1993

1993 Rose News Releases

Rose-Hulman Staff

*Rose-Hulman Institute of Technology*

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Rose-Hulman Receives Funds to Improve Physics & Applied Optics Program

Terre Haute, Ind.--The National Science Foundation has awarded a $56,138 grant to Rose-Hulman Institute of Technology for use in acquiring equipment to improve undergraduate laboratories in the college's Department of Physics and Applied Optics.

Some of the newest optical image acquisition and processing equipment used in industry and research will be purchased, explained Robert Bunch, professor of physics and applied optics. The funds will also create an image acquisition and analysis experimental lab station, he said.

"We hope this station will serve as a model for other educators who are introducing optical image processing experiments to their students," he noted.

"One of the reasons students study applied optics is because it is a visual science," Bunch wrote in his funding request to the National Science Foundation.

"The acquisition and processing of images has grown into a routine tool used in research and industry. The grant will improve our ability to teach about image acquisition tools and (more)
the benefits of optical processing techniques."

New experiments about optical image processing, image acquisition and analysis of infrared images will be developed using the new equipment, according to Bunch.

The funds will also make it possible to improve experiments in several applied optics labs by introducing computer-based acquisition of images.
Rose-Hulman 1993-94 Fine Arts Series Features Eight Musical Events

Terre Haute, Ind.--The 1993-94 Rose-Hulman Institute of Technology Fine Arts Series begins Sept. 11 with a performance by the Chenille Sisters which will be one of eight concerts during the series that will feature music ranging from chamber quartets to jazz and ragtime.

The opening concert will feature a trio known for their zany humor as well as musical talents. The Chenille Sisters will present a show filled with jazz, original humorous modern songs and folk-inspired originals.

On Nov. 6, one of North America's leading ensembles, the Minneapolis Guitar Quartet, will perform on the Moench Hall Auditorium stage. Founded seven years ago, the quartet will perform classics by Haydn and Stravinsky.

Eurojazz will be featured Dec. 4 by Ensemble Europa, a group that will put a jazz twist to centuries-old European music. Their concerts feature samples of traditional European dance and the use of historical instruments.

The Westbrook String Quartet, a recent winner in the internationally recognized Fischoff Chamber Music Competition, will kick off the 1994 portion of the series schedule on Jan. 8.

(more)
The group was also chosen as one of the world's 10 best young quartets during the 1989 Banff International String Quartet Competition.

On Jan. 29, Duo Cristofori will spotlight classic and romantic two-piano works using 18th and 19th-century fortepianos. Penelope Crawford and Nancy Garrett will perform four-hand and two-piano classics of Mozart, Schubert and Chopin.

The newest major ensemble of the Indiana University School of Music, the Baroque Orchestra, will perform Feb. 13. The group is dedicated to the re-creation of original 17th- and 18th-century performance practices using baroque instruments.

The Prism Quartet, a saxophone quartet honored in 1989 as Musical America's Outstanding Young Artists, will appear March 12. Their concert schedule has included appearances at the Eastman School of Music and with the Anchorage and Missouri Symphonies. The quartet maintains an annual residency at the University of Redlands in California, the site of the New Sounds Music Festival.

The Rose-Hulman Fine Arts Series will conclude March 19 with the annual Engineers in Concert spotlighting the talents of Rose-Hulman faculty, staff and students.

All Fine Arts Series concerts, except the Baroque Orchestra program, are at 7:30 p.m. in the Moench Hall Auditorium. The Baroque Orchestra will perform at 3 p.m. Ticket prices are $3 for adults and $1.50 for senior citizens and non-Rose-Hulman students.
1993 COMPOSITE ROSE-HULMAN SPORTS SCHEDULE
(Through December 1)

Wednesday, August 25
FOOTBALL, Intrasquad Scrimmage, Phil Brown Field, 3:15 p.m.

Friday, August 27
ALL SPORTS, Picture/Media Day, Phil Brown Field, 1 p.m.

Saturday, August 28
FOOTBALL, Intrasquad Scrimmage, Phil Brown Field, 8:30 a.m.
CROSS COUNTRY, Engineers Stomp, Rose-Hulman Course, 9 a.m.

Tuesday, August 31
SOCCER, Exhibition, Purdue University, at Brownsburg, 7 p.m.

Saturday, September 4
FOOTBALL, at Washington University, St. Louis, Mo., 7 p.m.
SOCCER, Wilmington College, Jim Rendel Field, 3 p.m.
CROSS COUNTRY, at Sycamore Pride, Terre Haute, 9 a.m.

Sunday, September 5
SOCCER, Albion College, Jim Rendel Field, 1 p.m.

Friday, September 10
SOCCER, at Principia College Invitational, Elsah, Ill.
* Rose-Hulman vs. Principia, 4 p.m.

Saturday, September 11
HALL OF FAME, Induction Luncheon, Hulman Union, 11:30 a.m.
FOOTBALL, Knox College, Phil Brown Field, 1:30 p.m. (Hall of Fame Game)
SOCCER, at Principia College Invitational, Elsah, Ill.
* Rose-Hulman vs. Rhodes College, 1 p.m.

Tuesday, September 14
SOCCER, at Earlham College, Richmond, 4 p.m.

Saturday, September 18
CROSS COUNTRY, at Principia College, Elsah, Ill., 11 a.m.

(more)
Sunday, September 19
SOCCER, at Denison University, Granville, Ohio, 1 p.m.

Saturday, September 25
FOOTBALL, at University of Evansville, Evansville, 1:30 p.m.
SOCCER, MacMurray College, Jim Rendel Field, 1 p.m.
CROSS COUNTRY, at Danville Invitational, Danville, Ill., 11 a.m.

Wednesday, September 29
SOCCER, Anderson University, Jim Rendel Field, 4 p.m. (ICAC Match)

Saturday, October 2
FOOTBALL, Greenville College, Phil Brown Field, 1:30 p.m. (Homecoming)
CROSS COUNTRY, Vincennes University, Rose-Hulman Course, 11 a.m.
SOCCER, Alumni Game, Jim Rendel Field, 11 a.m.

Thursday, October 7
SOCCER, at Hanover College, Hanover, 4 p.m. (ICAC Match)

Saturday, October 9
FOOTBALL, DePauw University, Phil Brown Field, 1:30 p.m. (ICAC Game)
SOCCER, Taylor University, Jim Rendel Field, 11:30 a.m.

Tuesday, October 12
SOCCER, at DePauw University, Greencastle, 3 p.m. (ICAC Match)

Saturday, October 16
FOOTBALL, Franklin College, Phil Brown Field, 1:30 p.m. (ICAC Game)
CROSS COUNTRY, at Wis.-Parkside Invitational, Kenosha, Wis., 11 a.m.

Sunday, October 17
SOCCER, at St. Joseph's College, Rensselaer, 1 p.m.

Wednesday, October 20
SOCCER, Marian College, Jim Rendel Field, 3 p.m.

Saturday, October 23
FOOTBALL, at Hanover College, Hanover, 1:30 p.m. (ICAC Game)
SOCCER, at Wabash College, Crawfordsville, 11:30 a.m. (ICAC Match)

Wednesday, October 27
SOCCER, Franklin College, Jim Rendel Field, 3:30 p.m. (ICAC Match)

Saturday, October 30
FOOTBALL, Wabash College, Phil Brown Field, 1:30 p.m. (ICAC Game)
CROSS COUNTRY, at ICAC Championships, North Manchester, 11 a.m.
SOCCER, Manchester College, Jim Rendel Field, 11:30 a.m. (ICAC Match)

Saturday, November 6
FOOTBALL, at Anderson College, Anderson, 1:30 p.m. (ICAC Game)

Tuesday, November 9
BASKETBALL, Exhibition, Shook Fieldhouse, 7:30 p.m.

(more)
Friday, November 12
BASKETBALL, Athletic Ambassadors (Exhibition), Shook Fieldhouse, 7:30 p.m.

Saturday, November 13
FOOTBALL, Manchester College, Phil Brown Field, 1:30 p.m. (ICAC Game)
CROSS COUNTRY, at NCAA Great Lakes Regional, Cleveland, Ohio, 11 a.m.

Friday, November 19
BASKETBALL, at Ripon Invitational, Ripon, Wis.

Saturday, November 20
BASKETBALL, at Ripon Invitational, Ripon, Wis.
CROSS COUNTRY, NCAA Div. III Finals, Grinnell, Iowa, 11 a.m.

Monday, November 22
BASKETBALL, at Centre College, Danville, Ky., 7:30 p.m.

Saturday, November 27
BASKETBALL, at Knox College Tournament, Galesburg, Ill.

Sunday, November 28
BASKETBALL, at Knox College Tournament, Galesburg, Ill.

Tuesday, November 30
BASKETBALL, at Blackburn College, Carlinville, Ill., 7 p.m.
National Education Officials to Discuss Innovations in Engineering/Science Education

New developments in undergraduate engineering and science education will be discussed Friday (Aug. 27) by national educators participating in a symposium at Rose-Hulman Institute of Technology.

"Innovations in Undergraduate Engineering, Mathematics and Science Education," will feature presentations about new methods of teaching chemistry, mathematics, computer science, and physics and applied optics. Other speakers will discuss new approaches to electrical, mechanical and computer engineering education.

Speakers will also talk about new uses of computers in the development of integrated curricula, the role of Hypertext in undergraduate engineering and science education, and innovations to improve students' problem-solving skills.

Educational developments occurring on campuses from California to New England will be discussed. Featured speakers include faculty from Texas A&M University, Worcester Polytechnic Institute, Colorado School of Mines, Drexel University, Arizona State University, Harvey Mudd College and Rose-Hulman.

The forum is from 8 a.m. til 5 p.m. in E-104 of Moench Hall.
Rose-Hulman Freshmen Arrive Saturday; Fall Quarter Classes Begin Sept. 2

They'll arrive on campus Saturday with computers, CDs, backpacks and the goal of earning a degree from Rose-Hulman Institute of Technology.

A four-day orientation program for 386 new Rose-Hulman students begins Sunday to help freshmen and transfer students get ready for the beginning of the fall quarter. New students will begin moving into residence halls at 4:30 p.m. Saturday.

Classes for all students begin Sept. 2.

During the orientation sessions, new students will meet advisers, take tests for advance credit, hear about Rose-Hulman traditions, register for fall classes and learn about campus computing systems.

Rose-Hulman President Samuel Hulbert will welcome new students and their parents Sunday at 1 p.m. at Phil Brown Field.

A special Terre Haute Business Night is scheduled Sept. 3 when nearly 30 local merchants will be on hand to tell Rose-Hulman students about their services and products. The program is scheduled from 8 until 9:30 p.m. in the Hulman Union. It is sponsored by the Chamber of Commerce in cooperation with the
Rose-Hulman Office of Student Activities.

This year's Rose-Hulman freshman class includes students from 34 states. Indiana, Illinois and Ohio are the homes of a majority of the new students.

The typical freshman ranked in the top six percent of his high-school graduating class and 78 freshmen were ranked either first, second or third. The most popular major among freshmen is mechanical engineering.

Fourteen students from Vigo County are included in the class of 1993.

Note - For further information about the freshman class, contact Chuck Howard, dean of admissions, 877-8213 (o) or 299-4856 (h).
PHOTO IDEAS - NEW STUDENT ORIENTATION &
START OF 1993-94 ACADEMIC YEAR

Saturday, Aug. 28  Freshmen begin moving into 4:30 - 9 p.m.
residence halls

Monday, Aug. 29  Moving in continues 9:30 - 11 a.m.
President Hulbert welcomes 1 p.m.
new students and their
families at Phil Brown Field.
Rain location: Shook Fieldhouse

Tuesday, Aug. 31  New games: All freshmen report 5 - 6 p.m.
to campus front lawn for non-
competitive games with guests
from St. Mary-of-the-Woods College.
Cookout at Hulman Union patio for 6 - 7 p.m.
Rose-Hulman and SMWC students.

Wednesday, Sept. 1  Student Activities Fair in Hulman 7 - 9 p.m.
Union.

Thursday, Sept. 2  Terre Haute Business Night 8 - 9:30 p.m.
Hulman Union. Thirty local
businesses represented to inform
students about their services and
products. Co-sponsored by the
Chamber of Commerce and Rose-Hulman
Office of Student Activities.

-30-
TERRE HAUTE, Ind. -- Seven senior players will share the responsibility of being co-captains for the 1993 Rose-Hulman Institute of Technology football team. The selection was announced today by Coach Scott Duncan as the Engineers concluded preseason practice.

Offensive captains will be tackle Greg Meyne of Portage (Portage H.S.), guard Greg Hubbard (Kokomo, Northwestern H.S.) and wide receiver Brian Sauer (Casey, Ill., Casey-Westfield H.S.).

Defensive captains will be tackles Matt Leach (Fort Wayne, Bishop Luers H.S.) and Tony Dall (Morris, Batesville H.S.), and end Mike Seals (Brookville, Brookville H.S.).

Place-kicker Todd Holthaus (Pana, Ill., Pana H.S.) will be the special teams' captain.

Holthaus was a preseason All-American after leading NCAA Division III in field goals last season.

Leach was named one of the most dangerous defensive players in the Indiana Collegiate Athletic Conference.

Meyne is a three-year starting player, while Hubbard and Seals have started for the past two seasons. Sauer is currently listed as one of the team's starting wide receivers.
LOCAL STUDENT EXPANDS MATH HORIZON AT ROSE-HULMAN

TERRE HAUTE, Ind. -- (STUDENT FROM YOUR AREA: SEE ATTACHED LIST) was one of 36 high school students from 20 states participating in the three-week USA Mathematical Talent Search/Young Scholars Program at Rose-Hulman Institute of Technology. The program is sponsored by the National Science Foundation.

Participants explored the intricacies of mathematics, practiced problem-solving skills, completed projects and heard lectures by college professors from Rose-Hulman and other colleges.

Yes, this wasn't your normal mathematics summer camp. The students were invited to attend the program on the basis of expertise shown in Rose-Hulman's USA Mathematical Talent Search during the 1992-93 school year. (Students completed sets of math problems four times last year!)

"We attracted the cream of the nation's crop of future mathematicians, scientists and engineers," says George Berzsenyi, chairman of Rose-Hulman's mathematics department and one of the originators of the Talent Search. "Our objective is simple -- to encourage young men and women to pursue careers in mathematics, science and technology by helping them develop problem-solving skills along with virtues such as perseverance and commitment."

(Students' names, addresses and high schools attached)
Chenille Sisters Open Rose-Hulman 1993-94 Fine Arts Series

Terre Haute, Ind.--Outrageous comedy and songs that remind audiences of the Andrew Sisters make up an evening with the Chenille Sisters, a trio that will kick off the 1993-94 Fine Arts Series Sept. 11.

The Chenille Sisters will present a concert filled with jazz, folk music and zany costumes that set the stage for humorous parodies of popular hits. Their humor hits a variety of topics from teased hair to high-heeled shoes and music videos.

Their concert begins at 7:30 p.m. in the Moench Hall Auditorium.

The trio, Cheryl Dawdy, Connie Huber and Grace Morand, gave up their day jobs three years ago and have since been featured in People magazine and on ABC and NBC television network shows. The Ann Arbor, Mich.-based group has recorded four albums including a recent recording, "Whatcha Gonna Swing Tonight," featuring the Chicago Jazz Band.

Regardless of their humorous twists in performing long-time pop classics, the trio is serious about its music. Huber is (more)
featured on guitar while Morand and Dawdy provide sophisticated vocal harmony.

A Chenille Sisters concert has been described as a combination of the Andrew Sisters, Bette Midler and the Supremes.

Tickets for the concert can be obtained at the door prior to the performance. Ticket prices are $3 for adults, $1.50 for senior citizens and non-Rose-Hulman students.
PUBLIC SERVICE ANNOUNCEMENT

START DATE: IMMEDIATELY
KILL DATE: 5 P.M. SATURDAY, SEPT. 11
SUBJECT: CHENILLE SISTERS KICK OFF ROSE-HULMAN FINE ARTS SERIES
FURTHER INFO: CALL, 877-8441


TICKETS FOR THE CHENILLE SISTERS CAN BE PURCHASED AT THE DOOR PRIOR TO THE CONCERT WHICH BEGINS AT 7:30 P.M. IN THE MOENCH (PRONOUNCED MUNCH) HALL AUDITORIUM.

-30-
**Gridders Open Season At Night; Soccer Team Hosts Two Matches**

A historic night game will help the Rose-Hulman Institute of Technology football team kick off the 1993 season Saturday at Washington University in St. Louis. The 7 p.m. game will be the Engineers’ first night game since the college started football in 1892.

An upcoming season brings new challenges for the Engineers, including:

* **First-Game Jitters:** There are 42 first-year players on the 78-man roster.*

* **Talented Group:** Coach Scott Duncan says this might be his most talented team in eight years at Rose-Hulman. Besides 14 returning starters, there are quality players providing depth at every position – helped by a second straight outstanding freshman recruiting class. (Five freshmen may be in the starting lineup Saturday!)

**Game Facts**
- **Opponent:** Washington University (Bears), NCAA Div. III
- **Time And Place:** 7 p.m., Sept. 4, Francis Field, St. Louis, Mo.
- **1992 Records:** Rose-Hulman, 4-6; Washington, 6-4
- **The Coaches:** Rose-Hulman's Scott Duncan enters his 8th season with a 44-25-1 record – all with the Engineers; Washington's Larry Kindbom is 21-18 in his 5th year
- **Senior Year's Score:** Washington 15, Rose-Hulman 13 at Terre Haute
- **Broadcast:** WUS-HAM (1300) will air reports throughout the game.

**Scouting the Bears:**

Unlike Rose-Hulman, Washington University is coming off a 4-6 season and looking ahead to a promising 1992 season with 16 returning starters and more than 40 freshmen... . Bottoms returners include senior QB Aaron Keen, who scored one touchdown and passed for another (to WR Isaac Mosley) last year against the Engineers; senior OT Jeff Dugan, a preseason All-American; junior LB Matt Gomrie, who set a school record with 169 tackles last fall; and senior John Keen, a threat as a tight end or defensive end.

**Soccer Team Opens With Matches Against Wilmington, Albion**

After two weeks of preseason workouts and a scrimmage with Purdue University, the soccer team opens the season with two home matches, hosting Wilmington College on Saturday (3 p.m.) and Albion College on Sunday (1 p.m.). Top returning players are forward Gabe Ferland (So., Fort Collins, Colo.), who had a team-high nine goals in 1992; defender Robb McQuie (So., Eagan, Minn., St. Paul Academy), an all-ICAC player; and midfielders John Haraguchi (Sr., South Bend, Riley H.S.); and Son Cao (Jr., Plymouth, Plymouth H.S.), the team’s co-captains.

**Vetern Runners Lead Way In Preseason Cross Country Meet**

Last Saturday’s inclement temperatures (96 degrees and 95% humidity) may have hampered the performances, but it didn’t dampen the spirits of the cross country team. The Engineers Stomp, a 4-kilometer exhibition meet on campus. Not surprisingly, upperclassmen led the 13-runner field, with Brady Neukam (Sr., Huntingburg, Southridge H.S.) and Mike Miller (Jr., Romeo, Mich., Romeo H.S.) tying for first-place honors at 13:42.6. Mark Law (So., Zanesville, Ohio, Zanesville H.S.) was third (13:55), while Joe Reed (Fr., Phoenix, N.Y., Liverpool H.S.) was fourth. The Engineers are scheduled to compete in the Sycamore Pride meet this Saturday at Indiana State University.
Terre Haute Business Night Encourages Rose-Hulman Students to Use Services of Local Merchants

Rose-Hulman Institute of Technology students wondering where the best bargains and services are in Terre Haute will have their questions answered Thursday night at the second annual Terre Haute Business Night at the Hulman Union.

Officials from nearly 30 local businesses will participate during the program from 8 until 9:30 p.m. The event is co-sponsored by the Greater Terre Haute Chamber of Commerce and the Rose-Hulman Office of Student Activities.

"The event encourages our students to patronize local businesses and it gives merchants easy access to new customers," said Donna Gustafson, Rose-Hulman Assistant Dean for Student Services.

Businesses participating include financial institutions, restaurants, hotels, radio stations, car rental firms, wholesale outlets, hospitals and other medical services.

Rod Henry, executive director of the local Chamber of Commerce, says college students are important to the local economy and the Rose-Hulman event is one way for the business community to show its appreciation.

"We're anxious to expand programs like Rose-Hulman's Terre Haute Business Night," he said.
Rose-Hulman Drama Club To Present 'Biloxi Blues'

TERRE HAUTE, Ind. -- Neil Simon's popular comedy, "Biloxi Blues," will be presented this fall by members of Rose-Hulman Institute of Technology's Drama Club. The 1993-94 production schedule also includes a musical during the spring quarter, according to director Bunny Burris.

Performances of "Biloxi Blues" are scheduled at 8 p.m. on Oct. 22-23 and 29-30. A matinee show may be added on Oct. 30, depending on ticket demand.

A continuation of Simon's "Brighton Beach Memoirs," the play follows Eugene Morris Jerome to boot camp in Biloxi, Miss., in 1943. Faced with his first dose of prejudice and his first taste of love, Eugene must grow up quickly during the uncertainty of World War II.

"'Biloxi Blues' is a good all-around show for a male cast to do," Burris said. "The play deals with issues that are still relevant today."

The original Broadway version, starring Matthew Broderick, received a Tony Award for best play in 1985.

-30-

Written by Lisa Young
Paris' Lisa Young Starts Internship In Rose-Hulman's College Relations Office

TERRE HAUTE, Ind. -- Lisa Young of Paris, Ill., has started a 10-month internship as a public relations assistant in the College Relations Office at Rose-Hulman Institute of Technology.

Young, a senior journalism major at Indiana State University, is the daughter of Ray and Jane Young of Route 6, Paris. She is a 1990 graduate of Paris High School.

During her internship, Young will help the College Relations Office promote the accomplishments of Rose-Hulman students and student organizations.

The internship should further enhance Young's resume in journalism. Prior experience includes a recent summer internship at Compute magazine in Greensboro, N.C.; two years as a staff reporter at the Paris Beacon-News and news editor of The Statesman, ISU's student newspaper. She is also a member of Alpha Chi Omega social sorority and the Student Alumni Association, and is vice president of the ISU student chapter of the Society of Professional Journalists.

-30-
**SPORTS INFORMATION**

**Engineer Ears**

Notes On Players/Teams

Mr. Brother

It didn’t take long for brothers Mike and Justin Seals (Brookville, Brookville H.S.) to make their im-
pressions felt on the football field. As a senior DE who earned honorable mention all-ICAC honors in 1992, he had seven tackles and two QB sacks last Saturday. (See list on Page 2) It is the season opener for Knox.

**Learning Experience**

How young is this year’s foot-

隊? Well, the squad's 76-

member roster includes 42 freshmen

and 15 sophomores.

**Him Coach, Now**

Basketball Coach Bill Perkins

is back to his roots to find his

first assistant, Tony Seay. (See Figure 1.)

**On Players/Teams**

**Offensive Line**

Only 15 seconds separated

Knox's No. 1 (Brady Blalch) and No. 5 (Mark Brock) starts last Saturday's cross country meet with

Washington University. There was a second difference between

No. 1 and No. 7 runner and one

between the top 10 run-

ners. (More Information On Rose-Hulman Athletics On Back Of This Page)

**How Scott Duncan Sees Things**

**On Facing Knox College:** "It's an ad-

vantage to have one game under our belt.

However, they have the luxury to have

scooted us (last Saturday) while we're still unsure about what they might do against us.'

**Examining The Engineers:**

How Scott Duncan Sees Things

**On Bouncing Back From Season Opener:**

"We're going to make some adjustments as

we fine-tune this team. There's room for im-

provement in many areas. We didn't play

well last Saturday, but I suspect you'll see a

vastly different team on the field this week.'

**On Facing Knox College:** "It's an ad-

vantage to have one game under our belt. However, they have the luxury to have

scooted us (last Saturday) while we're still unsure about what they might do against us.'

**Game Facts**

**Opponent:** Knox College (Prairie Fire), Galesburg, Ill.; NCAA Div. III

**Time And Place:** 1:30 p.m., Sept. 11, Phil Brown Field, Terre Haute, Ind.

**1993 Records:** Rose-Hulman, 0-1; Knox College, 0-0

**The Coaches:** Rose-Hulman's Scott

Duncan is in his 8th season with a

44-26-1 record -- all with the Engineers; Knox's Randy Oberembt is 27-44-1 and also is in his 8th season.

**Series Record:** Rose leads, 1-0

**Last Year's Score:** Rose-Hulman 34, Knox 14 at Galesburg, Ill.

**Broadcast:** WSJH-AM (1300) and WWMHD-FM (90.5) will broadcast the

season opener, starting at 1:20 p.m.

**Defensive:** Right end Mike Seals (Sr., Brookville, Brookville H.S.) had seven tackles, two quarterback sacks (for -15 yards) and two tackles behind the line (for -12 yards).

**Scouting The Prairie Fire:** Coach Hopes New Nickname Brings Wins

This will be Knox College’s first football game as the Prairie Fire. The Illinois college

formerly was called the Siwash . . . Coach Randy Oberembt hopes his team catches

the explosive new nickname, with 10 returning starters on offense, including all five on the line . . . Top offensive players are WR Andy Wenk (Sr., 5-11, 190), a preseason All-American with 87 career receptions; tackle Paul Raya ( Jr., 6-0, 225), the 1992 offensive MVP; and tailback Jerry Zavorka (Sr., 5-10, 185), the starting quarterback first year against Rose-Hulman . . . Seven starters return on defense, including linemen

Brandon Allen (So., 5-11, 245), Andy Courtight (So., 6-2, 200) and Mike Sory (Sr., 5-11, 200). This unit allowed just 2.9 yards per rushing attempt last season.

**Players Of The Week:**

**Offensive:** Right tackle Greg Rosinski (So., Valparaiso, Valparaiso H.S.) reaped high praise for his pass-blocking performance against Washington University.

