1990

1990 Modulus

Rose-Hulman Institute of Technology

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MODULUS
1990

THE YEARBOOK OF

ROSE-HULMAN
INSTITUTE OF TECHNOLOGY

5500 WABASH AVENUE, TERRE HAUTE, INDIANA 47805
Dedication

On May 21, 1990, a significant era in the history of Rose-Hulman came to an end with the death of Herman Moench. An institution, Moench was considered the teacher's teacher and the engineer's engineer.

A 1929 graduate of Rose Poly, Moench served his alma mater for six decades as a teacher and administrator. Moench held several posts with the Institute. He served as professor, chairman of electrical engineering, dean of engineering, acting president, vice president and dean of the faculty, and senior vice president.

To recognize Moench's contributions to the college's development, the main academic building was named Moench Hall in 1977.

While a Rose-Hulman legend, Moench was nationally recognized for his work to create standards of ethics that are used today as guidelines for the registration of professional engineers.

This book is dedicated to Herman A. Moench, the man who dedicated his life to the education of thousands of Rose students.
Racing
Into the Nineties

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Year in Review
Class of 1993 Joins Rose

The 118th Rose-Hulman Class arrived on campus in August and is shown here moving into Deming and Speed Residence Halls.

The class will witness many changes in the institute during its four years in engineering or science study. They are already beginning to see a higher tuition than previous classes have sustained. Tuition is now approaching $9500 per year. Many of the campus facilities will improve. There will be more computers, laboratory equipment, and possibly a new residence hall. They will also witness new curriculum programs. Many of the students in this class will learn calculus by using Maple computer software.

The most memorable experiences of these Rose-Hulman students during their first quarter included adventures in residence halls, varsity sports, classes, and fraternities. Jeff Haggerty remembers "LakeFest '89" as his most memorable experience during his first quarter. All of Deming I ended up in "scum pond" before it was over. Rob Arlt describes all-nighters for Chemistry lab reports and Graphical Communications as being the most remarkable event in the first quarter. Andy McConnell pointed out that the best part of the first quarter at Rose-Hulman is getting a new set of friends. These friends will be depended on for the next four years, because "without friends Rose would be next to impossible."

Snow in October?

Indiana weather lived up to its unpredictable reputation when snow fell in the middle of October 1989.
Impossibilities Become Realities as Freedom Infests Eastern Europe

National Events for Fall 1989:

August:
- Poland elects its first non-communist prime minister in over 50 years.
- Voyager 2 sends back the first closeup photos of Neptune from 2.8 billion miles away. Five rings and eight moons were discovered.
- Cincinnati Reds manager Pete Rose is banned from baseball for betting on games.
- George Bush goes on his first vacation as president. Daily activities included swimming, jogging, tennis, horseshoe-pitching, and fishing.

September:
- Exxon spills 11 million gallons of petroleum on Alaska's southern coast.
- Students met with C.H.U.C.K.S. (Committee to Halt Useless College Killings) to discuss fraternity hazing.
- Seniors met with the College Placement Office to prepare for the job search or graduate school application process.
- R.H.A. held the "Star Trek All Nite" movie night.
- The S.G.A. Congress was elected for the year.
- There was another successful RHA/IFC/APO Blood Drive. (see Photo.)
- A mime named Trent Arterberry performed in one of the Fine Arts Series Shows.
- S.A.B. and I.F.C. sponsored a campus-wide dance.
- The 1989 Hallypms were held with Speed and Mees tying for first place.

October:
- Fraternities rushed to get new members.
- Homecoming was held with bonfire, pep-rally, and other festivities (see page 8-9).
- Dad's Day activities included a football game, a soccer game, a dinner, and "Cinderella" performed by the National Opera Company.
- Rose-Hulman's Board of Managers approved a mission to "establish Rose-Hulman as THE BEST undergraduate engineering and science college" by the year 2000.
- Ford, Eli Lilly, and General Motors interviewed on campus in the same week.

November:
- Rose-Hulman Drama Club performed "Wild Oats" (see picture).
- Saint Mary-of-the-Woods held a Talent Show and Lip Sync contest.
- Cross Country team ran in the NCAA Regional Meet.
- The Debate Team placed second out of 29 in the John Harlan Debate Tournament.

Fall 1989 Campus Activities

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Let's Hear it for Homecoming!

By Randy East with Photography by Matt Morris

Homecoming once again drew crowds of alumni and families to the Rose-Hulman campus this fall. For a few days, classes and homework were forgotten as students' families and girlfriends all came out for the action. Red plaid suits filled the Union, parents swept in and out of Root Quadrangle, and it seemed like half the town showed up for the pep rally and the homecoming football game.

The pep rally included the usual cheer and banner contest, the Delta Sigs winning the favor of the judges with their demonstration of school spirit. Building up to a climax, the band and cheerleaders both gave spectacular performances. Then, as suspense filled the crowd, President Hulbert walked along the line of beautiful candidates and crowned Sheila Loraine Bishop 1989 homecoming queen.

Within minutes a surging mob of people spilled out of the fieldhouse and covered the field before the traditional freshman bonfire. In spite of its size (it failed to set the woods on fire this year), the crowd spent hours in its radiance. Celebration raged on late into the night, but the next day dawned clear, a gorgeous day for the football game.

The Fightin' Engineers fought hard and put on an excellent aerial display, but were unable to crush the Taylor University offense. The disappointment failed to dampen the spirit of the occasion. The band kept on playing, the cheerleaders kept on cheering, and the crowd kept on eating and enjoying the festivities.
Two Despised World Leaders Are Ousted in Winter 1989-90

World Events in Winter 1989-90:

December:
- The United States invades Panama to assist the overthrow of dictator Manuel Noriega.
- The people of Romania revolt and overthrow Communist dictator Nicolae Ceausescu.

January:
- As predicted, the San Francisco 49'ers trounce the Denver Broncos in Super Bowl XXIV.

February:
- South African black-rights leader Nelson Mandela was freed from prison after 27 years.

Winter Quarter Leaves Many Students Out in the Cold

Winter Quarter comes after fall break, is split by Christmas break and ends with spring break. With all of these breaks on the mind of the student, it is often difficult to stick to the books. A lot of strange student activities take place at this time. As the end of the quarter rolls around though, a lot of last-minute studying is done to make up for putting things off until after that next break.
December:
- Rose-Hulman students join the St. Mary-of-the-Woods chapter of Amnesty International in a luminara service to recognize the successes of the world's political prisoners.
- Dr. Jim Wand hypnotized Rose-Hulman guys and guests (see picture).
- Pei Min Xin spoke on campus about the student revolution in China.
- A dedication to our late American philosopher "Will Rogers' U.S.A." was performed on campus.
- Rose-Hulman's basketball team won the invitational tournament hosted by our school.
- Rose-Hulman's Men's Chorus and Mixed Choir performed a Christmas concert.
- WMHD submitted a proposal to the F.C.C. to raise transmitter power from 160 to 700 watts.

January:
- R.H.A. sponsored "Alfred Hitchcock Night," an all-night movie showing.
- Career Fair '90 was held (see related article).
- SGA Executive Officer elections were held. Chadd Taylor became the new SGA president, and Adam Griner became V.P.
- The Blue Key student-faculty dialogue was held.
- The Chicago Winds Quintet played on campus.
- SAB held an open stage night at the Worx.
- Linda Black, Rose-Hulman's favorite folk-singer/comedienne, played for a wild crowd at the Worx.
- The first annual Edible Engineering competition was held with cheese and crackers at the building medium.

February:
- Rose-Hulman's Jazz Band performed for the Winter Concert.
- SAB held a Las Vegas Night.
- Julia Bushkova, a respected violinist, performed.
- The popular SAB event, "Take Five," took place for its 2nd year.

Career Fair '90
Over Forty Companies Participated to Gain the Interest of Rose-Hulman Students

It was a day for seniors and underclassmen to find out what kind of companies hire engineers and scientists, what they had to offer, and how to get a foot in the door. Technical companies from all fields and all parts of the country were represented at the first Career Fair.
Solar Phantom

A new project on the Rose-Hulman campus this year has been the solar car that was built by Rose-Hulman students for the General Motors Sunrayce.

The project to build the car, better known as the "Solar Phantom", was begun late last year with a 60-page proposal to General Motors that Rose-Hulman was a school that could compete in such an event. Out of over 100 schools that submitted proposals, Rose-Hulman is the smallest of the 32 that were selected to compete in the July 1990 race.

Students from all disciplines were invited to help on the project and they responded. Indeed, the coordinator from GM was amazed at how well our varied majors worked together, which will help accomplish the goal: To Win the Race. Other schools were depending only on one department. Because of their size, students from different majors did not know one another which made it tougher to get other departments to participate.

The necessity for cooperation is accentuated because of the project. Aerodynamics goes hand in hand with electrical efficiency as well as distribution. Therefore, studies in the wind tunnel are as important as computer monitoring of power levels.

The Sunrayce will occur in mid-July and the outcome still remains to be seen. However, regardless of who crosses the finish line first, the engineers involved in the Rose-Hulman project have already struggled in a much bigger competition. They have challenged themselves, and won.
Another Busy Spring At Rose

Campus Events During Spring 1990:

March:
- Alumni Phonathon was held to raise money for Rose-Hulman and keep in touch with Rose graduates.
- Another successful Engineers-in-Concert was performed.
- The 100th Anniversary of Rose-Hulman Intercollegiate athletics was celebrated.
- The new Rose-Hulman Mathematics Modeling Team took first place in a national competition.

April:
- SpringFest was celebrated with music by DB Cooper, Jady Kurrent, and Exquisite Fashion (see related article).
- David T. Kearns, Chairman and C.E.O. of Xerox was the guest for the Oscar C. Schmidt lecture.
- Students prepared projects and displays for the annual Rose-Show/Parents Weekend (see related article).
- Rose-Hulman's Drama Club performed "The Mystery of Edwin Drood."

May:
- Rose-Hulman students pitched in to help clean up campus (see article).
- The SGA budget for next year was released.
- Dr. Samuel Proctor spoke to Rose-Hulman about education and community in America.
- Another class of Rose-Hulman students successfully completed their requirements and graduated.

Spring World Events Close with Bush-Gorbachev Summit

World Events in Spring 1990 Included:

March:
- Lithuania broke from the Soviet Union.
- Nicaraguan Sandinista government was voted out in an election. Daniel Ortega was replaced by Violetta Chamararro.

April:
- The United States held a census. Less than 60% of people responded on the first mailing of forms.

May:
- George Bush and Mikhail Gorbachev held a summit in the United States to discuss arms agreements and central Europe.
Cleaning Up Our Campus

One of the most impressive ongoing Rose-Hulman traditions is the annual cleanup day. Students get up early on a Saturday morning; WMHD supplies the music; Pete and Tom supply the cleaning and gardening tools.
Rose-Show '90

Through Rain and Shine

The light showers all morning and into the early afternoon on Saturday, April 28, failed to dampen the festivities of the Rose Show, sponsored by Blue Key Honor Fraternity on Parent's Weekend. The new grass in Root Quadrangle enjoyed the treat, while parents and students had a great time checking out the exhibits. This year's Rose Show featured displays by most of the academic departments, ACM, ASHRAE, WMHD, the Gun Club, the Glee Club, the Jazz Ensemble, the Racing Association, the Learning Center, and Logan Library.

Some of the events which drew the biggest crowds were the mechanical engineers' drag race and the civil engineering department's Bridge Busting contest. About 100 people stopped in the Moench Hall Commons to witness the Hautian Express No. 1 streak down the track under full mouse-trap power. Although this was the only one of the six entries to cross the finish line for both trials, two other cars did complete the first round with times which beat last year's best. Tension ran high when Mickey — which won first place for creative design — wiped out on its second run, but perhaps the greatest tragedy was when Blue-Light Special threw a rod.

In the Bridge Busting, Mike Walabieser's bridge placed first of twenty-five entries by withstanding a whopping 125 pounds of pressure. This year's bridges were made of department-supplied pine instead of the usual balsa wood, a fact which made the contest much closer. Later, the civil engineers went on to prove themselves in the field of beam and column construction as well.

Seven impressive projects were on display by the EE's, including an electronic drum kit, the VX-30 computer designed and built by Derron Meranda and Ron Perella, and the Message Wand designed by Chuck Tommey, Dave Devore, and Kevin Wyatt. All three of these projects received awards, the latter being named GE Outstanding Project. Passersby were also encouraged to attempt to unlock the electronic "safe" to win a lot of pizza and to participate in an electronically-scored basketball game.

The Chemical engineers also had some real crowd-pleasers, especially in the area of plastics. Chem E students were kept busy making extruded plastic name signs and molded plastic ash trays and corn-on-the-cob prongs. Others busily removed the color from Kool-Aid or made coffee from purified sewer water. There were also displays on heat exchangers, computer applications, filtering, and a "cool" refrigeration project.

