, some say that it stands for “Students Really Can’t”. Others say that it stands for “Some Radical Change”, and those men of Speed Hall say it means “Sinclair Really Cares”. Officially, it stands for “Sports and Recreation Center”, and it is large and impressive. Although it is incredible in stature and size, it isn’t perfect. After being used to Shook, which was rarely closed, and used to using it at your convenience, the SRC’s hours are quite a shock. Users are made to part with their ID cards, and sign in at the front desk. When one is free to work out, often the facility is closed. The new complex includes a swimming pool, intramural and varsity locker rooms, an indoor arena, tennis courts, racquetball courts, basketball and volleyball courts, and weight rooms. Such a grand building is an asset, but obviously, only if it is able to be used. So, it is a trade-off. It is the old convenience and tradition, being greeted by all the old jerseys and pictures of athletes of years past and the spirit of Rose, versus a modern facility that has tight security and little personality. It is obvious which one we chose, it is just a matter of adapting to the new way of life, and for many older students, such a change, added to all the other changes that have been taking place in recent years, just is not easy. While there is griping about the hours, nobody complains about the facilities; they are excellent. What it comes down to is this: the SRC is only as much or as little as it is to those who use it.

By Susan Howard

Right: The new pool allows not only for swimming laps, but also for diving or just playing around.
Left: The impressive new sports complex looms over the north side of campus.

Above: A student lifting weights in the SRC's weight room.

Left: An indoor view of the track.
Tragedy of the Commons

One of the most interesting architectural elements of the Rose-Hulman campus used to be the commons. The enormous checkerboard plateau between the towers cast a dreamy aspect upon the commons like something out of Alice in Wonderland. Furthermore, the commons contained an aspect of mystery and adventure. The sizes of the main pieces were much larger than life. One felt small in the commons because of the size of the towers and the table, and the three-story ceiling. A closer inspection revealed dishes attached to the walls pointed toward the ceiling. Why they were there, nobody knows. The towers were oracles that served to dispense information. Another aspect of the old commons was the moveable furniture. Often on Friday nights they could be found in strange configurations. But in their normal configuration, each set of couches was “owned” by some campus group. The Pikes had their place, the Theta Xis and Sigma Nus theirs, and the rest of the people were more flexible. It allowed for a sense of security, brought through patterns and routines. The large, low checkerboard was the focus of the commons, the point of hundreds of meetings, both planned and unplanned. It was the unofficial social center of the school. It was on the checkerboard that disgruntled students constructed the cardboard senior housing piece that commented on the lack of on-campus housing to be available with the coming of the coeds (who are now juniors). It was a place where students played checkers using old Thorns, and where human chess was attempted. The new commons changed most of what was familiar in the old design. There is a smaller table, the chairs are chained together, and the towers are gone. What remains is more compact, and new paths must be forged through them to get to Crapo or the mailboxes. Like most changes, the new commons will become accepted, and soon the old commons won’t even be remembered by most. I am glad that the old design was part of my Rose career, but I am sure that the coming classes will not miss it.

By Matt Huizing
Top: Hanging out in the commons.
Above: Looking down on the new commons.
Left: Students study around a new round table.
Far Left: The way things used to be.
Seniors without laptops

“How many people here have laptops?”—A familiar question being asked by professors this year. More than three-fourths of the student body has laptops, but most of the current senior class does not. For professors and students alike this causes a problem when seniors take electives that are designed around underclassmen’s laptops.

Four and a half years ago campus tours and literature pointed out the great number of computer labs available to all students. This number has dwindled to two: the last remaining NeXT lab in O231 and the ever-mobile Public Lab in Waters Computing Center. Finding an available PC in the Public Lab during the day is rather difficult. Many graduate students spend many hours in the lab. The NeXT work computers are rarely used—to touched only by fifth-year seniors and by computer science students who still have classes taught using UNIX programming languages. A few students have managed to purchase desktop computers or even laptops, but computer systems have remained too expensive for many.

A few departments have made up for the lack of general computer labs for their students. The mechanical engineering department has the Dynamics Lab which has many PC’s available, although the lab itself is often closed at opportune times. The computer science department has its own small network of workstations. The electrical engineering department purchased Pentium II’s for senior design team’s cubicles in the Dilbert Lab (Moench D115). Other departments have also kept their own computer labs available.

The problem still remains of needing a computer in class. Luckily, this really hasn’t been much of a problem. Professors have been slow to take advantage of using laptops in the classroom. Thus, most classes continue to be taught day-by-day in the same manner they have been through the ages. The appearance of laptops in many classes is limited to their use in video slide presentations. In others its use is more of a nicety than a requirement.

With graduation this May most of the problem of students not having laptops will disappear, but a few lucky students will remain to be the silent minority of laptop-less people on campus. It is bound to be a challenge for them to be surrounded by other students who have access to a computer anytime they want it. It is a great strength of the close nature of our school that will keep this from becoming an insurmountable dilemma.

By Matt Huizing
Left: Dr. Brackin helps students using laptops in the classroom.

Left: Students using their laptops to do homework.

Below: Students work in the union between classes.

Far Below: Senior Chris Wahlman working in the public lab.
Security: Behind Locked Doors

Rose students are probably not appreciative enough of the fine efforts of our security staff to protect us. Most of us probably think of that metal boot that got put on our new Camero when we parked behind Crapo just one too many times, or all those nice yellow tickets we received before that. They also keep us from using our school’s facilities and from attempts to be social outside normal school hours. In their own little way, they make the somewhat painful traditions of late work and antisocialness that much easier to accomplish.

Patrolling through the halls of the academic buildings locking every door is a quiet security man. Passage from the Quad to Skinner is often impossible through Moench Hall at night. The fire doors between halls are also shut and locked... making late morning walks out to the car all that more chilly from the far reaches. Being a careful observer, I discovered that the security officers do not do a very thorough job making sure rooms are empty when locking them. I successfully managed to be locked inside a dark Public Lab on more than one occasion, with only the custodian who cleans Crapo wise to the situation. In previous years the halls were never empty, students would still be there at 4 or 5 in the morning. It wasn’t uncommon for security officers to kick quite a few people out of the NeXT labs in Olin after the 2 a.m. official closing. Now the halls are becoming bare much earlier, with Moench, Hadley, and Olin being completely empty before midnight.

Once one of Rose’s strengths was its open door policy. This applied not only to students’ residence hall rooms, but also to faculty offices and all the campus buildings. The new unspoken policy seems to be “behind locked doors.” Many still feel comfortable keeping their door open at anytime of day or night because they trust the residents of their floor and hall, but the rest of the Rose campus is being shut up. I hope Rose hasn't forever lost the sense of trust and community that was once a strength of this school.

By Matt Huizing
Far left: officer visits with student during rounds in Hadley Hall; Immediate left: the security office's car falls victim to its own wheel lock in Root Quadrangle thanks to some wacky senior pranksters; Below: on patrol at the back of Logan Library.

Far left: checking doors for being locked is an important part of maintaining a secure campus; Immediate left: The home of our security office near the Big Foot gas station
Rose-Hulman abounds with clubs. During Freshman Orientation, there is a "club-fair" during which all the clubs seek to lure prospective freshmen into their organizations. There are so many clubs on campus that many wish they had more time so they could be involved with more of them. So many of them sound interesting, even alluring. However, if all one did was club activities and no school, it wouldn't be possible to be in all of them. Professors urge freshmen to join clubs as part of the "College and Life Skills" class. They tell students that those who do the best are those who are involved in several clubs, but know enough to know when to say no more.

There are all flavors of organizations. Most majors have their own student chapters of professional organizations, and some of them do great things. There are all sorts of sports clubs like roller hockey and volleyball. There are also clubs that meet for entertainment like movie viewing and playing chess. There are service organizations, religious groups, cultural and language oriented clubs, and there are even clubs that put together literature like the *Thorn* and the *Modulus*. Whatever your tastes, whatever your experience levels, whatever your time permits, there is a club for you and you don't need to look very far. And, if by some ill stroke of luck, there is some group that you would really like to be in that is non-existent, all you have to do to bring it into being is find some other interested people, write up a constitution, present it to the board in charge of clubs, and voila! If it passes, you have your own club!!! In short, you have no excuse for boredom here at Rose.

By Susan Howard

Right: Bryan Gill, a proud member of the flying club, shows off his planes.
Left: Brad Bailey promotes the Ultimate Club at the activities fair during the first week of fall quarter.

Left: Peter Anderson analyzing the board during a serious game of chess, sponsored by the chess club.

Below: The roller hockey club plays in the parking lot at night.
Rose-Hulman’s 120th commencement took place Saturday, May 30, 1998, in the college’s Sports and Recreation Center. Indiana Governor Frank O’Bannon delivered the commencement address to almost 300 graduates and their families who packed the field house.

O’Bannon was one of six persons receiving honorary doctorates. Other honorary degree recipients included: Frederick J. Bogardus, retired vice president for academic affairs and dean of the School of Arts and Sciences at Tri-State University; Ernest R. Davidson, distinguished professor of chemistry, Indiana University; Mari Hulman George, chairman of the board and president of Hulman & Company, and chairman of the Indianapolis Motor Speedway Corporation; Robert Steinhauer, head of the Rose-Hulman Department of Mechanical Engineering, Herman Moench Distinguished Professor and professor of mechanical engineering; and Alexander J. Vogl, chairman and chief executive officer, Wilton Corporation.

Patrick Swickard, a mathematics major, received the Heminway Medal awarded to the student with the highest grade-point average. The John T. Royse Award went to Jodi Barcus, a mechanical engineering major, and the Herman A. Moench Distinguished Senior Commendation was awarded to Joshua Horstman, a double major in computer science and mathematics. Carl Abegg, professor of chemical engineering, received the Dean’s Outstanding Teacher Award. The Board of Trustee’s Outstanding Scholar Award went to Robert Houghtalen, associate professor of civil engineering. David Piker, executive director of external affairs, received the President’s Outstanding Service Award.
Left: Bagpipers lead the graduates to commencement ceremonies in the Sports and Recreation Center on their last walk "down the hill" as students

Below: President Hulbert congratulates Heather Marusek upon her graduation

Left: Graduates pay heed to podium speakers prior to receiving their well-deserved diplomas

Above: A view from the Sports and Recreation catwalk shows a sea of mortarboards and gowns surrounded by family and friends.
Fall

What happened in the world and around campus during fall quarter 1997? What were the media cameras focusing on?

In World News, on the the year's biggest stories was the death of Princess Diana. And shortly following that tragic story we could read about the death of Mother Theresa. Many people grieved over these great losses. Possibly, just as many people grieved over the the banning of the diet pill known as Phin-Fin. During the week of October 15th the world lost John Denver to a plane crash. But two happier notes occurred during that same week. A plutonium-powered space shuttle was sent to Saturn, and President Clinton took his first trip to Africa. Coming in at 763 miles per hour, RAF Captain Andy Green broke the sound barrier on land while driving the "Thrust" in Nevada.

In the sports world, the Marlins won the World Series in the 11th inning of game 7. Also, women could be seen as referees in the NBA for the first time.

In local news you could read about the thefts that occurred at the beginning of the year. Two purses and two laptops were stolen from faculty members. Two cars were broken into while sitting in the Speed parking lot. On a bit of a funny note, a janitor's closet door on BSB 2 had to be cut through in order to release a student who managed to get locked in it. As homecoming drew near, most students worked hard to build the bonfire for the upcoming festivities, but a few students found pleasure in destroying it. The bonfire was torn down three times before it was completed. You could find a laser printer in every residence hall this year. On a sad note, two ISU students were killed in a plane crash. Rose opened the festivities for Dad's Day with a showing of "A Black Comedy." To end the quarter, students got to see the groundbreaking for the new research lab building, and they got to say their good-byes to the old commons motif, for a new one was on the way.

by Dawn Griswold

Right: A true team effort made the Homecoming bonfire a reality.
Left: The world mourned the death of Mother Teresa, shown cradling a baby in this photo. (AP Photo)

Left: Princess Diana's funeral procession passes through London's Horse Guard's Parade on its way to Westminster Abbey. (AP Photo)

Below: The 1997 Homecoming bonfire awaits ignition.
In local news during the 1997-1998 Rose-Hulman winter quarter you could read and hear about many activities taking place on campus. Everyone returned from quarter break to see the new design of the Commons. It was quite an interesting change from what we were used to. InterVarsity Christian Fellowship invited everyone to the reinstated “Last Lecture Series.” Dr. Ball was the guest speaker, presenting what he would say if he knew this would be his last lecture ever. There were many things to do on campus during the last week of January. The career fair took place in the auditorium, where many students found summer internships, Co-ops, and permanent employment. Along with the career fair, the Evening with Industry dinner took place. This was an opportunity for students to eat dinner with and talk to employees of some of the companies that would be at the career fair. The winter quarter blood drive took place and records were once again broken. Students had their chance at gambling as Las Vegas night was hosted in the Union. The kickoff of Martin Luther King Jr. activities also began during that week. Later in the quarter, the Society of Women Engineers hosted a Girl Scouts day on campus. The women helped the girls earn some of their badges through engineering skills. Winter quarter ended up with Take 5, SGA elections, Mom’s weekend and the announcement that Dave Purdy would replace the retiring Professor Steinhauser as mechanical engineering department chair. Many interesting activities were taking place outside of the Rose-Hulman campus during winter quarter also. People were shocked as they heard three high school students in Kentucky were shot while attending a prayer meeting. Some people laughed as they heard an Eastern Illinois University student sent a death threat to President Clinton, however Clinton’s staff didn’t chuckle too much as they took action against the student. A week later, we could read about the President and his new dog named Buddy. In Kyoto, Japan, a Climate-Change Conference was held where the US agreed to decrease its CO₂ emissions. As the new year rolled in, so did much sad news. The U.S. mourned the losses of Denver Pyle, Michael Kennedy, and Sonny Bono. The latter two were killed in skiing accidents and many people took care on the slopes after hearing the news. The Pope was a busy man during winter quarter. He visited both Cuba and China this year. As February began, the President proposed the first balanced budget that this country has seen in 30 years. In the sports world, Sewell was suspended by the NBA for one year after he attacked his coach and threatened to kill him. The Broncos won the Super Bowl in 1998, allowing Elway to get his long desired ring. To end winter quarter, many students, and people all around the world, watched the Winter Olympics take place in Japan.