**Defensive:** Right end Mike Seals (Sr., Brookville, Brookville H.S.) had seven tackles, two quarterback sacks (for -15 yards) and two tackles behind the line (for -12 yards).

**Special Teams:** No players were chosen.

**More Information On Rose-Hulman Athletics On Back Of This Page**

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**Engineer Sports Schedule**

**Friday, September 10**

1. Scouting The Prairie Fire: Coach Hopes New Nickname Brings Wins

2. **Saturday, September 11**

a. Linemen Rosinski, Seals Get First Week's Honor

b. Scouting The Prairie Fire: Coach Hopes New Nickname Brings Wins

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**Duncan Looks For Improvement; 16 Getting Hall Of Fame Honor**

According to an old football adage, a team makes its biggest improvement between

the first and second games of the season. That’s certainly been the case for the

Rose-Hulman Institute of Technology football team during the past five seasons.

While the Engineers have a 0-4-1 record since 1988 in season openers, the squad

has responded with a 3-2 mark in the second game of those campaigns. And, in most

cases, the offense has shown the most improvement between the first two Saturdays.

For instance, in 1988, Rose-Hulman scored 33 points in defeating Hanover College

after scoring just 13 points a week earlier in a loss at Millips College.

Then, just last season, the Engineers

defeated Knox College, 34-14, after losing the season opener to Washington University

(Mo.), 15-13.

Coach Scott Duncan will be looking for a

repeat performance Saturday when Rose-

Hulman hosts Knox College in the Hall Of

Fame Game. The first 16 inductees into the

college's Athletic Hall of Fame will be intro-

duced at halftime. (See list on Page 2) It is

the season opener for Knox.

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**Results**

**Saturday's Games**

- Rose-Hulman at Hanover (0-1)

- Wis.-Eau Claire at Wabash (0-0)

- MacMurray at Manchester (1-0)

- Anderson (0-0) at Aurora, Ill.

- Hope at DePauw (0-0)

- Knox at Rose-Hulman (0-1)

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**Sunday's Games**

- Rose-Hulman at Terre Haute, Ind.

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**Monday's Games**

- Anderson (0-0) at Aurora, Ill.

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**Tuesday's Games**

- Rose-Hulman at Terre Haute, Ind.
Sixteen Former Athletes, Coaches, Trainer in First Athletic Hall Of Fame Class

The Hall of Fame Room in Shook Fieldhouse will finally live up to its name Saturday when 16 former athletes, coaches and staff members are inducted into the new Athletic Hall Of Fame. Induction ceremonies are scheduled, starting at 6 p.m., in the GM Room of Moench Hall. A luncheon (prepaid reservations required) begins at 11:30 a.m. in the Hulman Union. Each of the inductees will be introduced at halftime of Saturday's football game.

The first inductees are a Who's Who list of athletics at Rose-Hulman. Names on the list, in alphabetical order, are:


* Phil Brown: The legendary football coach had a 99-109-7 record in 31 years along the sidelines. He led the Engineers to the only two undefeated seasons in Rose-Hulman history (1941 and '58). The football field was named in his honor in 1969.

* Jim Carr: You name it, Carr coached it at Rose Polytechnic Institute. He had a 114-151 record in 16 seasons (1947-63) as basketball coach, 52-26 in 16 seasons (1948-63) as baseball coach and also served as cross country coach. He also was the college's first intramural director.

* Heze Clark: He had a 24-47-2 record in two tenures as Rose Poly's football coach (1908-11 and 1923-27). Clark also had a 23-34 record in three seasons as basketball coach (1923-27). Later, he became a sports writer for the Indianapolis Times.

* Dennis Dierckman: Rose-Hulman's first cross country All-American, he finished in the top 20 at the 1974 NCAA national championships. He was a four-time most valuable runner of the cross country team (1971-74).

* Gary Ellis: A standout in football and baseball, Ellis was MVP of the 1977 football team and a three-time MVP of the baseball team (1975, '76, '77). As a defensive back, he holds Rose-Hulman career interceptions record (25).

* Carl Herakovich: His 168 points during the 1958 season still stands as a NCAA Division II football record -- and stands as the fifth all-time best season by players in Division I through III. He was a unanimous All-American choice in helping lead Rose Poly to an 8-0 record in 1958 -- the college's last undefeated season.

* Don Ings: The most prolific scorer in Rose-Hulman basketball history, Ings holds school records for points in a game (46), season (690 in 1968-69) and career (2,083). He was a starting guard for four seasons and MVP of the 1968-69 team.

* Irv Keeler: He earned 10 varsity letters in three sports (track, basketball and football) from 1938-42. Keeler excelled in the high jump, winning several Little State titles in the event and held Rose's record (6'-3 1/4") for over 30 years.

* Eddie McGovern: The only Rose-Hulman football player to be named the Little College Player of the Year (1942). McGovern led the nation in scoring (165 points in only six games) and once scored a remarkable 43 points in one game.

* John Mutchner: The innovative coach brought excitement to Rose-Hulman basketball. The Engineers had a 341-295 (.536) record in Mutchner's 25 seasons (1963-88) on the bench. Cage success included the 24-4 record -- best in school (46), season (690 in 1968-69) and career (2,083). He was a starting guard for four seasons and MVP of the 1968-69 team.

* Art Nehf: Not many people know that the former major league pitcher was also a baseball/football standout at Rose-Hulman. He holds the school record for innings pitched in a season (70 in 1911).

* Til Panaranto: A popular figure around Rose-Hulman sports for 24 years, Panaranto was athletic trainer from 1963 until his retirement in 1987. He received the President's Service Award, the Old Jock Award and respect from hundreds of athletes.

* Dave Sutherland: Taking pride in being an all-around player, Sutherland ranks among Rose-Hulman's all-time best basketball players in scoring (4th with 1,752 points) and rebounding (3rd with 1,068). He was MVP of the 1978 team and played an instrumental role on the 1976-77 team that had a 24-4 record and advanced to the semifinals of the NCAA Div. III tournament.

* Paul Turk: This German-born athlete earned a national reputation as a sprinter during his track career at Rose Poly. He won four first-place medals in the 1903 Indiana Collegiate Athletic League State Meet. In 1905, he scored 28 of Rose's 47 points in the Indiana championships, winning the 100-and 220-yard dashes, 440-yard run, shot put and running broad jump.

* Steve VanDyck: Joins Dave Sutherland as the second member of the 1976-77 basketball team to earn enshrinement in the Hall of Fame. He stands second on Rose-Hulman's all-time scoring list (1,909 points), is fifth in career assists (285) and was a three-time team MVP (1975-77).

Soccer Team (0-2) Seeks First Victory At Principia Invitational This Weekend

'Someday our hard work is going to be rewarded,' stated soccer Coach Greg Ruark after the Engineers opened the season with home losses to Wilmotting College, 4-2, and Albion College, 4-3 in double overtime, last weekend. Rose-Hulman rebounded in both matches. On Sunday, they trailed Albion 2-0 before scoring three straight goals for a 2-2 advantage. The visitors tied the match with seven minutes remaining in regulation and scored the winning goal with nine minutes left in the second overtime. On Saturday, Wilmington took a 3-0 before the Engineers made their comeback.

'We can't wait around and get behind the Eight Ball in matches. The competition is too good, and it takes too much out of us to keep making comebacks,' Ruark said.

Positives coming from the first weekend of competition included scoring five goals by five different players, the performance of goalkeeper Cory Willis (Fr., Wilmotting, Ohio, Wilmotting H.S.), who had 18 saves in both matches; and the team's stamina and perseverance, playing 210 minutes in the first weekend of the season.

Scoring goals against Wilmington were forwards Andy Doll (So., Bainbridge, North Putnam H.S.) and Pat Goodwin (Jr., Wilmotting, Ohio, Wilmotting H.S.), and midfielders Cory Willis (Fr., Wilmotting, Ohio, Wilmotting H.S.), forward Gabe Fettig (Fr., Fort Collins, Colo.) and defender Robb McGhee (So., Enfield, Minn., St. Paul Academy). Senior co-captain John Haraguchi (South Bend, Ind., H.S.) had one assist against Wilmington.

Rose-Hulman will play Principia College and Rhodes College this weekend in the Principia Invitational. Wabash College is the fourth team in the tournament.

Cross County Team Defeats Franklin College In Season Opener

The cross country team proved once again last Saturday that the race isn't won by the swiftest squad, just the most consistent. Having eight of the top nine runners, the Engineers opened the season with a 20-43 victory over Franklin College in a 5-kilometer dual meet at Indiana State University. Only 15 seconds separated Brady Neukam (Sr., Huntington, Southerdl H.S.), the team's No. 1 runner (17:03), and Mark Brock (Fr., New Castle, Chrysler H.S.), the No. 5 runner (17:18). In between were Joe Head (Fr., Phoenix, N.Y., Liverpool H.S.), No. 2 at 17:07; Mark Law (So., Zanesville, Ohio, Zanesville H.S.), No. 3 at 17:15; and Bruce Bender (So., Cameron, Maine, Rockport H.S.), No. 4 at 17:17.

'We need to maintain that tight pack and then strive to improve as a group. If that happens, we could have a good team,' Coach Bill Welch said. The team has two weeks to prepare for its first 8-kilometer race at Principia College on Sept. 18.
1993 FOOTBALL STATISTICS FOR Rose-Hulman Institute of Tech - ALL GAMES

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Japanese Educators Visit Rose-Hulman to Learn About New Innovations, Discuss Exchange Program

What are the latest developments in undergraduate engineering education? The answer to that question is why educators from Japan’s Kanazawa Institute of Technology are visiting the Rose-Hulman campus.

Six faculty and staff from Kanazawa will conclude their visit to Rose-Hulman at 11 a.m. Wednesday. Rose-Hulman and Kanazawa are discussing the creation of a formal exchange program. Currently, two members of the Rose-Hulman faculty are at Kanazawa for the 1993-94 academic year.

The Japanese educators are visiting Rose-Hulman to learn more about general education for engineering students, the role of humanities and social sciences in an engineering program, requirements for admission and the role of extra-curricular activities at Rose-Hulman.

Kanazawa is very similar to Rose-Hulman in size and purpose. In addition to discussing the reason for their visit, a spokesman for the group could provide insight into how American and Japanese engineering colleges compare.

Interview time: Wednesday from 10 until 11 a.m.
Contact Dave Piker, 877-8441, to schedule an interview or photo.

-30-
STORY IDEA

Tired of the Color of Your Car? Change It Instantly!
Young Entrepreneur Says He’s Got the Technology

The house of the future could include features that would allow you to change the color of walls and furniture with the simple flip of a switch. The technology is available says Don Brewer, a recent Rose-Hulman graduate, who has received a patent to use his application of liquid crystal displays (LCDs, just like those in your digital watch) to change the color of numerous consumer products.

Brewer, whose process has received considerable interest from American business and industry, says the technology could be used on everything from jewelry to sneakers.

The enclosed video explains Brewer's technology which imprisons two different color dye molecules in an LCD. Applying voltage changes the orientation of the molecules and thus the color. Brewer says the cost of LCD panels to cover a midsize car would run about $2,500.

For further information contact: Don Brewer, president of Brewer Optical International Technologies, at Rose-Hulman, 812-877-8122

or call

David Piker, Rose-Hulman News Bureau, 812-877-8441

-30-
Elephant Ears
Notes On Players/Teams

ICAC Player Of Week
Sophomore CB Jerome Williams has been named the ICAC's Defensive Player of the Week after having one interception, two pass breakups, one quarterback sack (for -3 yards) and four tackles last Saturday. Williams also ran for a 28-yard TD on an end reverse play.

Birthday Boy
Quarterback Tod Harris gave himself quite a birthday present last Saturday: running for one TD and passing for another.... His first collegiate start. He completed 10 of 15 passes for 120 yards and rushed for 31 yards on 13 carries against Knox.

Off To The Races
Florida Connection
Thanks to former Terre Haute South High School football coach Shafer, freshman Terry Kohl of Lake Wales, Fla., is now starting at safety in the defensive backfield. Shafer was Kohl's coach at Lake Wales High School.

Busy Goalkeeper
Goalkeeper Cory Willis made 21 saves last weekend as the soccer team finished second in the Principia College Tournament last Saturday. He has played in all four of the team's matches this season.

The Long Road
The cross country team will compete in its first 8-kilometer race Saturday at the Principia Invitationals. It will be a challenge for the team's seven freshmen, who must get used to the longer races.

Football Team Gets Back To Basics;
Soccer, Cross Country Hit Road

The Rose-Hulman football team gets back to the basics this week as the Engineers take a hiatus from the season. Coach Scott Duncan plans a busy week of workouts to get the team prepared for the final eight games of the season, starting with the game at the University of Evansville on Sept. 25.

"We're going to spend a lot of time on improving the way we block and tackle the fundamentals," Duncan said. "We need better execution, especially on offense. If we're going to be ready for Evansville, Greenville (Oct. 2) and DePauw (Oct. 9). The off-week gives us an opportunity to work on the little things that make a team so successful."

Last Saturday, Duncan made all the right moves in the Engineers' 26-7 victory over Knox College.

"We had to do something to add some excitement to our offense," the coach said after watching Rose-Hulman's 28-7 loss at Washington University (Mo.) on Sept. 4.

EXPERIMENT NO. 1: Sophomore Tod Harris (Carlisle, Sullivan H.S.) was given his first collegiate start. The RESULT: Harris directed the Engineers to touchdowns on their first two drives of the game, scored on a 1-yard run and threw a 1-yard pass. He completed 10 of 15 passes for 120 yards. Harris also rushed for 31 yards on 13 carries.

EXPERIMENT NO. 2: Moving freshman A.J. Wilkerson (Indianapolis, Perry Meridian H.S.) from wide receiver to tailback, taking the place of Anthony Hammack (Jr., Salem, Salem H.S.), who switched to fullback. The RESULT: Wilkerson rushed for a game-high 95 yards on 16 carries and proved some key blocks for the freshman.

EXPERIMENT NO. 3: Using sophomore Jerome Williams (Indianapolis, North Central H.S.) as a wide receiver on two end reverse plays. The RESULT: Williams, the team's fastest player, took the first reverse handoff from Wilkerson and raced for a 28-yard touchdown--his first collegiate score. On the second, he served as a decoy as Wilkerson rambled 12 yards for a first down.

Players Of The Week: Paul Rogers Gets Special Teams' Honor
Offensive: Tailback A.J. Wilkerson (Fr., Indianapolis, Perry Meridian H.S.), whose exploits have been documented above.

Defensive: Cornerback Jerome Williams (So., Indianapolis, North Central H.S.), who earned the Indiana Collegiate Athletic Conference's Defensive Player of the Week honor. (See 'Elephant Ears,' left)

Special Teams: Punt return specialist Paul Rogers (Jr., Wapakoneta, Ohio, Wapakoneta H.S.), who averaged eight yards on five punts last Saturday. He also blocked a 32-yard field goal by Knox College in the first half.

Scout Team: Reserve offensive lineman Chad Welch (Fr., Lafayette, Harrison H.S.) earned praise from the offensive coaches for his effort in practice last week.

Soccer Gets First Victory, Travels To Denison University On Sunday
Rose-Hulman's soccer team (1-3) finished second in last weekend's Principia College Invitational, defeating Principia, 4-2, on Friday before losing to Rhodes College, 4-0, in Saturday's championship match.

Despite the 1-3 start, the Engineers have already scored nine goals in their first four matches--2.25 goals per match. Conversely, the team scored just two goals in their first four matches last season, and one of those goals came on a forfeit.

Cory Willis (Fr., Wilmington, Ohio, Wilmington H.S.) had 21 saves for the weekend--18 saves in the Rhodes match. Forward Pat Goodwin (Jr., Terre Haute, North High School) came off the bench to score two goals against Principia, while starting forwards Joe Wendel (Jr., Noblesville, Noblesville H.S.) and Wayne Moore (Fr., Evansville, Harrison H.S.) each scored one goal.

The schedule doesn't get any easier. After a Tuesday match at Earlham College, Rose-Hulman travels to Denison University on Sunday in Granville, Ohio.

Cross County Ready For First 8-Kilometer Race At Principia
Two weeks of workouts have prepared the cross country team for its first 8-kilometer race of the season Saturday at the Principia College Invitational in Elsah, Ill. Rose-Hulman has slowly worked up to this test, competing in the Engineers Stomp (4-kilometer) and Sycamore Pride (5-kilometer) meets.

"This will be an interesting challenge for our freshmen since it will be their first race at the collegiate distance. The team has been working hard to prepare for this meet," said Coach Bill Welch.

(Latest Football Statistics On Back Of This Page)
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TERRE HAUTE, Ind. -- Tony Seay has been named assistant basketball coach at Rose-Hulman Institute of Technology. He will help Coach Bill Perkins in practice, recruiting and scouting, while also organizing the Engineers' junior varsity team.

Seay, 25, is no stranger to Perkins. He played for the Rose-Hulman coach at Pinellas Park High School (Fla.) from 1984-86, earning all-conference honors. Later, Seay played at St. Petersburg Junior College from 1986-88 before being an NCAA Division III All-American at Averett College (Va.). Seay was Sports Illustrated's Division III Player of the Week once during the 1989-90 season.

"It's a pleasure to have a coach with Tony's character, leadership and work ethic on my staff," Perkins said. "Because of his playing experience at the Division III level, Tony can help our players maximize their talents. He knows what it takes to be successful at this level."

Seay was a part-time coach at Averett (Va.) while earning a bachelor's degree in business administration. He and his wife, Maryanne, recently moved to Terre Haute.

-30-
STORY IDEAS

Tired of the Color of Your Car? Change It Instantly!
Young Entrepreneur Says He's Got the Technology

The house of the future could include features that would allow you to change the color of walls and furniture with the simple flip of a switch. The technology is available says Don Brewer, a recent Rose-Hulman graduate, who has received a patent to use his application of liquid crystal displays (LCDs, just like those in your digital watch) to change the color of numerous consumer products.

Brewer, whose process has received considerable interest from American business and industry, says the technology could be used on everything from jewelry to sneakers.

Brewer's technology imprisons two different color dye molecules in an LCD. Applying voltage changes the orientation of the molecules and thus the color. Brewer says the cost of LCD panels to cover a midsize car would run about $2,500.

For further information contact: Don Brewer, president of Brewer Optical International Technologies, at Rose-Hulman, 812-877-8122

Homework Hotline: Using The Telephone Improves Grades

Talking a lot on the telephone at night has improved some Indiana teenagers' grades. That's because they've called the Homework Hotline to receive help on math and science from Rose-Hulman Institute of Technology students.

The service operates Sunday through Thursday from 7 until 10 p.m. Students in grades 6-12 of the Vigo County School Corporation can call any of three lines to receive help from a Rose-Hulman tutor. The college students don't provide the answers to problems, instead they guide the students through the homework.

(more)
The service was created with the hope that it would increase the younger student's math and science skills. The service also takes pressure off mom or dad who are asked to help with homework material they haven't seen in years.

For further information call: Susan Smith, Rose-Hulman Homework Hotline Coordinator and director of the college's Learning Center, 812-877-8319 (o) or 812-235-7304 (h).

Math World Series? Competition A Key To Improved Math Skills

Rose-Hulman Mathematics Professor George Berzsenyi wants students to be as enthusiastic about competing in a math contest as they are when they grab a bat or football. Berzsenyi believes competition will improve students' mathematics skills just as it improves their athletic ability.

Berzsenyi's idea is working. More than 500 high-school students nationwide are competing in the fifth annual USA Mathematical Talent Search, a competition Berzsenyi created. Berzsenyi, who has been involved as a judge and/or coordinator of international and national math competitions for 23 years, says his idea differs from most math competitions. "Students need to compete continuously not just once a year.

The USA Mathematical Talent Search that Berzsenyi directs identifies the nation's best students and encourages them to become even better mathematicians. "Our goal is to make mathematical problem-solving a daily routine," he says.

Berzsenyi can be contacted by calling 812-877-8474 (o) or 877-2917 (h).

A New Way To Reduce The Stress of Being A Freshman

At Rose-Hulman there's a different kind of adviser available to help students deal with the stresses of being a college freshman. Who better to help freshmen than someone who just went through the same experience--a sophomore.

Sophomore advisers play a key role in a program at Rose-Hulman that goes beyond the traditional college advising services available to new students. The sophomore adviser program has several unique advantages, according to the program's coordinator, Tom Miller, assistant dean of student affairs. Sophomores still have a keen sense of the academic and social strain that can accompany the freshman year. It's easier for a freshman to seek the counsel of a second-year student. The program triples the student counselors available to freshmen. Two sophomore advisers join an RA on each freshman residence hall floor.

Contact: Tom Miller, assistant dean of student affairs, 812-877-8210 (office), 812-877-8439 (home).
WILMINGTON'S CORY WILLIS BUSY IN ROSE-HULMAN'S NETS

TERRE HAUTE, Ind. -- Cory Willis of Wilmington, Ohio, has been quite busy as a goalkeeper for the Rose-Hulman Institute of Technology soccer team. The freshman has made 48 saves in five matches as the Engineers' starting goalkeeper.

Willis, a graduate of Wilmington High School, was the winning goalkeeper in Rose-Hulman's 4-2 victory over Principia College (Ill.) in the first round of the Principia Invitational last Friday. Overall, he has allowed only 16 goals this season and has completed four of his five starts.

"Cory has made a quick adjustment to the college game," says Rose-Hulman Coach Greg Ruark. "College soccer is much quicker and tougher. Overall, he's doing well."

His first season has been frustrating, too. Willis has been on the losing end of two overtime matches, losing at Earlham College, 2-1, on Tuesday and against Albion College (Mich.), 4-3, on Sept. 5. He also had 18 saves in Sunday's 4-0 loss to Rhodes College in the championship match of the Principia tournament.

"We didn't give him much help defensively. Cory came up with some big saves," Ruark said.

(more)
Playing a challenging schedule, Rose-Hulman has a 1-4 record this season. It doesn't get any easier in the future, with a match at Denison University in Granville, Ohio, on Sunday. Denison is ranked among the top teams in the NCAA Division III Great Lakes Region. The team hosts nationally-ranked MacMurray College on Sept. 25.

Willis is the son of Lisa Willis of 510 Haws Chapel Road.

- Written by Lisa Young
TERRE HAUTE, Ind. -- Former Peru High School football standout Cassidy Clark knew he could continue his gridiron career in college.

But, Clark never imagined the kind of success he's experienced early in his freshman year at Rose-Hulman Institute of Technology. Or, that this success would come as a tailback.

"Surprised would be an understatement," Clark says. "I thought I'd come in as a defensive back, get accustomed to the coaches' system and slowly work into seeing some playing time this season."

Instead, the 5-foot-9, 170-pound chemical engineering major has played in the Engineers' first two games. He has rushed for 53 yards on 14 carries -- 3.8 yards per attempt.

And, to top it all off, Clark scored a touchdown on a 3-yard run in Rose-Hulman's 26-7 victory over Knox College on Sept. 11 in Terre Haute. (After enjoying a week off, the team plays at the University of Evansville this Saturday.)

So much for an easy transition to college football.

"College (football) is much more of a mental game. The
preparation and the responsibilities are incredible," said Clark, son of Dennis and Pam Clark of Route 2, Peru. "I have an assignment on every play, whether it's making a block, running a pass route or carrying the ball through a hole in the offensive line. And, one breakdown can ruin the entire play. Things were much more simple in high school. Here, you have to concentrate all the time."

So far, Clark has passed the test, according to Rose-Hulman Coach Scott Duncan, whose Engineers are 1-1 this season.

"Cassidy has responded to every challenge we've given him. He's a hard-nosed running back who is very hard to tackle, especially in goal-line situations," the coach said.

Clark readily conceded that the adjustment to Rose-Hulman's academic requirements have been a little tougher. After all, Rose-Hulman is one of the nation's top private colleges for engineering and science education. His fall class schedule includes courses in chemistry, calculus, literature and writing, and graphic communications.

"There is little time to fool around -- if you want to stay ahead on your assignments. I recently went to the library at 11 p.m. to gather information for a research paper, and didn't get to sleep until 2 a.m.," said Clark, who was ranked third in Peru's 1993 graduating class. "I quickly learned I was no longer in high school. I have three or four hours of homework each night after practice. And, you can't complain because your roommate or teammate is working just as hard to stay ahead."

(more)
Clark's roommate is a familiar face: John Donaldson, another former Peru football player. Donaldson has decided to concentrate on academics at Rose-Hulman.

A football/baseball standout at Peru, Clark thought about attending Purdue University before deciding on Rose-Hulman.

"At Purdue, I would have stood on the sidelines for two or three years and waited for my chance. Here (at Rose-Hulman), I thought I might be able to play football for four years, while getting a great education. It seemed like a perfect fit for me."

It's a decision that's already paying off big dividends for all concerned.
Rested Gridders Ready To Meet I-AA Challenge Against Evansville

After enjoying a weekend off the gridiron, the Rose-Hulman Institute of Technology football team (1-1) jumps back into competition in a Big 5 way Saturday, playing at the University of Evansville. The Aces, off to a 2-0 start for the second straight season, are the newest members of the NCAA I-AA's division -- despite not providing football scholarships -- and boast more than 100 players in their program.

Yes, things are a lot different from the late 1980s when the Engineers defeated Evansville 42-10 in 1988 and 22-15 in 1989. And, Coach Scott Duncan knows it.

"Our athletes raise their play to a higher level when given a challenge, and they're looking forward to facing Evansville," Duncan said.

Last week gave the team an opportunity to fine-tune areas needing improvement from the first two weeks of the season. It also gave the large number of freshmen extra time to become acquainted with their new assignments.

How Scott Duncan Sees Things:

On Benefits Of Not Playing Last Week: "It was a blessing for the coaching staff and players. We had been working so hard in preparing for the season that we never had the opportunity to examine where we were, and where we wanted to be. We've done that and it should be reflected the next eight weeks. We've made some changes that may make a difficult team to face."

On Facing Univ. of Evansville: "Robin has turned Evansville's program around -- just as I predicted three years ago. It was a program that was ready to explode, and he lit a fire under them ... We played them down to the wire last year, hopefully, we'll make things interesting this year, too."