The physics and chemistry departments had some science displays, with projects which encompassed everything from lasers and holograms to superconductors and static electricity. Also on display was the Continuous Microscale Extraction exhibit which was presented before the ACS National Conference in Boston this year. Participants in the Rose show were drawn to demonstrations of shattering frozen racquetballs and given a chance to see themselves placed on Mars by a video-editing package in the computer physics lab.

All in all, Rose Show '90 was a big success. What can we say? It is just one more thing to prove that Rose-Hulman is top-notch!
Spring Fest '90

Plenty of Fun . . .
But Where Were the Seniors?

On April 21, a sunny Saturday, Rose-Hulman held Spring Fest 1990 on Speed Beach. There was plenty of food, supplied by ARA, and song and dance, performed by D. B. Cooper, Jady Kurrent, and Exquisite Fashion. The Circle K Volleyball Tournament and PKA Dunking Booth contributed to the fun. The weekend was a blast for everyone . . . well almost. Most of the seniors were stuck inside all day taking the eight-hour E.I.T. exam to be eligible for their Professional Engineering license at a later date.
Commencement 1990

270 seniors receive degrees

Dennis Wagner
Hemminway Award winner
Mark Schulz
Herman Moench Distinguished Senior
J. Corie Biggs
Royse Award Winner
Diploma makes it all worthwhile

The all-night study session, the bombed computer program, the reams of Shakespeare and the never-ending labs proved to be worth it after all. On May 26, 1990, 270 seniors capped their Rose-Hulman careers at the college's 112th commencement.

In keeping with the yearbook's "Racing Into the '90's" theme, internationally known race driver A.J. Foyt received an honorary degree. Other recipients were: Don Fordyce, vice president, Fairchild Space Co.; Howard Freers, retired chief engineer for technical services, Ford Motor Co.; Dane Miller, president and CEO, Biomet; James T. Morris, president, Indianapolis Water Co.; and Renn Zaphiropoulos, retired president and CEO of Versatec and vice president of Xerox.

Zaphiropoulos delivered the commencement address. He told graduates that the managers of today must prove themselves worthy to lead.

In an interesting sidelight, Foyt put his doctorate to quick use when his helicopter would not take off after commencement. The chopper was having trouble holding a charge. After some shirtsleeve mechanic work, Foyt solved the problem and he was able to fly back to Indianapolis where he raced the next day in the Indianapolis 500.
Seniors
Class of 1990

George Angelov
Mechanical Engineering
Hobart, Indiana

Trevor Arnold
Chemical Engineering
Brownsburg, Indiana

Frederick H. Baatz
Mechanical Engineering
Fort Wayne, Indiana

Frederick Baker
Mechanical Engineering
Logansport, Indiana

Scott Barndt
Electrical Engineering
Missoula, Montana

Ken Barrett
Mechanical Engineering
Salem, Indiana

Christopher T. Barron
Physics
Compton, Indiana

Brian Bartley
Electrical Engineering
Jasper, Indiana

Michael Bell
Mechanical Engineering
LaPorte, Indiana

Steve Benoit
Electrical Eng./Physics
Gillette, Wyoming

James Biggs
Electrical Engineering
Palestine, Illinois

Dale Bittner
Mechanical Engineering
St. Leon, Indiana

Dennis Black
Electrical Engineering
Carbon, Indiana

Joseph M. Bone
Electrical Engineering
Evansville, Indiana

Randall Bridgeman
Chemical Engineering
Kokomo, Indiana
Seniors
Class of 1990

David K. Konczal
Electrical Engineering
Mongomery, Illinois

David W. Kooyman
Electrical Engineering
Knoxville, Tennessee

Leo Krajewski
Computer Science
Lower Barrell, Pennsylvania

Charles Edward Larkin, II
Chemical Engineering
Westerly, Rhode Island

Greg Lengacher
Mechanical Engineering
Odon, Indiana

Bruce Levy
Mechanical Engineering
Indianapolis, Indiana

Edwin Lucas
Physics
Plainfield, Indiana

Jason Lueking
Civil Engineering
Bloomfield, Indiana

David Lunceford
Mechanical Engineering
Terre Haute, Indiana

Jeffrey Maynen
Electrical Engineering
Arlington Heights, Illinois

Samuel McCracken
Chemical Engineering
Terre Haute, Indiana

Lorne E. Meade
Mechanical Engineering
Hopkinsville, Kentucky

Brian Meister
Mechanical Engineering
Aurora, Indiana

Mark Melton
Electrical Engineering
Odon, Indiana

David Miller
Chemistry
Clearwater, Florida
Brian Moench
Civil Engineering
Danville, Indiana

Alan Mok
Electrical Engineering
Hong Kong

Dennis W. Moore
Mechanical Engineering
Lake Villa, Illinois

Luke D. Morehead
Electrical Engineering
Indianapolis, Indiana

Matthew M. Morris
Electrical Engineering
Alvada, Ohio

Jeffrey Mullins
Mechanical Engineering
Hartford City, Indiana

Frederick Scott Myers IV
Mechanical Engineering
West Terre Haute, Indiana

Timothy A. Nahrwold
Electrical Engineering
Fort Wayne, Indiana

Gerald Naliborski
Chemical Engineering
Terre Haute, Indiana

Randy Nelson
Computer Science
Evansville, Indiana

Joel Nicoson
Mechanical Engineering
Centerpoint, Indiana

Roger Norris
Chemical Engineering
Williamsport, Indiana

Michael Nowatkowski
Electrical Engineering
Katy, Texas

Neil Petroff
Mechanical Engineering
Merrillville, Indiana

Jeffrey O. Pickett
Electrical Engineering
Shoals, Indiana

Clark A. Penticio
Applied Optics
Mtn. Home, Idaho

Russell Peterson
Mechanical Engineering
Clayton, Indiana

Scott Plimpton
Computer Science
Allison Park, Pennsylvania

Michael D. Poisel
Mechanical Engineering
Schererville, Indiana
Seniors
Class of 1990

Steven Pryor
Civil Engineering
Visalia, California

Dennis J. Quimby
Electrical Engineering
Auburn, Washington

Paul Rakos
Chemical Engineering
Munster, Indiana

Rodney S. Retzner
Mechanical Engineering
Sunman, Indiana

Steven J. Robertson
Mechanical Engineering
Newburgh, Indiana

John Roman
Mathematics
New Milford, Pennsylvania

Ryan Roth
Electrical Engineering
South Bend, Indiana

Brian Runkle
Electrical Engineering
Macy, Indiana

Gregory Strylewicz
Physics
Vancouver, Washington

Ken Swank
Chemical Engineering
Terre Haute, Indiana

Dervis E. Scheib, Jr.
Electrical Engineering
York Haven, Pennsylvania

Barry Schneider
Mechanical Engineering
Westlake, Ohio

Dennis J. Quimby
Electrical Engineering
Cherburne, New York

Timothy D. Presby
Electrical Engineering
Frederick, Maryland

Andy Richards
Mechanical Engineering
Marion, Indiana

Gary Ruston
Civil Engineering
Evansville, Indiana

Mark Schulz
Chem. Eng. and Chemistry
Mequon, Wisconsin
Seniors
Class of 1990

Dennis Wagner
Mech. Eng./German
Vincennes, Indiana

Thomas Wappes
Electrical Engineering
Churubusco, Indiana

Scott Webb
Mechanical Engineering
Waggoner, Illinois

Dwight T. Weese
Electrical Engineering
LaPine, Oregon

Scott Weigand
Physics/Elect. Eng.
Newburgh, Indiana

Doug Weiser
Electrical Engineering
Bradenton, Florida

Michael Wherry
Mechanical Engineering
Greenfield, Indiana

Kenneth Whitehead
Electrical Engineering
Kokomo, Indiana

David R. Williams
Mechanical Engineering
Colfax, Indiana

Michael Wilson
Math/Economics
Myrtle Creek, Oregon

Jeremy Winnick
Computer Science
Cloverdale, Indiana

Richard Woodruff
Mechanical Engineering
Odon, Indiana

Jeffrey Woolwine
Mechanical Engineering
Kingman, Indiana

Lester Yerger
Chemical Engineering
Elizabethtown, Penn.

Roy A. Zimmerman
Civil Engineering
Laconia, Indiana

Frank Visingardi
Civil Engineering
Nanuet, New York
Graduate Students

Glen Brown
Applied Optics
Evansville, Indiana

Darwin Cook
Civil Engineering
Ladoga, Indiana

Serge Ello
Electrical Engineering
Abidjan, Ivory Coast

Daniel English
Applied Optics
Kempton, Illinois

Aditya Khatuka
Elect. and Comp. Eng.
Calcutta, India

Thomas E. Klassen
Mechanical Engineering
Hammond, Indiana

W.G. Suresh Kumar
Electrical Engineering
Madras, India

Yisong Li
Applied Optics
Terre Haute, Indiana

Erik Oldekop
Applied Optics
Heidenheim, FRG

Naagesh Oruganti
Elect. and Comp. Eng.
Hyderabad, India

Chinna Babu Prudvi
Electrical Engineering
Hyderabad, India

Ulises Rodriguez
Mechanical Engineering
Caracas, Venezuela

Kevin P. Rolley
Electrical Engineering
Greenville, Kentucky

Adarsh Sogal
Mechanical Engineering
India

James Taylor
Civil Engineering
New Goshen, Indiana

Srikanthan Tirumala
Electrical Engineering
Hyderabad, India

Theja Vishwa
Applied Optics
Bangalore, India

Jingping Wang
Electrical Engineering
China

Houphouet Yarabe
Chemistry

Hui Zhao
Electrical Engineering
China
President Sam Hulbert believes that Rose-Hulman has succeeded in becoming the most exciting undergraduate science and engineering school in the world. His zeal shows as he proudly claims that "The Revolution began here!" There is no doubt that Dr. Hulbert has been one of the key motivating forces behind the thrilling changes that have been taking place over the past decade; the integrated freshman curriculum, addition of the applied optics program, use of computers in mathematics, East Asian studies, the multitude of foreign exchange programs, and the general growth in research and intellectual activity. But his enthusiasm is not limited to pride in past achievements. He believes that Rose is going to usher in the 90's, leading the way as a model in engineering and science education. He is convinced that top-notch students from around the world will recognize Rose-Hulman as "the place to be." To fully achieve such lofty goals, financial aid resources need to be increased, additional buildings and upgraded laboratory facilities need to be provided, and the student body needs more diversity, including the admission of females. But there are barriers. While Dr. Hulbert feels we have the ideas and human resources for the task at hand, our success depends on a good long-range strategic plan to provide for the financing and direction of the Institute. With our president to keep the vision in front of us, the barriers can and will be overcome. Ask Sam what he thinks of Rose-Hulman as we enter the 90's: "A great place. Getting even better. About to become one of those very special places . . . and you were there during the transition!"
Dr. James R. Eifert, Vice President for Academic Affairs

Taking a look at academics

Rose-Hulman continues to provide quality educational experiences for students through expanded opportunities in and out of the classroom. Vice President of Academic Affairs and Dean of the Faculty, James Eifert, cites examples of programs and activities that have contributed to Rose-Hulman's reputation for excellence in engineering education.

One of the curricular innovations is the teaching of calculus using computer work stations and MAPLE software. This program has grown from its beginnings as an experimental program to include a large portion of the freshman class. MAPLE is also being used in the teaching of differential equations at the sophomore level.

For the past two years, a group of science and engineering faculty have been designing an innovative approach to the freshman year curriculum. This curricular design has received support from the National Science Foundation, Lilly Endowment, and many corporate friends. A number of freshman will be participating in the new Integrated Freshman Curriculum in Science, Engineering and Mathematics in the Fall of 1990. Students will be using powerful NeXT work stations as a tool for understanding the integration on science and mathematics courses.

Educational opportunities are not limited to the Rose-Hulman campus. Students also have an opportunity to participate in exchange programs in England, Germany, Ireland, Scotland, China, Lithuania, Australia, and Japan.