By Dawn Griswold
Far Left: Aaron Abercrombie deals at Las Vegas Night

Left: USA's Angela Ruggiero holds an American flag following her team's gold medal win against Canada in the Winter Olympics (AP Photo)

Left: Students listen carefully as they try to get a job at the career fair

Below: President Clinton and his dog, Buddy (AP Photo)
As spring quarter started, there was some sad news. Jack, the janitor from Speed Hall passed away. The Hulman estate burned down. On a much happier note, the Drama club went to Chicago to watch "Beauty and the Beast" and "Rent." Ryan Loftus, Philip Reksel, and Sean Valentine received many congratulations as they returned from their track successes. The spring blood drive finished up the year with a record-breaking amount donated for the year. The Kids Fest was held in the SRC. Comedian Mike Rayburn was on campus to help us smile. Then, the middle of the quarter hit, and so did some strange occurrences. Three wallets were stolen from Moench Hall and a Rose student was arrested for throwing a pipe bomb into a car. The Rose Ultimate Club held the Dirty Sock tournament on campus. The students and faculty mourned the death of Mary Hulman. During 6th week, campus beautification took place and the Amateur Talent Night/Fashion Show also occurred. The spring musical, "Some Like it Hot," was performed for all to enjoy. During 7th week many military vehicles could be seen on the front lawn. The Terre Haute Crossroads Arts Festival took place downtown. A group of senior mechanical engineering students were featured on the front page of the "Tribune Star" for their senior design project. And to close off spring quarter, everyone enjoyed graduation ceremonies.

Outside of Terre Haute there were many exciting things going on during spring quarter. The Pathfinder was found dead on Mars. The movie "Titanic" made huge amounts of money and received many awards for its dramatic look at what happened so many years ago. The University of Kentucky received many cheers from their basketball fans as they won the NCAA championship. Many people chuckled as Bill Gates demonstrated Windows 98 and got a fatal error blue screen on national television. The world mourned the death of Linda McCartney, and they sat in shock as they listened to the news of a teacher that was shot by an 8th grade student at a school dance in Pennsylvania. As the year concluded, India began testing nuclear weapons underground. This led to neighboring countries performing tests also. Even though the year is over, the news continues.

by Dawn Griswold
Bottom left: Leonardo DiCaprio and Kate Winslet portray passengers in the box office blockbuster "Titanic". (AP Photo)

Left: Graduates make their final trip together down the hill from Moench Hall to the Sports and Recreation Center to receive their diplomas during Commencement '98.

Left: Talent Night brings out the best in our students.

Below: Microsoft Chairman Bill Gates demonstrates Windows 98 with the aid of a backup system after the main computer crashed. (AP Photo)
The Chemical Engineering Department welcomed Dr. Hossein Hariri as the new department head, although the debate is still ongoing whether the end of the tradition of “grouchiness” established by former heads Drs. Hite and Moore is also welcome.

More students visited the web sites of Drs. Bill Baratuci and Jerry Caskey as they continue to effectively weave and expand their web coverage over Material and Energy Balances and Materials Science courses. However, it seems that Dr. Baratuci, himself, has been caught by his fiancée’s web site in Seattle (the after effect of his sabbatical in Washington State last year) and will leave us to marry and live there.

As for web sites, this is not all. Dr. Carolyn Lee also has been caught by her fiancé’s web site in Boston and will leave us. Therefore, we will see a major change in the department as Dr. Moore, who is retiring, and Drs. Baratuci and Lee will be replaced by new faces.

The co-op program is growing in the department. Twelve students have tentative plans to co-op which is more than double compared to the previous year.

We started an ambitious curriculum revision plan in our department this year which is expected to be completed in two years.
Left: Junior Matt Talbert monitors his liquid flow.
Below: Juniors Andy Grahn and Amy Gainey pump things up in the unit operations laboratory.
Far Below: Juniors Daniel Hohne and Michael Grogg try and stir things up in order to transfer a little heat.
This has been another year of growth and progress for the Department of Chemistry and Life Sciences. Professor Richard Anthony joined our faculty as an Assistant Professor of Life Sciences. Dr. Anthony is eager to develop new programs and courses for biology and is already actively working with students interested in medical school for their post-baccalaureate study. Bolstered by a modest donation from the Pharmacia and UpJohn Co., we are excited about the future of activities in biology and biochemistry. Dr. McLean is on sabbatical this year, teaching at Bradley University in Peoria, Illinois.

The American Chemical Society has renewed the certification of our program; the degree we offer for the bachelor's in chemistry has been certified continuously since its inception. Finally, we are pleased to report that all eight of our 1997 May graduates are either in graduate school or employed and we are confident that the same good fortune will prevail for this year's graduates.

Standing (L to R): Dr. Mark Ball (Associate Professor), Ms. Karen Syrovatka (Purchasing Technician), Dr. Dennis Lewis (Professor), Dr. Richard Anthony (Assistant Professor), Dr. David Erwin (Associate Professor), Dr. Michael Mueller (Associate Professor), Dr. Daniel Morris, Jr. (Assistant Professor), Dr. Martin Jacobs (Visiting Professor).

Seated (L to R): Dr. Luanne Tilstra (Assistant Professor), Dr. Rita Hessley (Department Head), Dr. Edward Mottel (Associate Professor), Dr. Bruce Allison (Professor), Mrs. Marolyn Nees (Secretary).

Aaron Holder is heating things up in organic chemistry.
Above: Sophomores William Wilson and Neil McCracken make sure they're following organic protocol.

Left: Freshman David McKinney tries to make sure his product doesn't fall into the rotary evaporator's bath!

Left: Dr. Erwin looks on as his proteges, juniors Liza Saunders and Stephen McIrvin along with senior David Wallace, try and master the inorganics of chemistry.
For the Civil Engineering Department, the 1997-98 academic year was one of significant change. Following the sudden loss of Dr. Lobo in May, the department conducted a search for a new professor. We are pleased to welcome Kevin Sutterer, from the University of Kentucky. He has distinguished himself as a teacher, having received the Young Engineer of the Year award in 1996 from the National Society of Professional Engineers and a Chi Epsilon (civil Honorary) award. We also give our thanks to Mr. Charles Ennis of Terre Haute, who stepped in to teach Mechanics of Materials this winter quarter, and Mark Killion, who taught Foundation Engineering.

In other news, we are proud to revive the tradition of the Civil Colloquium, our quarterly lecture on topics of civil engineering interest, co-sponsored by the Cecil T. Lobo Student Chapter of the American Society of Civil Engineers. In the winter, our students were introduced to Geographic Information Systems, while alumnus David Reynolds presented the spring quarter’s lecture. This spring Dave Reynolds also gave a presentation on career paths for Civil Engineers.
Above: Dr. McKinney and K. Royer oversee the work on the memorial to Dr. Cecil Lobo.

Left: Dr. Lobo's sons, Colin and Trevor Lobo, prepare for the unveiling of the plaque commemorating the memorial to Dr. Cecil Lobo.

Below: Will this cement bar hold up under pressure?
As the year 2000 looms ever nearer, the computer science department is being buffeted by a growing demand for computer professionals. "Y2K" problems have been constantly in the news. The constant publicity concerning the shortage of computing personnel has resulted in a rapid and significant increase in the number of computer science majors.

The department now has six full-time faculty. Even with this expansion there have been difficulties scheduling courses. Some classes have been larger than desirable, and some students have had to delay taking certain courses. Most of the problems have been solved without too much pain, primarily because of a significant amount of cooperation and understanding from the computer science majors.

Senior majors have been in the fortunate position of having almost unlimited plant trips while good summer internship positions seem to be readily available for the underclassmen.

The curriculum has seen some minor changes this year. The computer Architecture I course (CS232) is finally in its new state with all students having the desired prerequisite of EC130 (Logic Design). Rimli Sengupta has developed a final project for this course that has challenged and excited many of the students.

This year also saw changes in the computer languages used in two courses. Claude Anderson used Java in the Data Structures course and Cary Laxer used C++ in the File Structures course. These language changes are possible in part because of the laptop computers that students now use. The changes will help computer science majors acquire marketable skills while learning fundamental concepts of computer science.

Next year the department will continue to struggle with the problem of growing enrollments. New software tools will inevitably influence the content of some of our courses. Change will accelerate and excitement will continue.
Above: Pete Sargent, Craig Bloomer, Marsha Bergh and Trish Nordmeyer work diligently on their CS 100 lab.

Left: Jason Walker, Barry Templin and Jason Fox try and make the Simon Project work in CS 100.

Neal Kuenne, Chris Cole, Jason Kray and Karen Moore are working hard to finish up their labs.
This year has been an exciting and productive year for the Department of Electrical & Computer Engineering (ECE). Of notable interest is the presence of Dr. Fred Berry as the interim ECE department head since Dr. Barry Farbrother was promoted to be the interim vice-president of academic affairs and Dean of Faculty. Dr. Farbrother took this post to replace Dr. Eifert who took a sabbatical this year. Several faculty of the ECE department are also on sabbatical. Dr. David Voltmer began his sabbatical in the spring quarter, and Dr. Frank Acker took off in the fall and spring.

On the campus front, the Solar Phantom IV, under the guidance of Dr. William Eccles, began the new year by finishing fifth in Sunrayce 97. The spectacular result helped to solidify Rose-Hulman as one of the best engineering schools.

Publication was also a strong theme among our ECE professors. Dr. Niusha Rostamkolai co-authored a paper and was asked to write an article for John Wiley & Sons’ 24-volume Encyclopedia of Electrical and Electronic Engineering. Dr. Jeffrey Froyd helped author the application to TIAA-CREF thus enabling Rose to be selected for a 1997 Hesburgh Award Certificate of Excellence. Dr. Froyd also presented papers on IFYCSEM and competency-based grading. Dr. Eccles wrote two texts for EC 200 and EC 300. Dr. Edward Doering presented a paper at the ASEE Frontiers in Education Conference and a software review for the IEEE Spectrum. Even Dr. Acker plans to write a textbook on fuzzy controls during his sabbatical.

Aside from publication, the ECE professors continued to represent Rose-Hulman in the spirit of excellence through awards, community service and exceptional commitment to education such as their continued support of the Foundation Coalition. The ECE department looks forward to more years like this year.

By Vu Thu Pham
Above: Kevin Kayser sits in his senior EE lab wondering what time Anamaniacs comes on.

Left: Dr. Dan Moore gives senior David Harms a couple of tips.
The Department of Humanities and Social Sciences continues on its road towards excellence. This year we are implementing a new curriculum that was developed by the faculty after more than one year of deliberations, and benchmarking programs at other institutions. The new curriculum has been well received by both students and other departments.

Our faculty continues to make great contributions by keeping themselves very active in service, teaching, and professional development. This year we had a new addition to our faculty. Professor Antonio de la Cova joined us as an Assistant Professor of Latin American Studies. In addition to all of our other accomplishments this year, the department started a chapter of the Sigma Delta Pi Hispanic Honorary Society.

Above: Dr. Harmening takes a break from his day job to teach Freshman Composition.

Right: Professor Thad Smith makes a point in his international relations class.
Below: Dr. Parshall's creative writing class takes advantage of the nice weather to spend some time in the new Japanese garden in the Olin courtyard. Clockwise from top: Dr. Peter Parshall, Caleb Coburn, Libby Henthorne, Michael Garrison, Matt Huizing, Kurtis Kuebel, Tonya Cole.

Left: Professor Julia Williams distributes papers during one of her fall quarter classes.
The Math department has two new members this year. Dr. Rader hails from Rutgers University while Dr. Matthew Hopkins comes from Tulane University. We also have two faculty members on sabbatical. John Rickert is at Pennsylvania State and Roger Lautzenheiser is in Japan. Steve Carlson returned from his sabbatical at Indiana University where he completed a topology textbook.

Third Row (L-R): Kurt Bryan, Yosi Shibberu, Gary Sherman, George Berzsenyi.
Second Row (L-R): Elton Graves, Steve Carlson, David Rader.
Front Row (L-R): Allen Broughton, Aaron Klebanoff, Cheryl Dodd (secretary), Lynn Kiaer.
Not Pictured: Robert Lopez, Ralph Grimaldi, Roger Lautzenheiser (sabbatical), John Rickert (sabbatical).
Professor Aaron Klebanoff discusses the many interesting images that can be generated through mathematics.

Below: Professor Kurt Bryan takes it to the board for this freshman math class.

Left: Professor Elton Graves shares some office instruction with Sanga Coulibaly.
This year marked a significant change in the annals of Mechanical Engineering and Rose-Hulman. A longtime, highly respected teacher and head of the department, and Distinguished Herman Moench Professor of Mechanical Engineering, Robert Steinhauser, has announced that he will retire at the end of the 1997-98 academic year. Since 1957, Professor Steinhauser has challenged and engaged Rose students in and out of the classroom with his practical insight, clear instruction, and concern for their general well-being. Many students will long remember a visit to his office where Dr. Steinhauser showed genuine interest for them and their concerns as he looked them in the eye while chewing on one of his favorite cigars. At homecoming Professor Steinhauser was a celebrity, sought after by enthusiastic fans. Rose alumni would seek an opportunity to share a word with their former instructor, mentor and friend only to find that they were one of many who had a similar idea. It is a wonder that he made it on time to the homecoming football game where he operated the scoreboard.

The departmental photograph illustrates the sentiment of the faculty and staff as they are dressed in black to mourn the loss of their dear departing captain. Professor Steinhauser shares a glimpse of his future with a golf cap adorned with a cigar carrying tube, a shirt depicting thoughts of a south seas adventure, and golf club in hand. As a professor, colleague, confidant and friend, he will be sorely missed.

Right: Freshman Braden Hudson machines a part.
Above: Sophomores Severin Kempf and Adam Morrison heat things up in the machine lab.

Left: Dr. Patsy Brackin explains the finer points of using Working Model to Sophomore Matt Comer.

Below: Students make full use of the tools in the Dynamics Lab.
The 1997/1998 school year brought many new faces to the Physics and Applied Optics faculty. The department has two new professors and two visiting professors. Dr. John Koshel came from his position at the National Institute of Standards and Technology. Dr. John Sharpe came from California Polytechnic State University. In addition, Dr. Minella Alacron (on leave from Ateneo de Manila University) and Dr. Nilgun Sungar (on leave from California Polytechnic State University) also served on this year's faculty.

Above: Sophomores Mark Guildersleeve and Ryan Zuricki fudge a little data to make sure they get it right.

Right: Dr. Danner discusses the principles of superposition with Mike Ritter and Julie Brinson.
Above: Sophomores Derek Plote, Mike Ritter, and Jason Moss work diligently on their Physics II Lab.

Left: Sophomore Julie Brinson gets really excited about applying optics with fellow sophomore Frisco Schlottau.
The 97-98 year (AY 97/98) has been a busy and successful one for Det 218. Two cadets have been selected to participate in an authorized period of nonattendance (PNA) so they can work in a co-op program. Junior Cadet Matthew Toppin left in March to work at Intel Corporation in Phoenix. He will return to Rose-Hulman in December '98. Sophomore Cadet Robert Settle begins a coop at the Central Intelligence Agency (CIA) on September 1, 1998. He will return to school on March 1, 1999.