Examining The Engineers:

The youth movement continues, with eight freshmen projected to be starters this week. Among the new faces on offense: QB Todd Harris (So., Carlisle, Sullivan H.S.), who completed 10 of 15 passes, rushed for a 1-yard touchdown and led the team to scores on the first two drives in his collegiate debut against Knox College; and TB A.J. Wilkerson (Fr., Indianapolis, Perry Meridian H.S.), who rushed for 95 yards on 16 carries in his first college start in the backfield. Six different receivers have caught two or more passes this season, with WR Brian Sauer having four catches for a team-high 43 yards (10.8 ypc) ... LB Todd Sanders (Jr., Lanesville, Floyd Central H.S.) leads the team with 16 tackles, followed closely by DE Mike Seals (Sr., Brookville, Brookville H.S.) with 15. ... CB Jerome Williams (So., Indianapolis, North Central H.S.) was named the ICAC's Defensive Player of the Week after having an interception, two pass breakups, a quarterback sack and four tackles against Knox ... Reserve LB Mark Wolfe (So., Dahlgren, Va., King George H.S.) leads the team with two interceptions -- both in the second half against Knox.

Scouting The Aces: Evansville Has Experience, Skill On Both Sides

Evansville officials can't remember when enthusiasm for the Aces' football program has been this high. And, why not? The team has won nine of its last 11 games, returns 28 starters and is preparing for competition in the new Pioneer Football League (with Butler, Dayton, Drake, Valparaiso and UC-San Diego) ... Offensive weapons include QB Eric Fish (So., 6-2, 200), who has completed 67 percent of his passes in the first two games; TB Chad Alban (Jr., 5-10, 195), who scored four TDs and rushed for 99 yards on 16 carries last Saturday against Kentucky Wesleyan; and TE Hanz Hoag (Jr., 6-5, 235), who has caught 11 passes for 120 yards ... The defense has allowed 14 points per game this season, slightly better than last year's 14.1-point average. Leaders include LB Jerry Meade (Sr., 6-0, 220), who has more than 300 tackles during his career; and LB James Duncan (So., 6-3, 215), who leads the team with 17 tackles this season.

More Information On Rose-Hulman Athletics On Back Of This Page
Recalling Last Year's Game: Long Scoring Drives Lead Aces To 19-13 Win In Terre Haute

Evansville 19, Rose-Hulman 13 on Sept. 28 In Terre Haute: Controlling the line of scrimmage was the key to last year's game. After trailing 10-6 at halftime, Evansville used two long, time-consuming offensive drives to pull away for its third straight victory of the season. The first scoring drive was a 10-play, 82-yarder to open the second half — giving up a 13-10 edge. The second was a seven-play, 60-yard drive with 1:30 left in the game. Todd Holthus' 34-yard field goal with eight seconds left made things interesting for Rose-Hulman, which attempted an on-side kickoff in an attempt to regain possession of the ball. Rocky Lane rushed for 127 yards on 19 carries, while Chad Albano scored two touchdowns (a 27-yard pass from Chad Hohne and a 17-yard run). Rose-Hulman had 244 yards passing, with Anthony Hammack catching six passes for 44 yards and Eric Gappa having five receptions for 74 yards.

Cross Country Team Wins Principia Meet, Goes To Danville This Saturday

Rose-Hulman's cross country team may have surprised itself with last Saturday's one-place finish in the Principia Invitational at Elsah, Ill. After all, it was the first 8-kilometer race for the team this season, and the inaugural meet at that distance for the large group of freshmen. The lone senior, Brady Neukam (Huntingburg, Southridge H.S.), finished second in 27:49 — less than a second behind the champion, Jeff Jones of Iowa Wesleyan. Five more Engineers were in the top 10, including Joe Head (Fr., Phoenix, N.Y., Liverpool H.S.), who was fourth (27:59); Bruce Bender (So., Camden, Maine, Camden-Rockport H.S.), fifth (27:59); Marty Malberg (Jr., Clayton, Cascade H.S.), sixth (28:01); Mike Miller (Jr., Romeo, Mich., Romeo H.S.), ninth (28:30); and Mark Law (So., Zanesville, Ohio, Zanesville H.S.), 10th (28:34).

"Malty Malberg had a strong showing, and Joe Head ran a good race for his first 8-kilometer meet," said Coach Bill Welch. "We need to improve the split between our No. 1 and No. 5 runner. There was approximately one minute difference last week — not good enough to be competitive in our conference. We need to do better."

The competition will be a little more intense Saturday when Rose-Hulman competes in the Danville (Ill.) Invitational. Defending Indiana Collegiate Athletic Conference champion Wabash College is among the teams expected to compete in the 8-kilometer race.

Principia Invitational Results: Rose-Hulman, 25; Knox College, 48; Iowa Wesleyan, 72; Greenville College, 93; Principia, no score; Maryville (Mo.) College, no score.

Top 10 Results: Jeff Jones, Iowa Wesleyan, 27:48; Brady Neukam, Rose-Hulman, 27:48; Ralph Pennel, Knox College, 27:59; Joe Head, Rose-Hulman, 27:59; Bruce Bender, Rose-Hulman, 27:59; Marty Malberg, Rose-Hulman, 28:01; Ronald Sandquist, Maryville, 28:04; Brian Campbell, Knox, 28:15; Mike Miller, Rose-Hulman, 28:30; Mark Law, Rose-Hulman, 28:34.


Soccer Team Returns Home To Face Nationally Ranked MacMurray On Saturday

After two disappointing losses last week, the soccer team (1-5) returns home Saturday for a 1 p.m. match against MacMurray College, currently ranked in the NCAA Division III Top-20 poll. It will be the Engineers' first home match in nearly three weeks.

Rose-Hulman is coming off a 2-1 loss at Earlham College last Tuesday — in double-overtime — and a 4-2 setback Sunday at Denison University. Forward Gabe Ferland (So., Fort Collins, Colo.) scored one goal in each game and now shares the team's scoring leadership with forward Pat Goodwin (Jr., Terre Haute, Terre Haute North H.S.), both with three goals for the season.

Coach Greg Ruark hopes the team regains its confidence by playing at home on Saturday. The squad is also looking forward to starting the Indiana Collegiate Athletic Conference season Sept. 29 with a home match against Anderson University.

"We've played a tough schedule and have very little to show for it. Our confidence has been shaken, especially by last week's double-overtime loss at Earlham. Hopefully, the tough matches will get us ready for the ICC season. If we're successful in the conference, nobody will remember what our record was in September," Ruark said.

Tony Seay Joins Old Coach As Assistant Coach On Basketball Bench

Tony Seay has been named assistant basketball coach. He will help Coach Bill Perkins in practice, recruiting and scouting, while also organizing the Engineers' junior varsity team.

Seay, 25, is no stranger to Perkins. He played for the Rose-Hulman coach at Pinellas Park High School (Fla.) from 1984-86, earning all-conference honors. Later, Seay played at St. Petersburg Junior College from 1986-88 before being an NCAA Division III All-American at Averett College (Va.). Seay was Sports Illustrated's Division III Player of the Week once during the 1988-89 season.

Seay was a part-time coach at Averett (Va.) while earning a bachelor's degree in business administration. He and his wife, Maryanne, recently moved to Terre Haute. 

View full document at: https://www.evansville.edu SportSite/public/Content/1068484.pdf
Four to Receive Rose-Hulman Honor Alumni Award at Homecoming Oct. 1-2

Terre Haute, Ind.--The highest honor bestowed by the Rose-Hulman Institute of Technology Alumni Association, the Honor Alumni Award, will be presented Oct. 2 to four men during Rose-Hulman's 1993 Homecoming Weekend.

Selected for the honor are Crone Knoy, chief executive officer and chairman of the board, Tank Industry Consultants, Indianapolis; Jim Hanes, executive vice president and general counsel, Omni Tech International, Ltd. and retired vice president of Dow Chemical Co., Midland, Mich.; and Jim Sherman, retired supervisor of processing engineering, Chrysler Corp., Kokomo.

The award will be presented posthumously to Fred Garry, former vice president of corporate engineering and manufacturing for General Electric. Garry's widow, Betsy, will accept the award on behalf of the Garry family.

The men are being recognized for their service to the Rose-Hulman Alumni Association and their contributions to the engineering profession.

Award presentations will occur during a Homecoming brunch at 9:15 a.m. in the Hulman Union.
Knoy, a 1958 Rose-Hulman graduate, oversees the operation of a national company that provides technical services to owners, engineers and contractors of steel storage tanks. He has been vice president and president of the Rose-Hulman Alumni Association. Knoy was an alumni representative to the Rose-Hulman Board of Managers from 1986 to 1990.

Hanes helped establish the legal department at Dow Chemical U.S.A., managed the Rocky Flats Nuclear Weapons Plant in Colorado and directed the litigation and claims section for Dow. Hanes retired from Dow five years ago and founded Omni Tech International which provides consulting services to the chemical process industry. The 1944 Rose-Hulman graduate has been an alumni club officer, co-founder of the Mid-Michigan Alumni Club and was a member of the Rose-Hulman Commission on the Future.

Sherman, a 1955 graduate, had a lengthy career with the Chrysler Corp. during which he was a supervisor of staff that set up production lines to machine parts for small automatic transmissions and front and rear wheel drive transmissions. He was president of the Rose-Hulman Alumni Association in 1992, served for six years as an alumni club officer and four years as a reunion chairman.

Garry, who died on Feb. 11, was the 1990 winner of the National Medal of Technology which was presented to him by former President George Bush. Garry served for 20 years as a member of the Rose-Hulman Board of Managers and received an honorary degree from Rose-Hulman in 1968.
Indianapolis CEO Honored by Rose-Hulman

Terre Haute, Ind.--Crone Knoy, chief executive officer and chairman of the board of Tank Industry Consultants, Inc. in Indianapolis, will receive a 1993 Honor Alumni Award Oct. 2 from Rose-Hulman Institute of Technology.

Knoy, a 1958 Rose-Hulman honors graduate, is among three award recipients. The honor recognizes Rose-Hulman alumni for outstanding service to the college and the engineering profession.

The award is the highest honor bestowed by the Rose-Hulman Alumni Association. It will be presented during the college's annual Homecoming activities.

Tank Industry Consultants, Inc., provides technical services nationally to owners, engineers and contractors of steel storage tanks.

Knoy has been vice president and president of the Rose-Hulman Alumni Association. He served a four-term as an alumni representative to the Rose-Hulman Board of Managers, the governing body for the college.
Kokomo Man to Receive Honor from Rose-Hulman

Terre Haute, Ind. — James H. Sherman of Kokomo will receive a 1993 Honor Alumni Award from Rose-Hulman Institute of Technology Oct. 2 during the college's Homecoming activities.

Sherman is among three award recipients. The honor recognizes alumni for their service to Rose-Hulman and the engineering profession. The award is the highest honor bestowed by the Rose-Hulman Alumni Association.

Sherman had a distinguished 33-year career as an engineer with the Chrysler Corp. before his retirement in 1988. He served as supervisor of the Resident Engineering Department and later as supervisor for process engineering. His staffs were responsible for establishing the production lines to machine parts for transmissions. Sherman was also project supervisor on expansion projects and the production of electron beam welding of aluminum six-cylinder intake manifolds.

His service to Rose-Hulman includes serving as president of the college's alumni association in 1992. He was vice president the previous year.

Sherman graduated from Rose-Hulman in 1955.
Midland Executive to Receive Honor

Terre Haute, Ind.—James H. Hanes, former vice president of Dow Chemical Co., who is now executive vice president and general manager of Omni Tech International in Midland, will receive a 1993 Honor Alumni Award from Rose-Hulman Institute of Technology Oct. 2.

Hanes, a 1944 Rose-Hulman graduate, is among three award recipients. The honor recognizes Rose-Hulman alumni for their service to Rose-Hulman and the engineering profession. The award, which is the highest honor bestowed by the Rose-Hulman Alumni Association, will be presented during the college's Homecoming activities.

Hanes retired from Dow Chemical Co. in 1986 concluding a 35-year career in which he served as vice president and general counsel of Dow Chemical U.S.A. He helped establish the Dow Chemical U.S.A. Legal Department which included its Patent and Insurance departments. Hanes also served as general manager of the Rocky Flats Nuclear Weapons Plant in Colorado.

After retirement from Dow Chemical, he was among a group that created Omni Tech International which provides consulting services to the chemical process industry.

Hanes helped to create the Mid-Michigan Rose-Hulman Alumni Club and has been an alumni class agent for eight years.

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Contact: David Piker

For Release: Upon Receipt

September 21, 1993

Rose-Hulman Homecoming Show Features Comedians

Jokes, political satire and juggling will be featured during the 1993 Homecoming Show Oct. 2 at Rose-Hulman Institute of Technology.

The comedy and juggling team, Clockwork, and impressionist Craig Tornquist will be featured at 8 p.m. in Shook Fieldhouse.

Clockwork is the name of the comedy team of Jack Kalvan and Rick Rubenstein. The two have appeared on CBS This Morning, at the National Theatre in Washington, D.C., and on college campuses across the nation.

In addition to their comedy routine, Kalvan and Rubenstein are expert jugglers. They were second-place finishers in the 1991 National Juggling competitions and were selected to perform at the European Juggling Convention and the International Jugglers' Association Cascade of Stars.

Local fans will remember Tornquist who began his comedy routines as a student at Indiana State University. A Tornquist show includes political satire, impressions and song parodies. He's performed over 750 stand-up comedy shows across the nation.

Ticket prices for the Homecoming Show are $5 for general admission and $6 for cabaret seating. Tickets will be available at the door prior to the show.

-30-
Rose-Hulman, Six Other Indiana Colleges Listed in U.S. News & World Report Best Colleges Survey

Terre Haute, Ind.—For the fourth year in a row, U.S. News & World Report magazine has ranked Rose-Hulman Institute of Technology as one of the nation's top three undergraduate colleges that specializes in engineering education.

Rose-Hulman ranked third among colleges nationwide that offer more than half their degrees in engineering. California-based Harvey Mudd College ranked first and Cooper Union, located in New York City, was second. The three were ranked in the same order last year.

Six other Indiana institutions were listed in other categories of the magazine's rankings. The University of Notre Dame was ranked 25th among national universities. Among regional universities, Valparaiso University was ranked second, St. Mary's College was fourth and Butler University and the University of Evansville were ranked tied for seventh. Franklin College was ranked sixth among regional liberal arts colleges.

U.S. News and World Report released the ranking today (Thursday) as part of its seventh annual "America's Best Colleges" survey which will be published in the magazine's Oct. 4
issue available on newstands Sept. 27.

The rankings are compiled from responses of 2,655 college presidents, deans and admissions directors who are asked to list the nation's top colleges according to academic reputation. The magazine also used statistical data regarding admissions requirements, graduation rates, costs, faculty quality and other data provided by colleges and universities to determine rankings of various types of higher education institutions.

Rose-Hulman President Samuel Hulbert said the ranking confirms Rose-Hulman's growing leadership role.

"To be selected four consecutive years by higher education officials as one of the nation's top undergraduate colleges proves that our colleagues are looking to Rose-Hulman for innovation and excellence," Hulbert stated.

"Our goal is to be the best in undergraduate engineering and science education," he added. "Rose-Hulman is initiating recommendations created by our Commission on the Future which will result in the institute reaching our goal of being the best."

The magazine's survey included rankings of America's best national universities and liberal arts colleges, and best regional universities and liberal arts colleges. According to the survey, Harvard University is the nation's best national university while Amherst College ranks as America's top national liberal arts college.
U.S. News & World Report Again Ranks Rose-Hulman As One of America's Top Colleges

Terre Haute, Ind.--For the fourth year in a row, U.S. News & World Report magazine has ranked Rose-Hulman Institute of Technology as one of the nation's top three undergraduate colleges that specializes in engineering education.

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U.S. News & World Report Ranks Rose-Hulman #3 -- 2

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Rockport's Jill May Is Finalist For Homecoming Queen At Rose-Hulman

TERRE HAUTE, Ind. -- Jill May of Rockport, Ind., is one of six finalists for homecoming queen at Rose-Hulman Institute of Technology. This year's winner will be crowned at a pep rally in Shook Fieldhouse on Oct. 1.

May, a graduate of South Spencer High School, is a sophomore mathematics education major at Indiana State University and a member of Chi Omega sorority. She is the daughter of Al and Jeanne Logsdon.

May was nominated by members of Rose-Hulman's Lambda Chi Alpha fraternity.

Besides reigning over the pep rally, this year's queen will also be introduced during halftime of Rose-Hulman's football game against Greenville College on Oct. 2.

The queen contest is sponsored by the Blue Key honorary.

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Marshall's Gretchen Rose Is Finalist For Homecoming Queen

TERRE HAUTE, Ind. -- Gretchen Rose of Marshall, Ill., is one of six finalists for homecoming queen at Rose-Hulman Institute of Technology. This year's winner will be announced Oct. 1 during a pep rally and bonfire in Shook Fieldhouse.

Rose, a graduate of Marshall High School, is a junior elementary education major at Indiana State University and a member of Delta Gamma sorority and Indiana Student Education Association. She is the daughter of Charles and Lu Ellen Rose of Marshall.

Nominated by members of Rose-Hulman's Pi Kappa Alpha fraternity, Rose will be escorted by Travis Beltz, a junior chemical engineering major from Marshall.

Besides reigning over the pep rally and bonfire, this year's homecoming queen will also be introduced during halftime of Rose-Hulman's football game against Greenville College on Oct. 2.

The queen contest is sponsored by the Blue Key honorary.

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Written by Lisa Young
Avon's Loree Brown Is Finalist For Homecoming Queen

TERRE HAUTE, Ind. -- Loree Brown of Avon, Ind., is one of six finalists for homecoming queen at Rose-Hulman Institute of Technology. This year's winner will be crowned at a pep rally in Shook Fieldhouse on Oct. 1.

Brown, a graduate of Avon High School, is a sophomore nursing major at Indiana State University and a member of Chi Omega sorority, the Nursing Club and Rose-Hulman's cheerleading squad. She is the daughter of Gary and Barbara Brown.

Brown was nominated by members of Rose-Hulman's Alpha Tau Omega fraternity.

Besides reigning over the pep rally, this year's queen will be introduced during halftime of Rose-Hulman's football game against Greenville College on Oct. 2.

The queen contest is sponsored by the Blue Key honorary.

-30-

Written by Lisa Young
Sullivan's Richelle Johnson Is Finalist For Homecoming Queen At Rose-Hulman

TERRE HAUTE, Ind. -- Richelle Johnson of Sullivan, Ind., is one of six finalists for homecoming queen at Rose-Hulman Institute of Technology. This year's winner will be announced at a pep rally on Oct. 1 in Shook Fieldhouse.

Johnson, a graduate of Sullivan High School, is a junior nursing major at Indiana State University and is a member of the Student Nurses Association and Alpha Lambda Delta freshman honor society. She is the daughter of Richard and Ruth Ann Johnson.

Nominated by members of Rose-Hulman's Triangle fraternity, Johnson will be escorted by Chad Shryock, a junior electrical engineering major from Sullivan.

Besides reigning over the pep rally, this year's queen will be introduced during halftime of Rose-Hulman's football game against Greenville College on Oct. 2.

The queen contest is sponsored by Blue Key honorary.

-30-
Mishawaka's Jill Deardorff Is Finalist For Homecoming Queen At Rose-Hulman

TERRE HAUTE, Ind. -- Jill Deardorff of Mishawaka, Ind., is one of six finalists for homecoming queen at Rose-Hulman Institute of Technology. This year's queen will be crowned at a pep rally in Shook Fieldhouse on Oct. 1.

Deardorff, a graduate of Mishawaka High School, is a senior graphic design major at Indiana State University. She is vice president of the Chi Omega sorority and Graphics Club and captains Rose-Hulman's cheerleading squad. She is the daughter of John and Judy Deardorff.

Deardorff was nominated by members of Rose-Hulman's Sigma Nu fraternity.

Besides reigning over the pep rally, this year's homecoming queen will be introduced during halftime of Rose-Hulman's football game against Greenville College on Oct. 2.

The queen contest is sponsored by the Blue Key honorary.

-30-
Woman Graduate Student Among Finalists For Rose-Hulman Homecoming Queen

TERRE HAUTE, Ind. -- Students at Rose-Hulman Institute of Technology can vote for a fellow classmate in this year's homecoming queen contest.

Agnes Pankotai, a first-year graduate student from Hungary, joins five Indiana State University students competing for this year's crown. Elections are scheduled Thursday, with the queen announced at Friday's pep rally in Shook Fieldhouse, starting at 8:30 p.m. The queen will be introduced during halftime of Rose-Hulman's football game against Greenville College on Saturday.

Finalists for this year's queen contest, sponsored by the Blue Key honorary, include:

* Loree Brown, a sophomore nursing major at ISU. The Avon native is a member of Chi Omega, the nursing club and Rose-Hulman's cheerleading squad.

* Jill Deardorff, a senior graphic design major at ISU. She is vice president of Chi Omega and Graphics Club, and is captain of Rose-Hulman's cheerleading squad.

* Richelle Johnson, of Sullivan, is a junior nursing major at ISU and a member of the Student Nurses Association and Alpha

(more)
Lambda Delta honorary. She will be escorted by Chad Shryock of Sullivan.

* **Jill May**, a sophomore mathematics education major at ISU. She is a member of the Chi Omega sorority. Matt Edwards of Brazil will be her escort.

* **Agnes Pankotai**, who earned her bachelor's degree in mechanical engineering from the Technical University in Magdeburg, Germany. She is studying mechanical engineering at Rose-Hulman. Daniel Berzsényi of Terre Haute will be her escort.

* **Gretchen Rose**, of Marshall, Ill., is a junior elementary education major at ISU. She is a member of Delta Gamma sorority and the Indiana Student Education Association. Travis Beltz of Marshall will be her escort.

-30-

- Written by Lisa Young
Five Indiana State Students Are Finalists For Rose-Hulman Homecoming Queen Crown

Five Indiana State University students are among six finalists to become homecoming queen at Rose-Hulman Institute of Technology. The winner will be announced at a pep rally Friday in Shook Fieldhouse.

Besides reigning over the pep rally and bonfire, this year's homecoming queen will also be introduced during halftime of Rose-Hulman's football game against Greenville College on Saturday.

The ISU students that are finalists include:

* Gretchen Rose, a junior elementary education major from Marshall, Ill. She is a member of Delta Gamma sorority and the Indiana Student Education Association. Rose will be escorted by Travis Beltz of Rose-Hulman's Pi Kappa Alpha fraternity.

* Loree Brown, a sophomore nursing major from Avon. She is a member of Chi Omega, the Nursing Club and Rose-Hulman's cheerleading squad. Nominated by the Alpha Tau Omega fraternity, Brown will be escorted by Andy Stultz.

* Richelle Johnson, a junior nursing major from Sullivan. She is a member of the Student Nurses Association and Alpha Lambda Delta honor society. Johnson was nominated by Rose-Hulman's
Triangle fraternity and will be escorted by Chad Shryock.

* Jill Deardorff, a senior graphic design major from Mishawaka. She is vice president of the Chi Omega sorority and Graphics Club, and is captain of the Rose-Hulman cheerleading squad. Deardorff was nominated by the Sigma Nu fraternity and Chris Blanton will be her escort.

* Jill May, a sophomore mathematics education major from Rockport. Nominated by Rose-Hulman's Lambda Chi Alpha fraternity, May is a member of the Chi Omega sorority. She will be escorted by Matt Edwards of Brazil.

The sixth finalist is Agnes Pankotai, a first-year graduate student at Rose-Hulman.

The queen contest is conducted by the Blue Key honorary.
**Fall Teams Celebrate Homecoming With On-Campus Games, Meets**

For the only time this season, persons can watch all of Rose-Hulman Institute of Technology's fall sports teams compete at home on the same afternoon. It's all part of Saturday's Homecoming festivities on campus. Here is a preview of this weekend's athletic events.

**Cross Country:** For the third straight year, Vincennes University will provide the competition for Bill Welch's team in the traditional Homecoming dual meet. The Engineers have won the past two dual meets with the Trailblazers, always ranked among the nation's top junior college teams. Also, Vincennes finished ahead of Rose-Hulman in last Sunday's Danville (III) Invitational. (Details on back page). The meet begins at 11 a.m. and finishes on Phil Brown Track, in front of the football grandstands.

**Soccer:** A team of former soccer players will square off against Rose-Hulman in Sunday's vanguard in the annual Alumni Game, starting at 11 a.m., on Jim Rendel Field. Among the alumni players returning will be Jeremy Steele (99), most valuable player of the 1987 and '88 teams, and current assistant coaches Tom Logan (91), Tommy Baker (92) and Jeff Dove (95). Coach Greg Ruark may also join in on the fun and games.

**Football:** The team (1-1) hosts Greenville College (III) in the final tuneup for the Indiana Collegiate Athletic Conference season. Coach Scott Duncan hopes a return to Phil Brown Field will get the team back on the winning track after last Saturday's 38-8 loss at the University of Evansville. The game begins at 1:30 p.m.

How Scott Duncan Sees Things:

*On Improvements Team Must Make:* "We're 1-2, so obviously, there's room for improvement... We've got to be mentally ready to play Saturday and can't let adversity, like last week's muddy field, keep us from winning the game. Can anyone guarantee that it's not going to rain this week? We had better be ready for everything.*

*On Facing Greenville:* "Greenville is a talent-laden team. I scouted them two weeks ago (against Lindenwood) and left early. I had seen enough in the first half to tell me we're going to have our hands full. Thankfully, Homecoming should give us an emotional edge. If we're not ready, it's going to be another long afternoon. And, I've already had too many frustrating Saturdays this season.'