Rose-Hulman faculty are known for their teaching skills. Besides classroom teaching, faculty are involving students in research projects through grants and contracted research with industry. This experience provides opportunities for students to apply engineering principles learned in the classroom and has led to the presentation of papers by students at regional and national professional meetings. This year student interest in research faced a new challenge. Rose-Hulman was chosen to participate in the General Motors Sunrayce competition. Students met the challenge and designed and built a solar car to compete in the 1600 mile race.
Though not the largest department at Rose-Hulman, the chemical engineering department is no less committed to providing a relevant education to each of its students. In other words, they did more than survive another year — they triumphed because they were determined not to say no to quality. Caught in the midst of facility upgrades and hiring new faculty members, the chemical engineering department does not falter on the brink of a new decade. Dr. Artigue described the improvements that have been made: NSF equipment grants for biotechnology, polymers, and control labs, plus the application of biochemistry within the existing curriculum. All of this is part of staying on the cutting edge, being proactive in changing to reflect changes in industry. As with every academic discipline at Rose-Hulman, this means spending money for computers and other resources. It also means that the faculty need to stay abreast of changes, so as not to short-change the students. Most of all, it means educating aspiring chemical engineers to learn for themselves, to change with the technology, to be prepared. Close-knit and dedicated, the chemical engineering department presses on into the '90s intent on producing first-class engineers.
The Chemistry Department has made many improvements over the past year that will benefit all Rose-Hulman freshmen as well as the chemistry and chemical engineering students. "We take the fact that all students must take Chemistry during their first quarter at Rose-Hulman very seriously," says Dr. Lewis, chemistry department chairman. The faculty make a conscious effort to prepare students for the written technical communication skills they will need for future courses. This year there has been an increased emphasis on written prelab preparation that both makes the time spent in the laboratory more meaningful and writing the final lab report easier and less time-consuming.

The department is looking to improve their degree program in many ways. For one, they hope to get more students. The Chemistry faculty unanimously support coeducation and feel it will help their department gain students, since there are many females that study chemistry at other institutes.

The department is also working to provide more research opportunities for both students and faculty in the '90s. An undergraduate research project is now required for chemistry majors. Major instrument acquisitions which will greatly benefit this research effort are a 300 MHz superconducting multinuclear nuclear magnetic resonance (NMR) spectrometer and several high performance liquid chromatographs (HPLC).

The department has added interdisciplinary areas of emphasis in polymer chemistry and biochemistry and may be reactivating its masters program.

All of these efforts add up to the single effort of supporting Rose-Hulman's goal of becoming the best undergraduate school of engineering and science. The Chemistry department realizes its vital role and is preparing for this challenge.
The Rose-Hulman Department of Civil Engineering is looking forward to the challenges of the '90s. The department's goal is to train civil engineers to deal with the problems in their field. In the '90s, civil engineers will focus on the problems associated with hazardous waste disposal, water treatment, and infrastructure maintenance. Dr. Dishon joined the department in the 1989-90 year, and his knowledge in the area of infrastructure will be a great benefit to students.

The department hopes to increase its involvement with local industry in the future. The 1989-90 year brought the senior design groups seven clients from the Terre Haute area. The design groups become actively involved in solving structural design problems for industries. Rose hopes to expand its number of clients and increase community involvement in the department.

The Department of Civil Engineering is working to prepare its graduates for a good future career. Civil engineers are proud to say that they keep America on the go.
This year, the Department of Computer Science has done well to survive with limited faculty. Although having two of the five professors on sabbatical has made things difficult, cooperation of the students and support from two non-CS faculty, along with the noble effort put forth by the remaining three, enabled the department to carry on and provide a quality curriculum. In the midst of all this, the computer science department took a giant leap forward by purchasing computers to set up the beautiful new CS-lab in the basement of the library. With things changing so fast in this field, it is difficult to estimate how ready the department is to launch into the '90s, but there is no doubt that the faculty is prepared to adapt and surge forward no matter what comes. Dr. Frank Young, head of this department, would like to see further improvements in the variety and availability of hardware. In order to be a first-rate department, he feels it will be necessary to get additional funding for a more complete lab, independent of the Waters Computing Center. This will probably go hand-in-hand with increasing the size of the major, but Dr. Young does not feel that it is necessary to become huge, as he feels the CS students are an “elite” group. In conclusion, he feels that the changes have been in the right direction and further growth is very likely.
The Department of Electrical and Computer Engineering has made great achievements towards its "ongoing commitment to improving lab facilities" during the past year. Dr. Farbrother, acting department chairman, feels the department's main challenge for the nineties is to continue providing background for the student in all important E. E. technologies through faculty expertise and well-equipped laboratories.

The department has won several grants that will help them achieve this goal. Dr. Hoover and Dr. Winton will be bringing digital signal processing technology to Rose-Hulman. Dr. Yoder is involved with a similar effort in the field of image processing. Both of these technologies are "hot topics" in the field of electrical engineering.

In addition to these developments in specialized areas, grants have been awarded to improve the existing digital/microcomputer labs.

Dr. Farbrother sees that many exciting developments are taking place at Rose-Hulman right now. The Solar Phantom project has proven to be a technological challenge and excellent learning experience for the students and faculty involved. The Department is also looking forward to the freshman integrated curriculum, and Dr. Farbrother feels it will improve the students' approach to learning even past the freshman year.

Dr. Farbrother describes his year of being head of the department as "eye-opening." The Electrical and Computer Engineering faculty are dedicated to teaching their wide and useful background to the students.
The HSLS department is looking forward to an exciting new year at Rose-Hulman. The integrated curriculum program will further stress the importance of HSLS electives. Students will have an opportunity to acquire an area minor in European studies, and juniors may participate in exciting new Eagle Japan program. This program offers students the opportunity to join students from ten other select universities around the country in a summer study of Japanese language, culture, and industry. Students completing this program will have the experience of a one-year paid internship in Japan.

The HSLS department will also be joining the other departments in adapting their programs to make full use of the computers on campus. Dr. Dyer and Susan Smith are working on a freshman composition course that would use computers to aid in all aspects of writing. The department has also requested a grant from the National Endowment for the Humanities to develop a media learning center. This center would incorporate computers and video into the students course of study, and provide additional information and experience to students. Dr. Carlson is researching the Hyper-Card system currently in use at Indiana University, and consideration is being made to include this system on the Rose-Hulman campus. Professor Parshall believes that "a good education must prepare students for the ever changing global environment." The computer systems at Rose-Hulman will help students to learn in the technical world in which we now live.
Rose-Hulman’s mathematics department plays the dual role of a support resource for the entire school and an independent department working to graduate top-notch math majors. The two goals do not prevent this large department from uniting behind the primary focus of serving the student body. Dr. Berzsenyi, head of the department, measures success by the accomplishments of the students. By that standard, 1989-90 as a great year, with Rose teams winning the 6th Annual National Mathematical Contest in Modeling as well as the Indiana College Mathematics Competition. At the latter, 6 of 25 teams were from Rose, demonstrating that we have not lost the excitement and dedication, which seem to be waning nationally. The numbers don’t lie, and when 21 math students took the Putman Exam this year, it proved that Rose-Hulman is awesome. Although the math department struggles with the lack of computing resources along with the rest of the school, Dr. Berzsenyi has no doubt that his people will lead the way into the ’90s. He points to the use of Maple and the advent of the integrated freshman curriculum as examples of the ways Rose-Hulman is modelling math education for the rest of the world. As they work on ironing out problems, recruiting more high-caliber students, and intensifying current research activities, the faculty of the mathematics department will continue to strive to guarantee the success of our “very competitive student body.”
Professor Steinhauser, mechanical engineering department chairman, stresses that improving laboratory facilities and curriculum is an ongoing process. The M. E. Department is currently concentrating advancements in computer-aided drawing, fluids, controls, and open-ended projects at the junior level. Members of the faculty visited 24 schools to get ideas for these improvements.

The most noticeable changes have taken place in the Rotz Lab which has been fully modernized. Improvements include a new wind tunnel, new dynamometer, and newly equipped engine labs.

Two courses that previously were taught only in the classroom, fluid mechanics and control systems, now include laboratory investigation as well.

The M. E. Department will continue to make improvements in these areas and many more into the 1990s and beyond.
Rose-Hulman has gained nationwide recognition for having one of the finest military cadet programs in the country. Rose has always been in the top five largest operating units in the country, and is noted for turning out top-quality officers.

The 1989-90 school year brought many new faces to the ROTC staff at Rose-Hulman. Both the Army and Air Force ROTC groups have restructured their programs on campus to better suit the needs and desires of the students. The new staff has helped to build an exciting new atmosphere to the program at Rose-Hulman. Unfortunately national cutbacks on military spending have taken their toll on the program. The ROTC scholarship now pays 80 percent of the student's tuition instead of the full amount, but with the quality of students applying at Rose almost every applicant gets a scholarship of some type. The department believes that if the school were to enroll females in the near future the ROTC program would greatly improve.

Rose-Hulman and the Army/Air Force ROTC programs work together with faculty and administration to provide the greatest benefits to the Rose-Hulman atmosphere. Students in the ROTC program are happy with the benefits and experience gained through the program, and the military staff is proud to be involved with student athletic programs at Rose.

The ROTC program is truly a benefit to Rose-Hulman, and all members involved are proud to continue the tradition of excellence into the '90s.
This year the Department of Physics and Applied Optics celebrated the graduation of the first applied optics majors from Rose-Hulman. Although the program began only two years ago and should not have any graduates until 1992, a few bold students pushed forward, daring to be the guinea pigs. And in accordance with the great Rose-Hulman tradition of staying on the cutting edge, the department came through. Although Dr. Brij Khorana admits that it was a little rough at times, it is this very determination and progressive thinking that has him convinced that the physics and applied optics department is ready for the '90s. Industry and graduate schools are responding favorably to Rose-Hulman's physics graduates, and as R&D projects come in through the recently formed Center for Applied Optics, the department is able to be flexible in adjusting its curriculum to meet the needs of the future. Over the next decade, Dr. Khorana hopes to see barriers dissolve, with the upgrading of antiquated equipment and increased lab space. Of course, this will take money, but there is another potential obstacle to success which does not hinge on the financial issues: incoming students are often inadequately prepared for engineering and science studies, particularly because of a weak foundation in physics. According to Dr. Khorana, part of the solution probably lies in Rose-Hulman going coed and thus broadening the field of applicants; however, a more far-reaching solution, and one which has already begun to be implemented at a regional level, is for Rose-Hulman to provide guidance to high-school teachers and administrators. As this is accomplished, Dr. Khorana will see his goal realized, not only for Rose students, but for millions of high-school students as well. His goal: "I want all students, especially non-physics and -applied optics, to know that physics is the basis of engineering." When they take introductory physics courses, they should be asking themselves, "How is this related to my major?"
Campus Services

Union Staff: Irene Mitchell, Donna Gustafson, Steve Brankle.

ARA Food Service: Colette Tanoos, Doug Klunk, Loretta Steuer.
Bookstore: Pat Jeffries and Anita Creasey.
Admissions: (Left) Jim Goecker, Chuck Howard, Brian Dyer, Timothy Prickel. (Bottom) Nancy Helsper, Pam Hamilton, Jane Staley.

Administrative Services: Steve Miller, Steven Cox, Jack Bagley. (Front) Karen Pershing, Paulette Irwin.

Registrar: Phyllis Phegley, Lou Harmening, Sue May.

Left: Polly Seamon, Art Curator.

Library Staff: Sondra Nelson, Margaret Ying, John Robson.
Administration

Dean Jess Lucas  
Pete Gustafson  
Paul Steward

Tom Miller  
Luann Hastings, Tola Johnson, Kathy Gambill, Kim Jones

Diann Ringo  
Barbara Garvin

Gloria Rogers  
Linda Gilbert
Placement: Jaynie Casey, Bill Sisson, Sonnie Hill.


Development: Janet Newman, Ron Reeves, Carol Wetherell, David Land, Marcia Miller.

Alumni Affairs: Phillip Purcell, Tony Wellings, Jim Schwartz, Bettie Evinger.

Computing Services: Mark Monnin, Top Roper, Mary Anne Pierce, Jeff Davidson, Sue Storckman, Nancy Bauer, Kevin Davidson, Bernie Timberman.

Tom Mason
Business Office

Housekeeping:
Left to Right: Harry Gordon, Ron Slight, Helen Backfish, Walt Ellis, Roger Auterson, Frances Foster, Cheryl Pershing, Richard Mott, Judy Coley.

Grounds Staff:
Front: Allen Donnelly, Jack Whittington, Matt Pink, Ron Slight, Dean Murphy, Howard Smith.
Back: Ron Hicks.

Maintenance:
Front: (Left to Right) Ron Carney, Tom Thompson, Gerald Hartsock, Bill Wilson, Jeff Peak, Bruce Smith, Cecil Fennell.
Back: Tom McConnell, Bill Lawson.
Forklift: Tom Terry
Student Life
Okay, so what if I don’t make the varsity football team? Hey, what if I want to play soccer in the winter? Forget it — I just don’t have time for the basketball team! Introducing... intramural athletics!