All nine sophomore cadets (Chase Anderson, Nicholas Bianchi, Matthew Clausen, Kimberly Hoss, Trevor Jones, Hannah Rumpf, Jennifer Schwartz, Robert Settle, and Curtis Stutz) have been selected for field training encampment. Successful completion of field training is a prerequisite to entering the Professional Officer Course and assuming leadership positions within the cadet organization.

Other cadets in the news: All three junior cadets who applied (Paul Edwards, Chris King, and Aaron Reifsnyder) were selected for a pilot slot upon graduation. An addition, Chris King was selected for the Office of Special Investigations (OSI) Summer Intern Program, which is a precursor to being selected to this field. Aaron Reifsnyder will be going to Spangdahlem AB, Germany for the Operation Air Force Program. Dustin Richards and Edward Stapanon will be participating in the SOAR (Glider Flying) Program at the US Air Force Academy while Stephen Huwe will be going to Operation Air Force - Research and Development at Kirtland AFB, NM.

Freshman Cadet Edward Stapanon was selected to receive a three-year scholarship and senior Eric Ellis was picked by Lt. Col. Ourand to be the Outstanding Cadet for AY 97/98. Eric served as the cadet corps wing commander during fall 97 and was instrumental in planning the February 6 Joint Military
Above: Cadets test their skills during a Warrior Knowledge Bowl.

Left: Senior Cadet Colonel Eric Ellis (Fall '97 Cadet Wing Commander) shows off his fatigues.
This has been an exciting year for the students and cadre at the "Wabash Battalion!" The cadre performed the critical missions of scooping for the "Ice Cream Social" and handing out watermelons during the "Watermelon Bust." The students were not as adventurous and settled for a canoe trip and party at Turkey Run State Park, rappelling down the wall at the State Penitentiary, assaulting obstacles with grenades and machine guns during our weekend training "FTX," not to mention our freshmen assaulted each other with a stockpile of water guns, balloons, and other weapons of war during "Capture the Flag." The end of the year finds our seniors traveling to the far corners of the world and Indiana as they go on to missions as officers in the Regular and Reserve Forces. This year's senior class has been remarkably talented and will be missed by the cadre. The new generations of Rose-Hulman ROTC seem equally up to the challenge and we are excited about their great potential and future as Rose-Hulman helps to build the Officer Corps of the 21st Century!

Above: Captain Linton teaches class.

Right: Gary Pool gives a "Thumbs Up" during the Land Navigation Course.
Above: Teamwork gets you through (or over) any obstacle.

Above: Bill Middendorf: "Armed and Dangerous".

Below: Chad Mobley explains the advantages of a machine gun over a computer.
The Mortar of Rose

Right: Dr. Samuel Hulbert - President.

Far Right: Linda Gilbert - Assistant to the President

External & Alumni Affairs
Back Row (L-R): Darin Bryan, Dave Piker, Dale Long, Bryan Taylor

Front Row (L-R): Donna Burns, Tony Wellings, Bettie Evinger

Registrar's Office
(L-R) Jan Lind, Lou Harmening, Phyllis Phegley
Student Affairs and Financial Aid
Back Row (L-R) Pete Gustafson, Kathy Gambill, Dr. Jess Lucas, Luanne Hastings, Bill Benedict, Jill Mishler.
Front Row (L-R) Tom Miller, Karen DeGrange, Darin Greggs, Kim Jones.

Dean's Office
Dr. Farbrother and Diann Ringo.

Administrative Services
Back Row (L-R) Jay Thivener, Jack Bagley, Jim Koutsoumpas, Steve Cox.
Front Row (L-R) Pat Jefferies, Jill Greenwood, Susan Butts.
Staff

The Mortar of Rose

Near Right:
Human Resources
(L-R) Kim Miller, Annette Brainard

Far Right:
Bookstore
(L-R) Anita Creasey, Sheryl Fulk, Mary Knust

Development Office
Back Row (L-R) Janet Newman,
Carol Wetherell, Billie Holechko,
Teresa Goddard, Karen O'Rourke, Shirley Drake
Front Row (L-R) Don Ragsdale,
Darrell Loyless, Dick Boyce, Phil Purcell

Waters Computing Center Crew
Back Row (L-R) Mary Anne Pierce,
Jeff Davidson, Bill Benedict, Mark Fyffe, Mike Allard, Darren Peterson, A.T. Roper
Front Row (L-R) Troy Timberman, Kevin Davidson,
Robert Slover, Dan Pigg, Lisa Richey, Kevin Caskey, Barbara Myers,
Lans Carstensen, Nancy Bauer, Chad Wilson
ARAMark Services
Back Row (L - R) Pat Kelly, Mark Farner, Will Wynn, Tony Johnson, Dave Hart.
Middle Row (L - R) Christine New, Mary Ann Criss, Christine Wilson, Karen Wahl, Annette Black, Sharon Ardell, Mary Phillips.
Front Row (L - R) Sheila Benson, Mariah Utter, Maria White, Kathy Cunningham.

Admissions Office
(L-R) Charles Howard, James Goecker, Brian Dyer, Timothy Prickel.

Far Left:
Hulman Union Office
(L - R) Sandy Keaton, Christina Toth, Donna Gustafson.

Near Left:
Graduate Studies
(L-R) Buck Brown, Menka Neal, Buck Brown, Jr.
Staff

The Mortar of Rose

Near Right:
Art Curator
Marjorie "Polly" Seamon.

Far Right:
Health Services
(L-R) Dr. John Freed, Cheryl Burgess, R.N., Dr. William Bannon.

Career Services
(L-R) Sonnie Hill, Bill Lindstaedt, Jan Ford, Arleen Anderson.

Library
(L-R) Amy Harshbarger, John Robson, Dong Zhao, Jan Jerrell.
Business Office
Back Row (L-R) Rob Coons (Assistant Vice President & Controller), Jana Grimes (Financial Services Coordinator), Kelly Henson (Student Financial Services Coordinator), Luahna Winningham (Assistant to the Vice President), Betty Miner (Administrative Programmer), Betty Dyer (Accounting Services Clerk), Dave Hahn (Assistant Controller), Roger Fecher (Vice President for Business & Finance).
Front Row (L-R) Mary Lou Trego (Staff Accountant), Phyllis Proctor (Administrative Assistant to the Controller), Robin McClintock (Student Financial Services Assistant), Connie Bell (Student Accounting Services Clerk), Danielle Helt (Director of Sponsored Programs).

Facilities Department
Back Row (L-R) Paul Wafzig, Mike Knust, Gary Sanders, Ron Hicks, Al Donnelly, Duane Strauch, Bill Wineinger, Harry Gordon, George Caughlan, Matt Pink, Mark Dodd, Donna McAllister, Walt Ellis.
Fifth Row: Judy Kelley, Lucy Strauch, Pat Harper, Frances Eggers, Bill Lawson.
Fourth Row: Richard Mott, Cindy Smith, Andy Baughman, Tom Liebert.
Third Row: Terri Moscan, Cindy Wampler, Elaine Lee, Doug Butrum, Gerald Hartsock.
Second Row: Tony Snow, Tom Thompson, Rick Alumbaugh.
Front Row (L-R): Julie Lunsford, Dave (Scotty) Roy, Helen Backfish, Dean Murphy, Wayne Spary.

Student Counseling Services
Kevin Ericson, Julie Lash.
The 1997 season proved to be another successful year for the Fighting Engineer football team. They opened with the Hall of Fame game versus the University of the South. After battling back and forth for the lead, the University of the South was barely able to edge by the Engineers 20-17 on a fourth-quarter field goal. Next, the team travelled to Jackson, Mississippi, to take on Millsaps College. They blew past Millsaps 37-17, earning their first victory of the season and evening their record to 1-1. The Engineers then battled the University of Chicago in the annual Homecoming Game. Despite the overwhelming Rose Pride that the University of Chicago faced, they were able to overcome the Engineers, 14-16, again on a fourth-quarter score. Rose's losing streak was extended by two more games with losses to Wabash College, 14-35, and Anderson University, 10-24, during the next two weeks. Finally, the Engineers managed to snap their losing streak by narrowly defeating Manchester College, 29-28. Rose took the lead 29-22 with only 1:35 left in the game, but Manchester answered with a touchdown to cut the gap to one. The Engineers' defense held strong, stopping Manchester's two-point conversion attempt to preserve the win. The team then faced another tough loss to DePauw University, 14-17, falling to a 1-3 conference record. The next week, the Engineers celebrated Dad's Day with a 22-6 victory over Franklin College. After a close first half, Rose broke the game open with 16 unanswered points in the second half, and Franklin never recovered. The Engineers finished their conference play with a 20-47 loss against undefeated Hanover. For their final game of the season, the Engineers travelled to St. Louis, Missouri, to battle Washington University. Washington defeated Rose 21-0. Overall, the Engineers earned a record of 3-7, going 2-4 in their conference.

by Jessica Huggins
Jeremy Sewell and Jon Hulsman leap into the air to block their opponent's pass attempt.

Rose defender Clinton Sharpe rushes the quarterback, forcing an off-the-mark throw.

Eric Hyten dodges another tackle to pick up a few more yards.

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<td>L, 14-17</td>
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<td>L, 14-16</td>
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<td>W, 22-6</td>
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<td>Hanover College</td>
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<tr>
<td>Anderson University</td>
<td>L, 10-24</td>
<td>Washington University</td>
<td>L, 0-21</td>
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The 1997 season was very exciting for the Rose-Hulman soccer team. The Engineers opened their season with a close loss to Purdue, 4-3. They were then defeated by Grace College by a score of 2-1. After finishing fourth in the Anderson Invitational, the Engineers fell to Baldwin-Wallace, 2-1, and Earlham, 2-0. Rose snapped its five-game losing streak with a 5-1 victory over Millikin in its season home opener. Next the Engineers traveled to Elsah, Illinois, where they suffered tough losses against Fontbonne, 2-0 and Principia, 1-0. Back at home, the Engineers shut out Marian College 5-0, recording their first shutout of the season. They then suffered another tough loss to MacMurray College, 2-1, in overtime. In their next conference game, the Engineers exploded into school history by defeating Franklin College 13-0. They shattered the single-game record for goals, which had been seven. In addition, senior Bo Fowler tied the single-game record for assists with three. Four Engineers, sophomores Keoni Sundseth and Neil Kaszubski, freshman Kyle Kindle, and senior Chad Minor, scored two goals each, and goalkeepers junior Matt Toppin and senior Cory Willis combined for their second shutout of the season. The team evened its conference record to 1-1 with a 1-0 overtime loss to Anderson College. They then encountered a difficult stretch, losing three consecutive games to Hanover, 3-2, Wabash, 1-0 in overtime, and Grace College, 1-0, before snapping their losing streak with a 3-1 win over Blackburn College. The Engineers fell to DePauw, 3-0, then wrapped up the regular season with a 1-1 tie with Manchester. Rose opened post-season play against second-seeded Anderson University. The Engineers blanked the Ravens, 1-0, advancing to the semifinal round of the ICAC playoffs to face Wabash College. The Engineers' season ended with a 2-1 loss to Wabash. The Engineers finished their season with a 5-13-1 overall record, 1-4-1 in their conference.

by Jessica Huggins
Keoni Sundseth aims for one of his two goals in the game against Franklin. The Engineers' 13-0 victory set a school record for the most goals scored in a single game.

Senior Engineer Chad Minor draws in the defense before passing the ball to an open teammate for an easy goal.

Mike Schreifels races after the ball, trying to keep it away from his opponents.

<table>
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<tr>
<th>Scores</th>
<th>Team 1</th>
<th>Team 2</th>
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<td>DePauw University</td>
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<td>Hanover College</td>
<td>L, 2-3</td>
<td>Wabash College</td>
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<td>Fontbonne</td>
<td>L, 0-2</td>
<td>Wabash College</td>
<td>L, 0-1</td>
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</tbody>
</table>
Volleyball

Hours of hard practice and teamwork helped to make this year’s women’s volleyball team so successful. The Fighting Engineers improved on the previous season, posting an overall record of 11-18, 1-4 in their conference. The volleyball team had seven returnees, six freshmen, and no seniors, making the team very young. They were commanded by second-year head coach Brenda Davis and first-year assistant coach Jessica Cunningham. The Engineers showed their opponents that even with such a young team they were not intimidated. They started the season with the exciting Hanover Invitational, where they posted two quick wins over Olivet and DePauw, earning fourth place. The team then earned consecutive wins over Lincoln Christian and Wilmington before falling to IU Southeast and U. of Indianapolis. They defeated Brescia, but then dropped three tough losses to Marian College, St. Joseph’s, and Oakland City. The Engineers outplayed Earlham, but then lost to DePauw and Anderson. Next Rose shut out Oakland City and defeated Franklin. Then the Engineers hit a slump, losing to Hanover, Indiana Wesleyan, St. Mary’s, and Elmhurst. They took their next three games, defeating North Park, Robert Morris, and Brescia. The team concluded its season with losses to IUPUI, Spaulding, and DePauw. During the season, Hulbert Arena opened with the first Rose-Hulman Invitational. The team hosted eight competitive teams and a huge crowd of exciting fans. The Engineers earned fourth place in the tournament. Hulbert Arena also hosted the ICAC tournament. This was the first and the last time for Rose-Hulman volleyball to get this honor because of the move to the Southern Collegiate Athletic Conference next year. Another major obstacle the volleyball team faced was the plague of injuries which caused changes in the lineup throughout the season. Despite youth and injury, the volleyball team obtained a respectable record, only to be improved upon next year.

by Christine Trossman
Coach Davis gives her team a pep talk before the first game of their home invitational, the first sporting event to be held in the Hulbert Arena.

The volleyball team shows their Rose Pride at the Homecoming pep rally.

All eyes are on Kate Buchanan as she sends the ball sailing into her opponent's court.
Cross Country

Balance was a key element for the men and women's cross country teams in the 1997 season. The addition of thirteen new runners to the teams, combined with the experience of thirteen returning veterans, provided the Engineers with a nice balance of experience and new talent.

In their third year as a team, the women saw the size of their team increase to twelve runners. Led by co-captains Liza Saunders and Bessie Fulk, the team opened the season at the University of the South Classic where they finished fifth. Next they competed in the Hanover Invitational, earning tenth place. At the Principia Invitational, the women earned an impressive fourth place. The biggest highlight of the season was on Homecoming, when the Engineers defeated Vincennes 16-24, earning their first win in school history. They then placed fourth in the Oakland Invitational. In the Little State Invitational, the men also braved the horrible weather conditions to earn a sixteen-place finish. They concluded their season with a seventh-place finish at the ICAC Championship meet.

The outlook for both the men's and women's cross country teams is very optimistic. With the majority of the runners returning next year, they should find themselves with a season even more successful than this year.

by Jessica Huggins

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Maggie Boozer paces herself, carefully planning the perfect time to pass her opponent.

Women's Cross Country ROW
1: A. Swistek, A. Tews, J. Pierce, Z. Christenson, P. Cunnington.
ROW 2: M. Boozer, M. May, B. Fulk, H. Rumpf, Coach Carrick.