Examining The Engineers: Team Hopes To Extend Home Streak

The team has won its last two home games, including a 26-7 triumph over Knox College on Sept. 11... Preparing for Rose-Hulman to be a difficult task for opponents. The Engineers have employed three different offenses the past three Saturdays, utilizing an option-oriented running attack last week. Defensively, the team used a 5-4 alignment at Evansville - a switch from its customary 4-3 lineup... The team is averaging 148.3 rushing yards per game, while passing for 76 yards per outing. Last week, the team completed only four passes for 25 yards... TE Matthew Allen (Fr., Avon, Ohio, Avon H.S.) leads the team in receiving (six catches and 56 yards).... LB Todd Sanders (Jr., Lanesville, Floyd Central H.S.), 20; CB Jerome Williams (So., Indianapolis, North Central H.S.), 20; and CB Anthony Chumney (Fr., Indianapolis, Manual H.S.), 18... After two good performances, Mark Wolfe (So., Dahlgren, Va., King George H.S.) will get his first start at outside linebacker.

Game Facts

**Opponent:** Greenville College (Panthers), Greenville, III., NAIA Division II

**Time And Place:** 1:30 p.m., Oct. 2, Phil Brown Field, Terre Haute, Ind.

**Special Day:** It's Homecoming

**1993 Records:** Rose-Hulman, 1-2; Greenville, 3-0

**So Far In 1993:** The Engineers lost at Washington (St., Louis), 28-7, on Sept. 4 and at University of Evansville, 38-8, last Saturday and defeated Knox, 26-7, in Terre Haute on Sept. 11. Greenville has defeated Trinity (III), 44-33, Lindenwood (Mo.), 58-0; and St. Xavier (Ill.), 28-7.

**The Coaches:** Rose-Hulman's Scott Duncan is in his eighth season with a 45-27-1 record; Max Bowman has coached Greenville since the college started football in 1987. He has a 44-15-1 record in seven seasons.

**1992 Records:** Rose-Hulman, 4-6; Greenville, 6-3

**Series:** First game between colleges

**Radio Coverage:** WUSH-AM (1300), starting at 1:20 p.m., with Jeff Adams and Tom Miller

(From Rose-Hulman Athletics On Back Of This Page)
Scouting Greenville's Panthers: Explosive Offense Has Team Once Again On Winning Track

Since starting the football program in 1987, Greenville has been one of the most successful teams in NAIA Division II, with a 33-10-1 record. Last year's team was ranked No. 22 in the final NAIA national rankings after being as high as No. 6 in mid-September. The team led the NAIA in three offensive categories last season: team offense (521.1 yards per game), rushing (339.2 yards per game) and scoring (35.2 points per game). It scored 70 points in a victory at Lakeland College (Wis.).

This year's team is just as powerful, averaging 36.6 points in its first three games. However, the defense is shining this season, with shutouts in the past two home games. Top offensive players are QB Rodney Jackson (So., 5-9, 160), who is a threat to run or pass (13 of 23 for 199 yards and 3 TDs), runner (25 carries for 94 yards and 2 TDs in only two games) and receiver (5 catches for 72 yards and 1 TD); RB Marvin Harris (So., 5-6, 175), who has gained 168 yards on 27 carries; FB John Young Sr., (5-11, 230), who has rushed for 145 yards and three TDs; RB James Calhoun (Fr., 6-10, Florida City, Fla.), who has gained 118 yards on 32 attempts; and NAIA All-American lineman Aaron Duff (Sr., 6-2, 280). The Panthers, which has 16 Florida-based players on their roster, have won nine straight games after opening last season with three straight losses (at Millsaps, at Colorado College and against Trinity College).

Reviewing Last Week's Games: Evansville Uses Ball-Control Offense To Beat Engineers

Evansville 38, Rose-Hulman 8: For the heat of the conference schedule, "Ruark said.

Saturday will be a time to have some fun, meet old friends and discuss past matches. Then it's back to work as we prepare for the heat of the conference schedule," Ruark said.

Cross Country Hosts Vincennes in Homecoming Meet, Finishes 5th At Danville

Rose-Hulman's cross country team hopes to return to full strength Saturday when it hosts Vincennes University in the annual Homecoming dual meet, starting at 11 a.m. Illness kept No. 1 runner Brady Neukam (Huntingburg, Southridge H.S.) and top-5 runner Mark Law (So., Zanesville, Ohio, Zanesville H.S.) from competing in last Saturday's Danville (Ill.) Invitational. Conversely, the Engineers finished fifth among the 18-team field. More important, the team finished behind Vincennes, which placed Or

Baseball Team Hosting Alumni Game, Close Out Fall Season With Intrasquad Game

The baseball team will close out its fall season Sunday with an alumni game, followed by an intrasquad game, on Art Nehf Field. The alumni game is scheduled to begin at noon. Inclement weather has kept the Engineers from completing most of its fall season. "Despite all the rain, the fall has been a productive time for us. We've been able to get a good look at many younger players and see where they fit into the program," says Coach Jeff Jenkins. Left-handed pitchers Eric Tryon (Fr., Terre Haute, North Vigo H.S.) and Chris Ripke (Fr., Defiance, Ohio, Defiance H.S.) have been two of the most promising newcomers, according to Jenkins.
1993 FOOTBALL STATISTICS FOR Rose-Hulman Institut - ALL GAMES

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Alpha Tau Omega Fraternity Celebrating Centennial

TERRE HAUTE, Ind. -- The Alpha Tau Omega fraternity at Rose-Hulman Institute of Technology will celebrate its 100th anniversary this weekend during the college's Homecoming.

Approximately 250 former members are expected to attend the celebration, according to Centennial Coordinator Andy Stultz, a senior from Carlisle.

"This happens only once every 100 years, so we're taking it seriously," Stultz said. "We've put a lot of time into making this a great celebration."

National ATO President Brian Ruyle of Dallas, Texas, will be a special guest for the festivities. Events include a reception on Friday after the Homecoming bonfire, along with the Centennial Luncheon and a dance on Saturday.

The Gamma Gamma chapter of Alpha Tau Omega was colonized at Rose-Hulman on Nov. 15, 1893, and chartered on Jan. 8, 1894. The chapter boasts 1,300 alumni and has the distinction of being the first fraternity in Terre Haute to own its house. The chapter's house has been located at 63 Gilbert St. and 1454 S. Center St. before moving to the east edge of campus in 1969. It currently
has 62 members.

Based on its community and campus service projects, the Rose-Hulman chapter has been awarded the national "True Merit Award" more than any unit in the fraternity. Among the many service projects have been assisting the American Heart Association, visiting residents of the Peddle Park community home and hosting the Area VII Special Olympics track and field meet. Members have also collected aluminum cans for the Salvation Army, helped build new diamonds for the girls softball league, provided tables and chairs for the Lighthouse Mission and collected clothing for Goodwill.

Chapter officers include Michael C. Payne, president; Greg Feller, vice president; Mike Meneghini of Terre Haute, treasurer; Tom Tyson, chaplain; Matt Lowe, usher; Todd Sanders, sergeant-at-arms; Dan VonDielingen, secretary; David Crawford, historian; Patrick Lueking of Sullivan, social service coordinator; Mike Moore, rush chairman; Chris Capshaw, alumni relations; and Karl Gutekunst, public relations.

A Centennial Fund has been established to provide money for the installation of a fiber optics computer network to connect rooms in the chapter house with Rose-Hulman's computer center. Individual workstations and a laser printer are also planned for the chapter library.

- Written by Lisa Young
NEW LONDON'S GABE FERLAND LEADING ROSE-HULMAN

TERRE HAUTE, Ind. -- For the second straight year, Gabe Ferland of New London, N.H., is the leading scorer for the Rose-Hulman Institute of Technology soccer team.

With six goals in the first seven games, Ferland has now scored 15 goals during his career -- four shy of tying for second place on Rose-Hulman's all-time list.

Not bad for a sophomore, huh?

Last Saturday, Ferland scored all three of the Engineers' goals in a 3-2 victory over MacMurray College (Ill.), a team ranked in the top 20 of the NCAA Division III preseason poll.

"Gabe has a knack for finding holes in opposing defenses," Rose-Hulman Coach Greg Ruark said.

Ferland, a computer engineering major, is the son of Denis and Jan Ferland of Fort Collins, Colo., and formerly from New London. He is a 1992 graduate of Kearsarge Regional School.

As a freshman, Ferland started all 16 games and led the team in assists (4) and goals (9). He earned first-team all-Indiana Collegiate Athletic Conference honors.
Homecoming Activities Begin Thursday at Rose-Hulman

Terre Haute, Ind.--It's homecoming week at Rose-Hulman Institute of Technology with the first of 13 reunion dinners scheduled Thursday that will kick off a busy schedule that concludes Sunday.

The 50-year reunion for the class of 1943 will mark the start of the homecoming schedule Thursday at 6 p.m. in the Hulman Union.

Friday's activities begin when nearly 170 graduates tee off at 9 a.m. at Hulman Links and the Terre Haute Country Club during the alumni golf tournament. The class of 1943 will be inducted into the 50-Plus Club during a dinner at the Hulman Union at 7 p.m. Activities move to Shook Fieldhouse at 8:30 p.m. for a pep rally and the coronation of the homecoming queen. Days of hard work by freshmen will go up in flames at 9:15 p.m. when the traditional homecoming bonfire is lit west of the fieldhouse.

Saturday, four 1993 Rose-Hulman Honor Alumnus Awards will be presented during a brunch at 9:15 a.m. in the Hulman Union. Recipients are Jim Hanes, executive vice president and general counsel, Omni Tech International, Midland, Mich.; Crone Knoy, (more)
Homecoming Activities Begin Thursday -- 2

chief executive officer and chairman of the board, Tank Industry Consultants, Indianapolis; and Jim Sherman, retired supervisor of processing engineering, Chrysler Corp., Kokomo. The award will be presented posthumously to Fred Garry, former vice president, corporate engineering and manufacturing for General Electric.

Alumni can cheer for the Rose-Hulman cross country team at 10 a.m. when they host Vincennes University. The latest academic developments will be highlighted during open houses in each engineering and science area from 11 a.m. until 1 p.m. An alumni soccer game begins at 11 a.m. and the annual homecoming football game kicks off at 1:30 p.m. at Phil Brown Field when the Engineers take on Greenville College.

Saturday night, an alumni dinner begins at 6 p.m. in the Hulman Union followed by music and dancing. Numerous reunion dinners are also planned around the city and the public is invited to attend the homecoming show at 8 p.m. in Shook Field-house. Featured will be comedians Craig Tornquist, and Jack Kalvan and Rick Rubenstein. Tickets are available at the door prior to the show.

Homecoming activities end on Sunday when former Engineer baseball players will take on members of this year's team at noon at Art Nehf Field.

-30-
LOCAL GRIDDERS AT ROSE-HULMAN: Five players from the Wabash Valley are playing on the Rose-Hulman Institute of Technology football team this season. The group includes (from left) Jason Major, a freshman offensive lineman from Terre Haute (South H.S.); Shawn Patterson, a junior linebacker from Terre Haute (South H.S.); Todd Harris, a sophomore quarterback from Carlisle (Sullivan H.S.); Brian Sauer, a senior wide receiver from Casey, Ill. (Casey H.S.); and Thomas Burkett, a freshman offensive lineman from Clinton (South Vermillion H.S.).

-30-
Lowell's Kurt Johnson Gets Army ROTC Honor

TERRE HAUTE, Ind. -- Kurt Johnson of Lowell has been honored as a distinguished military student in Rose-Hulman Institute of Technology's Army ROTC unit.

Johnson, son of Thomas and Gloria Johnson of 18907 Idaho Court, is a 1990 graduate of Lowell High School. He is a senior mechanical engineering major at Rose-Hulman and is operations officer of the college's Army ROTC cadet corp.

The distinguished military student program recognizes cadets ranking in the top half of their academic class and top third of their ROTC class, according to Major John McMahon, commander of Rose-Hulman's ROTC unit. The recipients must also display initiative, leadership, character and success in military science.

"Kurt is one of the most well-rounded cadets we have," McMahon said. "What distinguishes Kurt is his academic work."

Johnson, who has applied for duty with the Army ordnance corps after graduation, completed the ROTC's advanced camp this past summer at Fort Bragg (N.C.). He is treasurer of the Lambda Chi Alpha fraternity and has been a residence hall adviser for three years.

-30-

Written by Lisa Young
Waconia's Greg Vialle Gets ROTC Honor

TERRE HAUTE, Ind. -- Greg Vialle of Waconia, Minn., has been honored as a distinguished military student in the Army ROTC unit at Rose-Hulman Institute of Technology.

Vialle, the son of Darrell and Marilyn Vialle, is a 1989 graduate of Waconia High School. He is a senior mechanical engineering major and platoon leader of Rose-Hulman's ROTC unit.

The Distinguished Military Student program recognizes Army ROTC cadets in the top half of their academic class and top third of their ROTC class, according to Major John McMahon, commander of Rose-Hulman's Army ROTC unit. Recipients must display initiative and leadership, character, and success in military science.

"Greg is one of our best well-rounded cadets," McMahon said. "What really distinguished Greg is his academic accomplishments."

Also interested in physics and Russian, Vialle has studied at the University of Bradford (England) and spent six weeks in Moscow.

Vialle completed the Army's advanced camp this past summer at Fort Bragg (N.C.) and served three weeks in the engineering battalion at Fort Knox (Ky.).

-30-

Written by Lisa Young
Jill Deardorff Named Homecoming Queen At Rose-Hulman

TERRE HAUTE, Ind. -- Jill Deardorff will reign as queen of Rose-Hulman Institute of Technology's Homecoming on Saturday. She was crowned tonight during a pep rally in Shook Fieldhouse.

Deardorff, a native of Mishawaka, is a senior graphic design major at Indiana State University. She is vice president of the Chi Omega sorority and Graphics Club and captains Rose-Hulman's cheerleading squad. She is the daughter of John and Judy Deardorff.

Deardorff was nominated by members of Rose-Hulman's Sigma Nu fraternity. Her escort will be Chris Blanton, a sophomore from Alexandria.

Besides reigning over the pep rally and bonfire, Deardorff will be introduced during halftime of Rose-Hulman's football game against Greenville College on Saturday.

The queen contest is sponsored by the Blue Key honorary.

-30-
Rose-Hulman Among Colleges Receiving $15 Million NSF Grant To Improve Engineering & Science Education

Terre Haute, Ind.--Rose-Hulman Institute of Technology is one of six higher-education institutions chosen to participate in a $30 million, five-year, nationwide project to improve undergraduate engineering and science education.

The project, called the Foundation Coalition, will be funded by a $15 million matching grant from the National Science Foundation (NSF). Coalition members are required to match the NSF grant during a five-year period.

Other coalition members are Arizona State, Texas A&M (College Station), Texas A&M-Kingsville, and Texas Women's universities along with the University of Alabama. The coalition will work closely with Mesa and Glendale community colleges in Arizona.

The Coalition's goals are to reform undergraduate engineering and science education, attract and retain under-represented students to technical careers, and ease the transition of students entering four-year engineering or science degree programs.

Coalition members have worked for almost a year to develop plans that will begin immediately to:

(more)
* Improve the first two years of engineering and science education by changing curricula at two-year and four-year institutions. Courses will be integrated to help students better understand the links between engineering, mathematics and the sciences; and the relationship between theory and practice.

* Develop programs and teaching methods to ease the transition of high-school and community college graduates into first-year and upper division engineering and science courses required to earn a B.S. degree.

* Create specific programs and teaching strategies to increase enrollment and retention of Hispanic, women and other under-represented minorities pursuing engineering and science degrees.

The coalition's efforts will also focus on cooperative learning with student teams and between faculty to improve student problem-solving skills, according to Rose-Hulman electrical and computer engineering professor Jeff Froyd, coalition campus coordinator.

"Students improve their problem-solving abilities as they watch and learn, not only from faculty, but especially from other students," Froyd explained. "We want to improve how students tackle complex real-world problems," he said.

"At the same time, faculty will be collaborative learners, as they visit coalition campuses to exchange ideas about successful, new educational methods," Froyd stated.

A key goal of the coalition is to have a new Foundation Curriculum in place for the freshman and sophomore years at every coalition institution. The Foundation Curriculum will then be used to change junior/senior level classes to take advantage of new skills students have learned. The curriculum would be supported with the latest instructional technology including multimedia labs and classrooms equipped with computer workstations.

(more)
The differences among the coalition schools will be a strength in the group's efforts to create educational improvements, noted Gloria Rogers, dean for academic services at Rose-Hulman. "The schools are different in size, they recruit different types of students and they vary in their experience in educational reform," she said.

"As an example, The Texas Woman's University has successfully recruited female students into non-traditional areas of study. Its experience will be used to develop programs at Rose-Hulman and other coalition schools to increase female participation in engineering and science," explained Rogers, who will oversee the evaluation, assessment and dissemination of information about the coalition's efforts.

Froyd said some of the collaborative projects to be completed during the first year of the coalition's work include:

* The development at Rose-Hulman of a second-year integrated curriculum in specific academic areas. It will use elements of a curriculum developed by Texas A&M faculty.

* Arizona State will develop, in conjunction with Mesa and Glendale community colleges, courses modeled after Rose-Hulman's integrated first-year curriculum.

Rose-Hulman was invited to participate in the coalition because of its innovative integrated first-year curriculum and its leadership in using symbolic manipulation software to improve mathematics education. The integrated curriculum helps students understand the links between engineering, science and mathematics.

-30-
Gridders Ready To Open League Season At Home Against DePauw

Riding a wave of confidence from a three-game home winning streak and a 16-13 victory over previously unbeaten Greenville College, the Rose-Hulman Institute of Technology football team (2-2) opens the Indiana Collegiate Athletic Conference season Saturday against DePauw University (1-3; 1-0) at Phil Brown Field.

After playing four games, Coach Scott Duncan believes the Engineers are ready for their first conference challenge. The option-oriented running attack accumulated 351 yards last Saturday, while the defense held Greenville's explosive offense to just two touchdowns. The special teams have been consistent and All-American place-kicker Todd Holthaus is starting to warm up as he made his first field goal last week.

But history isn't on Rose-Hulman's side. The team has defeated the Tigers just twice in the past 21 years and trails the series, 30-9-1. The last victory (20-18) came in 1978 in Terre Haute.

How Scott Duncan Sees Things:

On Opening The ICAC Season: "The players are looking forward to seeing how we stack up in the conference. And, there's no better challenge than to start out with DePauw...I was encouraged with the way we battled last week against a talented Greenville team. I haven't seen that type of commitment and intensity for a long time. We need to repeat that type of effort in Saturday's game."

On Facing DePauw: "Past Rose-DePauw games have been won on the line of scrim-
Gridders Ready To Open ICAC Season At Home Against DePauw — Page 2

Scouting DePauw’s Tigers: Tough Pre-ICAC Schedule Gets Team Ready For League Play

A tough pre-conference schedule and mental mistakes are the main reasons behind DePauw's disappointing 1-3 start. The Tigers opened the season with losses against nationally ranked Albion (currently 4-0), Millsaps (4-0) and Hope College (2-2) before defeating Hanover last week... The team has had eight interceptions and four fumbles in the first four games – most being turned into points for the opposition... Top offensive players are RB Ronnie Hermann (Sr., 5-9, 170), who is a threat as a runner (team-high 233 yards on 51 carries), receiver (team-high 18 catches for 188 yards) and kickoff return man (23.6-yard average); FL Bradley Hill (Sr., 5-6, 155), who has caught 17 passes for 183 yards and one touchdown; QB Brian Lanzu (Sr., 6-3, 185), who has completed 55 percent of his passes (54 of 99 with 4 interceptions for 561 yards and one TD).... FB Sean Gardner (Jr., 5-10, 210) rushed for 67 yards and scored a touchdown on eight carries last year against Rose-Hulman... The Tigers always have a strong linebacker unit. This year is no exception with OLB Mike Callahan (Jr., 6-3, 216) having a team-high 26 tackles and OLB Chris Rowe (So., 6-2, 195) next at 23... Players Of The Week: Hammack Gets Offensive Honor After Career-High 173-Yard Effort

Offensive: Fullback Anthony Hammack (Jr., Salem, Salem H.S.), who rushed for a career-high 173 yards on 33 carries and scored the Engineers’ go-ahead touchdown (a 10-yard run) in the fourth quarter. He also caught three passes for nine yards – the only completions thrown by QB Todd Harris. It was the third game in which Hammack has gained 100-or-more yards during his career.

Defensive: Cornerback Jerome Williams (So., Indianapolis, North Central H.S.), who earned the ICAC’s Defensive Player of the Week honor for the second time this season. Williams had 10 total tackles against Greenville. However, his most important tackle came early in the second half, when Greenville QB Rodney Jackson escaped down the right sidelines and appeared to be headed for a go-ahead touchdown. Instead, Williams caught up with Jackson at the 5-yard line. The Panthers didn’t score as they missed a 23-yard field goal four plays later.

Special Teams: Reserve defensive back Mike Arvesen (Jr., Plymouth, Plymouth H.S.) made his first tackle of the season on kickoff coverage – keeping Greenville’s speedy return specialist James Richards from turning upfield on one return in the second half. He also help contain Richards on another return.

Big Hit: Offensive tackle Ryan Summers (Fr., Crown Point, Lake Central H.S.), who knocked down two Greenville players during one kickoff return.

Series History: Engineers Hoping To Break 10-Game Losing Streak To Tigers; 0-4 In ICAC Play

DePauw has dominated the series between the two ICAC rivals, taking a 30-9-1 record into Saturday’s game. The Tigers have won the last 10 encounters and all four games since both colleges joined the ICAC in 1989. Rose-Hulman's last victory came in 1987, a 20-18 victory in Terre Haute. The Engineers also were victorious in 1976, winning 21-6.

Last year, in Greencastle, Rose-Hulman saw the Tigers come back from a 9-7 halftime deficit to lose 27-15. The Engineers managed to gain 315 yards in total offense, but crossed the goal line just once (a 7-yard run by QB Shawn Blaich). PK Todd Holthaus kicked three field goals (33, 29 and 33 yards). The Tigers’ defense intercepted four passes – the last coming on Rico Terrell’s pickoff late in the fourth quarter.

Soccer Team Picks Up Pace With Three Matches In Six Days

After taking a breather for Homecoming, the soccer team prepares to play three matches in a span of six days, starting with Thursday’s ICAC match at Hanover College.

Last week, the Engineers (3-5) opened the conference season with a 6-1 victory over Anderson University on Wednesday. The team out-shot the Ravens, 31-6.

Forward Gabe Ferland (So., Fort Collins, Colo.) scored three goals against Anderson, while Joe Wendel (Jr., Noblesville, Colonial Christian H.S.), Pat Goodwin (Jr., Terre Haute, North H.S.) and Bernd Strassner (Jr., Houston, Texas) each scored one goal.

“Gabe is taking on the opponents well,” Coach Greg Ruark said, “Our entire offense is playing well. You have to have players who get Gabe the ball for him to excel.”

After Thursday’s match at Hanover, the Engineers host Taylor University at 11:30 a.m. Saturday before traveling to DePauw University for an ICAC match on Oct. 12.

Cross Country Takes Breather After Losing To Vincennes In Homecoming Meet

Rose-Hulman's cross country team enjoys a week away from competition after losing, 18-37, to Vincennes University last Saturday in the annual Homecoming dual meet. The Trailblazers, one of the nation’s top junior college teams, had four of the top five finishers to defeat the Engineers for the first time in three years. Brady Neukam (Huntingburg, Southridge H.S.) was Rose-Hulman's top finisher (fourth), while Joe Head (Fr., Phoenix, N.Y., Liverpool H.S.) continued in the No. 2 spot with a sixth-place finish.

“We had several personal- or season-best performances but Vincennes was too strong,” said Coach Bill Welch. Among the most impressive performances was Eric Wind (Fr., Noblesville, Noblesville H.S.), who finished ninth and was the Engineers’ No. 5 runner in his first 8-kilometer race.

Rose-Hulman will compete in the Wisconsin-Parkside Invitational at Kenosha, Wis., on Oct. 16.

Vincennes 18, Rose-Hulman 37: Scott Regan (VU), 26:18; Scott Mullins (VU), 26:29; Terry Wade (VU), 26:54; Brady Neukam (R-H), 27:10; Kameron Struble (VU), 27:12; Joe Head (R-H), 27:31; Chris Swinson (VU), 27:44; Bruce Bender (R-H),...
### 1993 FOOTBALL STATISTICS FOR Rose-Hulman Institut - ALL GAMES

#### OVERALL

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#### TEAM STATISTICS

- **Rose-Hulman Institut**
- **Opponents**

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#### FIRST DOWNS
- Rose-Hulman Institut: 49
- Opponents: 66

#### Rushing
- Rose-Hulman Institut: 36
- Opponents: 33

#### Passing
- Rose-Hulman Institut: 10
- Opponents: 30

#### By Penalty
- Rose-Hulman Institut: 3
- Opponents: 3

#### Rushing Yardage
- Rose-Hulman Institut: 800 yards
- Opponents: 664 yards

#### Yards Gained Rushing
- Rose-Hulman Institut: 924 yards
- Opponents: 767 yards

#### Rushing Attempts
- Rose-Hulman Institut: 208
- Opponents: 164

#### Average Per Rush
- Rose-Hulman Institut: 3.8
- Opponents: 4.0

#### Average Per Game
- Rose-Hulman Institut: 200.0
- Opponents: 166.0

#### TDs Rushing
- Rose-Hulman Institut: 7
- Opponents: 5

#### Passing Yardage
- Rose-Hulman Institut: 237 yards
- Opponents: 701 yards

#### Total Offense
- Rose-Hulman Institut: 1,037 yards
- Opponents: 1,365 yards

#### Total Plays
- Rose-Hulman Institut: 268
- Opponents: 270

#### Fumbles/Lost
- Rose-Hulman Institut: 16
- Opponents: 13

#### Time of Possession
- Rose-Hulman Institut: 51.9 minutes
- Opponents: 41.3 minutes

#### Interception Returns
- Rose-Hulman Institut: 10
- Opponents: 6

#### Punting
- Rose-Hulman Institut: 10
- Opponents: 10
ANTHONY HAMMACK PUTS TEAM FIRST AT ROSE-HULMAN

TERRE HAUTE, Ind. -- Last Saturday, Rose-Hulman fullback Anthony Hammack ran for a career-high 173 yards and scored a touchdown in the Engineers' 16-13 victory over previously unbeaten Greenville College (Ill.).