Intramurals offer Rose students competition, fellowship and a good time year-round. Teams are usually organized by fraternities, residence halls and commuters. These teams are then scheduled to compete regularly, culminating in an elimination tournament at the end of the season. A large percentage of the student body participates, and by the time the championships roll around, most students are taking the competition pretty seriously.

Fall football and softball help get the upperclassmen back into the swing of college, and they help the incoming freshmen build friendships. Because IM’s do not take a lot of time, everyone can participate and keep in shape. The sports actually contribute to the education process...
by helping students to stay healthy and feel good.

Winter intramurals include indoor soccer, basketball and volleyball, not to mention bowling. These sports are especially important because without them, many students might choose to hibernate all winter instead.

In the spring, many students are still vying for the championship basketball or indoor soccer title. Others are moving on to more volleyball and softball or gearing up for the intramural track meet.

The beauty of IM's is that there are so many sports to choose from, and no one has to limit himself to just one. Intramural athletics at Rose-Hulman... Check 'em out!
On the 'Bash

An Inside Look at Our Hometown Away From Hometown

The three freshmen sat on the floor in my room, gazing at nothing — absent of thought. I was playing with my Music Studio program on the computer, entering some middle-eastern drone in G-flat. I was wondering when one of them was going to ask. I didn't want to bring it up because I was an upperclassman, and we aren't supposed to be anxious about anything — but I was.

"Hey, Dave! Thank God! One of them spoke. "What is there to do in Terre Haute on a Friday night?"

"Well," I didn't want to act too excited, "I dunno. What's on at the Indiana Theater?"

"Kickboxer. It sucks."

"If you can't find anything else to do, I guess we could go to naaah.

"What? What could we do?" They were excited.

"Well, I suppose we could, um, go cruise Wabash or something."

"Cruise what?"

"Wabash. The 'Bash. It's the most awesome thing to do."

"How so?"

"It's kinda like following the rainbow. Only at the end of this rainbow, there's a huge pot of social wonderment!"

"Social wonderment?"

"You'll see."

The four of us stuffed into the Magic Malibu for a trip through the center of the universe. I deliberately took a circuitous route to avoid the "Bash" going downtown. We made our appearance in front of the courthouse. We turned left onto U.S. 40 (the 'Bash') from U.S. 41 (Third Street, or if you prefer, "Dixie Bee Road"), having just passed a "No Left" sign. While in the wrong, we were in the right about turning left — everyone else was doing it.

"That's totally awesome!" Jim shouted.

"What's that?"

"The dude in front of us — he's got one of those things around his license plate with the flashing lights!"

"Wow!" The others were equally astonished. I remembered my first trip down the 'Bash. I was equally amazed.

"Thanks for your help," I said, as an upperclassman, I still really enjoy cruising the 'Bash. It's not the excitement — I'm used to that. It's the good feeling I get from doing something for the kids — enlightening them, if you will, for good reason to finish their homework.

"That guy also has a Confederate flag sticker in his window!" We stopped at the light. Now it was my turn for excitement. I drooled a little too at the voluptuous creation in the parking lot — the one with the Camels. She was with some friends, also pure women from head to toe. Brian commented that the red-headed one was the most beautiful girl he'd ever seen wearing a Skoal cap.

The light turned green and five thousand trumpets signaled me to continue on my voyage through the heavens. "Dave, what are those big racks in the backs of all the trucks?"

"Those are gun racks. A silence filled the car. "Why for?"

"They have them mostly for combat against the non-believers."

"What do you mean?"

"There are some people around these parts that don't believe in the 'Bash."

"Who are they?"

"Don't worry about it. You'll know 'em if you see 'em."

By the next light, we had cheered up again. The windows were down and the radio was tuned to the same station as everyone else's.

"And now we've got one coming up for Jenna, Tammy, Nina and Sherrie. They're on the 'Bash tonight and... which ones are you?"

"We're the ones with the Camels — we're at the first lot!"

"For what?" for waving to the ladies."

"Hey! Slow up, man! I've got to check this one out!"

"Hot prospect?"

"Very!"

"She was more beautiful than the girls we'd witnessed at ARA. She was walking by the park. She was a natural woman — no artificial ingredients or preservatives. She had enough body for two women. Gorgeous!"

CRUUNCH

"What the hell did you do that for? Are you blind?"

"No, man, I'm sorry. I didn't see you. We were watching her."

"Her?"

"Yeah.

"Holy cow, man, she's awesome. If you was watchin' her, I understand, man, I mean..."

We left while he was still drooling tobacco juice so that maybe we would be far away by the time he realized we had broken the flashing lights around his license plate. He had a gun rack in back.

We whisked the remaining five blocks to the pot of social wonderment and turned in. We were met by two hundred thousand newfound friends. We stopped and raised the hood, alerting others to our presence.

"Who's that?" Jim asked.

"Hey everybody, we better get out of here!" the lookout shouted. At once, all two hundred thousand of us slammed the hoods down, revved our engines and sped out any available exit. Lucifer, with his flashing red lights, was on the trail. Although our trip was cut short by the 'Bash bandit, the freshmen had now had the best times of their lives in Terre Haute.

Wabash, I think I love you! ***

By David Whitworth
Above, Scharpenberg residents don’t discriminate against animals when watching TV in the lounge.

Keun Lee conquers the Thursday night laundry.

At left, Jody Snodgrass pretends to be doing homework.

Right, Kyle Powell deals with the situation of having no phones in the students’ rooms.

Senior R.A. Roger Norris helps freshmen on Speed II explain the adhesive properties of masking tape.
"It's not a dorm, it's a residence hall. Get it right!"

The words of Ken Swank still echo in my head.

"Well, whatever you call it, I call it home."

As bleak as the notion may seem, the residence hall, as Rose-Hulman calls it, is home for many students during the school year. Sure, you're from whatever town your parents live in, and you may still refer to their house as "home", but what if your parents move to Florida when you leave for school? That actually happened to Rick Stroud, a junior on Mees I. You might get used to calling the residence hall your home, as he has.

For most students, residence hall life isn't exactly like life at home. Living in a residence hall means doing your own laundry and, if you have a loft, it means changing your own sheets. The housekeepers are great, but they aren't acrobats. In addition, living in a residence hall means sharing a lounge and a TV. When the I.U. game comes on and the TV is under the grip of a Ricky and Lucy fan, you have to resort to the generous guy with the portable B&W in his room.

One of the better aspects of living in the residence hall is that students are given lots of freedom. Sure, the beer has to stay in the room and the girls have to be out by midnight, but how many times have you had beer and girls in your room before? Instead of being over-protective like parents are apt to be, the R.A.'s generally only step in when you're going to get yourself in trouble. They act more like big brothers than anything.

Although the residence hall isn't the most appealing place to live, it seems like a pretty nice place compared to being in class or at work-study. All in all, it's a good place to call home.

Above, Freshmen Eric Link and Ron Shaffer couldn't get control of the lounge TV.

Left, Steven King watches MTV in the Mees Lounge with Mike Thomas.
Watch That Diet!

Layout and Photography by Scott Webb and Joe Forler

Fat BAD; Fiber GOOD. Sodium BAD; Calcium GOOD. Monitor your cholesterol and eat your oat bran. Remember all the lessons we learned about a healthy diet in the eighties? Chances are, if you are a Rose student, you have let a few of the rules slip.

"Eat right and exercise" is a good rule to live by. Here at Rose the exercise is no problem. Most students participate in either varsity or intramural sports. Many of us lift weights, go jogging, play racquetball, goju, or get our workout with the Army at P.T. It is the EATING RIGHT that seems to give us so much trouble.

As long as you are eating at ARA, you have the nutrition available to you. But can you stand to eat it? Such items as the liver and onions, Hawaiian tuna rounds, and battered perch are undoubtedly good for you. Somehow the tacos, burgers, ice cream, Crunchberries, and Lucky Charms always seem more appealing though.

ARA serves three different entrees at each meal, and there are always salad bar and ala carte sandwiches available. Eventually everything will start to taste the same. Everyone knows what universal ARA red sauce is. It's what makes the chili taste like the spaghetti, the ravioli taste like the potato boats, and the french dressing taste like the strawberry Hi-C. When this happens it's time to blow some scarce money and free time to fill that tummy at one of Terre Haute's many fast-food restaurants. Gather up the coupons and hit Hardee's or wheel into Rally's. If you hurry there may be time to cruise the Wabash once or twice.

If the hunger pangs hit past midnight there is only one thing to do...go Krogering. At Kroger's there is a special health food section. There one can pick-up rice cakes, dried figs, fresh celery, trail mix...next aisle: Little Debbie's, Krunchers, and Mountain Dew.

Rose-Hulman commuter students have a pretty good stash at home or at the fraternity house. For lunch, they usually bring some fresh fruit and baloney sandwiches. The worst pitfalls of the commuter diet are the Worx and the vending machines. The vending machines are a good place to get such delicacies as microwave popcorn, snowballs, and Beanie-Weenies. You can also talk to the many professors who congregate there. They have to get their daily fix of coffee, Coke, or microwave popcorn as well.

The one truly healthy food that we all love is pizza. It is so nutritious it contains ingredients from all five food groups. Whether it's Pepperoni Lover's from Pizza Hut, Pan Pan from Little Caesar's, the Monster from Noble Roman's, or the $5.95 special delivered in less than 30 minutes from Domino's, pizza seems to be the solution to the worst of all our prob-
Men at Work

Rose-Hulman, as we all know, is full of challenges. Aside from academic pressure, financial struggles are one problem which most of us are facing. Fortunately, there are a number of loans and scholarships available to qualified students. One of the most widely offered opportunities is work study. It is a federally funded program in which a school gets a certain amount of money from the government each year and then distributes it to approved applicants who are willing to work for it. In most cases, there is not enough money, and so the school is responsible for providing the rest.

According to statistics this year there were 715 students awarded work study. The typical award is about $900. This means a total amount of $640,000! However, we receive an average of only $100,000 per year from the government — how is Rose supposed to come up with the remaining $540,000? The answer is that not every one collects his full award. Some might decide to work off-campus and not accept the award at all. Others find that they do not have enough time to earn the full amount allowed. Such cases reduce the number of student workers to around 200-300 per year and bring the total amount of work-study money down to a manageable level.

Work study and other campus jobs have become a common aspect of college life for many students. From mailroom to mowing grass and typing to tutoring students, work study is one more activity for the already active Rose-Hulman student's life.

Top: Freshman Jason Bilsland is busy stamping in the Development Office.

Bottom: Sophomore Michael Mazur logs some of the numerous incoming mail.
Top left: Greg Poska and David Huff bind books in the Print Shop.

Below: Mark Brehob assists Kent Flint as Rick Stroud looks on Waters Computing Center.

Bottom left: Learning Center tutors Mike Poisel and Adam Griner review papers.

Layout and Photography by Wilfred Wong
Silence is Golden
Life at Rose sure ain't no joke

In Search of a Clue

To their horror, students find that Rose-Hulman is moving up in the world, and in the nineties: cluelessness is out!

Above: Rob Riggins and the California Raisins. Left: Happy Birthday, Mike Brier! Below: RCF redefining the word "weird."
but take a look
at things FUNNY SIDE

Layout and Photography by Tom Bogle

Now that Rose-Hulman is on the brink of becoming the world's finest engineering school (and going co-ed), students and professors alike have joined the mad scramble for clues. After an era of intense cluelessness, this sudden shift is causing a lot of confusion. But down at the geek center, they have good news; the VAX went into batch mode and generated enough clues to carry us through the next century. For example, clue #231,472,197 reads "SYNTAX ERROR." Hmm... while they try to get things straightened out down there, we might as well try to pull together a few clues of our own:

CLUES FOR STUDENTS:

* Do not speak up in class... you might wake up the professor.
* Learn your professors' names, for use when they are present.
* If you stay up too late to attend class the next morning, call your professors before you go to bed to inform them that you will not be attending.
* Politely inform professors when they say stupid things in class (i.e., when you don't understand them).
* Disconnect your smoke alarm before lighting bonfires in your room at night.

* Don't climb the trees in the Union.
* Academic fitness means using your brain to find creative ways to blow off.
* When prospective students come to visit, pretend you like it here.

SPECIAL CLUES FOR PROFESSORS:

* Do not bore your students.
* Do not assign homework on Tuesdays, Fridays, over holidays, during busy times, or on other weekdays.
* The best way to insure a C average is to give all F's at mid-term and all A's for final grades.
* Pop quizzes only inspire cluelessness and should thus be avoided at all costs.

Top: Moving up in the world. Above: Dennis Moore's amazing foot. Below: Cheerleaders' amazing feat. Left: Revenge of the geeks!