---

Rose-Hulman at the Bird-Gibson Course, the Engineers earned eighteenth place, despite running in the frigid, snowy weather. The team concluded its season with a sixth-place finish in the ICAC Championship Meet.

The men's team had an equally successful season. They opened the year with an eighth-place finish at the Hanover Invitational, followed by a third-place finish at the Principia Invitational. In their annual Homecoming meet, the Engineers blew out Vincennes 19-42. Next, they travelled to Atlanta, Georgia, to compete in the Oglethorpe Invitational, where they earned fifth place. In the Little State Invitational, the men also braved the horrible weather conditions to earn a sixteen-place finish. They concluded their season with a seventh-place finish at the ICAC Championship meet.

The outlook for both the men's and women's cross country teams is very optimistic. With the majority of the runners returning next year, they should find themselves with a season even more successful than this year.

by Jessica Huggins
Bessie Fulk leads the pack enroute to another first-place victory.


Kyle Smith bears the mud, snow, and frigid temperatures to help the Engineers in the Little State Invitational.

<table>
<thead>
<tr>
<th>WOMEN</th>
<th>MEN</th>
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<tr>
<td>Southern Indiana Classic</td>
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<td>W, 16-24</td>
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<td>16TH PLACE</td>
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<td>4TH PLACE</td>
<td>ICAC Championship</td>
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<tr>
<td>Little State Invitational</td>
<td>7TH PLACE</td>
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<tr>
<td>18TH PLACE</td>
<td></td>
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<tr>
<td>ICAC Championship</td>
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</table>
Women's Tennis

The 1997 women's tennis team found a new home at Rea Park this year. The lack of "homecourt" advantage made no difference though, as they broke into the winning column for the first time this season. Seven players returned from the inaugural season to provide great team leadership. The addition of two new players allowed coach Dan Hopkins more versatility in the line-up and gave the players a chance to work at different positions.

The team's first victory was a 5-4 match against Olney Central College. Wins came from junior Becky Smith at #2 singles, sophomore Christine Winters at #3 singles, sophomore Sarah Wruck at #4 singles, and Smith and Wruck at #2 doubles. With the match tied 4-4, juniors Becky Schenk and Cathy Francis pulled out a victory at #3 doubles for the match. The win could have come from hard work and dedication, but the players know it was the white squirrel sighting and the hamster wheel warm-up that did it all.

Team work and dedication brought many key victories during the season. At the Engineer's Invitational, Francis and Schenk came in first place at #2 doubles and Smith and Wruck came in second place at #1 doubles. Francis and Schenk defeated Hanover at #3 doubles during the first round of the ICAC Conference Tournament as well as during the regular season. Smith and Wruck also defeated Hanover at #2 doubles during a consolation match at the conference tournament. During the last match of the season, the #1 doubles team of junior Marcie Kam and Christine Winters defeated NCAA Division II IUPUI.

At the Fall Sports Award Banquet Marci Kam received the award for top singles player and partners Becky Smith and Sarah Wruck received recognition for the top doubles team. Becky Smith received the Most Valuable Player Award, Becky Schenk received the Mental Attitude Award, and Amy Hentz received the Outstanding Freshman Award. Cathy Francis was honored with the Most Improved Player Award, the Beverly Pleus Sportmanship Award, a sportmanship award given each year to a player who exemplifies what Bev Pleus was to the tennis community and women's athletics in Terre Haute. --by Becky Smith
Women's Tennis Restaurant Review

<table>
<thead>
<tr>
<th>Restaurant</th>
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</tr>
<tr>
<td>Subway</td>
<td>★★★★</td>
<td>★★★★★</td>
</tr>
<tr>
<td>Shyler’s</td>
<td>★★★★</td>
<td>★★★★★</td>
</tr>
<tr>
<td>King Fish</td>
<td>★★★★</td>
<td>★★★★★</td>
</tr>
<tr>
<td>Cracker Barrel</td>
<td>★★★★</td>
<td>★★★★★</td>
</tr>
</tbody>
</table>

★★★★★ = Excellent ★★★★ = Good ★★★ = Okay ★★ = Poor

The doubles team warms up by practicing their backhands before the match.
Cathy Francis serves another ace to defeat her opponent.
Men's Basketball

The '97-98 Rose-Hulman men's basketball season was one of ups and downs. From last second defeats to buzzer-beating wins, the ride through the season paralleled that of a roller coaster.

The season got under way with many expectations for the Engineers. Coming off back-to-back NCAA tournament appearances in '96 and '97, the team had its sights set on the tournament once again. The first basketball game in Hulbert Arena was played on Dec. 4 in the Rose-Hulman Invitational. Rose ended the home stand on Dec 17 with a thrilling last second three-pointer by Joe Puthoff to defeat Illinois Wesleyan, the defending national champions. The next stop for the Engineers was the Defiance tournament. This unique tournament was held in Defiance, Ohio, where the players stayed in homes of local Defiance alumni. Head Coach Jim Shaw says, "It was a unique experience that was a lot of fun for the players."

However, the contrast of high and lows continued. The Engineers lost both tournament games and the season of sophomore point guard Patrick Grace ended with a broken hand.

The squad then entered conference season with the worst record in the league. However, the Engineer's boasted one of the toughest schedules in the nation. Early during the conference season, Coach Shaw introduced his fourth and final starting lineup. From there, the team improved and finished tied for third with Manchester in the conference. Rose finished 7-5 in conference play including two buzzer-beating wins. In the road game against Hanover, Joe Puthoff added to his season heroics by hitting a three pointer in the final ticks of overtime to give the engineers a 63-60 win against the Panthers. Sophomore Jason Kaiser hit a short jumper in a road game against Manchester as the buzzer sounded. What many people call the "shot heard 'round the ICAC," gave the Engineers their first win at Manchester since 1990.

The Engineers entered the ICAC tournament with a record of 13-11. They lost in the first round of the tournament which ended the disappointing season. However, the season did have many accomplishments. The Engineers posted a winning season for the fourth straight year. Junior Bryan Egli became the first Rose-Hulman player to ever lead the league in scoring. He was also named to the All-District team. Junior Sam Johnson was named to the all ICAC team with Egli, and Puthoff was named honorable mention. Sophomore Chris Meredith set a school and ICAC record in blocks on his way to leading the league in the category.

The Engineers now look to the off season to improve. The players are determined to get better and they like their chances for next year. Senior Matt Millington commented, "From October to March, you get better as a team. But from April to September, you get better individually." The team is losing valuable experience in seniors Todd Burch and Joel Janson. However, all five starters return as well as key contributors off the bench. Coach Shaw agrees, "We return several players that have played a lot of minutes. But more importantly, there are many players that want a lot of minutes." With renewed hunger to get back to the NCAA tournament and plenty of experience to call upon, the '98-99 Rose-Hulman basketball season will be one to remember.

--by Patrick Grace and Michael Harris
As seconds ticked off the clock, Joe Puthoff pushed the ball up the court and hit a three at the buzzer to give the Engineers the victory over Illinois Wesleyan.

Mike Harris looks for the last break against Cal Tech in the first game held in Hulbert Arena.

Josh Williford leaps over his opponent to hit the short fade-away from the block.
The 1997-98 season was very difficult for the Rose-Hulman Women's Basketball team. Despite encountering many difficult obstacles in their third season, the Lady Engineers still had a record-breaking season. The team started off the season with high expectations. Its nucleus was a group of six returning letter winners, four of whom were members of the inaugural team in 1994. In addition, the Engineers had a strong group of four newcomers, all ready to face the challenges of college basketball. Under the direction of new head coach Brenda Davis and assistant coach Jessica Cunningham, the team was very optimistic about the upcoming season.

The Engineers opened the season with a road trip to Pittsburgh, Pennsylvania, where they were defeated by Carnegie Mellon and Marietta in the Carnegie Mellon Tip-off Tournament. They earned their first win of the season on the same road trip by defeating Chatham College 75-32. Back in Indiana, the team was defeated by Earlham, but then rebounded to top IU East 75-23. Next the Engineers faced their archrival, the St. Mary-of-the-Woods Pomeroyos. Battling for the new and improved Clabber Girl Trophy, the Engineers traveled to St. Mary's for the annual grudge match. Despite playing their best game of the season, the Pomeroyos narrowly defeated the Engineers 78-82. Rose set a new school record for most points scored in a game with 78. The Engineers rebounded and opened their home season with a win over Cal Tech in the first round of the Sam Hulbert Invitational. This game was also historic for the team. They recorded their first win in the new Hulbert Arena, broke the record for most wins in school history with three, and reached the championship game of a tournament for the first time. Unfortunately for the Lady Engineers, they began to run into difficulties. Key players began to come down with serious injuries. By the end of the season, the team was down to seven players, only three of who were completely healthy. The luck of numbers made it difficult for the Lady Engineers. Although they were unable to win any more games, they refused to give up. The ladies battled through every practice and every game, determined to never say die. The scores of the games and the final record do not truly reflect the hard work, dedication, and perseverance of the team.

Several individuals shone during the season. Junior Amanda Speich became the first woman in school history to score over 1000 points. For this accomplishment and her other contributions to the team, Speich was named Second-Team-All Conference. Jodi Barcus became the first senior to be honored by the team. Sophomore Beilee Fulk was named the team's M.V.P. and given an Honorable Mention in the All-Conference team. Freshman Tarel VanDyk was awarded the Newcomer of the Year award both by the team and by the conference. She was also listed as Honorable Mention on the All-Conference team. Sophomore Jenny Schwartz was awarded the most improved player by the Engineers.

---by Jessica Huggins
Bessie Fulk brings the ball up the court to ignite the Engineer’s offense.

Tarell VanDyk watches the floor closely, looking for an open teammate.

Eye on the ball, Amanda Rice is intent on stopping her opponent.
Swimming

The biggest change for the men's and women's swimming and diving teams during the 1997-1998 season was a change of scenery. The teams moved from the cramped Tirey Pool at Indiana State to the spacious Sports and Recreation Center on Rose's campus. The change of venue contributed greatly to the Engineer's success this season. The increased space allowed for more effective practices, attracted more swimmers, and made the season much more enjoyable.

The women's swimming and diving team grew dramatically from two members last season to nine this year. The swimmers were led by freshman Julliana Van Winkle who placed well at Rose's final appearance in the Liberal Arts Invitational. She placed second in the 100-yard breaststroke, third in the 50-yard freestyle, and sixth in the 50-yard freestyle. Freshman diver Robin Heald placed seventh in the one-meter diving and eighth in the three-meter diving at the meet.

The men again had a great year. The team had its first winning season, finishing with a 5-4 record in dual meets. The team was led by junior Sean Valentine who automatically qualified for the NCAA Division III National meet in the 50-yard freestyle with a time of 20.79 seconds. At the national meet, Valentine earned fourteenth place. The team also had its first relay provisionally qualify for the national meet, although their time was not quite good enough to go. Junior Jeremy Feller, sophomore Matt Jackson, senior Eric Panhorst, and Valentine qualified in the 200-yard freestyle relay with a time of 1:25.53.

Both the men's and women's teams look to continue their trend of improvement as they make a splash in the Southern Athletic Conference. --by Eric Panhorst
Mike Holm performs a perfect reverse pike.

Jeff Frank dives off the starting block, hoping to get off to a good start in the race.

Ken Breiding gulps a quick breath of air before passing his opponent.
The Rose-Hulman Rifle Team carried on its winning tradition by excelling during the 1998 season. The team earned another 19th place in the nation in the 1998 NCAA Rifle Final Rankings, which includes schools from all three NCAA Divisions, by shooting a 4380 out of 4800 in smallbore and a 1429 of 1600 in air rifle for an aggregated score of 5809.

The year was a rebuilding season for the Engineers with only two returning starters. The team started off the season slow until some of the newer members became more experienced. After Christmas break their scores improved dramatically. At the first match after break, the team shot 4402, the second highest score in the past sixteen years and nearly 200 points above the previous season high. The team's scores became more consistent, which was important going into the Sectionals. At Sectionals, Rich Price led the team in both smallbore and air rifle, shooting a personal best of 1126 along with a solid 366. Bryan Rushing was second in both disciplines with a 1107 and a 360. Team captain John Collier added 1098 and 353, while Mark Sweigart shot a 1049 and a 350. In the Western Intercollegiate Rifle Conference Championship, the final match of the season, the team placed fourth in both smallbore and air rifle shooting a 2172 and a 1472. These season highs were the result of several personal bests. In air rifle, Rich Price shot a 375, John Collier shot a 372, and Bryan Rushing shot a 371. In smallbore, Bryan Rushing tallied a 551 and Mark Sweigart scored a 519. Juniors John Collier, Rich Price, and Bryan Rushing formed the nucleus of this year's team. Junior Mark Sweigart came on strong in the second half to make him the clear choice for the fourth spot and also for the Most Improved Shooter Award. Freshmen Chad Wendell and Amber Jonker hold a lot of promise for next year. The team is anxiously awaiting the addition of the new on-campus rifle range with hopes of improving their performances and rewriting history.

--by Michael Ray

Amber Jonker made school history by becoming the first woman to travel with the Rose-Hulman Rifle Team.
The Rose Rifle Team warms up before its match versus the University of Tennessee at Martin. John Collier, Bryan Rushing, Rich Price, and Mark Sweigart.

Junior Rich Price locks on target at the Murray State match.

<table>
<thead>
<tr>
<th>SCORES</th>
<th>Murray State</th>
<th>RHIT</th>
<th>RHIT</th>
<th>RHIT at Xavier (Walsh)</th>
<th>Morehead (M)</th>
<th>Morehead (W)</th>
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<tbody>
<tr>
<td></td>
<td>4605</td>
<td>4209</td>
<td>4293, 1440</td>
<td>4163, 1404</td>
<td>4275, 1496</td>
<td>4295, 1492</td>
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<tr>
<td></td>
<td>RHIT</td>
<td>Ohio State</td>
<td>RHIT</td>
<td>Akron</td>
<td>Sectionals at Xavier</td>
<td>WIRC at Ohio State</td>
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<tr>
<td></td>
<td>4152, 1399</td>
<td>4499, 1500</td>
<td>4402, 1446</td>
<td>4352, 1391</td>
<td>4380, 1429</td>
<td>2172, 1472</td>
</tr>
</tbody>
</table>
Wrestling

The 1997-98 season was one of ups and downs for the Engineer's Wrestling team. The team, plagued by injuries and lack of numbers, struggled throughout the season. Wrestler highlights of the season included the "Most Falls Award" given to sophomore Kris Verdeyen at the Greyhound Classic, where Rose competed against the Spartan Hounds, Mount St. Joseph, Manchester, and Wilmington. Another highlight for the team was freshman Joseph Boyle who won six straight matches within a four-day stretch.