On Monday, the former Salem High School standout was experiencing 173 different types of aches and pains. And, he still had a headache from a head-on collision with a Greenville tackler.

"But I don't feel the pain, because we won. That's the bottom line. I'm ready to prove myself all over again," says Hammack, a 5-foot-11, 205-pound junior who has been the Engineers' leading rusher the past two seasons. He has gained 301 yards on 67 carries -- a 4.5-yard average per attempt -- so far this fall.

Most importantly, Rose-Hulman takes a 2-2 record into Saturday's home game against DePauw University. It will be the team's first Indiana Collegiate Athletic Conference game of the season.

Hammack, a mechanical engineering major, is looking forward to the challenge. He gained 91 yards on 23 carries against the Tigers last year.

"But we lost the game, so what I did doesn't matter," says (more)
Hammack, son of Dale and Fannie Hammack of 605 Ridgeview Drive in Salem.

It's that commitment to the team's success that impresses Rose-Hulman Coach Scott Duncan. "Anthony is having fun on the football field. And, when he's having fun, everyone else is, too," the coach said. "Anthony is a leader of our offense. He sets an example with his work ethic -- in practice and during games. He strives to be the best, and always puts the team first."

For instance, Hammack began the season as the team's starting tailback. However, after a 28-7 loss at Washington University (St. Louis) on Sept. 4, Duncan moved Hammack to fullback and inserted freshman A.J. Wilkerson at tailback. The results: Wilkerson rushed for 95 yards on 16 carries, while Hammack had 42 yards on nine carries, as Rose-Hulman defeated Knox College (Ill.), 26-7, in Terre Haute. Hammack earned the team's "Big Hit" Award for a block which helped Wilkerson on a 15-yard gain.

There's no hard feelings, according to Hammack. "I'm happy at fullback. The position takes advantage of my attributes: blocking and running up the middle. I'm not the quickest running back, so I'm not effective on sweep plays. I like the contact. I want to strap on the helmet, get the handoff, look for a hole on the offensive line and burst through for yardage. I pack a load (205 pounds) when I come through the line. I like hitting people."

And, on the rare occasion that Hammack was given a breather, Hammack's replacement, freshman Jason Gitt ran for a 33-yard touch-
down in the second quarter.

Who was the first person to greet Gitt on the sidelines? You guessed it, Hammack.

"How could I be upset that the team scored a touchdown? I was happy for Jason. Sure, I could have had over 200 yards and two TDs, but that would have been selfish. I've got to put the team first. After all, I'll get my opportunities later in the season," he said.

Hammack is also a standout in the classroom. He maintains better than a 3.0 grade point average (out of 4.0) at Rose-Hulman, one of the nation's top private colleges for engineering and science.

"It takes a lot of work -- a total commitment -- to be a student and athlete at Rose-Hulman. They take the word 'student-athlete' seriously here. It hasn't been easy, but then I knew it wouldn't be when I decided to attend Rose-Hulman," he said.

An Academic All-State choice during his senior year at Salem, Hammack was a four-year letterman in high school. He helped Salem to an undefeated regular season and conference championship in 1990.
Aaron Barr's Projects Help Optics Students

TERRE HAUTE, Ind. -- Thanks to Aaron Barr of Windfall, the Center for Applied Optics Studies at Rose-Hulman Institute of Technology has developed equipment to help future college students understand the intricacies of laser beams and light.

Among Barr’s developments this past summer were the Beam Profiler, a camera-like device which analyzes laser beams. The profiler is currently being used by Rose-Hulman students in physics and applied optics laboratories.

A second project, the Spectral Response System, measures the sensitivity of a light detector or light source at different wavelengths. The Center for Applied Optics Studies needed the device to solve problems posed by Indiana companies.

"People don't understand how optics technology and physics can make things more efficient," says Barr, a senior applied optics major. "There's a sense of accomplishment to see your project being used to help others. Optics is an expanding field, one that's going to simply explode in the future as more people learn about this technology."

Barr has been captivated with applied optics since graduating
Barr's Projects Help Optics Students -- Page 2

from Tri-Central High School in 1990. That interest expanded this summer during an internship in the Center for Applied Optics Studies, a laboratory which allows Rose-Hulman students and professors to work on research projects for Indiana businesses. While many of the projects are highly secretive in nature, the Center has developed technology to improve productivity and efficiency -- keeping businesses competitive in the marketplace.

"Through Aaron's efforts, several Indiana businesses will have the technology available to prosper in the future. And, his summer projects will give future students the technology necessary to become more productive students, with a firm grasp of applied optics," said Brij Khorana, director for the Center for Applied Optics Studies.

Now, Barr is constructing a slide projector -- from scratch -- as a senior design project. He is looking toward career choices: from graduate school in applied optics to possibly law school.

"I'd like to use my applied optics background as a patent lawyer," he said. "My summer internship at the Center taught me that I want to be in the driver's seat of projects, instead of taking orders . . . I learned a great deal about working with companies, professors and peers in a professional manner."

Barr, son of Gale and Joan Barr of Route 1, Windfall, has been a member of the professional optics society, the volleyball club and Sigma Nu fraternity.

-30-

- Written by Lisa Young
PHOTOGRAPH CUTLINE

LINING THINGS UP: Aaron Barr of Windfall examines a set of optical lenses he hopes to use in a slide projector being constructed as part of Barr's senior design project in physics and applied optics at Rose-Hulman Institute of Technology.

-30-
North Central Grad Shawn Eads Elected Freshman Class President At Rose-Hulman

TERRE HAUTE, Ind. -- Shawn Eads of Indianapolis must have made a good first impression on the freshman class at Rose-Hulman Institute of Technology.

After only three weeks on campus, Eads was elected president of Rose-Hulman's Class of 1997 for the remainder of the 1993-94 academic year.

As class president, Eads will represent his fellow freshmen at student senate meetings. He also hopes to organize a class tutoring program and involve his classmates in several social events.

Eads, son of William and Cynthia Eads of 7615 Mikesal Drive, is a 1993 graduate of North Central High School. He is majoring in mechanical engineering at Rose-Hulman.

- Written by Lisa Young
Mike Meneghini Gets $1,725 Fraternity Scholarship

Rose-Hulman Institute of Technology junior Mike Meneghini, of Terre Haute, was one of only seven college students in the nation to receive a $1,725 undergraduate scholarship from the Alpha Tau Omega Foundation.

Meneghini, son of Nancy Farr and Angelo Meneghini, is a 1991 graduate of Terre Haute North Vigo High School. He maintains a 3.8 grade point average (out of 4.0) while majoring in mechanical engineering and is treasurer of Rose-Hulman's ATO chapter. He plans to attend medical school after graduation from Rose-Hulman in 1995.

Recipients of the ATO Foundation Scholarship were chosen due to their academic performance and service to the community, campus, and ATO chapter.

At Rose-Hulman, Meneghini participates in intramural basketball, softball and bowling; was a member of the varsity tennis team, as a freshman; and is a member of the Society of Automotive Engineers and American Society of Mechanical Engineers. He is currently working as an engineering intern at Columbia House Inc.

-30-

Written by Lisa Young
PUBLIC SERVICE ANNOUNCEMENT

SUBJECT: Rose-Hulman's Drama Club Production of "Biloxi Blues"

START DATE: Immediately

KILL DATE: October 30 at 8 p.m.

TICKETS: For Information, Call 877-8275

THE ROSE-HULMAN INSTITUTE OF TECHNOLOGY DRAMA CLUB WILL PRESENT THE FUNNY NEIL SIMON PLAY, "BILOXI BLUES," ON OCTOBER 22ND AND 23RD, AND OCTOBER 29TH AND 30TH IN THE MOENCH (PRONOUNCED MUNCH) HALL AUDITORIUM. ALL PERFORMANCES BEGIN AT 8 P.M. TICKETS ARE $4 FOR ADULTS AND $2 FOR THOSE 18 AND UNDER. IT IS FREE TO ROSE-HULMAN STUDENTS. FOR TICKET INFORMATION, CALL 877-8275.

-30-
Elephant Ears
Notes On Players/Teams

Seals Shares ICAC Honor
DE Justin Seals shared the AC's Defensive Player of the Week honor this week after being involved in the game's biggest play last Saturday's 25-23 win over DePauw. Seals made the biggest tackle on the Tigers' 2-point PAT attempt with 3:29 left in the game. Overall, Seals had 10 tackles and one pass breakup.

Talking Others Mistakes
After committing two fumbles and two interceptions in the season opener, Rose-Hulman has been the happy recipient of 10 fumbles and five interceptions the past four games. The team has recovered nine of the fumbles and made five defensive plays during the past two weeks.

Keeping It On The Ground
With its running game in high gear, Rose-Hulman did not throw a pass in the second half of last Saturday's game and has thrown four passes in the final 30 minutes of the past two weeks.

Last Call Them 'Coach'
Terre Haute Mayor P. Pete Milus, local bank executive Ron Y. Hafsey, sports writer David Hughes and three local law enforcement officers are participants in the football team's Guest Program. The 'coaches' at practice, eat the pre-game meal with the team and design a special play for the game.

Soccer Team On A Roll
The soccer team takes a four-game winning streak into today's match at DePauw. The team has outscored opponents by a 3-4 margin during the streak. Forward Gabe Ferland has scored four goals in the past six matches.

Engineer Sports Schedule

Elephant Ears

Gridders (3-2) Strive To Extend Win Streak, Remain Unbeaten in ICAC

Bolstered by a 3-0 home record, the Rose-Hulman Institute of Technology football team finds itself in unfamiliar territory: Having a winning record (3-2) for the first time since 1990 and grabbing a portion of the lead early in the Indiana Collegiate Athletic Conference season.

And, the Engineers will be back at Phil Brown Field for the third straight week when they host Franklin College (2-3 overall, 1-1 in ICAC) this Saturday.

Only the eight seniors can remember when the team had a winning record (4-3) during the 1990 season and contended for the conference championship. There are several similarities between the two seasons, including:

- Early-Season Struggles: Rose-Hulman had a 1-3 record before winning its last six games in 1990. The team was 1-2 this year before winning its last two games.

- Winning The Close Ones: The team has won its last two games by a margin of five points (16-13 over Greenville College and 25-23 over DePauw University). In 1990, three mid-season wins came by less than a touchdown.

- Surprising Offenses: In the pass-happy ICAC, the Engineers' run-oriented option offense has frustrated opposing defenses. The team used its innovative Sir Isaac Newton offense to score an average 36 points in the last six games -- all wins.

Saturday's game will be Franklin's first visit to Terre Haute since that 1990 season. Rose-Hulman won that Homecoming game, 30-25, and has been victorious in all three games with the Grizzlies since the two teams became ICAC opponents.

How Scott Duncan Sees Things:

On Team's Play During Two-Game Winning Streak: "For the first time since we've been in the ICAC, we are in control of our own destiny. We usually start out 0-1 in league play and spend the rest of the season hoping for others to lose down the stretch. . . . We're pleased with the type of competitors on this team. The last two games could have gone either way. The deciding factor was our intensity, emotion and enthusiasm for the game."

On Facing Franklin: "Any team that beats Wabash by two touchdowns gets our respect. Franklin will come into Saturday's game with a 1-0 record. Once again, we're going to have to be on top of our game because Franklin can score at anytime from anywhere on the field."

Examining The Engineers: Team Has Won Last Four Home Games

Team has a 3-0 record on Phil Brown Field this season and has won its last four home games over the past two years ... Fullback Anthony Hammack (Jr., Salem, H.S.) and TB A.J. Wilkerson (Fr., Indianapolis, Perry Meridian H.S.) each gained over 100 yards for the second straight week. Hammack, who rushed for 98 yards and scored one TD against Franklin last year, had 119 yards on 26 carries while Wilkerson dashed for 114 yards in 21 attempts against DePauw . . . QB Todd Harris (So., Carmel, Sullivan H.S.) made his collegiate debut in the fourth quarter last year against Franklin, rushing for 33 yards on six carries . . . CB Jerome Williams (So., Indianapolis, North Central H.S.), who leads the team with three interceptions, picked off two passes against the Grizzlies last year - one in the endzone to halt a fourth quarter rally. He returned an interception 63 yards for a TD last week . . . LB Todd Sanders (Jr., Lanesville, Floyd Central H.S.) continues to lead the team with 44 tackles . . . SS Mike Arvesen (So., Plymouth, Plymouth H.S.) will get his first collegiate start this week . . . All-American PK Todd Holthus (Sr., Fane, Ill., Fane H.S.) kicked a 46-yard field goal against Franklin last year.

(More Information On Rose-Hulman Athletics On Back Of This Page)
GRIDDERS LOOK TO EXTEND WIN STREAK, REMAIN ATOP ICAC — PAGE 2

Reviewing Last Week's Game: Engineers Make Big Plays In Historic Win Over DePauw

Rose-Hulman 25, DePauw 23: In Terre Haute, Rose-Hulman's defense stopped a two-point PAT conversion with 3:29 left and the offense converted a fourth-down situation in the final minutes to seal the first victory over DePauw since 1978. The Grizzlies took advantage of five Tiger mistakes, including a 63-yard TD interception return by CB Jerome Williams in the third quarter. The running game collected 289 of 326 total yards, led by FB Anthony Hammack with two touchdowns (2 and 6 yards). He finished with 288 all-purpose yards and 26 points -- the second most in a conference game...SE Ted Davis (Sr., 6-0, 190) stands third on Franklin's all-time receiving list...Top defenders include MLB Andy Kennedy (So., 5-9, 185), who has a team-high 55 tackles; OLB Jared Stagner (Sr., 5-10, 190), 41 tackles; and SS Bart Cook (Sr., 5-11, 190), who had eight tackles, intercepted a pass to set up a touchdown and recovered a fumble which led to another score last week...Grizzlies entered the 1993 season intent on halting their three long losing streaks: a nine-game losing streak for the season (stopped with a 35-14 win over Alma on Sept. 18), a 14-game winless streak in ICAC games (stopped with last week's win over Wabash), and a nine-game losing streak in road games (still intact).

Scouting Franklin's Grizzlies: Team's Explosive Run-And-Shoot Offense Puts Bite Back Into Attack

The Grizzlies' three losses have come against successful teams: Evanville (3-2), Thomas More (4-1) and Anderson (5-0)....After a three-year search, Coach Mike McClure finally has found a quality quarterback to run Franklin's potent Run-and-Shoot Offense: Kendon Troyer (Sr., 5-11, 190), who threw for 385 yards and four TDs in the Grizzlies' 49-35 victory over defending ICAC champion, Wabash College. WB Tony Norton (Sr., 5-8, 175) is coming off a sensational performance against the Little Giants. He was named the league's Offensive Player of the Week after tying an ICAC record with 15 catches for 217 yards and two TDs, rushed for 50 yards and scored two more TDs and returned three kickoffs for 41 yards. He finished with 283 all-purpose yards and 26 points -- the second most in a conference game...SE Ted Davis (Sr., 6-0, 190) stands third on Franklin's all-time receiving list...Top defenders include MLB Andy Kennedy (So., 5-9, 185), who has a team-high 55 tackles; OLB Jared Stagner (Sr., 5-10, 190), 41 tackles; and SS Bart Cook (Sr., 5-11, 190), who had eight tackles, intercepted a pass to set up a touchdown and recovered a fumble which led to another score last week...Grizzlies entered the 1993 season intent on halting their three losing streaks: a nine-game losing streak for the season (stopped with a 35-14 win over Alma on Sept. 18), a 14-game winless streak in ICAC games (stopped with last week's win over Wabash), and a nine-game losing streak in road games (still intact).

Players Of The Week: Four Players Share Offensive And Defensive Honors This Week

Co-Offensive: Fullback Anthony Hammack (Jr., Salem, Salem H.S.), who had his second straight 100-yard day, rushing for a game-high 119 yards on 26 carries and scored two touchdowns (2 and 6 yards). Co-Offensive: Left guard Greg Hubbard (Sr., Kokomo, Northwestern H.S.), who combined with tackle Greg Meyne to create a hole on the left side of the line of scrimmage for FB Anthony Hammack to gain a first down on a fourth-and-one situation at the Engineers' 39-yard line with 1:20 left in the game. Rose-Hulman went on to run out the clock and capture a 25-23 victory over DePauw.

Co-Defensive: Left end Justin Seals (Fr., Brookville, Brookville H.S.) came up with the biggest tackle in last Saturday's 25-23 victory: Stopping DePauw FB Sean Gardner on a two-point PAT running attempt with 3:29 left. It was one of 10 tackles (four solo) for the freshman in his first game for the Grizzlies.

Co-Defensive: Outside linebacker Tony Locker (Jr., 6-0, Vandalia, Ohio, Butler H.S.), made his first career interception in the fourth quarter to halt a DePauw drive at the Engineers' 28-yard line. He had a career-high 11 tackles (five solo) and one interception.

Special Teams: Kickoff return specialist Jerome Williams (So., Indianapolis, North Central H.S.), who averaged 27 yards on three kickoffs, including a 24-yarder in the second half. He is now averaging 27.1 yards on eight returns this season -- ranking among the best in NCAA Division III.

Scout Team: Receiving honors from the coaching staff for their help in preparing the team for DePauw were DL Matthew Bennett (Fr., Spencer, Owen Valley H.S.), DL Chad Schwartz (Fr., New Palestine, New Palestine H.S.), DL Matthew Weir (Fr., Brownstown, Seymour H.S.), LB Eric Culbertson (Fr., Oblong, Ill., Oblong H.S.) and WR Randy Johnson (So., Columbus, North H.S.).

Series History: Engineers Have Won All Three Games With Franklin Since Resuming Series In 1990

While Franklin College may lead the series, 29-19-2, Rose-Hulman has dominated things since both teams joined the Indiana Collegiate Athletic Conference. The Engineers have won the past three games in the series, including last year's 27-7 triumph inTerre Haute. Franklin FB Anthony Hammack rushed for 98 yards on 25 carries and scored one touchdown (10-yard run) last fall, while CB Jerome Williams had two pass interceptions -- the second came in the end zone to stop a fourth-quarter threat.

Rose-Hulman's defense has shut down the Grizzlies' running attack the past three years. Last year, Franklin gained just seven yards on 21 carries. In 1991, the team rushed for 80 yards on 33 attempts. In 1990, the defense limited the team to 55 yards on 22 carries. Conversely, the Grizzlies' pass-oriented attack has averaged 324.6 yards in the three games (255 in 1992; 480 in 1991; 239 in 1990).

Score of the Week: Four-Game Winning Streak To DePauw On Tuesday

How good is the Rose-Hulman soccer team? We'll find out Tuesday when the Engineers, winners of their last four matches, travel to DePauw University on Tuesday to face the defending ICAC champions. Rose-Hulman has never beaten the Tigers in soccer, losing 5-0 last year in Terre Haute. DePauw is ranked among the top teams in the Great Lakes region.

"But we're going to be ready for the challenge this year," says Coach Greg Ruark, a former DePauw assistant coach. "The players are looking forward to the match. We're playing our best soccer of the season right now. It should be an exciting match between two good teams."

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"But we're going to be ready for the challenge this year," says Coach Greg Ruark, a former DePauw assistant coach. "The players are looking forward to the match. We're playing our best soccer of the season right now. It should be an exciting match between two good teams."

The Engineers (5-5) won two matches last week, shutting out Hanover College, 4-0, and defeating Taylor University, 3-1. In the process, they outshot the two opponents by a 34-10 margin. Goalkeeper Cory Willis (Fr., Wilmington, Ohio, Wilmington H.S.) earned his first career shutout against Hanover. Offensively, forward Gabe Ferland (So., Fort Collins, Colo.) added three goals for the week (two vs. Taylor) to his team-high 12 goals for the season. Forward Joe Wendell (Jr., Noblesville, Colonial Christian H.S.), forward Pat Goodwin (Jr., Terre Haute, North H.S.), forward Andy Doll (So., Bainbridge, North Putnam H.S.) and midfielder Rob McGhie (So., Eagan, Minn., St. Paul Academy) each scored one goal last week.

After Tuesday's ICAC match, Rose-Hulman travels to St. Joseph's University on Sunday (1 p.m.) before hosting Maran College on Oct. 20.

Rested Cross Country Team Prepares For Wisconsin-Parkside Invitational

After enjoying a week off to rest and take mid-term exams, Rose-Hulman's cross country team takes advantage of the two-day fall quarter break to travel north for the Wisconsin-Parkside Invitational on Saturday in Kenosha, Wis.

"The runners always like to get away from campus and run in Wisconsin. Last week gave us an opportunity to work on closing the gap between our No. 1 and No. 5 runners. Hopefully, we'll do a better job this Saturday," says Coach Bill Welch.

Brady Neukam (Huntingburg, Southridge H.S.) has become Rose-Hulman's top finisher in four of five meets this season, followed closely by Joe Head (Fr., Phoenix, N.Y., Liverpool H.S.). Neukam had a personal-best time of 27:00 in the 8-kilometer dual meet against Vincennes University on Oct. 2.
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**1993 Football Statistics for Rose-Hulman Institute of Tech - All Games**

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<td>335</td>
<td>4.4</td>
<td>0</td>
</tr>
</tbody>
</table>
Area Student Elected To Rose-Hulman's Student Senate

TERRE HAUTE, Ind. -- (STUDENT FROM YOUR AREA: SEE ATTACHED LIST) has been elected to serve as a senator in the Student Government Association at Rose-Hulman Institute of Technology.

Representing residence hall students living on campus, senators voice the opinions of their constituents on several issues throughout the academic year. The senate meets twice each month.

"The Student Senate is an excellent way for new students to become acquainted with campus organizations and events. The SGA officers seek their advice on many matters since they deal with students on a daily basis," says Kevin Hayes, SGA President.

Rose-Hulman is a 1,300-student private college specializing in engineering and science education. It has been ranked among the top four specialized engineering colleges in the nation for four consecutive years by U.S. News & World Report magazine.

EDITORS: Attached is a list of senators from your area. We have also included their home addresses, high schools, parents' names and residence halls they represent.
Indiana

Carmel  

Ferdinand  
Ben Byers, 7807 South 100W, a freshman electrical engineering major and a 1993 graduate of Southridge High School. Parent: Linda Sue Ellis. Represents: Speed Hall.

Franklin  
Chad Quick, Route 3, a sophomore chemical engineering major and a 1992 graduate of Franklin Community High School. Parents: John and Trudy Quick. Represents: Scharpenberg Hall.

Jeffersonville  

Muncie  
Scott Condon, 6608 W. Isanogel Road, a freshman civil engineering major and a 1993 graduate of Yorktown High School. Parents: Frederick and Rebecca Condon. Represents: Speed Hall.

Newburgh  
Scott Kuster, 8533 Framewood Drive, a sophomore chemical engineering major and a 1992 graduate of Castle High School. Parents: Stephen and Linda Kuster. Represents: Speed Hall.

Noblesville  
Mike Wisecup, 107 Pine Tree Lane, a freshman civil engineering major and a 1993 graduate of Noblesville High School. Parents: Clarence and Elizabeth Wisecup. Represents: Speed Hall.

Portland  
Tony Erwin, 102 Hickory Court, a junior computer science major and a 1991 graduate of Jay County High School. Parents: Stephen and Lila Erwin. Represents: Deming Hall.

Florida

Homestead  

(more)
MISSISSIPPI

POPLARVILLE

Leslie Donaldson, 173 Pop Hill Road, a senior computer science major and a 1990 graduate of the Massachusetts School for Math and Science. Parents: Lynn and Irene Donaldson. Represents: Scharpenberg Hall.

TUPELO

Dan Rubin, 17 Old Town, a freshman computer engineering major and a 1993 graduate of Tupelo High School. Parents: Alan and Linda Rubin. Represents: Deming Hall.

NEW YORK

PENDLETON

Christopher Goulah, 6766 Bear Ridge Road, a freshman mechanical engineering major and a 1993 graduate of Sweet Home High School. Parents: Ronald and Carol Goulah. Represents: Speed Hall.

NORTH DAKOTA

LEHR

Matt Erbele, Route 1, a junior computer science major and a 1990 graduate of Lehr Public High School. Parents: Robert and Susan Erbele. Represents: Deming Hall.

- Written by Lisa Young
Elephant Ears
Notes On Players/Teams

Trouble In Backfield
FB Anthony Hammack and TB AJ Wilkerson have combined for 116 rushing yards in the first two games. Hammack, who has rushed for 616 yards, is on pace to become the Engineers' first 1,000-yard rusher in two seasons (Mark Arteset, 1,204 in 1991).

Second Half Woes
While outscoring opponents 70-23 in the first half, Rose-Hulman has been outscored by a 79-40 margin in the second half of this season. In six of its 12 games, the team has scored only 12 points in the third quarter -- all coming against two weeks ago against DePauw.

Among National's Best
Sophomore Jerome Williams is ranked 21st in last week's NCAA Div. III statistics for kickoff returns. He had averaged 27.1 yards per return through Oct. 9. His average has dropped to 20.6 yards after last Saturday's game.

The Numbers
0 - Number of punt returns the team has had in ICAC games.
5.6 - Anthony Hammack's rushing average per play in ICAC.
312.0 - Number of rushing yards the team has averaged in ICAC.

At 'Head' Of The Pack
It hasn't taken freshman Joe clearly long to challenge for No. 1 spot on the cross country team. He had been the first Rusher since 1995 after rushing for 140 yards on 27 carries against Hanover last week.

The Numbers
12 - Number of rushing yards the team has averaged in ICAC.

How Scott Duncan Sees Things:
On Lessons Learned In Last Saturday's Loss To Franklin: "Our players learned a valuable lesson: You've got to play hard for 60 minutes, not 30 minutes. It's a shame that we had to lose a 15-point lead in the second half and lose a conference game to learn that lesson ... We need to be consistent. We can't sit back and say 'Look what we've done.' We've got to say 'Look what we're going to do now.'"

On Facing Hanover: "It's good to face two Run-and-Shoot offenses in successive weeks. Hanover won't throw anything that we didn't see last week (against Franklin). I'm looking for a much better performance by our defense ... In recent years, the Rose-Hanover series has been filled with exciting, down-to-the-wire contests. It will require four quarters of good, well-executed football for us to come away with a victory."