Help the Solar Phantom win the Race!!!
Freshmen
Class of 1993

Enrico Antonini
Robert Arlt
Kyle Arnold
Bruce Artman
Charles Arvin

Scott Beach
Don Benningfield
John R. Biddle
Jason Bilsland
Carl Boston

Chad Braunecker
Brent Brewer
Jeff Brier
Brian Brown
Chad Brown

Jason Brown
Caleb Buchanan
Brice Bucher
Kevin Cahill
Richard Campbell

Sean Chambers
Michael Cole
Richard Comer
Charles Cooper
Chris Crosby
Freshmen
Class of 1993

William Haas
David Haddix
Jeffrey Haggerty
Bryan Hales
Matthew Harbert

Rhett T. Harper
Robert Hastings
Chad Hedden
Loren Heinze
Tony Hinrichs

Patrick Holmes
David Huey
Christopher Jackson
Gregory Jensen
Eric Kamm

Andy Kasal
Harold Kays
Brian Kendall
Mike Kerrick
Christopher Kilander

Steven King
Daniel Knight
David Kokoska
Mike Kridner
Cory LaRoche
Eric Ledford
Todd J. Lemon
Clint Lewsader
Trevis Litherland
Jeffrey Little

Jason Livermore
Jay Lorentz
John Lukowski
Gerald Madlamabay
Mark Mars

Brett Mazany
Andrew McConnell
Patrick McCradden
Eric Mihal
Jeff Miheve

Coey Minear
Bryon Mish
Robert Moffett
Eric Moody
Matthew Morley

Pete Murfey
Kevin Neier
Theron Nelson
C. Randall Newton
Andrew O'Connell

William O'Connell
Raymond Orie
Mihir Patel
Mark Pauls
Alan Peacock
Freshmen
Class of 1993

Michael Pogue
Kyle Powell
Chad Powers
John Price
David Prunty

James Purcifil
Brent D. Reyher
Kelby Ridenour
Joseph Ritz
Robert Rogers

Greg Rumple
Gerald Ruppert
Heath Scheiman
Dylan Schickel
Alan Schnarr

William Schomer
Joel Seibert
William Sider
Jeff Sievertson
Greg Simons

Barry Simpson
Stephen Smalley
Leif Sorensen
Doug Sowder
Edwin Stacy

Douglas Pearson
Brandon Pepelea
Eric Peter
Ryan Stafford
Doug Staker
Jason Staley
Donald Stanton
Daniel Steele

Arden Stiers
Wade Stockton
Mark Stremler
Kevin Stultz
Steve Sunberg

Brad Sutton
Lars Swanson
Andrew Tanner
Steven Taylor
Michael Thomas

Patrick Townsend
Thomas Valentine
John Vance
Greg Vialle
Tri-Hung Vu

Michael Waldbieser
Gregory Ward
Jim Watkins
Brent Watts
Andy Weber

Gregory Wiley
Bruce Will
Daniel Wilson
Cheng S. Yu
Larry Yunker II
Sophomores

Class of 1992

Bryan Hankins
William Hartwell
Ryan L. Hawk
Michael Helmecki
John Henning

Mark Hiatt
Pete Hinzy
Brian Horning
Scott Huff
Stephen Johnston

Matthew Jones
Michael Jordan
Jason R. Karlen
Mark Kazmier
Michael R. Keeney

Gregory Kemp
Brian M. Knox
Eric Koetter
Daniel Krieg
David Kyle

Robert Ladson
David Lahey
Robert Lamberson
Steven Lawrence
Kevin W. Lee
Sophomores
Class of 1992

Shane Pickett
John Piga
Phillip Poor
Ravi Puttaiah
Brian Ream

Christopher Reed
Steven Reid
Thomas Rude
Brian Rychener
Mark Schechter

Brett F. Schneider
Warren Shrader
Doug Secrist
John Sherrard
Jeffery P. Skiver

David Smith
Randall Spicher
Jason Ssutu
Lance Stallcop
Greg Starkey

Sean Stephens
Lucas Stockhauer
Jason Stoll
Michael Sulit
Bruce Swanson
Sophomore Portraits — 79

Mark Throop
Ashley Trimble
Rob Virostko
David Vititoe
Erik Wallace

Jeff Windau
Edward Witt
Chris Wolfe
Kevin Zaylskie

Eric R. Wandel
Matt Warstler
David Weed
Scott Weishaar
George Wenig

Brian Whipp
Jon Whitcomb
J.D. Whitworth
Jason Williford
Chris Wilson

Jeff Windau
Edward Witt
Chris Wolfe
Kevin Zaylskie
Juniors
Class of 1991

Clinton Adams
R. Matthew Adams
Greg A. Aimone
Michael Allard
Phil Banet

William Bates
James Blasdel
Paul J. Boenitz
Thomas Bogle
David Boroughs

Lawrence Boxier
Michael Brier
Clint Brock
David Brombaugh
Steven Brown

Todd Brown
Bob Burger
Jeffrey Burns
Todd Butler
Carlos Carrillo

Brian Coate
Carl F. Cole
Timothy Conarroe
Kevin Coryea
Shane Cox
Alex Crespi
John Cunningham
David M. Devore
Charles Dewey
Robert DeYoung

Kirk Eisert
J. Lawrence Elkin
Andrew Fagg
Michael Fagg
Brett Fathauer

Howard Fischer
Joe Forler
Cary Gerber
Bobby Getts
Carl George

J. Langley Gibson
Nicholas Gill
Tom Giron
Michael Gowin
Kevin Grabowski

Don Greiveldinger
Darin Greggs
Adam Griner
Mark Haas Jr.
Bryan Hahn

D. Brian Hall
Greg Hall
Bryan Haney
Alan W. Hardenburg
Daniel Hector

Junior Portraits — 81
Juniors
Class of 1991

Scott Hiller
P.J. Hinton
Steven L. Jackson
John G. Jones
Michael Jones

Chris Kabrick
Paul Kimmerle
Eric Kissell
Kevin Klueper
John Knight

Andrew Kotlinski
John Lacheta
Todd Latterell
Robert Lind
David Lockard

Biao Louie
Brent Lyons
Alan Manche
John Mayo
Kent L. McCorkle

Thomas O. McCormick
Keith Miller
Bill Mills
John Minor
Trevor M. Moeller
Juniors
Class of 1991

Mark A. Reed
David Rikkers
Douglas Rosenberger
Paul Rudolph
Brian Ruff

Mark Schuld
George Shumay
Reece Scott
Charles Schaub
Russell Semersheim

Robert Shea
Scott Simmonds
Mark Skarpness
Frederick M. Spinner
Scott Sprehn

Craig Stucky
Steven Susten
Ahmed Syed
Christian Chadd Taylor
Steven M. Taylor

Ronald Timm
Charles Tommey
Paul D. Tougaw
Hoane Truong
Steven Vinson
Out of Context
A picture may be worth a thousand words, but this may be carrying it too far...

What time did you say Jess and the boys are getting back?
One, two, three, drink.

Figures, the first Rose guy to approach us all night and he's carrying a camera.

Great, we set up all this equipment and only three, oops, make that two girls show up.

The response of Meesians when asked how many times laundry should be done in a year.

Well, this is one way of Racing into the Nineties.

I was sitting in class, and I started dreaming about MAPLE trees.

Think they'll let us in at Simrell's?

No, I'm afraid Dr. Brophy's Human Sexuality files are only available to students enrolled in his class.

Does this thing get The Simpson's?
A 24-room suite as your home in the new residence hall when it is built? What a SILLY idea, Tom.

My vision is limited to two feet

And there it was, on the board, the BIGGEST triple integral I have seen in my life . . .

No honey, I do NOT love Dr. Acker more than you, but I have to get this project completed . . .

Gee, if I hurry I can make toilet seat covers for the whole hall.

Well, you think we ought to get started on this light bulb?

Another award winning Modulus sports action shot.
In Memoriam

The closing page of the student section of Modulus 1990 is in memory of Donald P. Hatton.

Donald was a freshman at Rose-Hulman from Mayfield, Kentucky, who was killed in an automobile accident last December.

His memory remains in the students who were friends of Donald Hatton. Even those who did not know him were saddened by the tragedy of his death.
Greek Games

Greeks
1990 GREEK GAMES RESULTS

SONGFEST: 1 — PKA 2 — LCA 3 — DSP
CART RACE: 1 — LCA 2 — ATO 3 — SN
O-COURSE: 1 — LCA 2 — ATO 3 — TRI
MYSTERY: 1 — PKA 2 — TRI 3 — LCA
PYRAMID: 1 — LCA 2 — DSP 3 — FIJI

Above: Hey! How do I get down?

Below: The Sigma Nu's complete their pyramid.
Above: Lambda Chi takes the lead in the cart race.

Below: The Pikes watch the competition in awe.
Alpha Tau Omega had another outstanding year. Receiving the Community Awareness award, and a runner-up True Merit award, began the year on a positive note. Success continued with the arrival of a new pledge class.

Numerous activities also keep ATOs active throughout the year. There was the annual Faculty Pizza Party, Special Olympics Track Meet, Dobbs Park Project, and Peddle Park Christmas Show. Athletics also played an important role in the chapter as ATOs were captains on six varsity sports and ATO captured the IM All-Sports Trophy for the third consecutive year.
For the Men of Delta Sigma Phi, the 1989-90 school year was an awesome year. Starting off the year, Delta Sig showed school spirit and group effort in the Homecoming Banner and Cheering Contest by placing first in both. Fall Rush went very well for Delta Sig as we picked up 19 new actives. Our social program was successful in amending our risk management policy while still having excellent social functions. Our chapter was awarded the Pyramid of Excellence — the highest honor given by our Nationals. This year, we have raised record amounts of money for March of Dimes through Mother's March, Basketball Marathon, and Walk-America. In addition, our grades have shown considerable improvement through the long harsh winter. We look forward to another great year.

Above: Delta Sigs show their pride during Greek Games.

Middle: The annual Delta Sig Campout Party.

Bottom Left: Taking time out from a Delta Sig party.
Above: The Lambda Chi cheering section.

Below: What do I do now?
Phi Gamma Delta
RHO PHI CHAPTER

1989

Rose Hulman Institute of Technology
Above: Hey! Let's play leapfrog.

Right: A Fiji alumni reunion.
Pikes started the year in grand fashion by pledging a fine associate class. They continued the year by retiring the scholarship trophy, winning the Delta Gamma’s Anchor Splash, and winning nearly half of the events at Greek Games. During the year, Pikes logged over 1300 hours of service to the community with projects such as Adopt-A-Highway, Dobbs Park Project, the March of Dimes Walk America, ringing bells for the Salvation Army, the Light House Mission, and many other fun projects.
Sigma Nu
BETA Upsilon Chapter

1989 1990

Rose Hulman Institute of Technology
This year proved to be another good one for the men of Sigma Nu. Major events included their annual Christmas Caroling, which succeeded in bringing joy to all involved, and Delta Gamma sorority's Anchor Splash, in which they were involved for the first time. They were also the proud recipients of the Jess Lucas Spirit Award, which will hopefully become a Sigma Nu tradition. The annual Riverboat Dance was again held in Cincinnati, cruising the Ohio and viewing the city's beautiful skyline.

Above: The brothers of Sigma Nu get together for some intramural basketball action.

Left: Craig Laker goes up and over Greg Poska for the slam dunk.

Right: The intersection of Terre Haute's lovely Park and Center Streets.
Theta Xi
Kappa Chapter

1990

Rose Hulman Institute of Technology

David Petruska
Assistant Treasurer

James Conway
Secretary

Fred Baatz
Senior House Manager

Mike Bone
Vice President

Dorian Pacheco
President

Thomas Adams
Treasurer

Frederick Spinner
Junior House Manager

Paul Fitton
Scholarship Chairman

David Petruska
Assistant Treasurer

James Conway
Secretary

Fred Baatz
Senior House Manager

Mike Bone
Vice President

Dorian Pacheco
President

Thomas Adams
Treasurer

Frederick Spinner
Junior House Manager

Paul Fitton
Scholarship Chairman
Above: Mike Bone and Thomas Adams show us their Halloween costumes.

Below: Theta Xis building their pyramid for Greek Games.
Above: You’re all wet.

Middle: Triangles catching some rays at Mardi Gras 1990.

Left: “What do you think, Jimbeaux, one more gallon of lighter fluid?”

Right: Russ, Jim, and Nick hard at work putting the finishing touches on the new driveway.
Fourth-Straight Winning Season for Team

It was another record-breaking year for the Rose-Hulman football team in 1989 as nine players put their names into the Engineer record book.

Also, Rose-Hulman, 5-4-1 this past season, closed out the 1980s with its fourth straight winning season — and seventh during the decade. The team had a 60-36-2 record during the 1980s to rank as one of Indiana’s most successful small-college teams.