The team is looking forward to a more successful season next year due to hard work during the off season and fewer injuries. "One thing that held us back this season were the many injuries that our wrestlers had," commented coach Mark Buti. The Engineers are also looking forward to hosting more home matches next year, including the "Little State" Tournament involving around twenty schools. The team hopes to return stronger than ever next year. --by Tim Moy

Golf

The Rose-Hulman golf team opened its season with a 7-4 loss to Wabash. They rebounded to take seventh in the Prairie Fire Classic. Next, the team traveled to Jacksonville, Illinois, where they placed third out of 15 in the MacMurray Invitational. The Engineers then competed in the Anderson Invitational, placing fourth out of 13, and the Illinois Wesleyan Invitational where they earned sixth place. The Engineers closed their regular season with a fourth-place finish at the Millikin Invitational. The final challenge for the team was the ICAC Championship match. The fourth-ranked Engineers pulled off a major upset, capturing the ICAC title for the first time in school history. Although the season started out slow for the Engineers, it finished as one of the most successful seasons ever, and the team looks forward to another great season next year.

--by Jessica Huggins

<table>
<thead>
<tr>
<th>Wrestling</th>
<th>Golf</th>
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</thead>
<tbody>
<tr>
<td>Carleton, Millikin, Wabash</td>
<td>WABASH (Ryder Cup Format)</td>
</tr>
<tr>
<td>Wabash, Olivet, Univ. of Indianapolis</td>
<td>L, 7-4</td>
</tr>
<tr>
<td>Monon Bell Classic</td>
<td>Prairie Fire Classic</td>
</tr>
<tr>
<td>Double Dual</td>
<td>7th of 13</td>
</tr>
<tr>
<td>Univ. of Indianapolis Greyhound Classic</td>
<td>MacMurray Invitational</td>
</tr>
<tr>
<td>ICAC Conference Championship</td>
<td>3rd of 15</td>
</tr>
<tr>
<td>NCAA Division III Regional</td>
<td>Anderson Invitational</td>
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<tr>
<td></td>
<td>4th of 13</td>
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<tr>
<td></td>
<td>Ill. Wesleyan Invitational</td>
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<td></td>
<td>6th of 15</td>
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<tr>
<td></td>
<td>Millikin Invitational</td>
</tr>
<tr>
<td></td>
<td>4th of 16</td>
</tr>
<tr>
<td></td>
<td>ICAC Championship (Harrison Hills G.C.)</td>
</tr>
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<td></td>
<td>1st of 7</td>
</tr>
</tbody>
</table>
Kris Verdeyn carefully plots his next move.

Joel Jansen struggles to gain control of his opponent.

Sam Giordano nails another beautiful shot en route to his third-place finish at the MacMurray Invitational.
Baseball

The 1998 Rose-Hulman Baseball season was another success. Following up last year’s 23-12 campaign, the Engineers finished the season with a 26-18 record, their eighth consecutive 20-win season. The Engineers also finished 8-4 in the ICAC and returned to the conference tournament for the final time after a one-year absence.

Offensively the Engineers were led by Rob Nichols, Andrew Tochterman, Mike Krueger, Jimmy Costa, and all-conference selections Eric Baer, and Phil Munzer. In fact, the team set several offensive records, including Nichols tying the single season record for home runs, Krueger setting the single-season record for doubles, and Costa tying the single-season record for hits and setting the career record for RBI.

The team also boasted an outstanding pitching staff led by Matt Sims, Costa, and all-ICAC selection Andy Cain. Cain continues to boast the school's career best ERA. Sims and Costa concluded their careers among the school's career win and ERA leaders.

In spite of the loss of five key seniors (Sims, Costa, catcher Brad Garrett, and outfielders Chris Gates and Ryan Pownall), Coach Jeff Jenkins and the Engineers are optimistic that a change of conference will bring an even more successful 1999 campaign.

--by Chad Belschner
<table>
<thead>
<tr>
<th>MILWAUKEE</th>
<th>W, 11-3</th>
<th>THOMAS MORE (DH)</th>
<th>L, 5-8</th>
<th>DEPAUW UNIVERSITY</th>
<th>W, 5-1</th>
</tr>
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<tbody>
<tr>
<td>INDIANA WESLEYAN</td>
<td>W, 4-1</td>
<td>MILIKIN (1-9 inn.)</td>
<td>W, 9-5</td>
<td>WASHINGTON UNIV.</td>
<td>W, 6-1</td>
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<tr>
<td>WITTENBERG (OHIO)</td>
<td>L, 7-10</td>
<td>FRANKLIN COLLEGE</td>
<td>W, 11-1</td>
<td>WASHINGTON UNIV.</td>
<td>W, 6-4</td>
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<tr>
<td>WALSH</td>
<td>L, 8-13</td>
<td>FRANKLIN COLLEGE</td>
<td>W, 8-0</td>
<td>WABASH (1-9 inn.)</td>
<td>L, 9-13</td>
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<tr>
<td>AUGUSTANA</td>
<td>W, 7-2</td>
<td>IUPUI</td>
<td>W, 10-8</td>
<td>MANCHESTER COLLEGE</td>
<td>W, 3-2</td>
</tr>
<tr>
<td>ADRIAN</td>
<td>L, 6-8</td>
<td>IUPUI</td>
<td>L, 8-13</td>
<td>MANCHESTER COLLEGE</td>
<td>W, 3-2</td>
</tr>
<tr>
<td>JOHNSON &amp; WALES</td>
<td>W, 4-2</td>
<td>WABASH COLLEGE</td>
<td>W, 4-1</td>
<td>DEPAUW</td>
<td>W, 6-5</td>
</tr>
<tr>
<td>OHIO NORTHERN</td>
<td>W, 4-2</td>
<td>WABASH COLLEGE</td>
<td>L, 0-1</td>
<td>ANDERSON UNIVERSITY</td>
<td>L, 4-5 (8)</td>
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<td>MISSOURI-ST. LOUIS</td>
<td>W, 4-3</td>
<td>OAKLAND CITY UNIV.</td>
<td>W, 3-2</td>
<td>ANDERSON UNIVERSITY</td>
<td>L, 7-8</td>
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<td>HOPE (1-9 inn.)</td>
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<td>OAKLAND CITY UNIV.</td>
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<td>FONTBONNE</td>
<td>L, 2-5</td>
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<td>GREENVILLE</td>
<td>W, 11-7</td>
<td>MARVYILLE COLLEGE</td>
<td>L, 1-2</td>
<td>FONTBONNE</td>
<td>L, 5-8</td>
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<tr>
<td>GREENVILLE</td>
<td>L, 5-8</td>
<td>MARVYILLE COLLEGE</td>
<td>W, 6-4</td>
<td>MANCHESTER</td>
<td>L, 0-3</td>
</tr>
<tr>
<td>MILWAUKEE</td>
<td>W, 9-0</td>
<td>HANOVER COLLEGE</td>
<td>W, 13-2</td>
<td>ANDERSON</td>
<td>W, 9-5</td>
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<tr>
<td>MILWAUKEE</td>
<td>L, 4-6</td>
<td>HANOVER COLLEGE</td>
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<tr>
<td>THOMAS MORE (DH)</td>
<td>W, 10-9</td>
<td>DEPAUW UNIVERSITY</td>
<td>L, 1-2</td>
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</tbody>
</table>

Pitcher Matt Simms prepares to deliver a great pitch.

Mark Deal and Matt Simms head to the dugout after retiring their opponents in order.

Rob Nichols carefully eyes up the pitch and swings for the fence.
Men's Tennis

The Rose-Hulman men's tennis team made 1998 another successful season. The Engineers started the season with a trip to Kentucky, where they earned fourth place at the Thomas More Invitational. Then, they earned their first victory of the season with an 8-1 win over IU-Southeast. Two more wins were soon recorded, one over Greenville College, 9-0, and the other over McKendree College, 6-3. Then the team suffered its first loss, a 0-7 decision to Coe College. They rebounded, and went on a ten-game winning streak. After defeating Nebraska Wesleyan, 6-1, they opened conference play with wins over Wabash College, Franklin College, Anderson University, Manchester College, and Hanover College. They also earned third place in the Kerry Seward Invitational at Crawfordsville, Indiana. Over Spring Break, the team traveled to Hilton Head, South Carolina. They expanded their list of wins by defeating St. Mary's College of Minnesota, Cabrini College of Pennsylvania, and Savannah College of Art and Design. Then the Engineers' winning streak was snapped with a 7-0 loss to the University of South Carolina-Aiken. The team concluded its season with the ICAC championship match. The Engineers recorded a second-place finish overall, the best in school history, losing only to 10-time champion DePauw. Senior Jason Owen earned all-conference honors by becoming the first person in school history to win an individual title. The singles players, junior Koji Okamoto, freshman Tyson May, freshman Jordan Williford and the doubles team of junior Craig Clark and freshman Robert Kober qualified for the championship round. May and Kober were also named to the all-conference team. The Engineers look to build on their success from this year for the 1999 season, when they enter the Southern Athletic Conference.

--by Jessica Huggins
Jordan Williford slams the ball back into his opponent’s court.

The Engineers spent many hours practicing between matches.

Demonstrating perfect form, Tyson May easily returns his opponent’s shot for the point.

<table>
<thead>
<tr>
<th>Scores</th>
<th>Wabash</th>
<th>Centre</th>
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<th>W, 6-3</th>
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<td>Franklin</td>
<td>W, 5-4</td>
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<td>IU-Southeast W, 8-1</td>
<td>Anderson</td>
<td>W, 8-1</td>
<td>W</td>
<td>W, 8-1</td>
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<tr>
<td>Greenville W, 9-0</td>
<td>Manchester</td>
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<td>W</td>
<td>W, 9-0</td>
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<tr>
<td>McKendree W, 6-3</td>
<td>Kerry Seward Inv. 3rd of 8</td>
<td>W, 7-2</td>
<td>W, 6-3</td>
<td>W, 9-0</td>
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<tr>
<td>Coe L, 0-7</td>
<td>Univ. of S. C.-Aiken L, 0-7</td>
<td>W, 6-3</td>
<td>W, 7-2</td>
<td>W, 9-0</td>
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<tr>
<td>Nebraska Wesleyan W, 6-1</td>
<td>ICAC Tournament</td>
<td>2nd of 7</td>
<td>W</td>
<td>W, 9-0</td>
</tr>
</tbody>
</table>

Sports 85
The Rose-Hulman men's track team opened its season with the Jerry England Invitational, where it earned seventh-place out of nine schools. Shining for the Engineers were senior Ryan Loftus who won the pole vault and sophomore Brian Wickham who placed third in the 1500 m run. Next they traveled to Charleston, Illinois, to compete in the Eastern Illinois University Big Blue Classic. Both sophomore Phil Reksel and Loftus qualified for the 1998 NCAA III Championship Meet based on their performances in the 400 intermediate hurdles and pole vault, respectively. Senior Nate Subbert also provisionally qualified for the championship in the hammer throw. Then the men's and women's teams competed in the DePauw University Invitational, where both finished eighth overall. Subbert led the way by breaking his own meet record in winning the hammer throw with a toss of 168' 8". The next challenge for the Engineers was the Millikin University Invitational. The men earned seventh place, behind first-place finishes from Loftus in the pole vault, Subbert in the hammer throw, and Reksel in the 400 m dash. Reksel also provisionally qualified for the NCAA III Championship Meet. The women finished in a tie for eighth place, behind sixth-place finishes from freshman Maggie Lowry in the discus and sophomore Bessie Fulk in the 1500 m run. The Engineers finished the season with the IU National Invitational, where Subbert finished third in the hammer toss and Loftus finished fourth in the pole vault, and the Middle America Classic, where Loftus broke the school record in the pole vault with a height of 16' 6". Two weeks later the Engineers traveled to Macalester College in St. Paul, Minnesota, for the NCAA III Championship Meet. Subbert placed eighth overall in the hammer throw, breaking a personal and school record with his toss of 172' 8". Loftus finished second in pole vault, and Reksel earned fifth place in the 400 intermediate hurdles. All three also received All American status for their performances. --by Jessica Huggins
Maggie Boozer fights her way to the front of the pack.

Ryon Sumner and Kyle Smith anxiously await the start of their race.

Phil Reksel soars over the final hurdle enroute to another first place finish.

<table>
<thead>
<tr>
<th>SCORES</th>
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<tr>
<td>Jerry England Invitational</td>
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<tr>
<td>East Illinois U. Big Blue Classic</td>
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<tr>
<td>DePauw University Invitational</td>
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</tr>
<tr>
<td>Millikin University Invitational</td>
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</tr>
<tr>
<td>ICAC Championship</td>
<td>Men - 4th; Women - 6th</td>
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<tr>
<td>IU National Invitational</td>
<td>no team score available</td>
</tr>
<tr>
<td>Midwest Classic</td>
<td>no team score available</td>
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</table>
Cheering

The 1997-98 cheerleading squad started the year with tryouts during Freshman Orientation. The squad was made up of senior Seth Wurzel, juniors Leland Keyt, and Sara Dougherty, sophomores Stacey Miles, Alyssa Riley and Airen Schuetter, and freshmen Greg Piotrowski and Alan Mummert. Sara Dougherty and Seth Wurzel were elected women’s and men’s captains, respectively. The cheer squad raised money by having a car wash early in September. The money went towards purchasing new uniforms.

The squad opened the year by performing in the Homecoming Pep rally. The squad for basketball games consisted of Leland Keyt, Sara Dougherty, Stacey Miles, Alyssa Riley, Airen Schuetter and Greg Piotrowski. The cheerleaders enjoyed many exciting men’s basketball games in the new SRC, including several block parties. The season ended as four women received their varsity letter, and one woman received her second-year award. The cheer team is looking forward to some changes and new members to the squad for the ’98-99 season. Congratulations to all the ’97-98 teams, and GO ENGINEERS!!!

by Stacey Miles
The Engineers work hard to perfect their lifts.

Tammy Misuinas, Alan Mummert, Stacey Miles, and Seth Wurzel pump up the crowd during the Homecoming Pep Rally.