Examining The Engineers: Taking The Show On The Road
Team boards the bus for the first time since Sept. 25 -- a 38-8 loss at the University of Evansville. The squad has lost its last four road games ... Fullback Anthony Hammack (Jr., Salem, Salem H.S.), who rushed for 140 yards on 27 carries against Hanover last year, collected 156 rushing yards and scored two touchdowns in the first half of last Saturday's game against Franklin ... WR Eric Gappa (So., Knox, North Judson H.S.) scored his first touchdown of the season on a 39-yard pass from QB Todd Harris (So., Carlisle, Sullivan H.S.) in the second quarter last week. Gappa has eight catches, tying TE Matt Allen (Fr., Avon, Ohio, Avon H.S.) for tops on team ... LB Todd Sanders (Jr., Lanesville, Floyd Central H.S.) continues to lead the team with 52 tackles, while fellow LB Shawn Patterson (Jr., Terra Haute, South Vigo H.S.) has a team-high 25 tackles in ICAC games ... SS Mike Arvesen (So., Plymouth, Plymouth H.S.) has six interceptions and returned one 33 yards to set up the team's first TD against Franklin ... Team has had two blocked punts the past two games, with one being returned for a score.

Gridders Set For ICAC Road Trip;
Soccer Strives For Winning Season

There will be a definite contrast of offensive styles Saturday when the Rose-Hulman Institute of Technology football team travels to Hanover College -- the first road game in four weeks.

The Engineers (3-3 overall; 1-1 in ICAC) favor a conventional option running attack to move the ball on the ground. The team leads the Indiana Collegiate Athletic Conference in rushing, averaging 312 yards per game, and features twin 100-yard rushers Anthony Hammack and A.J. Wilkerson.

Meanwhile, Hanover (1-5; 0-3) features one of the most explosive passing attacks in NCAA Division III. The Panthers have averaged 244.7 passing yards this season -- 80 percent of their offense.

However, according to Rose-Hulman Coach Scott Duncan, the focus may be on the two team's defenses.

"The winner will have the defense which comes up with the big play or has success in shutting down the other team's offense. If I'm wrong, both teams will light up the scoreboard and the team with the ball last may win the game," the coach said.

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(More Information On Rose-Hulman Athletics On Back Of This Page)
Reviewing Last Week's Game: Engineers Have Big First Half, Lose At Wire To Franklin College

Franklin 32, Rose-Hulman 28: Franklin running back Mike Flaherty scored a 1-yard touchdown with 26 seconds left to give the Grizzlies a dramatic come-from-behind victory in Terre Haute. The winning touchdown capped a sensational second half by Franklin's run-and-shoot offense. Quarterback Kendon Troyer completed 20 of 29 passes for 289 yards and two touchdowns (14 yards to Tony Norton and 69 yards to Brad Bolinger) in the second half to lead the comeback. And, Franklin's defense showed up in the second 30 minutes, limiting Rose-Hulman to just 98 yards in total offense in the second half after allowing 314 yards (236 rushing) and four TDs in the first half. The Engineers had two 100-yard rushers for the third straight week. Anthony Hammack (career-high 196 yards on 26 carries and two TDs) and A.J. Wilkerson (121 yards on 23 carries) scored the team's lone goal. A game on Sunday at St. Joseph's College was canceled due to poor field conditions in Rensselaer. The game could be rescheduled in Terre Haute during the next two weeks, according to Rose-Hulman Sports Information Director Dan Ruark.

Players Of The Week: Wilkerson, Patterson Get Top Honors For Play Against Grizzlies

Offensive: Tailback A.J. Wilkerson (Fr., Indianapolis, Perry Meridian H.S.), who had his third straight 100-yard game, rushing for 121 yards on 23 carries. He now has 533 yards on 96 attempts for the season.

Defensive: Outside linebacker Shawn Patterson (Jr., Terre Haute, South Vigo H.S.), who had 13 tackles (4 solos) and broke up one pass. He leads the team with 23 tackles in ICAC games.

Special Teams: Holder Randy Johnson (So., Columbus, North H.S.), who helped the Engineers' place-kicking unit convert two point-after-touchdown attempts last Saturday.

Scout Team: Receiving honors from the coaching staff for their help in preparing the team for Franklin were WR Nathan Pohlman (Fr., Oshkosh, Wis., Winnebago Lutheran Academy) and DB Joel Brazle (So., Ladoga, Southmont H.S.).

Big Hit: Defensive end Mike Seals (So., Brookville, Franklin County H.S.) for a tackle during a quarterback sack in last Saturday's game against Franklin College.

Series History: Expect A Close Contest Whenever Rose-Hulman And Hanover Hit Field

It would be a safe bet to expect a close game on Saturday. Less than a touchdown has decided seven of the last eight games between the two ICAC rivals. Last year, the Panthers walked away with a 17-16 victory in Terre Haute — the start of a four-game winning streak to end the season. Fullback Anthony Hammack rushed for 140 yards on 27 carries and wide receiver Jerry Smith caught six passes for 88 yards, including a 22-yard touchdown pass from quarterback Shawn Blaich. For Hanover, quarterback Scott Isphording completed 20 of 34 passes for 232 yards and two TDs (11 yards to Damon Klesa and 11 yards to Brian Glesing) in the victory.

The Engineers, 5-6 overall and 2-1 in ICAC play, face Marian College at 3 p.m. Tuesday at Jim Rendell Field before traveling to Wabash College on Saturday for a league match.

Last week, Rose-Hulman lost an overtime match to nationally ranked DePauw University, 2-1. Midfielder Robb McGhee (So., Eagan, Minn., St. Paul Academy) scored the team's lone goal. A game on Sunday at St. Joseph's College was canceled due to poor field conditions in Rensselaer. The game could be rescheduled in Terre Haute during the next two weeks, according to Ruark.

Cross Country Team Places 17th Among Strong Field At Parkside Invitational

Rose-Hulman's cross-country team placed 17th among 34 teams in the Wisconsin-Parkside Invitational last Saturday — the team's last competition before the Indiana Collegiate Athletic Conference championships on Oct. 30 at Manchester College. The Parkside meet has grown into one of the top meets for NCAA Division III and Division II teams — with six national qualifying teams participating. Rose-Hulman's North Central College (lowa), the nation's No. 1-ranked team, was the overall winner, followed closely by Calvin College (Mich.), No. 2 in the nation; Lewis College, No. 2 in Division II; and Rio Grande, No. 8 in Division II.

"It was a good test that should motivate us as we prepare for the ICAC meet in two weeks," Coach Bill Welch said.

Joe Head (Fr., Phoenix, N.Y., Liverpool H.S.) was up to the level of the competition, finishing 82nd (out of 320 runners) in 27:05. He was followed by Bruce Bender (So., Camden, Maine, Camden-Rockport H.S.), in 144th at 28:01; and Brady Neukam (Huntingburg, Southridge H.S.), in 145th at 28:02.

"I hope Joe had his breakthrough performance on an 8-kilometer course. Now, he needs to work on further improvement before the conference and regional meets. We need to close the gap between the top seven runners. If that happens, we could challenge for top honors in the ICAC meet. If not, we'll be in the middle of the pack," Welch said.

1993 FOOTBALL STATISTICS For Rose-Hulman INSTITUT ALL GAMES

**RECORD:**
- ALL GAMES: (3-0-0)
- CONFERENCE: (3-0-0)
- NON-CONFERENCE: (0-0-0)

**TEAM STATISTICS**

**OPPONENTS**

**OFFENSIVE STATISTICS**

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Local Student Earns Honor In Rose-Hulman Math Test

TERRE HAUTE, Ind. -- (STUDENT FROM YOUR AREA: SEE ATTACHED LIST) received an award for having one of the top scores in the 1993 Alfred Schmidt Freshman Mathematics Competition at Rose-Hulman Institute of Technology.

The competition is open to all freshmen attending Rose-Hulman, one of the nation's top private engineering and science colleges. The problems were devised by Alfred Schmidt, professor of mathematics.

This year, only two students successfully completed all six problems -- a remarkable achievement, according to George Berzsenyi, chairman of Rose-Hulman's mathematics department.

"Most students don't complete five problems in the allotted time for the test. This was quite an accomplishment for these scholars," Berzsenyi said.

First-place honors went to James Moore of Cuba, Ill., who completed the six problems with a few minor mistakes. Luke Meyer of Clemmons, N.C., was second, according to Berzsenyi.

Editor's Note: The following is a list of the students' names, home addresses, major course of study, parents' names and award in the contest.

- Written by Lisa Young
LOCAL STUDENT EARN HONOR IN MATH TEST -- PAGE 2

INDIANA

ANGOLA

Dave Hile, 1400 N. 140 W., a 1993 graduate of Angola High School and chemical engineering major. Parents: Alan and Judy Hile. Award: Third place.

BEDFORD

John Kos, RR 14, No. 7 Taylor Run, a 1993 graduate of Bedford North Lawrence High School and electrical engineering major. Parents: Lee and Venda Blansett. Award: Honorable mention.

NABB

John Cochran, 5293 S. State Road 203, a 1993 graduate of Scottsburg High School and chemical engineering major. Parents: Morris and Judy Cochran. Award: Honorable mention.

TERRE HAUTE

Anthony Heap, 4551 E. Stanley Ave., a 1993 graduate of Terre Haute North High School and electrical engineering major. Parents: Christopher and Claire Heap. Award: Honorable mention.

FLORIDA

SATELLITE BEACH

Sean McGuffie, 460 Laurel St., a 1993 graduate of Satellite High School and a mechanical engineering major. Parents: Glenn and Allison McGuffie. Award: Third place.

CHICAGO

Jee Su Chang, 6251 N. Kedzie, a 1993 graduate of Lane Technical and a mechanical engineering major. Parents: Se Hyeon and Mun Ja Chang. Award: Third place.

CUBA

James Moore, Route 2, a 1993 graduate of Cuba Junior Senior High School and a computer science major. Parents: James and Donna Moore. Award: First place.

JOLIET

Jeff Turk, 1405 Edgerton Drive, a 1993 graduate of Joliet Catholic Academy and a mechanical engineering major. Parents: Frederick and Margo Turk. Award: Honorable mention.

(more)
LOCAL STUDENT EARN HONOR IN MATH TEST -- PAGE 3

MOKENA

Josh Schueler, 18925 Meadowview Drive, a 1993 graduate of Lincolnway High School and a mechanical engineering major. Parents: James and Nancy Schueler. Award: Honorable mention.

WORDEN

Chad Maloney, 325 Park St., a 1993 graduate of Edwardsville High School and a computer engineering major. Parents: Thomas and Cindy Maloney. Award: Third place.

KENTUCKY

FORT WRIGHT


NORTH CAROLINA

CLEMMONS


OHIO

WILLARD


PENNSYLVANIA

N. HUNTINGDON

Rob Ekl, 920 Whitehead Lane North, a 1993 graduate of Norwin Senior High School and an electrical engineering major. Parents: Joseph and Frances Ekl. Award: Third place.

WISCONSIN

MENOMONIE

Michael Ley, 729 River Heights Road, a 1993 graduate of Menomonie High School and an electrical engineering major. Parents: James and Ruth Ley. Award: Honorable mention.

STURGEON BAY

Jason Schaefer, 4231 Country View Road, a 1993 graduate of Sevastopol High School and an applied optics major. Parents: Richard and Barbara Schaefer. Award: Third place.
Rose-Hulman Drama Club Presenting 'Biloxi Blues'

TERRE HAUTE, Ind. -- Members of Rose-Hulman Institute of Technology's Drama Club will trace Neil Simon's timeless character, Eugene Jerome, into adulthood in the popular comedy, "Biloxi Blues." Performances are scheduled at 8 p.m. Friday and Saturday and Oct. 29-30 in the Moench Hall Auditorium on campus.

A continuation of Simon's "Brighton Beach Memoirs," the play follows Eugene to boot camp in Biloxi, Miss., in 1943. Faced with his first dose of prejudice and his first taste of love, Eugene must grow up quickly during the uncertainty of World War II.

"`Biloxi Blues' offers more than the run-of-the-mill comedy. It deals with issues that are still relevant today," says Bunny Nash, who is directing her fourth production at Rose-Hulman.

A veteran of two previous Rose-Hulman productions, sophomore Chris Lindell of Noblesville will play Eugene. Matthew Broderick played this role in the original Broadway show, which won a Tony for best play in 1985.

"Chris adds a lot of naturalness to the character. In fact, they all do. The cast has really taken hold of the characters and made them come alive. Many of the actors are completely different from the characters they portray," Nash said.

(more)
Freshman Wes DuBois will play Sgt. Merwin J. Toomey, who must turn the group of young recruits into soldiers. "It's a difficult part because Wes has to be older and an authority figure," Nash said. "He's every soldier's nightmare."

Completing the cast of soldiers are freshman Dan Czuba, as Roy Selridge; freshman Shawn Eads, as Joseph Wykowski; sophomore Frank Pfeiffer, as Don Carney; freshman Scott Thomas, as Arnold Epstein; and freshman Travis Liggett, as James Hennesey.

Also important to Eugene are the women he encounters during boot camp. His love interest, Daisy Hannigan, is played by Elizabeth Sprague of Terre Haute, while the prostitute Rowena is portrayed by Lynn Kiaer, a mathematics professor at Rose-Hulman.

The cast members may be young, but Nash says the students have risen to the challenge of performing their first production during their first quarter at Rose-Hulman.

"Even though they are involved with intensive classwork, they are really willing to work," she explained. "These aren't one-dimensional characters. You see both the good and the bad."

Nash cautions that issues raised and language used during "Biloxi Blues" may not be suitable for family audiences.

Tickets will be available at the door before each performance. Prices are $4 for adults and $2 for persons 18 years old and under. Rose-Hulman students are admitted free. For more information, persons can call 877-8275.

- Written by Lisa Young
Indianapolis CEO Elected to Rose-Hulman Board

Terre Haute, Ind.--Indianapolis business executive Crone Knoy has been elected to a five-year term as a member of the Rose-Hulman Institute of Technology Board of Managers.

The board is the governing body for the private engineering and science college. His election occurred recently at the annual fall meeting of the board.

Knoy, a 1958 Rose-Hulman honors graduate, is chief executive officer and chairman of the board of Tank Industry Consultants, Inc. which is located on Indianapolis' westside. The company provides technical services nationwide to owners, engineers and contractors of steel storage tanks.

Knoy served on the board of managers from 1986 to 1990 as an alumni representative. He has also been president of the Rose-Hulman Alumni Association. Knoy received a 1993 Rose-Hulman Honor Alumnus Award earlier this month.

He serves on committees of national professional engineering organizations including the American Water Works Association, Steel Plate Fabricators Association, National Association of Corrosion Engineers and Steel Structures Painting Council.

-30-
Rose-Hulman Scholarships Offered to Math Contest Winners

Terre Haute, Ind.—Indiana eighth grade students can receive $40,000 worth of scholarships from Rose-Hulman Institute of Technology if they are among the top performers on the American Junior High School Mathematics Exam (AJHSME).

Rose-Hulman will award $5,000, $3,000 and $2,000 scholarships to eighth grade students if they have the top three scores in Indiana during the AJHSME competition, announced Elton Graves, state coordinator for the test and associate professor of mathematics at Rose-Hulman. The scholarships are renewable for up to four years.

Schools must register their students before Nov. 8, Graves said. Registration information is available from principals or mathematics teachers at middle schools. The 40-minute exam will be given Nov. 18 at the participating schools.

Last year, more than 5,300 students from 93 Indiana schools took part in the national exam. Three Indiana students were among 53 nationally who earned perfect scores on the exam.

Anyone having questions about the contest or the scholarships can contact Graves at Rose-Hulman by calling 812-877-8397.
Author Donald Hays to Discuss Southern Literature at Rose-Hulman

Terre Haute, Ind.--Novelist Donald Hays, whose book "The Dixie Association" was nominated as one of America's best works of fiction, will be featured Thursday (Oct. 28) during a program at Rose-Hulman Institute of Technology.

Hays will read from his most recent book, "Stories: An Anthology of Contemporary Southern Short Fiction," at 8 p.m. in A-202 of Moench Hall. His presentation is free and open to the public.

Hays writes about life, politics and sports in the Southern United States. During his public lecture, he will also discuss the role and status of Southern authors and literature.

Hays is director of programs in creative writing at the University of Arkansas. He is also the author of "The Hangman's Children" which was selected for a Critic's Choice Award in 1989 by the Los Angeles Times Book Review.

Rose-Hulman students will have the rare opportunity to be taught by the author of a novel they are studying when Hays serves as guest lecturer Thursday for a class in Modern Southern Fiction. The class, taught by Rose-Hulman humanities professor Caroline Carvill, is studying Hays' novel, "The Dixie Association."
Unhappy with his team’s play the past two weeks, Rose-Hulman Institute of Technology football Coach Scott Duncan hopes improvements in the team’s lineup and practice routine will result in a “determined” squad and end a two-game losing streak this Saturday against Wabash College.

The Engineers (3-4 overall; 1-2 in ICAC) have allowed 66 points in the last six quarters to lose Indiana Collegiate Athletic Conference games to Franklin College (32-28) and Hanover College (37-21). Meanwhile, the team’s once- potent run-oriented offense has scored just 21 points in the last six periods.

Duncan’s changes include elevating freshman Neil Powell from No. 3 to No. 1 on the depth chart at right guard, instigating more scrimmages into practice and starting practice at 6 p.m. (under the lights at Indiana State University’s Memorial Stadium) -- at least two nights this week.

And, Duncan admits, more changes could happen throughout the week -- depending on how the team performs in practice.

“We’ve got to shake things up. We’re going to have the No. 1 offense square off against the No. 1 defense on Monday, Tuesday, Wednesday and Thursday. We’re going to hit, hit and hit so that by Saturday it becomes customary for our players to hit each other when they step onto the field,” Duncan said.

With four ICAC teams having two losses, including Rose-Hulman and Wabash, Saturday’s winner could still finish second in the conference. Meanwhile, the loser would fall to the bottom half of the league standings with two weeks left in the season.

How Scott Duncan Sees Things:

On Team’s Attitude In Two-Game Losing Streak: “We can’t worry about why we didn’t beat Franklin or Hanover. That’s in the past. We’ve got to prove ourselves again on Saturday. Do we want to be one of the top teams in the conference or fail to the bottom? We’ve got to play with some pride and determination on Saturday.”

On This Week’s Game Against Wabash: “Wabash has an outstanding offense, with quarterback Chris Ings and senior wide receivers Chris Wiesehan and Eric Snively. They’re so talented and effective. If it gets to be a scoring duel -- which could very well happen -- I hope we can keep up with them. We couldn’t last year. Since we’re both out of contention for the ICAC title, this is a character game. We’re both playing for pride.”

Examining the Engineers: Team Proves It Can Move On Ground, In Air

Team has a 3-1 home record this season and has won five of the last seven games on Phil Brown Field. Fullback Anthony Hammersack (Jr., Salem, Salem H.S.), ranks among ICAC’s top rushers, averaging 128 yards per conference game and has scored four TD’s... WR Eric Gappa (So., Knox, North Judson H.S.) has a career-long 61-yard touchdown pass last Saturday at Hanover. He has caught 11 passes for 256 yards and two TDs the past two weeks... TE Matt Allen (Fr., Avon, Ohio, Avon H.S.) caught six passes for 79 yards and one TD (two yards) last week. He also rushed for 19 yards on an end reverse play in the second half... QB Todd Harris (So., Carlisle, Sullivan H.S.) has a 144.67 efficiency rating in ICAC games... LB Todd Sanders (Jr., Lanesville, Floyd Central H.S.) continues to lead the team with 58 tackles, while fellow LB Shawn Patterson (Jr., Terre Haute, South Vigo H.S.) has a team-high 35 tackles in ICAC games... Team has a commanding 100:33 to 79:27 edge in time of possession for the season, but has a 3-4 record... Team allowed nine quarterback sacks against Hanover last Saturday.

Game Facts

Opponent: Wabash College (Little Giants), NCAA Div. III
Time And Place: 1:30 p.m., Oct. 30, Phil Brown Field, Terre Haute, Ind.
Special Occasion: It’s Dads’ Day, with parents of the seven seniors being introduced prior to game.

1993 Records: Rose-Hulman, 3-4 overall and 1-2 in ICAC; Wabash, 3-4 and 2-2

So Far In 1993: The Engineers have defeated DePauw, 25-23; Knox College, 26-7; and Greenville College, 16-13, while losing at Washington Univ., 28-7; at the Univ. of Evansville, 38-6; to Franklin, 32-28; and at Hanover, 37-21 last week.

The Coaches: Rose-Hulman’s Scott Duncan is in his eighth season with a 47-29-1 record; Greg Carlson has a 66-32-2 record in 11 seasons at Wabash.

1992 Records: Rose-Hulman, 4-6; Wabash, 6-2-1
Series: Wabash leads, 32-8-3
Last Year’s Score: Wabash 40, Rose-Hulman 13 in Crawfordsville
Radio Coverage: WMHD-FM (90.5), starting at 1:25 p.m., and WJSH-AM (1300), which will air reports every 30 minutes, starting at 1:30 p.m.
Scouting Wabash's Little Giants: Defending ICAC Champs Limp Into Terre Haute Without Key Players

Injuries have riddled Wabash this season, severely hampering the team's chances of repeating as ICAC champions for the third straight year. . .TB David Kogan (Jr., 6-0, 205) and middle linebacker Sean Satterfield (Jr., 6-0, 221) suffered season-ending knee injuries last week. . .Kogan was on the verge of going over the 1,000-yard mark (962 yards on 195 attempts and 14 TDs). . .Satterfield was the team's top tackler (51). . .Pat Pleniens (Fr., 5-11, 169) replaces Kogan at tailback. He has rushed for 108 yards on 29 carries . . .Bill Warren (So., 5-11, 194) replaces Satterfield at MLB. . .QB Chris Ings (So., 5-8, 175) was ruled out for the season due to a knee injury suffered in a non-conference game against NMU. The team's backup quarterback, Tony Locker (Jr., 5-10, 175), is out with a sprained ankle. The Engineers lost two key returnees from last year's 24-0 victory over Wabash in 1991. Last year, Wabash scored 33 straight points to turn a 7-7 first-quarter tie into a 40-7 lead in the fourth period. TB David Kogan rushed for 122 yards on 24 carries, while QB Chris Ings completed 15 of 28 passes for 234 yards and four TDs (two to Eric Snively). Rose-Hulman is the last team to shut out the Little Giants. That came in 1990, with a 24-0 victory on Phil Brown Field.

Series History: Rose-Hulman Hopes To Repeat 24-0 Win Over Wabash in 1991 At Phil Brown Field

Despite trailing the series by a 32-8-3 margin, Rose-Hulman has been quite competitive with Wabash in the three games since the two rivals resumed its yearly rivalry in 1990. In fact, the Engineers defeated the Little Giants in 1990 (38-34 in Crawfordsville and 24-0 in Terre Haute) before losing last year, 40-13.

Last year, Wabash scored 33 straight points to turn a 7-7 first-quarter tie into a 40-7 lead in the fourth period. TB David Kogan rushed for 122 yards on 24 carries, while QB Chris Ings completed 15 of 28 passes for 234 yards and four TDs (two to Eric Snively). Rose-Hulman is the last team to shut out the Little Giants. That came in 1990, with a 24-0 victory on Phil Brown Field. The Engineers' defense limited Wabash to just 190 yards in total offense, converted a blocked punt into a touchdown and intercepted a pass in the end zone to hold a scoring drive. Meanwhile, TB Mark Guerrettaz rushed for 205 yards on 28 carries and scored one TD. PK Todd Holthaus also kicked a 28-yard field goal as a sophomore.

Basketball Team Opens Practice With 'Midnight Madness' At 12:01 a.m. Monday

After three weeks of rigorous physical conditioning workouts, basketball Coach Bill Perkins will finally see his players dribble a basketball at 12-01 a.m. Monday during the Engineers' annual Midnight Madness workout in Shock Fieldhouse. The workouts are open to the public. The 22-member team will conduct several drills and several scrimmages during the two-hour session.

Soccer Team Hosts Two ICAC Matches, Sets Its Sights On Winning Season

The soccer team concludes the season in a way that typifies the entire season -- with a challenge. After Monday's 1-1 tie over Division II St. Joseph's College, the Engineers (6-6-2) face two home conference matches: Franklin College at 3:30 p.m. on Wednesday and Manchester College at 11:30 a.m. on Saturday.

"The fact that we're playing at home and that we're having a good season is a plus for us," says Coach Greg Ruark, whose team is currently tied for second place in the ICAC. "The players want to finish on a high note. They're feeling good about what they've accomplished so far. They're feeling good about what they've accomplished so far. However, this is no time to get complacent. We need two more victories to meet some of our preseason goals." Those goals include having the first winning season since 1986 (7-6-1) -- and third winning season in Rose-Hulman history -- and having the best-ever finish in four years of ICAC competition.

Last week, the Engineers defeated Marian College, 7-0, and gained a 1-1 tie at Wabash College. Midfielder Son Cao (Jr., Plymouth, Plymouth H.S.) had one goal in each match, while forward Joe Wendel (Jr., Colonial Christian) scored three goals against Marian and had the lone goal against St. Joseph. Gabe Ferland (So., Portland, Colo.) scored two goals against Marian to increase his season total to 13 -- two shy of the Rose-Hulman record (15 by Dave Watson in 1981).
## 1993 Football Statistics for Rose-Hulman Institute - All Games

### Field Goals

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<tr>
<th>Player</th>
<th>FG</th>
<th>FG Attempts</th>
<th>Percent</th>
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| Todd Rahn       | 1      | 1-1           | 100%
| James Winkler   | 4      | 4-6           | 66.7%
| Matt Proctor    | 2      | 2-2           | 100%
| Mike Aravos     | 2      | 2-2           | 100%
| Jereme Williams | 4      | 4-4           | 100%

### Passing

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### Defensive Leaders

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<tr>
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<td>22</td>
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### Scoring

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### Schedule

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**Note:** The above information is a snapshot of the football statistics for the Rose-Hulman Institute in 1993. The data includes information on rushing, passing, receiving, and other key statistics for each player. The schedule details the games played and the results. The scoring section highlights the total points scored by each team. The schedule section provides a concise overview of the games played throughout the season.
Engineer Sports Schedule

Wednesday, November 3

BB: ICAC Tipoff Luncheon, 11 a.m.
FB: at Anderson, 1:30 p.m. (ICAC)

Standings

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Saturday's Games

Rose-Hulman at Anderson
Franklin at DePauw

Gridders Look To Score Upset; Soccer Ends With Two Shutouts

Quick, now. Who is the last football team to defeat Anderson University? That's right, the Rose-Hulman Institute of Technology pulled off that rare feat on Nov. 7, 1992, in Terre Haute. In fact, the Ravens are the only ICAC team that the Engineers hold an advantage over in the career series record, winning three of the past five games between the conference rivals.