"It shows the commitment our players continue to make toward success in the classroom and on the playing field," says Rose-Hulman Coach Scott Duncan, who accounts for half of those victories — having a 30-9-1 record after his first four seasons in Terre Haute. "Most colleges would love to have our record during the 1980s," he said.

Those same teams would enjoy Ed Huonder, Brian Bartley, Scott Thomas, Todd Foreman and Jerry Harris on their rosters, too.

Huonder, a junior, led Rose-Hulman in receptions (38) to tie Kevin Murphy for third place (100) on the all-time receiving list. Huonder also ranked among the nation’s top kickoff return specialists in Division III, averaging 30.1 yards per return. He had two 85-yard touchdown returns during the 1989 season.

Huonder already ranks as the Engineers’ all-time kickoff return specialist, with 572 yards on 19 returns (a 30.1 average).

Bartley, a senior, led the team in receiving yardage (550) and dazzled the crowds at Phil Brown Field with a 76-yard touchdown catch against the University of Chicago (a 46-19 Rose-Hulman win). He moved into sixth place on the all-time receiving list (1,038 yards) this past fall.

Thomas, another senior wide receiver, joined Huonder and Bartley in the record books, placing eighth in both career receptions (69) and yardage (863).

Foreman, a freshman, stepped in to perform admirably throughout the 1989 season. Getting his first collegiate start in the second week of the season, Foreman finished the year with 115 completions for 1,456 and seven touchdowns — statistics already ranking him among the college’s top signal-callers.

Captains of the 1989 team were seniors Brett Starr, the team’s leading tackler (86); Brian Runkle, a four-year starter at center; and place-kicker Shawn Ferron, who scored 134 points during his career.

Above: Senior QB Andy Richards sights an open receiver. Right: Another outstanding punt by Steve Dinsmore.

1990 Rose-Hulman Football Scores

<table>
<thead>
<tr>
<th>Team</th>
<th>Score</th>
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<tbody>
<tr>
<td>Rose</td>
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<tr>
<td>Millsaps</td>
<td>7</td>
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<tr>
<td>Hanover</td>
<td>31</td>
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<td>Rose</td>
<td>14</td>
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<td>Washington</td>
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<td>Rose</td>
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<td>UW-Oshkosh</td>
<td>33</td>
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<tr>
<td>Rose</td>
<td>32</td>
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<tr>
<td>Sewanee</td>
<td>20</td>
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<tr>
<td>DePauw</td>
<td>37</td>
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<tr>
<td>Rose</td>
<td>16</td>
</tr>
<tr>
<td>Earlham</td>
<td>7</td>
</tr>
</tbody>
</table>
1989 Engineer Football

Right: The Engineers face some tough opponent defense. Top Left: Scott Thomas gains some yards for the Engineers. Above: Fourth-year Coach Scott Duncan.

Todd Foreman, freshman QB, makes a pass (left) and gets advice from senior Mark Montgomery (right).
A Prosperous Season For Cross Country

The Rose-Hulman Cross Country team enjoyed a prosperous season in the fall of 1989. Many of the early season goals were reached by the team such as high finishes in the Little State meet (5th place), in the Indiana College Athletic Conference (2nd place), and in the NCAA Regional Championship (7th place). Through hard work, positive attitude, dedication and teamwork the cross country team had reached its goals.

Many of the individual team members improved their performances this year. The most notable runner was Chris Wilson. Chris placed first in the homecoming dual meet against Wabash College. In that race, he set the school course record with a time of 25:47. Chris was the top Rose runner in all but two of the meets in 1989.

Greg Dixson, Bob Jacobs, Jason Lueking, Brian Moench, and Frank Visingardi gave the team the depth needed to place high in the meets. All of these runners had improved their personal best times for the 8-kilometer distance (all had times faster than 26:45).

Steve Lawrence, Tony Kochert, Brett Mazany, Brad Bechtel, Mark Stremler, Jesse Penn, and Tracy Grunden were all part of the team this year. Their participation was valued greatly and in the years to come you should see great results from them.

Of course none of this could have been possible without Coach Welch, the newly inducted member into the Indiana Track and Field Hall of Fame. Coach Welch gave all he could to the team this year. All of his runners appreciated his dedication and rewarded him by competing to the extent of their abilities.

By Frank Visingardi

1989 Cross Country Placing

Bellarmine Invitational — 2nd of 12
Midwest Collegiates — 16th of 28
Danville, Ill., Invitational — 2nd of 15
Wabash College — L 21-38
Indiana Intercollegiate — 7th of 21
Indiana Collegiate Athletic Conf. — 2nd of 8
at NCAA Regional, Albion, Mich. — 7th of 26
Soccer Squad Improves

In a season filled with its share of ups and downs, the Rose-Hulman soccer team continued to show improvement.

There were several positive points regarding the 1989 season, including:

- The team posted more wins (six) and goals (26), while allowing fewer goals (35), than during 1988.
- The team, 6-11-2 this fall, was quite competitive against a challenging schedule — leading or being within striking distance at halftime of every match.
- The team tied for third place in the Indiana Collegiate Athletic Conference.

"It was gratifying to end the year on a positive (1-0 over the University of Indianapolis) note," says coach Greg Ruark, completing his second year with the Rose-Hulman program.

"Hopefully, we learned several lessons this year. Those experiences should carry over to make us a better team next year," Ruark said.

The future does seem bright. Forwards Todd Logan and Andy Causey, the team's top two scorers in 1989, give Ruark a good nucleus of talented players to build more successes upon next season.

Logan scored six goals during his junior season.

Senior forward Dan Palazzolo finished the season with two goals and one assist in the team's final four matches. He finished the year with three goals to tie fellow senior Garrett Gehlhausen in the scoring statistics. Palazzolo led the team with seven assists.

Senior midfield Alan Radomsky scored two goals and had two assists this past season.

Senior defenders Mark Schulz and Dan Vetters joined Palazzolo as captains of the team.

1989 Soccer Scores

<table>
<thead>
<tr>
<th>Team</th>
<th>L</th>
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<tbody>
<tr>
<td>Rockford College</td>
<td>2-1</td>
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<tr>
<td>MacMurray College</td>
<td>1-1</td>
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<tr>
<td>St. Joseph's</td>
<td>2-1</td>
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<tr>
<td>Taylor</td>
<td>1-0 OT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manchester</td>
<td>4-0</td>
<td></td>
<td></td>
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<tr>
<td>Ill. Benedictine</td>
<td>3-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MacMurray</td>
<td>3-1</td>
<td></td>
<td></td>
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<tr>
<td>Anderson</td>
<td>3-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principia</td>
<td>1-0</td>
<td></td>
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<td>Maryville, Mo.</td>
<td>1-0</td>
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<td></td>
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<tr>
<td>IUPUI</td>
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<td></td>
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<td>Franklin College</td>
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</tr>
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<td>Millikin University</td>
<td>2-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thomas More College</td>
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<td></td>
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<tr>
<td>DePauw University</td>
<td>5-1</td>
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<tr>
<td>Butler University</td>
<td>3-1</td>
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<tr>
<td>Greenville College</td>
<td>2-1</td>
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<tr>
<td>Wabash College</td>
<td>1-0</td>
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<tr>
<td>Univ. of Indianapolis</td>
<td>1-0</td>
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</tr>
</tbody>
</table>

Top: Eric Smith

Left: A race for control of the ball.

Right: The opposition attempt a steal from soph. Andy Causey.

Left: Coach Ruark
1989
Rose-Hulman Basketball
Basketball Team Finishes Hot For 17-9 Record

The curtain came down just as the Rose-Hulman basketball team was warming up for the 1989-80 season.

The Engineers won their last three games to finish with a 17-9 record — barely missing a second straight trip to the NCAA Division III post-season tournament.

"We played our best basketball in the last two weeks of the season," said Rose-Hulman Coach Bill Fenlon, whose teams have won 36 of 53 games (68%) during the past two seasons. It's a shame the season couldn't have lasted a few more weeks. The players — especially our seniors — were putting it all together against some good teams."

Yes, Rose-Hulman may have been the hottest team in the Indiana Collegiate Athletic Conference in late February — outscoring opponents by a 15-point margin in the final three games — victories over Wabash College (69-50), Taylor University (67-57) and Manchester College (75-59).

A 55.3-point defensive average over the final stretch helped push the team's seasonal average to 63.2 points a game — ranking among the top 15 of all Division III teams.

"Some people may have expected more from this team, but in some respects it exceeded my expectations," Fenlon said. "The players set lofty goals for themselves — some of which may have been beyond reach."

"I'm not disappointed. We had a great season. We won 17 games playing what may be the toughest schedule in Rose-Hulman history. With the exception of one game (a 77-50 loss at Taylor in late January that the team avenged, 67-57, in February), we were in a position to win every game. That's all I can ask. We had some misfortunes, but overall we had some good times."

The Engineers, who had a 10-2 home record this past season, finished fifth (8-6) in their first ICAC season.

"This is a tough league," Fenlon noted. "Some people questioned if we could be..."
1989-90 Rose-Hulman Basketball Scores

Blackburn - L: 79-70
Washington - L: 63-51
Purdue Calumet - W: 75-55
MacMurray - W: 62-59
Franklin - L: 83-81
Thomas More - W: 78-62
Eureka - W: 64-55
Earlham - W: 91-47
Greenville - W: 68-61
Brescia - W: 75-72
Allegheny College - L: 66-64
Ursinus College - W: 77-58
Lindenwood - W: 69-64
DePauw - L: 57-55
Anderson - W: 89-79
Wabash - W: 63-61
Hanover - W: 72-69
Franklin - L: 70-67
Taylor - L: 77-50
Manchester - W: 58-56
Anderson - W: 70-61
DePauw - L: 64-53
Hanover - L: 69-65
Wabash - W: 69-50
Taylor - W: 67-57
Manchester - W: 75-59

Above: Coach Bill Fenlon led the team to 17 victories during the season.

Top Right: Dusty Dehaven takes a jump shot.

competitive in the ICAC. I think we answered that question. Now we've got to prove we can win the league championship."

Fenlon will have a good nucleus to prove that point next season. Forward Britt Petty, a junior from Terre Haute, was twice named the ICAC’s Player of the Week last season. He led the team in scoring (18.2 points per game) and blocked shots (17) for the second straight season.

Other top returnees should be junior forward Dan Keown, who averaged 9.9 points a game; junior guard Mark Christman, who started 20 games; and junior forward/center Rodney Adams, who scored a career-high 18 points in the season finale.

Also, the junior varsity team had a 9-2 record — beating DePauw, Wabash and Franklin.

Center Tim Cindric led this year’s senior class, averaging 12.8 points and six rebounds a game. The mechanical engineering major from Indianapolis finished his career with 1,083 points and was a second-team selection on the 1990 District 5 GTE Academic All-American team for college division players.

Other seniors included guard Ron Steinhart, a four-year letterman and Rose-Hulman’s third-ranked career assist leader (324 to tie Tom Butwin); guard Dusty DeHaven, who started the last seven games and scored a career-high 33 points against Anderson University in early February; guard Phil Eckert, who played in all 26 games and collected 33 assists; and forward Trevor Olsen, a reserve who averaged 2.8 points and 2.1 rebounds a game.
Baseball team makes great strides

First-year Coach Jeff Jenkins didn’t waste much time turning around the fortunes of Rose-Hulman’s baseball program.

After winning just seven games in 1989, the Engineers just missed having a winning season (16-17) this past spring. The team had victories over Wabash College, DePauw University, Manchester College, Taylor University, IU — Southeast and Millikin College.

Rose-Hulman tied for seventh place in the eight-team Indiana Collegiate Athletic Conference, posting a 4-10 record in league play.

The future does look bright as the team graduates just one senior, most valuable player Kyle Thompson. The second baseman led the team in doubles (13) and walks (19) while having a .367 batting average.

Top players for next season should be first baseman Kevin Patterson, who posted the team’s highest batting average (.370); shortstop Kevin Kluemper, who led the team in runs scored (30) and hits (39); outfielder Neil Glaze, whose .348 batting average in ICAC games was good enough to earn all-league honors; and third baseman John Sherrard, who had a .350 batting average.

Jenkins also has a stable of quality pitchers, including right-handers Marc Bastian, Dave Gowans, and Tim Watson. Bastian earned honorable mention all-ICAC and regional honors this spring after having a 6-2 record and 1.95 earned run average. He had a 2-2 record with a 1.25 ERA in league games — being on the losing end of two one-run defeats. He was named the Engineers’ most improved player at the team’s banquet earlier this month.

Gowans started the season with a 2-0 shutout against Bluffton College. He finished with a 4-3 record and a team-high 42 strikeouts in 52 innings.

Watson, a 6-foot-8 freshman, was named the team’s Newcomer of the Year after having a 3-3 record and 4.31 ERA.
Left: Kyle Thompson smacks one.