Rosie the Elephant (A.K.A. Skippy Lowry) dances during the Rose-Woodsie women's basketball game.
THE ELEMENTS
OF ROSE
Graduate Students

Alejandro Arguello
Torsten Blaetter
Erik Bresch
Brian Cahill
Knut Gedicke

Lalita Godbole
Henning Groenzin
Harald Hoffmann
Dirk Juergens
Ashvin Lad

Chad Macy
Swati Saxena
Toerte Schulze
Sumedha Tatke
Skinner

Row 1: Jeremy Showalter, Stuart Busby, Christopher Krapfl
Row 3: KrisJon Hanson, Jacob Ansari, Aaron Miller, Kevin Beto, Michael Madden, Shane Stanford, Christopher Schultz, Christopher Cinal, Philip Chorazy, Brian Engle, Christopher Maurer, Benjamin Thompson, Jason Sherey, Nathan Kirk, William Nagel, Matthew Burke, Brian Prass
Row 4: Jacob Stoltzfus, Matthew Gibbs, Mark Sweigart, Michael Weinhammer, Jonathan Nall, Russell Weinhammer, Nicholas Bianchi, Michael McClure, Steven Bogaerts, Andrew Fisher, Todd McCorkle, Christopher Swindle, Philip Stevens, Robert Crook, Joshua Setzer, Stephen Burnside, Douglas Surflleet, Alvin Bennett

Scharpenberg

Row 1: Wes Borland, Pat Brown, Saigovind Dandapani, Herbert Mann, Princess Lea, Gary Pool
Row 2: Chip, Joe Lathey, Scott Walshon, Richard Price, Cord Ehrhart
Row 3: Derek Laneger, Brandon Swango, Robert Harman, Tim Rohé, Mike Ván Vertlov, Brice Ruth, Ryan Kennedy, Eric Willeke, Jason Kousky
Row 4: Ryan Witsel, Andrew Gray, Rahul Iyer, Adam AufderHeide, Matt Lepinski, Ronald Carcom
Row 5: Chris Bauer, John Frish, Chrles Agnollo, Pete Anderson, Lewis Henry, Mike Tomas, Mike Treaster, Jason Adams
Senior Class of 1998

Jason Anderson
Brad Bailey
Donald Bales
Jodi Barcus
John Barr

Steven Baumeister
Tim Beery
Alvin Bennett
Alex Bonjour
Ben Brown

Johnathan Brown
Patrick Brown
Stuart Busby
Jason Carlyle
Ryan Connelly

Robert Crook
Ryan Davis
Jason Debruler
Dung Duong
Eric Ellis

Alan Fletcher
Benjamin Ford
Samuel Franklin
John Fussner
Andrew Gant

94 Portraits
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<tr>
<th>Portrait</th>
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<tr>
<td>Heather Marusek</td>
<td>Lee McKnight</td>
<td>William Mellencamp</td>
<td>Chris Meyer</td>
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<td>Navin Moonesinghe</td>
<td>Edwin Morahan</td>
<td>Jonathan Nall</td>
<td>Scott Nield</td>
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<td>John Orlando</td>
<td>Michael Pape</td>
<td>Perry Peters</td>
<td>Charles Poi</td>
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<td>Daniel Prentice</td>
<td>Holly Primus</td>
<td>Jeff Ramsey</td>
<td>Andrew Ritchison</td>
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<td>Heath Roettig</td>
<td>Shane Rowling</td>
<td>Allan Runyan</td>
<td>Rene Schwecke</td>
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<tr>
<td>Dax Scott</td>
<td>Ray Shute</td>
<td>Jeremy Shuter</td>
<td>Adriano Silva</td>
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<td>Clayton Smith</td>
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96 Portraits
Jeff Somers
Karl Sorenson
Philip Stevens
Mark Strayer
Ivan Svestka
Christopher Swindle
Michelle Thomas
Jason Thompson
Aaron Trisler
Wilfred Vivo
Robert Volz
David Wallace
Dave Warmuth
John Weil
Mike Weinhammer
Phil White
Iwao Yoshida
Brian Zabel
Robert Zemrodt
Junior Class of 1999

Philip Abell  
Aaron Abercrombie  
Cortney Alexander  
Judah Alt  
Ted Andersen  
Michael Bach  

Beth Bateman  
Matt Bazyn  
Chantel Booth  
Chris Bradley  
Robin Brown  
Ann Christensen  

Chris Dalzell  
Jessica Demlein  
Dustin Dodds  
Heather Dubiel-Stradley  
Mark Dudley  
Brian Duggan  

Lisa Durcholz  
Dave Dusick  
Jason Ellis  
Matthew Estes  
Carrie Fish  
Ann Fountain  

John Frisch  
Bryan Gill  
Jerome Goetz  
Erin Gawron  
Andy Grahn  
Dawn Griswold  

Matthew Gumbel  
Andrew Harrison  
Morgan Hawker  
Kimberly Hayden  
Courtney Hedge  
Gavin Hoch
Jeanne Hudson
James Inge
Kendra Itskin
Rahul Iyer
T.J. Johnson
Marcie Kam

Christopher King
David King
Nathan Kirk
Michael Kosloski
Kelly Kozdras
Chris Krapfl

Deborah Kroll
Holli Krumbein
Bob Leavell
Derek Lengacher
Steve Lerda
Stuart Light

Nathan Linen
Timothy Link
David Luebke
Timothy Lueking
Joseph Marietta
Jason Mathison

Mees

Row 1: Rob Kober, Andy Goerppner, Ryan Ward, Brad Swearingen, Ephraim Lindquist, Susie Parks, Brian Rayles, Jodi Barcus, Rory Sledge
Row 2: Deborah Kroll, Rachael Polen, Mary Newberry, Leslie Kutsenkov, Seana Giardini, Jessica Deutsch, Geeta Singane
Row 3: Stephanie Cohen, Valerie Ooley, Rachel Strahla, Mandy Hoemann, Juliana Van Winkle, Carol Choate, Brooklyn Decker
Row 4: Josh Martin, Jennifer Schroeder, Dawn Griswold, Susan Howard, Eric Waters, Sarah Pyatskowit, Marcie Kam, Janice Chen, Amber Jonker, Andy Sipe
Row 5: Kurt Hoch, Matthew Marker, Travis Holler, Brad Braun, Jerry Watson, Kit Crafton
Juniors

Blumberg

Row 1: Nick Graf, Mark Dudley, David King, John Weil, Robyn Hartman, Nick Buchanann, Andre Guerin, Brian Wickham, Phil Reksel

Row 2: Chris Dalzell, Sara Speckhard, Anamaria Witaszczyk, Nick Hurlburt, Carrie Fish, Kathy Wehner, Brian Rogers, Sara Miller, Dave Luebke

Row 3: Adam Schondelmayer, Dave Svesko, Kelly Kozdras, Trevor Jones, Dan West, Nikki Powell, Pete Mobley, Abigail Garrett, Bessie Fulk, Chris Volbrecht

Row 4: Justin Morey, Luke Gilbert, Sati Saxena, Madhulika Khave, Friso Schlottau, Beth Bateman, Tim Langham, Ann Fountain, Chantel Booth

Row 5: Mellisa May, Fanny Bowley, Rachel Freebairn, Katie Klein, Casey Arthur, Jennifer Shwartz, Libby Henthorn, Sarah Wruck

Row 6: Sam Gould, Kevin Gates, Christy Nicol, Josh Horstman, Scott Sikora, Kyle Pinches, Mike Goble, Alan Fletcher, Steve McIrvin, Aaron Huntsman, John Swiercinsky

Stephen McIrvin
Kevin Meyer
Tom Meyers
Andrew Miller
Joe Mize
Christy Nicol

Colleen Patrick
Vu Pham
Kyle Pinches
Gary Pool
Rod Pound
Richard Price

Kara Pritt
Jeremy Pugh
Kent Randolph
Robert Raque
Timothy Rohe
Mike Ropers

Liza Saunders
Rebecca Schenk
Jennifer Schroeder
Josh Setzer
Nancy Shoonover
Scott Sikora

100 Portraits
Deming0

Row 1: Chris Schornstein

Row 2: Charlie Elwood, Brian Victor, Tim Beery, Ben Walter, Carl Zanistoski, Daniel Arnold, Mark Caswell, Chuck Neese

Row 3: Jonathan Gilpin, Ken Breiding, Jeremy Sewell, Chad Christie, Kevin Trivett, Martin Leppert, Kyle Smith, Aaron Goldsholl, Paul Holly, Matt Roesle, Danny Hallow, Kelly McAtee, Kevin Culbreth

Row 4: C.J. Williams, Joe Johnson, Jason Zielke, T.J. Jarnett, Peter Shoaf, Rich Slater, Fred Hindman, Anthony Shelburn
Sophomore Class of 2000

Cara Adams
Meggan Adwell
Charles W. Agnello
Jacob Ansari
Sangmin Bae
Bryan Ball

Kevin Beto
Nicholas Bianchi
Todd Blocksom
Tim Blotkamp
Wesley Bolsen
Jason Borneman

D. Martin Bostrom
Frances Bowley
Patty Bragger
Kathryn Brown
Kathleen Buchanan
Nick Buchanan

Matt Burke
Stephen Burnside
George Charles
Brooke Chenoweth
Carol Choate
Phillip Chorazy

BSB2

Row 1: Matthew Longest, Toby Eiler, Peter Argiris, Zeb Wise, Bryan Jensen, Jon Harris
Row 2: Austin Holcomb, Ho-Joon Song, Frank Mecklenburg, Brian Smith, Jonathan Webster, Gregory Hatzl
Row 3: Dan Stweard, Dan Young, Nick Schroeder, Jay Switzer, Scott Tomlinson
Row 4: Austin Allen, Todd Brooks, Jason Chaille, Chad Wendell, Bill Metzler, Brook Atchison, George Tsakanikas, Sam Holster, Matthew Kahle, Kevin Schaarf, Isaac Shoaf, Elija Hart, Jon Kraft
Row 5: Brent Vostrez, Aaron Zirkle, Conrad Coffman, Michael DeGraw-Bertsch, Jason Kray, Chris Kaup, Josh Callahan, Trent Sommer, Matthew Backfish
Deming 1

Row 1: Michael Black, Zyad Abyad, Curtis Newell, Dennis Walters
Row 2: Luke Skelly, Ben Parker, Severin Kempf, Vinnay Basavaraja, Aran Ambercrombie, Dennis Lin, Tina Toth
Row 3: Ken Rosenkoetter, Maceo Lewis, Kris Chaney, Jason Berington
Row 4: Chuck Hayden, John Bowen, Todd Cosby, Cory Miller, Pete Haugen, Josh Brant, Jeremy Wright

Christopher Cinal
Don Cole
Jonathan Coppock
Buckner Creel
Patricia Cunnington
Nino Davi

James Dowd
Stephanie Dunagan
Toby Eiler
Chad Eviston
David Fisher
Sharon Foltz

Theodore Gould
Rob Grieshop
Greg Grunschel
Eric Haenlein
Robert Harman
David Hartman

Robyn Hartmann
Jason Hause
Libby Henthorn
Kimberly Hoss
Susan Howard
Melissa Howell

Portraits 103
Sophomores

Speed1

Row 1: Eric Reinhardt, Mike Bach, Matt Garms, Matt Wood
Row 2: Jason Switzer, Harold Plance, Keith Bourne, William Paulham, Kris Verdenyen
Row 3: James Hicks, Jason Kahlhamer, Matt Kirchoff, Nathaniel Ellis, Matt Niemiller, Adam Eckerle, J.W. Hawley

Nicholas Hurlburt
Alejandro Icaza
Nathan Johanningsmeier
Trevor Jones
Corey Keith
Severin Kempf

Daniel Kercheval
Joseph Kidd
Katrina Klein
Jason Kousky
Greg Lara
Matthew Lepinski

Michael Madden
Joanna Mahan
Elaine Mahler
Herbert Mann
Chris Maurer
Melissa May

Mike McClure
Ben McConnell
Neil McCracken
James Meyer
Stacey Miles
Aaron Miller

104 Portraits
BSBO

Left to Right: Andy Miller, Jason Borneman, Rick Hendricks, Joe Kidd, Steve Lerda, William Wilson, Dan Kercheval, Chris Bradley, Tim Blotkamp, Matt Walter, Jason Lockard

John Miller
Lester Mobley
Brian Monacelli
Marina Mondello
L'Netta Moss
Randall Motchan

William Nagel
Aaron Nelson
Stephen Nelson
Brad Nord
Jon Nord
Aaron Paris

Ben Parker
Jim Pattison
Dan Pearis
Jennifer Pierce
Craig Pohlman
Matthew Poi

Rachel Polen
Jeffery Price
Anthony Primozich
Philip Reksel
Kenneth Rickard
Shanna Rives
Sophomores

Deming2

Laying: Ryan Connelly
Row 1: Tim Kilbourn, Lucus Elliot, Bob Ladisich, Bryon Sohns, David Allen, Travid Ross
Row 2: Lucus Carlton, Ryan Gleitz, Ryan Barton, Ryan Claus, Keith Casey, Matt McDonald
Row 3: Andy Schott, John Gardner, David Bouberteen,
Row 4: Jared Anderson, Jason poole, Jason Winkler, Brent Wilson, Jason Kohlman, Brett Bobzien, Matt Kuester
Row 5: Joe Kramer, Andy Hammond, Bill Middendorf, Ryan Miller, Chad Roper, John Hornbach, Doug Dagger, Ben Lund
Row 6: David McKinner, Tim Hayes, Brian Garden, Ryan Graft, Matt LeVora, Carl McIntosh, Eduardo Escardo-Raffo, Aiden Kunkle, Nick Giordino, Mike Cox, Ben Kutsch

Nicholas Robarge
Ken Rossi
Adrian Rust
Brice Ruth
Jason Sherey
Jeremy Showalter

Dave Sing
Ryan Slavens
Phillip Smith
Mike Smithback
Jill Sprague
Shane Stanford

Dan Stinemates
Jacob Stoltzfus
Amelia Striegel
Alan Study
David Svesko
Brandon Swango

John Swiercinsky
Jared Tatum
Michael Thomas
Benjamin Thompson
Michael Thompson
Michael Treaster

106 Portraits
Portraits 107

Speed3

Row 1: Dave McCoy, John Pederson, Colin Hill, Tyson May
Row 2: Joel Gillespie, Eric Lammers, Nick Balme, Jason Macak, Ed Stapanon, Nate Irwin, Dave Jennings
Row 3: Eric Kane, Jonathon Arbo, Ben Laureys, Dusty Richards, Dustin Sapp, Matt Seeley
Row 4: Jerod Weinman, Matt Sheehe, Brian Blessinger, Adam Homan, Tim Blanset, Dan LaBar, Josh Grimmett, Josh Sulton, Jeremy Oliver, Matt Shike, Caleb Tennis, Nathen Beittenmiller, Scott Barbour
Row 5: Ken Rossi, Kasey Crabb, Paul Sparacino
Freshman Class of 2001

Zyad Abyad
Austin Allen
David Allen
Jared Anderson
Jonathon Arbo
Peter Argiris
Latisha Arroyo
Matthew Backfish
Terra Baranowski
Andrew Barkley
Ryan Barton
Vinay Basavaraja
Chris Bauer
Marsha Bergh
Brian Bessinger
Justin Blomenberg
Craig Bloomer
Barry Bourne
Joseph Bowle
Jamin Bradley
Kenneth Breiding
Stephen Brewer
Josh Callahan
Donald Casey
Mark Caswell
Kris Chaney
Hao Chen
Chad Christie
David Christmas
Dave Ciarrocchi