Does that give Rose-Hulman a psychological edge leading into Saturday's game at Anderson? Coach Scott Duncan isn't quite sure.

"We've got to find some way to get ourselves mentally ready for this game. If it's the fact that we're the last team to beat them, fine. However, if we can't be ready to challenge the ICAC's best team, then we have no business even getting on the bus," Duncan said. "We should have the attitude: They've beaten every other team in the ICAC, but they haven't beaten us!"

The Engineers (3-5 overall; 1-3 in ICAC) are hoping to halt a three-game losing streak and four-game losing streak on the road. The team hasn't won a road game since Oct. 17, 1992, when it defeated Franklin College, 27-7, in Franklin.

How Scott Duncan Sees Things:

On Team's Play This Season: "We've got to find some reasons to win. For one, we don't want to have a losing season. We also can set our sights on beating an undefeated team and finish in the middle of the pack in the ICAC. This can still be a good season, if we play with intensity and desire. Our confidence is shaky right now, but I know that our players will be ready on Saturday."

On This Week's Game Against Anderson: "We've always seemed to match up well with Anderson. I hope that history continues to repeat itself this year . . . Anderson is the most talented football team in the ICAC, with one of the best backfields ever to play in this league (Lee and Mosgrove) . . . We've got to put our players in a position to rise to the occasion. And, if they can't rise to play an undefeated team which is already assured of tying for the ICAC title, we'll have to check our guys to see if they have a pulse . . . Our players play their best against tough teams. For example, if we can beat Greenville College, we can beat Anderson, too. They just have to set their minds toward doing it."

Examining The Engineers: Gappa Moves Up On Team's Scoring List

Fullback Anthony Hammad (Jr., Salem, Salem H.S.), the ICAC's third-ranked rusher, averaging 107.3 yards per conference game and has scored four TDs . . . WR Eric Gappa (So., Knox, North Judson H.S.) has scored four TDs the past three weeks, including 35- and 30-yarders last week. He has moved to second place on team's scoring list (30 points). Gappa has caught 15 of his team-high 19 passes (for 360 yards) the past three weeks . . . CB Todd Harris (So., Carlisle, Sullivan H.S.) has completed 53 percent of his passes (29 of 55) for 491 yards and four TDs the past two games . . . Reserve WR Randy Johnson (So., Columbus, Ind., North H.S.) caught two passes last week in his first varsity action. He also is the holder on the team's PAT kicks . . . WR Ira Ferguson (Jr., Shreveport, La., C.E. Byrd H.S.) made a surprise appearance as tailback, carrying one time for two yards . . . DE Mike Seals (Sr., Brookville, Franklin County H.S.) had a career-high 14 tackles against Wabash . . . LB Todd Sanders (Jr., Lanesville, Floyd Central H.S.) continues to lead the team with 70 tackles, while fellow LB Shawn Patterson (Jr., Terre Haute, South Vigo H.S.) has a team-high 44 tackles in ICAC games . . . CB Jerome Williams (So., Indianapolis, North Central H.S.) has four interceptions this season . . . PK Todd Holthaus (Sr., Pana, Ill., Pana H.S.) made three solo tackles on kickoff and punt coverage last week . . . Team has been overshadowed 62-39 in the second half of ICAC games . . . The team has a 5-6 record on road in ICAC games since 1990.

Game Facts

Opponent: Anderson University (Ravens), NCAA Div. III
Time And Place: 1:30 p.m., Nov. 6, Macholtz Stadium, Anderson
1993 Records: Rose-Hulman, 3-5 overall and 1-3 in ICAC; Anderson, 8-6 and 5-0
So Far In 1993: The Engineers have defeated DePauw, 25-23; Knox College, 26-7; and Greenville College, 16-13, while losing at Washington University, 28-7; at the Univ. of Evansville, 38-9; to Franklin, 32-28; at Hanover, 37-21; and to Wabash, 17-13 (last week).

The Coaches: Rose-Hulman's Scott Duncan is in his eighth season with a 47-30-1 record; Mike Manley has a 45-66-3 record in 11 seasons at Anderson.

1992 Records: Rose-Hulman, 4-6; Anderson, 5-5
Series: Rose-Hulman leads, 3-2
Last Year's Score: Rose-Hulman 23, Anderson 14 in Terre Haute
Radio Coverage: WJSU-AM (1300) will air reports every 30 minutes, starting at 1:30 p.m.
Scouting Anderson's Ravens: Opponent Is Assured Of Tie For ICAC Title, Looks For NCAA Bid

After two straight 5-5 seasons and nine straight non-winning seasons, Coach Mike Manley's team has already assured itself of a share of the ICAC title and is competing for an appearance in the NCAA Division III postseason tournament—just with two senior starters on offense and three seniors on defense. The Ravens were ranked No. 4 in the NCAA's North region and could move up to No. 3 since Defiance College lost last Saturday. The top four teams qualify for the tournament. Ravens have the all-time leading rushing duo of TB Thomas Lee (Jr., 5-7, 182) and FB Marco Mosgrove (So., 5-10, 210) and a strong receiving corps led by WR Eric Gappa (5-11, 170). Wind finished in 14th place (27:40.67). However, the Ravens have completed just 15.4 points in league games. The defense is led by safety Phil Tyler (Jr., 6-2, 183), who leads the team in tackles and was named the ICAC's Defensive Player of the Week after having nine tackles and two pass breakups against Franklin. Anderson has never had an undefeated season.

Players Of The Week: Mike Seals And Williams Share Defensive Honors Against Wabash

Offensive: Quarterback Todd Harris (So., Carlisle, Sullivan H.S.), who completed 10 of 19 passes for 143 yards and two touchdowns (35 and 30 yards to WR Eric Gappa). He also carried the ball 11 times for -5 yards.

Co-Defensive: End Mike Seals (Sr., Brookville, Franklin County H.S.), who had a career-high 14 tackles (6 solos), including one behind the line of scrimmage for -4 in losses for Wabash College.

Co-Defensive: Cornerback Jerome Williams (So., Indianapolis, North Central H.S.) received honors for the third time this season. Williams led the Ravens in tackles with 54 stops, but intercepted a Little Giant pass in the end zone and recovering a fumble in the first half to stop another Wabash drive.

Special Teams: Punter Todd Holthaus (Sr., Pana, Ill., Pana H.S.), who averaged 41.5 yards on eight punts last Saturday. He kicked a 55-yard punt in the first half and had two punts travel over 40 yards in the second half. Holthaus' 39-yard average leads the ICAC. Overall, he is averaging 37.1 yards per punt this season.

Scout Team: Reserve offensive lineman John Goodhue (So., 5-10, 180, Carlisle, Iowa, Indianola H.S.) and linebacker Tab Jacobitz (Fr., 5-10, Stella, Neb., SE Consolidated H.S.) earned praise from the coaching staff for helping get the starting unit prepared for last Saturday's game.

Series History: Rose-Hulman Was Victorious In Last Trip To Anderson In 1990

It's been three seasons since the Engineers have played at Anderson's Macholtz Stadium. In that 1990 contest Rose-Hulman's effective offense (473 yards) and hard-hitting defense (two interceptions) came away with a decisive 38-10 victory. Both teams have split the last two games in the series—both in Terre Haute. In 1991, the Ravens pulled out a 20-17 victory, outscoring the Engineers 12-3 in the second half. Last year, Rose-Hulman got 115 yards in rushing from Anthony Hammack and Eric Gappa scored on two passes (36 and 27 yards) from Shawn Blaich for a 23-14 victory. Thomas Lee gained 154 yards on 24 carries last year.

Soccer Team Closes Out With 8-6-2 Record, Ties For Second In ICAC

Has the Rose-Hulman soccer team turned the corner? Closing out the season with two wins and one tie last week, the Engineers chalked up their first winning season (8-6-2) since 1986 and tied for second place in the ICAC. Coach Greg Russ is already concentrating on next year, when he returns all but one starter from this season.

We won't be able to sneak up on anybody next year," Ruark said. "Opponents will see our record and know that we beat quality teams. We'll have to work even harder because of the success we had this year."

Last week, the team tied Division II St. Joseph's College, 1-1, before posting two shutouts against ICAC foes Franklin College (5-0) and Manchester College (2-0).

Sophomore Gabe Ferland (So., Fort Collins, Colo.) scored one goal against Franklin to finish the season with a team-high 14 goals—a shy of the school record (15 by Dave Watson in 1981). He has now scored 23 goals during his career—second on the all-time list. Midfielder John Haraguchi (Sr., South Bend, Riley H.S.), the team's lone senior starter, scored two goals on penalty kicks against Franklin—the first goals of his career. Fortwards Wayne Moore (Fr., Evansville, Harrison H.S.) and Joe Wendel (Jr., Noblesville, Colonial Christian) each scored two goals last week.

Goalkeeper Corey Willis (Fr., Wilmington, Ohio, Wilmington H.S.) closed out the season on a high note: two shutouts and a 1-1 tie. He had three shutouts in ICAC matches and a 0.66 goals-against-average in the league.

Joe Head Earns All-League Honors As Cross Country Team Finishes Fifth In ICAC

Led by freshmen Joe Head (Phoenix, N.Y., Liverpool H.S.) and Eric Wind (Fr., Noblesville, Noblesville H.S.), the Rose-Hulman cross country team duplicated last year's fifth-place showing at the Indiana Collegiate Athletic Conference championships last Saturday at Manchester College. Head became the second freshman in five years to earn all-conference honors as a freshman. (Chris Wilson did it in 1988) with an eighth-place finish (27:12.80). Wind finished in 14th place (27:40.67).

However, the rest of the team couldn't keep up with the pack, with Marty Malberg (Jr., Clayton, Cascade H.S.) finishing 26th, Mike Miller (Jr., Huntingburg, Huntingburg H.S.), and Brady Neukam (Sr., H.S.), 38th. "Joe got to the front in the beginning and battled with the leaders during the entire 8 kilometers. It was a good performance for a freshman," said Coach Bill Welch. "Eric had the best race for our team. He has a strong race. He's made tremendous progress throughout the season."

The team now prepares for the NCAA Great Lakes Regional meet on Nov. 13 at Cleveland, Ohio.

Swimming Team Opens Season With Win Over Division I Team, Diver Sets Record

Led by record-setting performance by diver Steve Baumeister (Fr., West Allis, Wis., Nathan Hale H.S.), the swimming team opened the season '79 with a 155-70 victory over the University of Illinois, a Division I team, last Saturday at Oxfords pool III. The team also lost to Eastern Illinois, 65-38, in the triangular meet.

Baumeister set a school record in the 1-meter diving competition with 155.70 points in the six required dives. Other events, Bob Danforth (Jr., Sheboygan, Wis., North H.S.) won the 50-meter freestyle (23.05), Aaron Lindsey (So., Butler H., Macounaugh H.S.) won the 200-meter individual medley (2:10.87) and Mike Rubin (So., Midland, Texas) was second in the 100-meter breaststroke (1:05.2). Rose-Hulman also won the 400-meter freestyle relay with the team of Ken Wilson (So., South Bend, Riley H.S.), Mike Wisecup (Fr., Noblesville, Noblesville H.S.), Danforth and Lindsey.

The Engineers (1-1) will travel to Wabash College for a dual meet on Nov. 10.
### 1993 Football Statistics for Rose-Hulman Institute of Tech - All Games

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<td>Nov. 10</td>
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### Teene Kann College Conference Games

### Rushing

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### Statistics

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<td>Average Per Pass</td>
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### Game Statistics

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### Notes

- * indicates a home game for Rose-Hulman Institute of Tech.
- Statistics are for all games played during the 1993 season.
- All games were considered conference games for the purposes of these statistics.
- The team with the best overall record is Rose-Hulman Institute of Tech, with a record of 8-3.
Nearly 400 to Participate Saturday in 27th Annual Rose-Hulman Mathematics Contest

Mathematics will be the focus of competition Saturday (Nov. 13) at Rose-Hulman Institute of Technology when some of the best math students in Indiana and Illinois compete in the 27th annual Rose-Hulman Institute of Technology High School Math Contest.

Nearly 400 students representing 24 schools will take part in the 20-question contest, says John Rickert, who is coordinating the competition along with Rose-Hulman mathematics faculty colleagues Ralph Grimaldi and Lynn Kiaer.

The one-hour competition starts at 11 a.m. in Moench, Olin and Crapo halls at Rose-Hulman. Team and individual winners will be announced at 1:30 p.m. in the Moench Hall Auditorium.

Students from all Vigo County high schools along with Bicknell, Crawfordsville and Linton high schools will compete.

Terre Haute North Vigo High School finished second in last year's competition which was won by Center Grove High School of Greenwood.

-30-

For further information contact: John Rickert, 877-8473 (o)
877-9887 (h)
Dave Piker, 877-8441 (o)
535-4714 (h)
Gridders Want To Go Out A Winner; Cagers Hosting Exhibition Friday

Rose-Hulman Institute of Technology's athletic teams will make a quick transition between the fall and winter sports seasons this weekend. In fact, the basketball team tips off its season Friday night in Shock Fieldhouse 18 hours before the football team plays its final game on Phil Brown Field. The cross country and swimming teams are also in action in one of the busiest sports weekends of the year.

Here is a preview of what's in store for Rose-Hulman's teams this week:

* Football Final: The football team (3-6 overall; 1-4 in ICAC) will host Manchester College (4-5; 1-4) in the final game of the season. A win would keep the Engineers out of last place in the Indiana Collegiate Athletic Conference and make the winter a lot warmer.

  * Basketball Exhibition: Engineer fans can get their first glimpse of this year's basketball team when it faces an exhibition against the Athletic Ambassadors, an Indianapolis-based group of former small college players, at 7:30 p.m. Friday. Senior Ryan Steinhardt and sophomore Kiley Gwatney are the lone returning starters from last year's 15-10 team.

* Cross Country Regional: The cross country team travels to Cleveland for Saturday's NCAA Division III Great Lakes Regional. The top two teams advance to the national championships.

* Swimmers In The Pool: Coming off a victory over Division I Northeastern Illinois University, the swimming team faces a bigger test on Wednesday when it travels to nationally ranked Wabash College on Wednesday. The squad also has a dual meet at Asbury Seminary on Saturday in Lexington, Ky.

How Scott Duncan Sees Things:

On Team's Goals For Saturday's Game:

"Our seniors deserve to go out with a win. You always want to walk off the field for the last time as a winner. However, win or lose, our seniors will always be champions in my mind. We need to carry the intensity that we had last week (a 28-21 loss at Anderson) over to Saturday's game."

On This Week's Game Against Manchester: "I keep looking at the films (of Manchester) and can't understand how they're 4-5 overall and 1-4 in the league. Manchester is a talented football team that always gives us fits. If we're emotionally ready, it should be a good football game. If we intend to just show up and go through the motions, we'll get beat. All I'm asking for is one more Saturday with a good effort on the field."

Examining The Engineers:

Quarterback Todd Harris (So., Carlisle, Sullivan H.S.) suffered a concussion and bruised right hand last Saturday at Anderson. He is questionable for the season finale. Reserve Shawn Blaich (Jr., Greensburg, South Decatur H.S.) came in to complete four of nine passes for 65 yards and one TD last week. He is questionable for the season finale. Reserve Shane Blach (Jr., Greensburg, South Decatur H.S.) scored his first collegiate touchdown on a 2-yard run against Anderson. Later, he also scored on a 4-yard run... Fullback Anthony Hambrock (Jr., Salem, Salem H.S.) is the team's leading scorer with seven TDs and 44 points... LB Todd Sanders (Jr., Janesville, Floyd Central H.S.) continues to lead the team with 82 tackles... FS Tony Kofler (Fr., Lake Wales, Fla., Lake Wales H.S.) made 12 tackles at Anderson... DT Matt Lowe (Jr., New Palestine, New Palestine H.S.) had a season-high seven tackles last week... P Todd Holthaus (Sr., Pana, Ill., Pana H.S.) ranked 26th among Division III punters last week, averaging 37.1 yards per punt. That average has dropped to 36.8 this week.

(More Information On Rose-Hulman Athletics On Back Of This Page)
Scouting Manchester's Spartans: Offense Has Sputtered, Scoring Just 13 Points In Last Two Games

The Spartans' offense has been on a roller-coaster ride throughout the season. When QB Willie Rivera (JR., 5-10, 185) is hot, Manchester is one of the most powerful teams in the ICAC. When he's ineffective, the team has trouble moving the ball against any defense. That's been the case the past two weeks when the team has scored just 13 points. Rivera, who has been used at quarterback and tailback in the offense, ranked 18th in the nation last year in total offense, but is averaging just 120 yards this season. He has completed 67 of 169 passes for 846 yards and six TDs. However, he has thrown 11 interceptions. Rivera has also rushed for 239 yards and six TDs. Reserve QB Steve Panning (SO., 5-10, 170) has completed 36 of 68 passes for four TDs... Other offensive threats include TB Donnie Lewis (SO., 5-9, 170), who has rushed for 716 yards and four TDs, and WR Jeremy Markham (JR., 6-0, 155), who has caught 23 passes for 410 yards and two TDs... Defensively, LB Jon Webster (JR., 6-1, 225) was the Co-Most Feared Defensive Player in the ICAC during the preseason... The Spartans' lone ICAC win came against DePauw University, 28-19, on Oct. 23 in North Manchester.

Players Of The Weekend: Offensive Linemen Boone, Meyne Share Honors With Cornerback Paul Rogers

Offensive: Center Brandon Boone (FR., Gotha, Fla., West Orange H.S.) earned praise from the coaching staff for his blocking against Anderson University. "Due to Brandon's fine efforts, we were effective running against one of the top defenses in Division III," said Coach Scott Duncan, who also serves as the team's offensive line coach.

Defensive: Cornerback Paul Rogers (JR., Wapakoneta, Ohio, Wapakoneta H.S.) had 12 tackles (7 solos), one for -1 yards in losses and had two pass breakups.

Special Teams: Offensive Tackle Greg Meine (SR., Portage, Portage H.S.) earned top honors for his blocking on punts and extra-point kicks.

Scout Team: Reserve wide receiver Billy Hammond (FR., Westport, South Decatur H.S.) and strong safety Parker Lucas (FR., Plainfield, Plainfield H.S.) were signaled out by the coaching staff for helping get the starting units prepared for last Saturday's game.

Series History: Rose-Hulman Has Had Trouble Against Manchester In Last Two Encounters

Call it the "Final Exam Blues" or "The Tenth Week Hex," but the Rose-Hulman football team hasn't played well in its last two season finales against Manchester College -- on the Saturday before final exams for the fall quarter. The Spartans got three touchdowns from QB Willie Rivera (5, 5 and 7 yards) to beat the Engineers, 21-7, last year in North Manchester. They were victorious in their last trip to Terre Haute, winning 27-18 in 1991. In fact, Rose-Hulman's last victory over the Spartans came in 1990 -- a 30-6 win that wrapped up second place in the ICAC.

Last year, Manchester took advantage of three Rose-Hulman interceptions to win, despite having just 220 yards in total offense. The Engineers had 261 total yards, but could score just once: an 8-yard pass from QB Shawn Blaich to WR Eric Gappa. Blaich completed 19 of 35 passes for 199 yards.

Cagers Hosting Exhibition Against Indiana-Based Athletic Ambassadors On Friday

With just one week remaining before the start of the regular season, the basketball team will get its final tuneup Friday by hosting an exhibition game against The Athletic Ambassadors, a Hoosier-based version of The Athletes In Action team. The squad consists of several former Indiana small-college players and is coached by Rick Jones. Halftime will include introduction of winners in the American Cancer Society's Wabash Valley Basketball Clinic (conducted on Oct. 30) and an evangelical message by The Athletic Ambassadors.

"The Athletic Ambassadors will give us a barometer of where we're at and how far we've come in just two weeks of practice," Coach Bill Perkins said. "I've been encouraged with the skill level of our players. We haven't had to spend a lot of time on fundamentals because, quite frankly, we don't have the time."

All 21 players on the Engineers' roster will see some playing time, according to Perkins. He won't commit on a prospective starting lineup up later this week. (The team will have 22 players after Saturday, when junior Shawn Blaich concludes football and joins practice.)

The Engineers, 15-10 last year, return 12 lettermen, including starters Ryan Steinhardt (SR., Lafayette, Jefferson H.S.), who averaged 9.2 points and 5.6 rebounds last season; and Kiley Gwaltney (SO., Fairfield, Ill., Fairfield H.S.), who averaged 7.2 points last year. Jason Bork (JR., Bay City, Mich., All Saints Central H.S.) may be the starting assignment at point guard. Perkins also wants to get a good look at forwards Mike Lawrence (SR., Evansville, Reitz H.S.), Chris Wheatley (JR., Frankfort, Frankfort H.S.) and Troy Halt (FR., Lyons, White River Valley H.S.), centers Jason Kear (SO., Troy, Ohio, Troy H.S.) and Kent Murphy (FR., Wilmington, Ohio, Wilmington H.S.) and guards Damon Swayne (New Carlisle, New Prairie H.S.), Mike Schmottle (Avon Lake, Ohio, Avon Lake H.S.), Shawn Kaser (JR., Crawfordsville, Southmont H.S.) and Benj Glass (FR., Kokomo, Northwestern H.S.).

Rose-Hulman opens the season Nov. 19 against Ripon College in the first round of the Ripon Invitational Tournament.

Three Soccer Players Earn All-ICAC Honors, Greg Ruark Gets Coaching Award

While soccer Coach Greg Ruark earned Co-Coach Of The Year honors, three of his players have been named to the all-ICAC league by the coaches. Earning all-ICAC honors were midfielders John Haraguchi (SR., South Bend, Riley H.S.), forward Gabe Ferland (SO., Fort Collins, Colorado) and defender Rob McGhie (SO., Eagan, Minnesota, St. Paul's Academy). It was the second straight year that Ferland and McGhie have earned all-league honors.

Haraguchi scored two goals and had three assists. Ferland tied an Engineer record with 15 goals this season and now has 23 goals for his career -- second on the all-time list. McGhie scored five goals despite playing through an injury-marred season.

Midfielder Son Cao (JR., Plymouth, Plymouth H.S.) led the team in assists (8) while Joe Wendel (JR., Noblesville, Colonial Christian) had nine goals and three assists. Goalkeeper Corey Willis (FR., Wilmington, Ohio, Wilmington H.S.) had four shutouts and allowed 27 goals in 16 matches.

"Healthy" Cross Country Runners Hope To Compete With Region's Best In Ohio

Healthy after a two-week bout with an assortment of illnesses, the cross country team is ready to compete with the best runners from Ohio, Michigan and Indiana at Saturday's Great Lakes regional meet in Cleveland. Illness hurt the Engineers' performance in the ICAC meet on Oct. 30. Now, two weeks later, Coach Bill Welch hopes the team challenges for one of the top finishes in the region. Look for Joe Head (FR., Phoenix, New York, Liverpool H.S.) to run with the lead pack -- like he did in the conference meet to earn all-ICAC honors with an eighth-place finish.

Other runners hoping to improve their performances include Eric Wind (FR., Noblesville, Noblesville H.S.), who has run well throughout his first collegiate season; Brady Neukam (SR., Huntingburg, Southridge H.S.), the team's lone senior; Marty Malberg (JR., Clayton, Cascade H.S.) and Bruce Bender (JR., Camden, Maine).
### 1993 Football Statistics for Rose-Hulman Institute - All Games

#### Record:
- **All Games:** *(3-6-0)*
- **Non-Conference:** *(1-2-0)*
- **Home:** *(3-0-0)*
- **Away:** *(0-4-0)*
- **Neutral:** *(0-0-0)*

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#### Notes
- All games played against conference opponents.
- Todd Holzhaus had a game-high 73 rushing yards.
- Eric Gappa had 572 passing yards.
- The team had 10 tackles with 11 assists.
OH BROTHER! MIKE, JUSTIN SEALS PROVE TO BE DOUBLE TROUBLE FOR ENGINEER OPPONENTS

TERRE HAUTE, Ind. -- Opposing quarterbacks of the Rose-Hulman Institute of Technology football team can be excused if they complain of dizziness or experience double vision this season.

You see, if senior Mike Seals hasn't hit them from the right side of the Engineers' defense, then little brother Justin Seals has probably made the tackle from the left side. And, most often, both will combine to sandwich an opposing player.

"We've been having fun," says Justin, a 6-foot-3, 220-pound freshman defensive end from Franklin County High School.

That means double trouble for opponents. Mike is a 6-foot-4, 230-pound defensive end who leads Rose-Hulman in quarterback sacks (six for -55 yards), has recovered two fumbles and ranks sixth on the team in tackles (55). Justin has similar statistics: 53 tackles, seven for loss (-23 yards) and three quarterback sacks.

Justin also was named the Indiana Collegiate Athletic Conference's Co-Defensive Player of the Week after making 10 tackles, including one that stopped a two-point conversion in a 25-23 victory over DePauw University on Oct. 9.

And, while they're fiercely competitive at home in Brook-
ville, there's no sibling rivalries in Terre Haute.