Below Left: Home Run!

Below Right: Doug Ream slides into 2nd on a steal
What's Matt Morin going to do for an encore? This is what the sophomore applied optics major from Spencer has accomplished the past two seasons for the Rose-Hulman wrestling team:

- A 48-11-1 overall record (80 winning percentage)
- Two Indiana College Athletic Conference championships in the 150-pound weight class
- Consecutive top 6 finishes in the NCAA Division III regional tournament (including qualification for the national championships in 1989)

"In just two years, Matt has gained quite a reputation for quality and workmanship on the wrestling mat," said Rose-Hulman Coach Dan McGrath of Morin, a former Indiana high school champion at Owen Valley High School. "Matt exhibits near-perfect technique. Spectators don't take their eye off the mat whenever Matt wrestles a match."

Morin lost two hard-fought matches by identical 3-2 scores Feb. 22-23 at the NCAA regional tournament at Augsburg College near Minneapolis, Minn. He had been the second-ranked wrestler in the weight class.

Morin joined junior Jim Winkley (142 pounds) in winning ICAC championships this winter. Overall, the Engineers finished third in the league tournament. The team also finished third in the five-team Rose-Hulman Invitational in early February.

Winkley finished the year with a 17-14 record in one of the nation's toughest weight classes.

Other members of the 1989-90 team included seniors Brian Engle, at 126 pounds, and Spiro Megremis, at 167; junior Matt Murphy, at 134; sophomore Dave Koehl, at 158; and freshmen Jeff Haggerty, at 134; and Dan Corey, at 190.
1989-90 Rose-Hulman Track

Track teams lose talented seniors

It's not surprising that seniors took home most of the awards at the track team's year-end banquet. After all, members of the 1990 senior class of runners may have been in a class by themselves.

Consider, if you will, that Brian Bartley, Jason Lueking, Brett Starr and Bob Jacobs won Indiana Collegiate Athletic Conference championships that past two spring seasons. Also consider that Bartley and Jacobs represented Rose-Hulman at NCAA Division II indoor or outdoor national championship meets in 1988 and 1989.

Finally, consider that the Engineers won three conference championships during their four-year careers and you get a pretty good idea why Coach Bill Welch says: "This class will be greatly missed."

Other seniors on the 1990 team were sprinter Rick Kocken, distance runners Brian Moench and Frank Visingardi, and field event specialist Scott Strayer.

The 1990 team won several conference titles during the outdoor season — the 100th in Rose-Hulman history. Bartley set ICAC records in winning the 100-meter high hurdles and 400-meter intermediate hurdles events for the second straight season. Lueking won the 1,500-meter run event, while Larry Boxier placed first in the pole vault (15-foot-3 1/2) — and qualified for the NCAA Division III outdoor national championships.

Overall, the Engineers finished fifth at the ICAC meet — a few points out of third place.

Bartley was named the team's most valuable sprinter this season; Lueking took top honors in the middle distance category; while Boxier joined discus thrower Tom Gorsich as co-MVP's among the field event athletes.

"This year's seniors were a great group of outstanding competitors and student-athletes," said Welch. "I'll remember this group for their leadership and personal friendships more than any record or conference championship. They were a pleasure to coach."

1990 Rose-Hulman Swimming

Varsity Swim Makes Splash Debut

Rose-Hulman competed in its first varsity swim season this year. Making the biggest splashes were sophomore Mike Lesniak in the 50- and 100-meter freestyle events; freshman David Huff, 200-meter individual medley; and sophomore Ed Fancher, 100-meter backstroke.

Above: Hurdle and shot put action.

Right: Larry Boxier, Rose's outstanding pole vaulter.
Netters show strong finish

Once the 1990 Rose-Hulman tennis team got warmed up, the Engineers were among Indiana's hottest small college teams this past spring. Coach Dan Hopkins' team won six of their last nine matches to have a 6-14 record.

"The team really played good tennis after winning a few matches," observed Hopkins, whose team didn't win a match in 1989. "Now, they've got confidence in themselves and their play abilities."

Top players included No. 1 singles player Eric Berzsenyi, who had a 12-15 record; Tri Vu, 13-12 at No. 3 singles; and Chris Halioris, 10-13 at No. 6 singles.

"This team came a long, long way," noted Hopkins. "We played a tough schedule. We could have had a winning season, if I had scheduled weaker opponents. But, as you can see, the tougher competition paid off for us at the end of the season. It should make us even better for next fall and spring."

Other members of the team this spring included Steve Brown, at No. 2 singles; Tony McAllister, at No. 4 singles; Jonathan Drew, at No. 5 singles; and doubles player Neil Petroff.

Halioris and Petroff were the only seniors on the 1990 team.
Members of Golf Team were: Scott Salter, Rich Lesniak, Mark Schuld, Mark Reedy, Mike Bergenthal, Chris Posey, Alan Waggoner, Wade Stockton and Matt Remke. Participants were: Brian Hall, Troy Wilhelm, Clay Armstrong and Chris Gessaman.

Posey earns all-conference honors

From the first match, Rose-Hulman golf Coach Gene Mitz knew freshman Chris Posey would make a significant contribution to the 1990 team.

The Terre Haute native didn't let Mitz down, earning All-Indiana Collegiate Athletic Conference honors this past spring. Posey shot a 36-hole 165 score to tie for eighth place in the 1990 ICAC tournament at the difficult Hulman Links Golf Course in Terre Haute.

"Chris didn't play like a freshman. He was aggressive on the course," said Mitz, whose team placed sixth in the league tournament.

The team's future should be bright, with underclassmen posting the Engineers' top three scores in the ICAC tournament. Following Posey were freshman Wade Stockton (174) and junior Mark Schuld (176). A few days after the ICAC meet, freshman Alan Waggoner fired a 151 score to lead the Engineers at the Wittenberg Invitational Tournament.

Seniors Rich Lesniak and Scott Salter provided leadership to this year's team.
1989-90 Coaching Staff

1989-90 Basketball Team

(Front row) Mark Christman, Brian Sullivan, Dusty DeHaven, Scott Woods; (Second row) Scott Beach, Dan Keown, Paul Hedinger, Phil Eckert; (Third row) Shawn Brainard, Ron Steinhart, Brian Alexander, Britt Petty, Chris Hammond; (Top row) Tim Cindric, Andy Hendricks, John Lacheta, Trevor Olsen, Corey Ottens, Rodney Adams.
1989-90 Wrestling Team

Back: (Left to right) Warren Mattson, Jim Winkley, Jeff Haggerty, Spiro Megremis; Front: Matt Morin, Sean Chambers, Matt Murphy, Brian Engle;
(Not pictured) Mike Crist, Dave Koehl, Dan Corey.
1990 Baseball Team

1990 Baseball Team included: Kyle Thompson, Marc Bastian, Neil Glaze, Ed Huonder, Kevin Kluemper, Kevin Patterson, Shane Cox, Eric Cunningham, Nick Gill, Dave Gowans, Jeff Hansen, Mike Lehr, Dave Merrell, Brian Schwager, John Sherrard, Chad Boewe, Todd Greener, Rob Hastings, John Lukowski, Brian Miller, Tim Watson, Barry Weisman. Participants were: Mike Kridner, Chad McQuillen, Linn Oelker, Eric Steinbach.
Members of the Rose-Hulman Institute of Technology Rifle Team for the 1989-90 academic year included (front row, left to right) Michael Kim, Tom Giron, Anthony New, David Huey, and Dan Hector. In the back row are Coach Kenny Hitt, Eric Wandel, Rose-Hulman Athletic Director Scott Duncan, Richard Munoz, Brian Walling, Howard Moore, Patrick Zaharako, and Coach Paul Gulleltt. The team won the Midwest Rifle Conference's regular season title and post-season championship tournament.
Clubs & Organizations
Pi Mu Epsilon

Pi Mu Epsilon is an honorary mathematics fraternity whose purpose is to promote scholarly activity in mathematics among students. Undergraduate members are selected from either those upperclassmen who have at least a 3.00 average in mathematics and are in the top third of their class, or sophomore mathematics majors who have completed at least five quarters of mathematics with a straight 4.0 record in the mathematics courses. Activities include sponsoring a mathematics paper contest in the spring and a series of guest lectures in mathematics presented by professors from nearby universities.

Pi Tau Sigma

Pi Tau Sigma, national honorary mechanical engineering society, brings together those men who through academic and practical achievements show marked ability and real interest in the study and profession of mechanical engineering. Outstanding men are selected in the fall and spring terms from the highest one-third of the junior and senior classes. At regular intervals they meet to promote activities which stimulate interest in their department, to further the ideals of the engineering profession, and to develop in themselves and in fellow students the attributes of responsible citizens.
Tau Beta Pi

The Tau Beta Pi Association, a national engineering honor society, was founded in 1885 to offer appropriate recognition for superior scholarship and exemplary character to technical students and professional persons. Students in the upper eighth of the junior class and the upper fifth of the senior class and with an accumulative ratio of 3.10 or better are eligible. The honor conferred by election to membership is significant because of the Association's high eligibility standards, because the reward comes from the students, and because of the worldwide reputation of the society.

Tau Beta Pi is an honor society but it does engage in activities to further its objectives; such as stimulation of faculty-student communication and faculty course ratings. Each year the organization awards one professor the Tau Beta Pi Outstanding Professor Award.

Upsilon Pi Epsilon

It is the express purpose of Upsilon Pi Epsilon to promote Computer Science and to encourage its contribution to the enhancement of knowledge.

Undergraduate students must meet the following criteria to be eligible to be elected into membership: a. Completion of at least 96 quarter hours of college work, including 27 quarter hours in the basic computer science courses and b. maintenance of at least a 3.0 GPA on a 4.0 scale.

The Indiana Chapter of Upsilon Pi Epsilon was chartered at Rose-Hulman on April 3, 1986. It was the first chapter chartered in the state of Indiana.
Alpha Chi Sigma

Alpha Chi Sigma is a professional fraternity in chemistry. Membership is by invitation and is open to anyone who intends to make his life's work some profession in which chemistry predominates. A main objective of the chapter at Rose-Hulman will be to aid its members in the development of their careers in chemistry. The Rose-Hulman chapter was active from 1909 to 1938 and reactivated in 1984.

American Institute of Chemical Engineers.

All students in the chemical engineering curriculum are eligible for membership in the Rose-Hulman chapter of the A.I.Ch.E. As with other professional societies, the chapter seeks to familiarize the student with the responsibilities and situations encountered in his role as an engineer. This aim is accomplished through such activities as talks by persons prominent in the chemical engineering field, plant inspection trips, and student talks. Membership also leads the way to permanent affiliation with the national organization upon graduation. For chemical engineers, participation in the A.I.Ch.E. affords a chance to gain insights into their future careers.
American Society of Civil Engineers

The American Society of Civil Engineers offers to all students in the civil engineering curriculum an opportunity to broaden themselves in their future profession. It enables the student to meet with practicing civil engineers and to learn from their experiences.

The A.S.C.E. sponsors field trips, contests, guest speakers and movies of current civil engineering projects, in order to relate the theory of the classroom to the practicality of the real world. Membership in the A.S.C.E. is a big step toward becoming a professional civil engineer.

American Society of Mechanical Engineers

A student branch of the A.S.M.E. has been established on the Rose-Hulman campus. All students in the mechanical engineering sequence are eligible for membership and, after entering, will receive a subscription to ‘Mechanical Engineering’. The “Great Mousetrap Race” an annual event.

Upon graduation the student member becomes eligible for regular membership in this professional society.

The purpose of the student chapter of the A.S.M.E. is to give students an opportunity to exchange ideas and be exposed to professional mechanical engineering. Activities include the regular meetings and the annual spring outing. Also, the Rose-Hulman chapter is host each year to a meeting of the Central Indiana Section of the A.S.M.E.

Association for Computing Machinery

The Association for Computing Machinery, Inc., is the largest professional society for data processing specialists with members from the U.S. and many foreign countries.

Student organized and managed, the chapter activities are designed to further the members' knowledge of data processing through local, regional, and national conferences, field trips to computer installations, nationally recognized guest lecturers, and special projects in cooperation with the Institute's computing center.