108 Portraits
Conrad Coffman
Christopher Cole
Dan Costenaro
Kevin Culbreth
Brooklin Decker
Shawn Denlinger
John Doty
David Douberteen
Patrick Duffey
Billy Duncan
Lucas Elliott
Charles Elwood
Brooke Enochs
Michelle Everley
John Gardner
Matthew Garms
Seana Giardini
Andrew Goeppner

BSB1

Row 1: Heidi Ellens, Travis Gilmour, Mike Zavatsky, Andy Miller, Craig Bloomer
Row 2: Karl Galambach, Nick Scheidler, Wu Nietch, Dave Moser, Paul Maurer, Steve Brewer
Row 3: Ian Desormeaux, Adam Borgman, Mark Gildersleeve, Dan Bock, Genti Cuni, Tim Moy, Neil Kuenne, Scott Ohlmiller
Row 4: Pete Webb, Ike DeBurger, Alex Pittman, Austin Towell, Nate Wheatley, Kevin Frank, James Rose
Freshmen

Deming Attic

Row 1: Charles Poi, Chris Hansen, Brian Zabel, Sam Jackson, Vu Pham, Will Vivo, Randy Schmidt, Ryan Loftus
Row 2: Ben Jackson, Dave Stawley, Brad Konkle, Nate Lugalsbie, Jason Mathison, Adrian Rust, Matt St. Laurence, Ben Brown
Row 3: Mike Danweber, John Collier, Stephen Nelson, Greg Grunschel, John Fussner, Don Livingstone, John Steigis
Row 4: Steven Lerda, Greg Lara, Jay Logan, Mike Pape

Michael Gramelspacher
Michael Green
Sarah Greenlee
Andy Griffis
Daniel Hallow
Drew Hammond
Robin Harvey
Peter Haugen
Tim Hayes
Frederick Hindman
Amanda Hoemane
Austin Holcomb
Craig Holder
Travis Holler
Sam Holster
Jon Hornbach
Carl Hornberger
Jessica Huggins
Adam Irvine
Nathaniel Irwin
Dave Jennings
Bryan Jensen
Amber Jonker
Matthew Kahle
Jason Kahlhamer
Eric Kane
Paul Kappler
Rania Kashlan
Chris Kaup
Andrea Kelley
Robert Kober
Ellen Kotal
Joe Kramer
Steve Krause
Jason Kray
Neal Kuenne
Aiden Kunkle
Leslie Kutsenkow
Dan Labar
Robert Ladisich
Eric Lammers
Brad Larson
Freshmen

Martin Leppeot
Dennis Lin
Matthew Longest
Marianne McGough
Wendy McKenzie
Greg Metz
Cory Miller
Ryan Miller
Anthony Mock
Dean Moll
David Moser
Timothy Moy
Alan Mummert
Duane Musser
Curtis Newell
Michael Nietch
Patricia Nordmeyer
Jeremy Oliver

Row 1: Rachel Easterday, Eloise Aniag
Row 2: Kat Thayer, Jessica Huggins, Maggie Lowry, Jenny McGuire, Ann Swistek, Julie Nordmeyer
Row 3: Alyson Tews, Amy Hentz, Shanna Ellis, LaTisha Arroyo, Erica Wassel, Jennifer Lay, Terre Baranowski, Liza Saunders
Row 4: Tammy Russell, Julie Urbanski, Yvette Tyler, Meghan Shilling, Billie Willard, Casper Wright, Laura Olson, Wendy McKenzie, Amanda Stuchel
Row 5: Sarah Greenlee, Robin Harvey, Karen Hill, Jen Dilling, Megan Switzer, Christine Trossman, Brooke Enochs
Row 6: Amy Rainbolt, Leah Smith, Chary Wilson, Rebecca Vinson, Michelle Perez, Kristy Powell, Sharon Foltz

BSB3
Freshmen

Travis Soyer
Paul Sparacino
Edward Stapanon
Josh Sutton
Brad Swearingen
Ann Swistek

Jay Switzer
Caleb Tennis
Alyson Tews
Andrew Tochterman
Janet Trimm
Kevin Trivett

Christine Trossman
George Tsakanikas
Addie Turner
Yvette Tyler
Julie Urbanski
Tarelle Van Dyke

Juliana Van Winkle
Erica Wassel
Eric Waters
Jessica Watts
Peter Webb
Jerod Weinman

Nathan Wheatley
Clinton White
Tevin Wiete
Billie Willard
Charles Williams
Brent Wilson
Speed2

Row 1: Jason Lucas, Tevin Wiete, Gavin Smith, Dan Stinmates
Row 2: Dan Miller, derek Hung, Joe Boyle, Matt York, Ray Seitz, Ryan Hoerst, Dan Costenaro, Andy Friitis, Neil McCracker
Row 3: Kevin Hendrickson, Patrick Duffey, Eric Given, Brad Larson, Derek Plote, Kyle Kindle, Matt Miller, Tony Mock, Jason Moss, Adam Irvine, Mike Green, Braden Hudson, Ryan Smith, Travid Soyer, Duane Musser, Darin Schaeffer

Chary Wilson
Cassandra Wright
Matthew York
Dan Young
Michael Zavatsky
Carl Zawistoski
Clubs

Artwork courtesy of Bob Voros '98
Design by Vu Thu Pham
The Modulus staff is composed of a group of students dedicated to the production of a yearbook that captures a true representation of the past year in the Rose-Hulman community. The group is involved in taking and printing pictures, writing text, and laying out the final product. Staff members spend the entire year gathering pictures and stories from the numerous campus organizations and events, compiling them in the end to become what you now see before you.

The Rose Thorn is the student-run newspaper of the Rose-Hulman campus. The staff takes its job to “keep the Rose-Hulman community informed by providing an accurate and dependable source for news and information” seriously. The Thorn is one of the only organizations that provides a tangible product every week. The Thorn is put together in its office in the Student Organizations section of the Hulman Union, and a quality paper is printed every Friday.
Left: Beth Bateman helps Circle K during Campus Beautification Day by painting a trash can. Circle K is involved in numerous community projects during the year, both on and off campus.


Circle K is an international student-run organization that emphasizes service, leadership, and fellowship. During the past year they worked on a variety of local projects. Some of these included: taking boys from the Gibault school to a Rose basketball game, sorting toys at the Salvation Army during Christmas time, and throwing a dance for adolescents at Ryves Hall. Members of the club served as officers on the district board, received distinction, and continued to build friendships among Circle K'ers, both in the community and around the world.

APO

Alpha Phi Omega is a national co-ed service fraternity dedicated to our cardinal principles of Leadership, Friendship, and Service. Tau Lambda, the local chapter at Rose-Hulman, has devoted itself to these goals for 30 years. We maintain the Lost and Found located in the student agency offices. This year, among our many service projects, we worked with local soup kitchens and closets, helped with the Exotic Cats Animal Shelter, and cut ribbons for MADD. However, service is but a third of our purpose. Because service requires unity and leadership, our officers take their responsibilities seriously, often leading by example. We are an organization of students coming together, striving to help others while having a good time.

RHA

RHA is a student-led organization that sponsors and coordinates activities for students who live on campus. Meetings are held on Tuesday nights in the Worx. Some of the activities that RHA sponsors are the quarterly blood drives, give up a meal, (a charity event), the showing of recent movies, and various trips and contests. In addition to these activities, RHA also helps sponsor other on-campus events such as the Spring Carnival. RHA is also responsible for maintaining the movie collection in the Game Room.

Fencing Club

Once again, this has been a great year for the Fencing Club. Our membership has more than doubled over the past year, and thanks to the SGA's support the club has been able to purchase enough new equipment to allow us to grow even more over the next year. This year the Fencing Club made contact with ISU, which is our first step in organizing intercollegiate competition. Another big first is our field trip to Notre Dame, home of one of the biggest and most active clubs in the United States. This year we also held our first annual Fencing Club Open House in the spring.

Pictured from left to right: Neal Kuenne, Eduardo Escardo-Raffo, Jason Walker, Byron Sohns, Jay Switzer, Brian Zabel (President), Matt Miller, Joe Kidd, Mike Case, Ron Larcom (Treasurer), Adil Musajib, Derek Plote. Not pictured: Erin Edwards, David Svesko, Mike Zollers, John Straigis (Vice-President), John Cochran (Shadow Member), David Daniels (Coach)
Brian Zable and Mike Case try a "D" on each other during practice.

Debate Team

The Debate Team at Rose-Hulman is open to any student that wishes to develop competence in Public Debate and Advocacy. The Team is a member of the National Educational Debate Association and the National Parliamentary Debate Association. The team participates in five to six regional and national tournaments annually and placed first and second in the Indiana Governor's Cup Parliamentary Debate Tournament held in Indianapolis this October. They also entered many other national tournaments this year.

Left to Right: Dan Vialard, Jerod Wemman, Dr. Shields, Ted Gould, Matt Burkl, Jason Sherey, Stephanie Cohen, Jason Mathison (not present).

Spanish Club

The Spanish Club at Rose-Hulman became an SGA-funded club this year and has invited the Rose community to participate in several events to aid in learning about Hispanic culture and art. We visited the Eiteljorg museum of Native American Art to view the "Cuando Hablan Los Santos" exhibit about hand-made iconography of the past and present. We also toured the Chicago Institute of Art to see the collections of paintings by well-known Spanish artists such as Picasso and Dali. We look forward to another great year of culture and fun as we take more art museum trips and even see a show by a Puerto Rican cultural dance troupe!
Pep Band

The Pep Band is the largest of the bands at Rose-Hulman. The primary purpose of the pep band is to provide music to help cheer on the Fightin' Engineers on the basketball court and the football field. The pep band also provides a fun, informal setting for many of Rose-Hulman's musicians who may not have the time or desire to commit to the concert or jazz bands.


Concert Band

The Concert Band is one of several musical outlets available to students at Rose-Hulman. Geared for more dedicated musicians, the concert band studies a variety of classical and contemporary band literature. The concert band consists of about 25 students and gives regular concerts for the benefit of the Rose-Hulman community.

Seated (Left to Right): Alyson Tews, Lisa Carr, Marcia Meurer, Heidi Ellens, Stuart Light, Kathy Wehner, Josh Horstman, L'Netta Moss, Andrew Harrison. Standing, middle row: David Blaize, Jim Chesterson, Ken Breiding, Don Bales, Julie Hoover, Sally Bowden, Corey Miller, Mike Thomas, Heather Dubiel-Stradley, Christy Nicol, Mr. Gary Turner. Standing, back row: Emma Crossen, Brad Braun, Dr. Keith Hoover, Aaron Huntsman, Harold Ellshoff, Brian Ball, Alexander Pitman, Dan Kercheval.
Jazz Ensemble

The Rose Jazz Ensemble exists to provide an outlet for students with an interest in jazz. The ensemble performs several concerts each year, including Engineers-in-Concert. The ensemble maintains a diverse library of music, with styles ranging from 1930's swing tunes to modern concert jazz. Rehearsals are generally one night a week, and individual sections are encouraged to meet once a week. Membership is by audition only, which is open to all Rose-Hulman students, faculty, staff, and alumni.


Chorus

The Rose Chorus had a TON of fun this year. We sang, and sang, and sang... in churches, for Dr. Hulbert's parties, before the fall Drama Club show, for the faculty holiday party and in our very FIRST concert with the concert band and jazz ensemble. In the past we've also sung for weddings and local banquets. But in general, we have as much fun as we can and invite anyone who loves to sing to come join us. It's a great stress reliever!

Back row (left to right): Sarah Greenlee, Jill Sprague, Julie Nordmeyer, Stuart Light, Troy Harriman, David McKinney. Middle row: Morgan Hawker, Madhulika Khare, Abigail Garrett, Sara Miller, Amanda Stuchel, Chris Hansen, Derek Lengacher, Jared Tatum. Front row: Steve Layland (accompanist), Heather Dubiel-Stradley, Katie Klein, Casper Wright, Robin Harvey, John Barr, Tom Hendrick, Bill Harding.
SPIE

SPIE is a student chapter of the international professional society, designed for optical engineers. Optical engineers do not prescribe eyeglasses for people with poor vision. Instead, they design and build numerous optical devices, including lasers and fiber optic cables. These lasers can cut anything from steel to human skin, and the fiber cables can carry phone conversations around the world. It is the imaging systems of optical engineers that produce the smaller and smaller chips of which computer manufacturers are so proud. Although optical engineering is a little-heard-of field, it is still in great demand.

Int'l Student Association

The international students of Rose-Hulman acknowledge the necessity of having an organized group to promote an atmosphere of goodwill, international understanding, and good relations with our fellow American students, college administration and local community. This is the reason the organization was formed. Membership is open to any Rose-Hulman student, faculty or staff member.

The International Student Association also provides programs to address certain issues or special needs of international students, such as information about immigration, taxation, employment, health care in the U.S., other areas of the law, cross-cultural adaptation/culture shock and American culture (holidays and festivals, for example).

International students come to the United States not only to receive an education, but also to learn about American culture and to share their own culture with Americans. Through interaction on campus and in the community, the ISA hopes to promote better mutual understanding. The diversity that is brought to campus can hopefully provide "windows to the world." They know that some of their countries are linked through treaties and organizations that enable some level of mutual understanding. But they also know that world events can impact everyone's lives regardless of place of residence. Each member hopes to gain a more global perspective through study abroad, and hopes others can become more global as they study with and get to know them.
The Model United Nations is an educational tool. Its primary purpose is to inform its participants about the UN, international politics, and contemporary problems of international relations. This includes providing participants with an opportunity to explore how diplomacy, consensus building, caucusing, and committees operate. The Rose-Hulman Model UN team attended three conferences this year: The Butler Model UN Security Council, The University of Pennsylvania Model UN Conference, and the Midwest Model UN Conference. At each conference, the team played a variety of countries such as Brazil, Japan, UK and Syria.

ASCE

The Cecil T. Lobo Student Chapter of the American Society of Civil Engineers strives to educate the community and themselves with frequent presentations to JETS teams and other interested students. In addition, they take weekly field trips to construction sites and engineering firms in order to better understand the career that lies in their future. They also sponsor competitions like the balsa wood bridge contest. Such events continue to promote ASCE and allow members to improve their knowledge and excel in all of their undertakings. These include continual success in their senior design team at the annual ASCE Student Design Competition sponsored by the Indiana Section of ASCE and their nationally ranked Steel Bridge Team.
The Association of Computing Machinery is dedicated to advancing the art, science, engineering, and application of information technology. During the 1997-98 school year, Rose-Hulman's ACM chapter furthered students' knowledge through sponsoring speakers, holding the annual Midwest programming contest, and sponsoring teams in the regional programming contest held at Notre Dame. Also during the '97-98 year, the chapter served in several promotional activities and community service projects related to computer science at the elementary, high school, and college levels.