Membership in the Rose-Hulman chapter of the ACM is open to all students at Rose-Hulman, ISU, St. Mary's, any high school in Vigo County, and any data processing professional in Vigo County. The only other requirement for chapter membership is an avowed interest in computers and computer languages. ACM national membership is not required but is encouraged.
Honorary Societies

Institute of Electrical and Electronic Engineers

Membership in the Rose-Hulman branch of the I.E.E.E. is open to sophomore, junior and senior electrical engineering students, as well as students in other areas with an interest in electrical engineering. The purpose of the I.E.E.E. is the advancement of the theory and practice of electrical engineering, electronics, and allied fields of science and engineering. In pursuit of this stated objective, the local branch presents a well balanced program, consisting of demonstrations and lectures by prominent men in industry and from other institutions, field trips and plant inspections, student seminars and student paper contests, and a chapter research project. Members receive the 'I.E.E.E. Student Journal' which is published quarterly, and may subscribe to more advanced publications of the organization. Upon graduation, a student may obtain full membership without payment of the regular initiation fee.

Physics Club

The Physics Club seeks to supplement classroom instruction and research and to serve as a vehicle of communication between physics students and the faculty. To serve the first of these ends the club sponsors three seminar series, organizes field trips, shows films, and publishes a journal annually. The journal consists of articles by the physics students. The articles may be on any topic of physics or related mathematics. They may be library research or experimental research. The meetings are usually of the seminar type designed to enlighten the members on practical as well as theoretical physics. The discussions are led by guest speakers, faculty members, or student speakers. All students are invited to attend any or all of the seminar meetings. In seeking to establish a more informal relationship with the faculty, the club sponsors weekly lunches with the faculty, occasional get-togethers at faculty members’ homes, and an annual picnic. Membership is extended to any students interested in any area of physics.
Publications

Modulus

The Modulus is the college annual yearbook. A student publication, the Modulus captures, in pictorial form, a summary of student activities throughout the school year. Membership on the staff of the Modulus is open to all students and students are encouraged to participate in advertising, writing, circulation, photography or layout and design.

Quarterly

Left to Right: Scott Webb, Michael Keeney, Mike Poisel, Adam Griner, Biff Maynard, Susan Smith.

Another student publication, the Quarterly is the journal for creative writing which is published each quarter of the academic year. Students are encouraged to participate in this publication by submitting poems, short stories, narratives, etc., or by becoming involved in staff work.
Special Interest Groups

Astronomy Club

Activities of the Rose-Hulman Astronomical Society include visual and photographic observations utilizing three fine instruments available to all members. An eight inch telescope is housed in the observatory and is an excellent instrument for planetary and lunar observations. The 10 inch and 12 ½ inch Newtonian reflectors are housed in the Lynn Reeder Laboratory and are more suitable for star clusters and nebulae. With this selection of instruments the organization has provided the versatility necessary to cover a wide range of astronomical interests. The society's function is to make constructive use of the facilities and to promote interest in astronomy and related sciences at Rose-Hulman.

Bowling Club

The Bowling Club is a new club to the Rose-Hulman campus that participates against other national schools.

Camera Club

The Rose-Hulman Camera club provides a well equipped darkroom for use by those interested in photography. Camera Club activities range from basic instruction in photography to the sponsoring of photography contests. Membership is open to all students who have an interest in photography.
Chess Club

The Club is an organization whose purpose is to provide informal organized competition for those who are interested in playing chess. The Club allows students and faculty a chance to compete against the Institute’s best players and to compete in School Tournaments and Championships. The Club publishes a short newsletter giving upcoming events and annotated games of the members. The Rose-Hulman Chess Team is the traveling representative organization of Rose-Hulman Institute of Technology. It is a group of six or more students that travel to state, interstate, regional and national team events. Team competition gives the students a great opportunity for improvement.

Circle K

Circle-K is a service organization emphasizing service to the community and school. It is sponsored by Kiwanis International which helps bridge the gap between Rose students and the business society. Circle-K promotes leadership and social development, and instills ideals of good citizenship and professional principles. If you were in Key Club in high school and would like to remain a member of the ‘K’ family, or you are just interested and willing to get involved, then, check us out!

Debate Team

Steve Taylor, Kevin Gilbert, Dan Boxeth, Dave Rikkers, Brian Taylor, Amit Bhatiani, Robert McCauley.
Special Interest Groups

Drama Club

Flying Club

German Club

The German Club is open to all Rose-Hulman students, not just those taking German. There are monthly meetings, each one having some kind of program. Speakers from German-speaking countries are invited to discuss topics such as German-U.S. relations, the European community and economic issues. The German Club has at its disposal quite a few modern German movies, slides, tapes, records, etc. and attends museum exhibits when in the surrounding area. Highlights are the German Christmas party held at Prof. Lehr's house, a Fashing-Costume party held together with St. Mary-of-the-Woods and an end of the year picnic. When there are "cooks" among the members, an authentic German meal, not just potato salad and Bratwurst, is prepared.

Goju-Karate

The Goju-ryu Karate Club exists to advance the knowledge of the art of Goju-ryu Krate. The Club provides a break from the routines of normal academic endeavors, instills discipline in the individual student, and provides participants with a chance to develop physically and to gain self-confidence.
Special Interest Groups

Gun Club

The purpose of the Gun Club is to promote firearm safety and knowledge to fellow Rose-Hulman students, and organize recreational marksmanship.

Rose Christian Fellowship

Rose Christian Fellowship is a group primarily concerned with communicating the gospel of Jesus Christ to the campus. Members meet weekly in small groups to share and discuss problems and for Bible study. The entire chapter meets twice a month for a time of fellowship and chapter growth. RCF is an arm of Inter-Varsity Christian Fellowship, a national organization concerned with college age people, and participates in Inter-Varsity activities such as conference and training sessions.
Dr. Black, Randy Spicher, Jeff Woods, Kale Irish, Harold Cowan.

Rose Tech Radio

The Radio Club is open to all who are interested in the technical aspects of radio, especially those who are interested in amateur radio. Facilities include a 1,000 watt single-sideband transmitter capable of reaching around the world, a complete radio-tele-type installation, a 6 meter side-band transceiver and tools, equipment and work space for individual projects. Members of the Radio Club have opportunities to participate in field trips, amateur radio operation, MARS net operation, fall and spring picnics, and hidden transmitter hunts. Technical lectures relating to amateur radio station improvement, Morse code, theory classes for obtaining an amateur radio license and monthly meetings are also an integral part of the club’s program.
Special Interest Groups

Saint Joseph's Campus Center

St. Joseph Campus Center is an extension of St. Joseph University Parish. The Center serves students from both the Rose-Hulman Institute of Technology and Indiana State University campuses. All programs offered at the Center are open to students, faculty, and staff of Rose-Hulman.

Student Activity Board

A branch of the Student Government Association, the S.A.B. is a vital part of Student Affairs in that this group is responsible for planning, coordinating, and implementing a wide variety of events and activities of interest to all students of the Institute. Convocations, 'coffee-house' performances, dances, and special events are within the domain of this important and representative group. Any interested student may become a member of Student Activities Board by attending meetings and making his interest known.
Weightlifting Club

The Weight Lifting Club exists to promote weight lifting at Rose. The club sponsors weight lifting events, arranges the weight room, and makes suggestions to improve that facility.

WMHD-FM 90.5

The men of WMHD-FM are completely responsible for the continuous operation of the Rose-Hulman radio station. It broadcasts 150 Watts (erp) at 90.5 MHz and the facilities are located in the basement of BSB Hall. Numerous opportunities are available for the energetic students: Studio recording, live recording/PA, production of recorded programs, software construction and maintenance, studio construction and maintenance, all facets of news/sports/current events reporting, not to mention being a disk jockey and playing the best music in Terre Haute. There is room enough here for all interested students.
Student Leadership

Residence Hall Association

The residents of each residence hall are eligible for membership in their respective Residence Hall Councils, organizations for promoting the social and recreational life of its members. The Council also provides a student government for the residence halls.

The Residence Hall Association coordinates the activities of the residence halls. This Association has representation from each hall. RHA urges all students to take an active role in their organization and to support it by bringing your ideas and thoughts to the regular meetings. Times for these meetings are posted in Hulman Union.

Student Government Association

The Student Government Association, under the leadership of the President of the Student Body, exercises general control over clubs and organizations receiving S.G.A. funds. The Congress is composed of elected representatives from the various living units. The Student Court, together with the Congress and the Executive Branch, furnishes a complete Student Government.

The constitution and by-laws of the Student Government are on file in the Library and the Student Government Office. Copies may be borrowed from the Library for study.

Rose Musicians

Brass Quartet


Jazz Band

Organizations — 147
Rose Musicians

Men's Chorus
Back: (Left to Right) Paul DeStefano, Steve Kottman, Mike Fagg, Jeff Sewell, Doug Tougaw, Deb Goecker (director). Front: Terry Nebergall, Bob Burger.

Mixed Chorus
Back: (Left to Right) Dave Brombaugh, Jacki Stegner, Michael Brier, Kurt Ness. Second: Deb Goecker, Deborah Allen, Jeff Sewell, Paul DeStefano, Lance Reger, Gary Burdette. Front: Cristina Harden, Mike Fagg, Benita Tschudry, Tish Biggs.

Pep Band
The Learning Center provides free assistance to students in writing, chemistry, math, and physics. Tutors are available to answer questions about homework problems or by appointment for study review. There is a resource library and information for writing a resume available.

Todd Logan, Stephen Johnston, and Brian Knox take advantage of the reference library of the Learning Center.

Scott Weigand and Michael Liemohn discuss a problem.
Honorary and Service Societies

Alpha Lambda Delta

Rose-Hulman's chapter of Alpha Lambda Delta, a national society that honors academic excellence during a student’s freshman year in college, was formed in 1988. Freshmen who are in the top fifth of their class and have a G.P.A. of at least 3.5 are invited to join either during the Spring Quarter of their freshman year or during the Fall Quarter of their sophomore year. Once initiated, the student becomes a lifetime member of Alpha Lambda Delta.

Alpha Phi Omega

The Lambda Chapter of Alpha Phi Omega was chartered at Rose-Hulman in 1966. This is a service fraternity whose program is directed toward serving the Rose-Hulman community and its surrounding areas. Membership is open to any student showing an interest in service to his fellow man.
Blue Key

The Rose-Hulman chapter of the Blue Key National Honor Fraternity was installed in 1932. This is an honor fraternity that recognizes participation in extra-curricular activities as well as high scholarship. The motto of Blue Key is 'Serving, I live.' Therefore, the members of Blue Key are those who are recognized as leaders in college activities and scholarship, and are of good character. Eligibility is restricted to those in the junior and senior classes, and not more than 15% of any class may be selected.

Omega Chi Epsilon

In 1969, a chapter of Omega Chi Epsilon, a national honorary fraternity for chemical engineers, was chartered at Rose-Hulman. The fraternity is open to juniors, seniors and graduate students who share outstanding ability in both scholarship and leadership.
Looking Back At The Eighties
Do You Remember These?

1980

1985

1986

1987

Pi Kappa Alpha

1986  1987

Rose-Hulman Institute of Technology

APATHY

pathy: the largest organization on campus. Nobody attends the meetings because they just don't care.
That Was Then, But This is Now . . .


Rose Guys, still crazy after all these years (1980, 1988).

WMHD, like many student organizations, has grown since 1984.


Getting the mail is much more pleasant now than it was in 1983.


Greek Games 1989

According to our records, the 7th annual Greek Games was the first competition for more than a decade that Lambda Chi Alpha didn't place first place. Alpha Tau Omega won the Silver Anniversary Games by defeating Alpha Nu in the tug of war portion, then placing second place in the event and first place overall.

ATΩ

for another year and Modulus 1990 was successfully completed.

The year we “raced into the nineties” was my fourth year with Modulus. I had the opportunity of being editor with the largest and most active staff Rose-Hulman’s yearbook has had in this decade.

The book would not have been possible without the support of the campus and people outside the staff who help. I would like to thank Dale Long, Donna Burns, Admissions, and the Department Chairmen specifically. I would also like to thank Ahmed Syed who joined the group and helped with the book very late in the year.

As I have already mentioned, we had a remarkably good yearbook staff who worked hard and cooperated to improve the book and get it completed. We learned a lot and had fun while we were doing it.

Matt Morris headed up the photography department, with Wilfred Wong, Jeff Lanter, Joe Forler, and Ron White as photographers. They took twice as many pictures over the year than the previous year.

Joe and Wilfred also did a lot of creative work and experimenting to come up with our cover.

Eric Kamm was darkroom chief with Jeff Pahl, Wilfred and Matt to help.

Tom Bogle was the cornerstone of the copy department with his professional quality writing to tell the story behind the photography work.

The layout department consisted of Wilfred, Randy East, Kevin Cahill, Michael Keeney and myself. We also had many successes in our department as well.

Tim Crowell, past editor, also helped with the book early in the year.

Last but not least our advisor, Bryan Taylor, played his usual active part in the development of the book. He keeps the staff motivated, provides professional advice, and acts as the editor’s conscience.

We hope you enjoy Modulus 1990 as much as we enjoyed making it.

— Scott Webb, editor