The Rose-Hulman Users of Linux is a local Linux users group that has been established to promote and support the use of the Linux operating system at Rose-Hulman. In 1998, RHUL brought several speakers to the Rose campus to present a variety of different uses of and applications written for Linux. Also, RHUL members have monitored rhit.linux, a local usenet newsgroup, to provide a helping hand whenever possible to anyone at Rose with a Linux related question. In the upcoming year, the club plans to take on many new projects such as a parallel virtual machine made out of Linux boxes and a laptop distribution for the incoming freshmen laptops.
The Student Activities Board is a vital part of student life in that it is responsible for planning, coordinating, and implementing a wide variety of events and activities of interest to the Rose-Hulman community. During the school year SAB brings various comedians, hypnotists, bands, and lecturers to campus for the specific purpose of entertaining the student body. Along with contracting these performers, SAB also hosts and conducts in-house events, including: "Las Vegas Night," "Amateur Talent Night," and "Twister Tournament." Every year SAB, along with SGA and RHA, sponsors and organizes the annual spring carnival.

The Student Government Association is the largest organization on campus devoted entirely to serving the needs of the student body. During this school year, they worked with RHA to keep the homecoming bonfire an annual tradition. They also revived the student discount card by creating one just for Rose-Hulman students. SGA was also a familiar face at basketball games where they sponsored shootouts full of fun and prizes. The senators also kept busy by attending meetings where student issues were discussed, gaining insight at conferences, organizing student surveys and elections, and working to improve senator/constituent communication.
The Rose-Hulman SCUBA Club was started in 1991 by a group of student SCUBA divers and has since evolved to include SCUBA certification, dive trips and underwater engineering. Our most fun activity as engineers is working with the Grayback submarine. As a member of the club you can participate in this extraordinary feat of underwater engineering. You don’t have to be a certified SCUBA diver to work on the Grayback, even though it is extremely helpful.


Above: Deric Fetters, Jeb Zaun, Andrew Sellers and Ben Knolle from the SCUBA club show off the Grayback to a Rose Alum during Homecoming. Right: Emily Huguenard, Carol Choate, and Rachel Polen take time to smile for the camera during Girl Scout Patch Day.
Learning Center

The Learning Center offers peer tutoring in math, physics, chemistry, computer science, and writing. They have tutored a record number of students this year. In addition to peer tutoring, the Learning Center also offers biweekly group study sessions for targeted freshman courses, end of the quarter review sessions for freshman and sophomore courses, and educational workshops such as "Using Powerpoint for Oral Reports."

SWE

The Society of Women Engineers is committed to the advancement of women engineers in the workplace, and is open to all. The Rose-Hulman chapter completed its second year on campus this year, adding many new activities. Some of these included: a bake sale, a raffle and sponsoring a Girl Scout Patch Day on campus. Look for new and exciting events in the coming year from SWE.
Ultimate Frisbee

Rose Ultimate Club is a group of students that competes with other schools at a multitude of tournaments during the year. The ever-increasing talent and popularity of the club has allowed "Carpe Discus" to play competitively with teams from much larger schools such as IU and Purdue.

Anime

Established in 1997, the Rose-Hulman Anime Society is a group of students dedicated to exploring and enjoying the depths of Japan's animated cinematographic art form. Our mission is to spread cultural awareness of Japanese society in an entertaining fashion. Our foundation entered Rose among the vast number of colleges and universities to host interest groups of this rapidly growing art medium. We have weekly showings on Friday evenings in the GM room. This year we gained recognition in the eyes of the SGA.
Women's Soccer

The women's soccer team made its debut this year at Rose-Hulman. Senior Craig Rice helped organize the team and led practices in both the fall and spring. The team also gained valuable game-playing experience by hosting two matches against the Indiana State University women's team. In the late spring, Coach Ruark took over the team in order to prepare the players for the upcoming fall season, for which a full schedule has already been made.

Above: Megan Switzer and Kat Thayer both go after the ball during a game against cross-town rival Indiana State University.

Left: Mike Weinhammer catches some air along with the disk during Ultimate practice on the front lawn.
The American Society of Medical Students pre-med chapter, in its second year at Rose, became an official SGA-funded club this year. The group was able to send two members to the National Medical/Premedical Student Conference in Washington, D.C., as well as participate in a service project with children at a local day-care center. In the coming year, AMSA plans to start a no-smoking campaign at area high schools and help sponsor a family in need.

Upsilon Pi Epsilon

Upsilon Pi Epsilon is the only honor society for the Computing Sciences. It was founded in 1967 by six students at Texas A&M University to recognize scholarship and professionalism. In the years since then, over 120 institutions of higher education around the world have established UPE chapters to honor their students. The goals of the Indiana Alpha chapter of Upsilon Pi Epsilon include recognition of outstanding talent, high scholarship, and encouragement of individual contributions to the society through the computing sciences.
The Rose-Hulman student chapter of the American Institute of Chemical Engineers began this year with a plant trip in the fall to Eli Lilly's pharmaceutical plant in Clinton, Indiana. During the spring, the group visited National Starch and Chemical Company in Indianapolis, held a senior picnic, sponsored the viewing of Mosquito Coast at Dr. Baratuci's house, and helped at the Bethany House soup kitchen.

Alpha Chi Sigma is a professional fraternity for chemistry-related fields. The Iota chapter at Rose-Hulman has been catering to the needs of chemists and chemical engineers since 1909. The chapter is involved in many professional activities, including the Science Rose Bowl for local high school students and over 50 chemistry shows for schools throughout the Terre Haute area. The chapter takes pride in doing its part to further interest in chemistry, both as a science and a profession.
The RHIT Flying Club is devoted to providing a place for students interested in any form of aviation to meet others with similar interests. Currently we are teaching our members how to build and fly remote control model aircraft. We also have a subset of members who build then launch small and large model rockets. The only thing a student needs to join us is a desire to fly. This year the club has spent many Fridays teaching members how to fly club aircraft. We have also made road trips to the Air Force Museum at Wright Patterson AFB, and an EAA Fly-In at Aeroplanes airport south of Terre Haute.

Right--First row: John Swarner, Chris Teague. Second row: Jon Ratelaff, Anthony Primozich. Third row: Aaron Goldshall, Bryan Gill. Below: Bryan Gill holds one of the flying clubs remote-controlled model airplanes. The club is known to fly anything from paper airplanes to privately owned prop planes.

Left: Members of the Aerial Robotics club showed off their model in front of the new SRC during Homecoming this year.
The Aerial Robotics Club designs, builds, and programs robot systems to compete in the annual International Aerial Robotics Competition held each summer. We are a multidisciplinary team gaining practical engineering experience as we work with cutting-edge technology. Now in its third year, ARC is building membership, publicity, and financial support while it places the finishing touches on a completely redesigned autonomous helicopter. Team members also have the chance to fly an RC helicopter.

Model RR

Model Railroad club is dedicated to the pursuit of the hobby, in both construction and operation. We have about 25 modules for the layout we are building, each in a varying state of completion. Most of the time is spent adding details to scenery and minor repairs. These modules are taken to public shows, such as Family weekend, for operation and viewing.
IVCF

InterVarsity Christian Fellowship is a Christian service organization, existing on college and university campuses worldwide. Our purpose is to spread God’s love through ministry, leadership and service. Here at Rose, InterVarsity is a very active group on campus. The members are dedicated to glorifying God in everything they do, and are interested in the spiritual growth of the Christian community at Rose as well as sharing the necessity of having a personal relationship with Jesus Christ as Savior and Lord.

The Chess Club is a group of students who meet weekly to enhance their abilities in chess and speed chess. In addition to weekly meetings, the Chess Club also hosted two United States Chess Federation (USCF) rated tournaments. The first, in October, saw seven Rose students compete in a field of about 40 participants, including two nationally-ranked masters.


Right: Pete Anderson and Erik Baugues set the board up for a friendly chess match during the activities fair.

In 1994, the Rose-Hulman chapter was chartered by The National Society of Black Engineers (NSBE). NSBE is the largest student-run organization in the USA with about 10,000 members at over 250 colleges and universities as well as professionals. NSBE is dedicated to increasing the number of culturally responsible black engineers to excel academically, succeed professionally, and positively impact the community.

The Rose Drama Club has once again put on an excellent season of theater. The season opened in the fall with the show A Black Comedy. Directed by Bunny Nash, this British farce explored the comedic situations that can happen when the power goes out. In the winter, the club performed 4 one-act plays: Funeral Parlor, Desire Desire Desire, DMV Tyrant, and The Actor's Nightmare. These one acts, directed by junior Mike Kosloski and sophomore Kristin Roth, once again delighted audiences during Mother's Weekend. The season came to a smashing close with the production of Some Like It Hot (Sugar). Once again under the direction of Bunny Nash, the club brought the house down with this hilarious musical based on the popular movie. The Rose Drama Club has continued to grow in numbers and in talent making this year one of the best for the club.
Chi Omega

Top Left: The "Actives" and "Pledges" on Bid Night
Top Right: Stacey Miles and Alyssa Riley beating the sisterhood into each other
Far Right: Everything was so good at Garfield's that Amy Werner couldn't leave the tablecloth uneaten
Right: Community Service with a smile
Bottom Right: The pledge class
Bottom Left: Holli Krumbein & Adrienne Czuba are una-bombers in action

138 Greeks
Once again the Gamma Pi Chapter of Delta Delta Delta has had a very successful year at Rose-Hulman. This year we initiated 16 new members into our Fall Beta Class and then added three more to our family with our Spring Beta Class.

The chapter participated in many social events throughout the year. We helped Alpha Tau Omega and Delta Sigma Phi decorate their houses for the Christmas season. We once again enjoyed helping Lambda Chi Alpha with the party they have every year for less fortunate children around Christmas time. We also had a dinner and movie night with Pi Kappa Alpha that proved to be an enjoyable event.

Throughout the year we hold various philanthropic events to raise money for different organizations. The Teeter-Totter Marathon was a huge success this year. We raised over $1500 for Riley Children's Hospital and two young cancer patients.

Sisterhood activities are enjoyed throughout the year. Once again the Stars and Crescent Ball was a huge success. Pine Picnic and a few movie nights brought us all together for some time to relax and enjoy. Besides all of the Tri-Delta events filling our time, many of the sisters participate in other campus activities. Varsity and intramural sports, along with Greek Games, Campus Beautification, clubs, and honor societies keep us on our toes. Gamma Pi is looking ahead and is very excited to continue our prosperous Greek life here at Rose-Hulman.

Top: Our little sis, big sis combination of the year, Kristi Pratt and Ellen Kotal
Above: We always find some time for fun sisterhood bonding.
Left: Here we are on bid day, new members and all
Bottom Left: Stars and Crescent Ball is always an event to look forward to.
Delta Sigma Phi
ZETA LAMBDA CHAPTER

1996 - 1997

Rose-Hulman Institute
of Technology
This year was another successful one for the Theta Kappa Zeta of Lambda Chi Alpha. Strong community relations, a successful rush, and house renovations top the list this year.

We continued our tradition of community service this year. We held our annual "Run for the Kid's Sake," raising $1400 for Big Brother Big Sister of Vigo County. We also participated in North American Food Drive, collecting 1500 pounds of canned food for the needy, and we had a Christmas party for 25 underprivileged children from Ryves Youth Hall in Terre Haute.

During Fall Rush this year, we brought 21 new members into our brotherhood. By continuing to bring new brothers into our chapter, we stand assured that Lambda Chi Alpha will continue to be a strong and productive fraternity at Rose-Hulman.

This year our house has gone through some major reconstruction. With newly replaced ceiling tiles, a renovated study room, and a brand new kitchen on the way, the Lambda Chi house is looking good. New landscaping and further house projects are in the works.

President Hulbert starts "Run for Kid's Sake"
Party Time!!
The 1997 - 1998 school year has been successful for Phi Gamma Delta. With yet another unbelievable pledge class, along with state recognition for our Rush Program and Social Service, we were named the best FIJI Chapter in the state. With even more house improvements on the way and high expectations for Rush in 1998, the men of Phi Gamma Delta look forward to another great year at Rose-Hulman.
This year marked a milestone for the men of Pi Kappa Alpha's Iota Delta chapter. Pi Kappa Alpha celebrated the first of many decades to come. The men of Pi Kappa Alpha were honored with our fourth consecutive Smythe, the national award for being one of the best Pike chapters in the nation.

The past year has been one of growth for our chapter. This growth can be seen outwardly in the renovations completed on our house. From a renovated bathroom and laundry room, to a new game room to the fresh garnet and gold paint on the outside of the house, we are improving.

Even more importantly, the brothers have been working to uphold and improve the ideals upon which they are founded: scholarship, leadership, athleticism, and being gentlemen. Mutual respect has been a major commitment this year. The bylaws of the chapter have been reviewed to ensure this is the case.

As always we have been committed to serving the community. Projects such as Adopt-a-Highway, planting trees, and our ever-growing Mountain Bike Challenge, which raises money for United Cerebral Palsy, have continued to prosper.
The Kappa Chapter of Theta Xi would like to remind you that the most important thing in life is living. Enjoy the ride.
Theta Xi
KAPPA CHAPTER
1997
Rose-Hulman Institute of Technology
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This year's book is possible because several selfless people donated their time and work. I would like to thank all of them for that help. Specifically, I would like to thank Bryan Taylor for all of the answers, the reminders, the time, and most of all for the commitment he made a few years ago to improve the quality of the book. Also, Donna Burns is due much thanks for all of the times she helped me find Bryan, left him messages and put up with me. The late Darin Bryan is due much credit for the photos he allowed us to use and for answering so many questions to help us with our sports section. (As the book went to press, Darin was killed in a tragic auto accident. He was a role model in service and positive attitude.) I thank the Cowen & Cook Flower Shop for donating the flowers for our cover shoot. I thank the chemistry department for providing the materials used in our cover shoot. I thank the employees of Galloway's Photo for being so fast, understanding, and easy to work with. I thank Steve Letsinger for his advice in setting up the cover shoot. I also want to thank Herff-Jones representative Cathy Wolfe for her advice and consultation. Finally, I want to thank the yearbook staff for all of their hard work, time, and the commitment made to completing this book.

I believe this book truly represents what being a student at Rose-Hulman is like. I think the title itself defines what the students are like. The attar is extracted from the rose petal through much work, and only after a lot of time and effort is enough attar gathered to be useful. The education we are receiving is the much the same, only after a lot of time and effort can we leave here knowing we are useful. I also believe that as you flip through the pages of this book you can see how dedicated these students are to the classroom, to their friends, to their clubs and organizations, and to finding time to have fun.

I had two major goals for this book. One was to finish it on time and one was to turn out a book that really represented the entire student body. I believe I was close on the first and that I succeeded at the latter. My hope is that you also agree with me after turning through all of the pages. I believe the book itself is truly the Attar of Rose.

Dawn Griswold
Editor