"The only reason I got to make the stop against DePauw was because I was the new kid on the block (defensive line)," says Justin, son of Gary and Janet Seals of 13170 Romer Road in Brookville. "I've got to prove myself every Saturday. Are they going to challenge a senior, honorable mention all-ICAC player (Mike Seals) or run it toward the freshman? On most plays, the action is coming my way."

Not any more. Justin has continuously proven himself this past fall. Now, opponents are looking to run the ball elsewhere or throwing over the defensive line to move the ball downfield.

"Justin stepped right in and played well. Because of Mike, Justin knew what it would take to play here and was ready -- physically and mentally -- for the challenge," says Rose-Hulman Coach Scott Duncan. "And, I know Mike was happy to have Justin around for his senior year."

In fact, this is the first time the Seals have played on the same team since pickup games in the neighborhood or family outings. Mike didn't try to influence Justin's decision to attend Rose-Hulman -- after earning honorable mention all-state honors as an offensive line in 1991 and 1992 at Franklin County. Princeton University wanted Justin to play offensive line, but didn't offer an athletic scholarship.

"Deep down, I wanted to play defense. Also, I thought I would get a chance to play right away at Rose-Hulman. As a walk-on, I might have to wait three years for my chance at Princeton. I wanted to play right away -- if I was ready," Justin said.

(more)
Seals became the starter at left defensive end in the second week of the season -- after having seven tackles as a reserve in the Engineers' season-opening 28-7 loss at Washington University (Mo.). He caused a fumble (recovered by Mike) against Knox College, had eight tackles against Greenville College and had two quarterback sacks against Wabash College.

"I was hoping he would attend Rose-Hulman, because I wanted to help him along during his freshman year," says Mike, sounding like a big brother. "We've always been close and competitive."

Seals is finally realizing that he'll play his last game on Saturday against Manchester College (in Terre Haute). He's also working hard to complete his mechanical engineering degree by next May -- taking extra classes during the fall quarter -- and hopes to find employment in manufacturing upon graduating.

So, which of the Seals is the better football player?

"Justin is a good athlete," Mike concedes. "I've got the mental edge, because I'm older . . . but he MIGHT be better than me in football. That's hard for me to admit."

Not surprising, Justin points an admiring eye toward his big brother.

"Mike is stronger than me -- now. He usually wins when we fight on the floor at home," the freshman mechanical engineering major said. "I'm amazed with what Mike has accomplished here: playing football and working toward completing his degree. He's been a big help this year as I got adjusted to college. I hope to follow in his footsteps."

That's a goal shared by Rose-Hulman's football fans, too.
Terre Haute South Vigo Overall Winner of 28th Annual Rose-Hulman Mathematics Contest

Teams from Terre Haute South Vigo High School were the overall winners when they defeated competitors from almost 30 Indiana and Illinois high schools during the 28th annual Rose-Hulman Institute of Technology Mathematics Contest Saturday.

Terre Haute North Vigo High School students also won team and individual honors.

More than 400 students, the largest number ever to participate in the annual contest, had one-hour to answer 20 math questions.

Terre Haute South Vigo teams won the freshman and junior level contests and tied with Terre Haute North Vigo for first place in the sophomore division. In addition, Terre Haute North Vigo's team won the senior division and finished third in the junior division.

Local students winning individual honors included Anne McLaren of Terre Haute North Vigo, who was the top female and top overall scorer among freshmen competitors. Terre Haute North Vigo's Andy Cahill and John Kinnebrew of South Vigo High School tied for top honors among male freshmen contestants and for second overall in the freshman division. Brandon Abel of
Terre Haute South Vigo finished fourth.

In the sophomore division, Terre Haute North Vigo's Cristie Mahler was third. Janine Orman of Terre Haute South Vigo was third in the junior class and Ryan Rossiter of Terre Haute North Vigo was second among seniors. Northview High School's Clint Galbraith won fifth place in the senior division.

Columbus North finished second to Terre Haute South in the overall results. Center Grove was third.
Cagers Pack Bags, Open Season With Three Games In Four Nights

After completing final exams for the winter quarter, members of the Rose-Hulman Institute of Technology basketball team will prepare to open the 1993-94 season with three important tests. On Friday, the Engineers (15-10 last year) will play Ripon College at 8 p.m. (CST) in the first round of the Ripon Tipoff Classic in Wisconsin. A championship (8 p.m.) or consolation (6 p.m.) game against either MacMurray College (Ill.) or Lakeland College (Wis.) follows Saturday night.

Then, on Monday, Rose-Hulman will once again pack its bags and travel to Centre College in Danville, Ky.

It’s all part of a six-game opening trek through Wisconsin, Kentucky, Illinois and Indiana in the first three weeks of the season. Bill Perkins’ team won’t play its first home game until Dec. 3-4 when it hosts the Rose-Hulman Invitational.

With just two returning starters, the sense of adventure is certainly there. So, too, are the opportunities -- especially at the guard position, where the team must replace the leadership and scoring production of all-conference players Scott Beach (17.5 ppg) and Scott Woods (15.2 ppg), and forward Corey Ottens (team-high 6.5 rpg).

Taking A Close Look At The Engineers

The team has depth, especially at the forward position. Don’t be surprised if all 15 varsity players see plenty of playing time this weekend . . . Forward Jason Kear (So., Troy, Ohio, Troy H.S.) came off the bench to lead the team in scoring (19 points), rebounding (eight) and blocked shots (three) during last Friday’s 95-63 victory over The Athletic Ambassadors in an exhibition game . . . Guard Kiley Gwaltney (So., Fairfield, Ill., Fairfield H.S.) scored 12 points in 13 minutes during the exhibition, while guard Zack Johnson (So., West Terre Haute, West Vigo H.S.) had 10 points against the team of former small-college players . . . Forward Ryan Steinhart (Jr., Lafayette, Jefferson H.S.) started the last 13 games of the 1992-93 season after being a key reserve in the first month of the season . . . Team lost its last seven road games last year and hasn’t won an away
Rose-Hulman Prof Co-Author of New Textbook That Gives Students Something Extra

College students using a new textbook co-authored by Rose-Hulman Institute of Technology physics professor Art Western will have more than words and problems to help them learn physics. They'll also have the aid of computer software.

Western and Bill Crummett, associate professor of physics at Centre College in Danville, Kentucky, worked for more than five years to create the new 1,150 page textbook titled, "University Physics: Models and Applications."

However, they didn't stop with text and standard end-of-the chapter problems. The two also created computer software that supplements the text and the book's problems. The software is now provided on floppy disks and by next fall additional tutorials with sound and animation will be available on CD-ROM, the newest popular system of personal computer data storage.

"The diskette accompanying the text contains data files and spreadsheets that help students analyze real-world events," explained Western, who is chairman of the Rose-Hulman Department of Physics and Applied Optics.

(more)
Western and his colleague developed the book for use in freshman and sophomore college physics classes because of their dissatisfaction with material available to them.

According to Western, the new text differs from others because it emphasizes the creation of simplified models that capture the most important features of real-world situations and uses numerical techniques which allow students to apply fundamental principles to complex problems.

"We went to great length to use examples that show students that all of us are influenced by physics in our everyday lives," he added.

The new textbook and software will be available in January to college and university faculty in the United States and Canada.
Scouting The Upcoming Basketball Opponents

Knox College: It will be the season opener for the Prairie Fire, which return two starters from last year's 17-6 team that won a Midwest Conference title and ranked as high as fourth in last year's Division III Midwest regional rankings. Last year's top scorer, guard Brad Eshoo (18 ppg), is back along with all-conference forward Jerry Mitchell (12.5 ppg).

Monmouth College: The Fighting Scots are also getting off to a late start, playing their first game of the season, a road trip. The team plays its first home game Dec. 3 by hosting Albion College (Mich.) in the first round of the Rose-Hulman Invitational.

The Engineers had a lot to be thankful for early in the 1993-94 season. The team has outrebounded all three of its opponents (holding a 42.3 to 32.3 per-game edge), a .438 three-point field goal percentage (14 of 32) and balanced scoring. Still, there are concerns: a .397 field goal percentage, 46 turnovers and just 20 assists in three games.

We're playing like a young team that's still searching for an identity. That's where we need some practice time to work out some of the kinks.

Taking A Close Look At The Engineers

The team had seven different double-figure scorers during the first three games... Guard Shawn Kaser (Jr., Crawfordsville, Southmont H.S.) made a quick adjustment to the varsity, making his first start against MacMurray College (6 points, 4 assists and 2 rebounds) after spending last year on the junior varsity... Guard Damon Swope (Sr., New Carlisle, New Prairie H.S.) scored a career-high 12 points in his first collegiate start against Ripon College... Reserve center Kent Murphy (Fr., Shelbyville, Ill., Shelbyville H.S.) came off the bench to score 13 points and have a team-high eight rebounds against MacMurray. He had a game-high 10 rebounds at Centre.

Cagers Have Little Time To Count Blessings, Prepare For Next Trip

After taking a breather to count their blessings for Thanksgiving, the Rose-Hulman Institute of Technology basketball team returns to the court this weekend to participate in the Knox/Monmouth Pizza Hut Classic in Illinois. On Saturday, the Engineers (1-2) will play at Knox College at 7:30 p.m. (CST) in Galesburg, Ill. Then, on Sunday, the team travels a short distance to Monmouth College at 1:30 p.m. (CST).

That's not all. On Tuesday, Rose-Hulman once again crosses the Illinois state line to play at Blackburn College in Carlinville. This will complete a season-opening, six-game road trip. The team plays its first home game Dec. 3 by hosting Albion College (Mich.) in the first round of the Rose-Hulman Invitational.

The team had seven different double-figure scorers during the first three games... Guard Shawn Kaser (Jr., Crawfordsville, Southmont H.S.) made a quick adjustment to the varsity, making his first start against MacMurray College (6 points, 4 assists and 2 rebounds) after spending last year on the junior varsity... Guard Damon Swope (Sr., New Carlisle, New Prairie H.S.) scored a career-high 12 points in his first collegiate start against Ripon College... Reserve center Kent Murphy (Fr., Shelbyville, Ill., Shelbyville H.S.) came off the bench to score 13 points and have a team-high eight rebounds against MacMurray. He had a game-high 10 rebounds at Centre.

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Monmouth College: The Fighting Scots are also getting off to a late start, playing their first game of the season, a road trip. The team plays its first home game Dec. 3 by hosting Rose-Hulman on Sunday... Forward Lance Castle (16.8 ppg) returns from last year's 13-10 team... New faces in the lineups should be guards Lamar Rudd (10.7 ppg) and Robert Richmond (11.3 ppg), and junior college transfers Chad Benedict (from Wabash Valley Comm. College), Don Mederan (Belleville CC) and Toby Whiteman (Southeastern CC).

Blackburn College: Coach Ira Zeff's young team struggled through most of the 1992-93 season (an 8-17 record) and opened this year with an 86-65 loss at Illinois College on Nov. 20... Four starters return, including 6-foot-8 center Chris Parker (15 ppg, 8.8 rpg) and senior guard Robert Richmond (11.3 ppg), and four starters return, including 6-foot-8 center Chris Parker (15 ppg, 8.8 rpg) and senior guard Robert Richmond (11.3 ppg), and junior college transfers Chad Benedict (from Wabash Valley Comm. College), Don Mederan (Belleville CC) and Toby Whiteman (Southeastern CC).

Blackburn College: Coach Ira Zeff's young team struggled through most of the 1992-93 season (an 8-17 record) and opened this year with an 86-65 loss at Illinois College on Nov. 20... Four starters return, including 6-foot-8 center Chris Parker (15 ppg, 8.8 rpg) and senior guard Robert Richmond (11.3 ppg), and junior college transfers Chad Benedict (from Wabash Valley Comm. College), Don Mederan (Belleville CC) and Toby Whiteman (Southeastern CC).

Talbot, Holthaus Named To Academic Team: For the second straight year, basketball players Greg Hubbard (Sr., Kokomo, Northwestern H.S.) and Todd Holthaus (Sr., Pana, Ill., Pana H.S.) have been named to the District 5 College Division All-Academic Football Team by sports information directors in Indiana, Illinois and Wisconsin. Both players are now eligible for Academic All-American honors. Hubbard, an offensive lineman, was a first-team Academic All-American last year (4.0 GPA in mechanical engineering). Holthaus, a placekicker/punter, was a second-team choice in 1992 (3.7 GPA in electrical engineering).

(Latest Individual/Team Basketball Statistics On Back Of This Page)
1993-94 Rose-Hulman Institute of Technology Statistics  
(Won 1, Lost 2; ICAC: 0-0; Home: 0-0; Away: 0-2; Neutral: 1-0)

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**HIGH REBOUNDS**

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6 | Murphy, Kent  
10 | Murphy, Kent
SPORTS INFORMATION

Three Engineers Selected To All-ICAC Football Team

TERRE HAUTE, Ind. -- Rose-Hulman Institute of Technology
cornerback Jerome Williams, fullback Anthony Hammack and wide
receiver Eric Gappa have been named to the 1993 Indiana Colleg-
iate Athletic Conference football team.

Williams, a 5-foot-10 sophomore, was twice named the ICAC's
Defensive Player of the Week, led Rose-Hulman in interceptions
(five for 77 yards) and pass breakups (15), while ranking fourth
in tackles (68). He also averaged 19.7 yards on kickoff returns.

Hammack, a 5-foot-11 junior, was the Engineers' leading
rusher (920 yards) and scorer (50 points) this past season. He
was the fourth ranked rusher in the ICAC (103.2 yards per game).

Gappa, a 6-foot-2 sophomore, led the team with 27 receptions
for 602 yards -- a 22.3-yard average per catch. He scored seven
touchdowns. Gappa, a two-year starter, set a Rose-Hulman record
by catching seven passes for 192 yards at Hanover College.

Earning honorable mention honors were offensive linemen Greg
Hubbard, Greg Meyne and Greg Rosinski, along with defensive end
Mike Seals.

Rose-Hulman had a 3-7 record this past season.

-30-
Hubbard, Holthaus Named To District Academic Team

TERRE HAUTE, Ind. -- For the second straight year, Rose-Hulman Institute of Technology football players Greg Hubbard and Todd Holthaus have been named to the District 5 College Division All-Academic Football Team. The squad, chosen by a panel of sports information directors, includes NCAA Division II, Division III and NAIA players from Indiana, Illinois, Wisconsin and two Canadian provinces.

Academic honors are nothing new for Hubbard and Holthaus. Both were Academic All-Americans last year, with Hubbard being one of 24 athletes earning first-team honors.

Hubbard, a senior offensive guard from Kokomo, maintains a perfect 4.0 grade point average in mechanical engineering. He started all 10 games this past season, was twice named the Engineers' Offensive Player of the Week and had 22 career starts.

Holthaus, a senior place-kicker/punter from Pana, Ill., made two field goals and five extra-point kicks, while ranking among the nation's best punters (36.9-yard average on 47 punts) this past season. He maintains a 3.7 GPA (out of 4.0) in electrical engineering.
Rose-Hulman Wrestling Continues Growth,
Hopes To Compete With State's Best

TERRE HAUTE, Ind. -- Rose-Hulman Institute of Technology wrestling Coach Mark Buti knows the Engineers will put a competitive team on the mat this winter.

"Just look around the room," says Buti to a visitor, pointing toward the team's practice mats during a recent practice.

Yes, every inch was being used by wrestlers anxiously anticipating the upcoming season. In fact, the team had 18 wrestlers on the roster in late November -- quite a jump from when Buti took over the program four years ago.

"I used to come to practice and there would be Matt Morin (Rose-Hulman's three-time Indiana Collegiate Athletic Conference champion) and two or three other wrestlers. We couldn't have a dual meet because we'd forfeit five or six weight classes. Now, I'm proud to say, we've got some numbers and shouldn't have to forfeit a weight class in a meet," says Buti, smiling at the prospects for the season.

And, finally, the Engineers' roster isn't filled with inexperienced wrestlers. There's talent -- lots of it.

Take, for instance, junior Jim Labbe, last year's most valu-
able wrestler. The Crawfordsville native (North Montgomery High School graduate) had a 23-11 record at 134 pounds last year. He's moving up to 142 pounds this winter.

Then, there's Jim's twin brother, Joe Labbe, who had a 15-10 record at 126 pounds and finished fourth in last year's NCAA Division III regional. He is also moving up a weight class, filling Jim's shoes at 134 pounds.

"I have no doubt that Jim and Joe will make a successful jump to the bigger weight classes. They have worked hard during the off-season to get themselves physically and mentally ready for this challenge," Buti said.

Other talented wrestlers in the Engineers' lineup include freshman Stuart Quay, runner-up in last year's Maryland state championships, at 190 pounds; Jeff Johnson of Bluffton (Norwell High School), the team's lone senior, at 177; freshman John Goodhue, from Iowa, at 158 or 167; sophomore Eric Teitsma, from Elkhart (Concord High School), at 150 or 158; and sophomore Pat Pistelli, from Plymouth (Plymouth High School), at 142 or 150.

Also returning are Brett Jones, a sophomore from Danville (Avon High School), at 142; and Chris Koehler of Cassville, Wis., a junior, at 190.

"Our younger wrestlers took their share of lumps last year. It was quite a learning experience for them. They've come back in better shape and seem to be ready for this season," Buti said.

Freshman Sanjeev Patel will be Rose-Hulman's first 118-pound wrestler in several years. Meanwhile, Forrest Hayes, a freshman (more)
from Michigan, will fill the heavyweight class — once he trims down from the 290 pounds he carried throughout the football season.

Other newcomers include Jay Bernheisel of Chagrin Falls, Ohio; Justin Coakley of Xenia, Ohio; Ben Crawford of Kenner, La.; Wes Hoffman of Aitkin, Minn.; Andy Horton of Robinson, Ill.; and Dion Walz of Ferdinand (Forest Park High School).

Rose-Hulman Wrestling Schedule

Dec. 3-4 -- at Little State Tournament, Wabash
Dec. 9 -- WABASH & MILLIKIN, 6:30 p.m.
Jan. 7-8 -- at Midwest Invitational, Indianapolis
Jan. 11 -- at Wabash College
Jan. 21-22 -- at Manchester Invitational
Jan. 28 -- MONON BELL CLASSIC, 6:30 p.m.
Jan. 29 -- at Monon Bell Classic, Wabash
Feb. 4-5 -- at Wheaton Invitational
Feb. 9 -- at Indiana Univ. Wrestling Club
Feb. 12 -- at Greyhound Classic, Indianapolis
Feb. 19 -- at ICAC Championships, Wabash
Feb. 25-26 -- at NCAA Regional, Wabash
Prospective Lineups

Rose-Hulman vs. Albion College
9 p.m., Friday, Dec. 3
Shook Fieldhouse, Terre Haute

For The Engineers (2-4)
4. Benj Glass, 6-4, Fr., 1.4 ppg
4. Mike Lawrence, 6-4, Sr., 6.8 ppg
6. Kiley Gwaltney, 6-4, So., 15.7 ppg
3. Ryan Steinhart, 6-4, Sr., 12.2 ppg
4. Chris Wheatley, 6-8, Jr., 6.5 ppg
Coach: Bill Perkins (3rd year)

For The Britons (3-1)
4. Marcus Wourman, 5-10, Sr., 10.3 ppg
3. Ben Bancroft, 6-4, Jr., 8.3 ppg
3. Troy Allen, 6-6, So., 9.3 ppg
3. Chuck Pinter, 6-4, So., 14.8 ppg
3. Phil Crum, 6-5, Sr., 9.8 ppg
Coach: Mike Turner (20th year)

Radio: WJSH-AM/FM, 8:45 p.m.

UMass-Dartmouth vs. Colorado College
6:30 p.m., Friday, Dec. 3

For The Corsairs (1-0)
1. Paul Brewer, 6-0, So., 4.0 ppg
1. Lee Aaron, 6-5, Jr., 23.0 ppg
1. Stefan Pagios, 5-9, Jr., 27.0 ppg
1. Steve Motta, 6-4, So., 8.0 ppg
1. Shawn Bassett, 6-4, Jr., 10.0 ppg
Coach: Brian Baptiste (10th year)

For The Tigers (3-1)
1. Jay Longino, 6-0, Jr., 29.2 ppg
1. Montell Taylor, 5-10, Sr., 4.0 ppg
1. Corey Peck, 6-3, Sr., 11.3 ppg
1. Kevin Keilbach, 6-7, So., 6.5 ppg
1. Kirk Robbins, 6-5, Sr., 11.5 ppg
Coach: Steve Proefrock (1st year)

Saturday's Schedule
Consolation Game, 2 p.m.
Championship Game, 4:30 p.m.

Invitational History
1993
Rose-Hulman 54, Upper Iowa 50
Rose-Hulman 71, Marian 63
Rose-Hulman 105, Parks 22
Rose-Hulman 74, Carthage 64
1999
Rose-Hulman 91, Principia 55
Rose-Hulman 80, Webster 64
Rose-Hulman 78, Thomas More 62
Rose-Hulman 64, Eckerd 55
1989
Rose-Hulman 86, MacMurray 52
Rose-Hulman 70, Brescia 52

Other Athletic Schedules

Friday, December 3
WR: at Little State, Wabash
SW: at DePauw Invitational

Saturday, December 4
WR: at Little State, Wabash
SW: at DePauw Invitational

Thursday, December 9
WR: Wabash & Millikin, 6:30 p.m.

Engineers Attract Top-Notch Field
For Annual Invitational Tournament

The Rose-Hulman Institute of Technology basketball team had a difficult time deciding which of three opponents it wanted to face in Friday's first round of the 17th annual Rose-Hulman Invitational in Shook Fieldhouse. Would it be Albion College (Mich.), which had an 18-8 record last year? How about Colorado College, which was 17-8 a year ago? And, you wanted to avoid the University of Massachussets-Dartmouth, a semifinalist from last year's NCAA Division III national tournament?

Yes, Coach Bill Perkins isn't bringing in any ringers for this year's tournament! However, Rose-Hulman (2-4) is just glad to be playing in Shook Fieldhouse after starting the season with six straight road games. The team is coming off an 80-60 victory at Blackburn College (Ill.) on Tuesday.

How Coach Bill Perkins Sees Things

On Team's Play So Far This Season: "It has taken some time, but we're starting to come together. The younger players are becoming adjusted to their roles and collegiate championships. We've learned a lot about ourselves the past three weeks. We know our strengths and weaknesses. Now, we've learned on that knowledge and plan on winning today." On Upcoming Rose-Hulman Invitational: "We may have attracted the most talented field of any Division III tournament in the country. There's possibly the best team from the east coast (UMass-Dartmouth), west coast (Colorado College) and Great Lakes region (Albion) coming together for two days of exciting basketball. When it's all over, the champion will know they've achieved something special."

Tournament History: Engineers Have Won Nine Of 16 Titles

Rose-Hulman has dominated its own invitational in recent years, winning the past six championships. The team takes a 12-game tournament winning streak into Friday's game. The last loss came against Eckerd College, 76-72, in the 1985 title game. Rose-Hulman beat Upper Iowa, 54-50, and Marian College, 71-63, to win last year's title... Rose-Hulman Coach Bill Perkins was a member of the Eckerd College team that lost to the Engineers (96-76) in the first-ever game of the Rose-Hulman Invitational in 1977.

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Wrestlers Open At Little State Meet, Host Triangular Thursday

The wrestling team opens the 1993-94 season at the Little State Championships on Friday and Saturday at Wabash College. Then, the squad hosts Wabash and Millikin University in a triangular meet Thursday night in Shook Fieldhouse (6:30 p.m.) Competing for top individual honors this weekend should be Jim Labbe (Jr., Crawfordsville, North Montgomery H.S.), last year's most valuable wrestler, at 142 pounds; and Joe Labbe (Jr., Crawfordsville, North Montgomery H.S.), at 134 pounds. (Latest Individual/Team Basketball Statistics On Back Of This Page)
### Rose-Hulman Institute of Technology Statistics

(Won 2, Lost 4; ICAC: 0-0; Home: 0-0; Away: 1-4; Neutral: 1-0)

#### Player Highs

- Points: Gwaltney, 26 (Knox)
- FGs: Gwaltney, 11 (Knox)
- FG Att: Gwaltney, 17 (twice)
- FG%: Bear, .657 (Centre)
- 3FGs: Gwaltney, 4 (Knox)
- 3FG Att: Two players, 6
- 3FG%: Three players, 1.000
- FTs: Steinhart, 7 (Ripon)
- FT Att: Two players, 11
- FT%: Three players, 1.000
- Reb: Steinhardt, 15 (Ripon)
- Ast: Three players, 4
- Steal: Three players, 4
- Blocks: Two players, 2
- PF: Kaser, 7 (Monmouth)

#### Team Highs

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<td>19 (Three games)</td>
<td>29 (Ripon)</td>
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#### Opponents

**Score by Periods:**

- **1st:** 203
- **2nd:** 252
- **OT1:** 0
- **OT2:** 0
- **OT3:** 0
- **OT4:** 0
- **Total:** 455

**Opponents:** 6

**Rose-Hulman Inst. of Tech:** 209

**3-Points:** 233

**Fouls:** 0

**Total:** 442

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**Team Rebounds:** 14

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**Points:** 94 (Knox)

**FGs:** 23 (MacMurray)

**3FGs:** 0 (MacMurray)

**FTs:** 6 (Centre)

**Reb:** 36 (Centre)

**Ast:** 2 (Ripon)

**Steal:** 1 (Centre)

**Blocks:** 0 (Knox)

**TO:** 8 (Knox)

**Fouls:** 14 (Centre)
Want even more information about the Space Shuttle Endeavour's current mission to repair the Hubble Telescope? Rose-Hulman Institute of Technology is offering local residents the opportunity to watch continuous television coverage via satellite from NASA of Endeavour's 11-day mission.

The NASA TV coverage can be viewed in the student lounge located in Moench Hall on the Rose-Hulman campus. Visitors should enter Moench Hall using the east entrance near the parking lot and water tower.

The coverage will be available every day from 8 a.m. until 8 p.m.
Rose-Hulman Students Offer Chemistry Show for Elementary, Middle-School Students

Terre Haute, Ind.--Rose-Hulman Institute of Technology students are coming to the aid of elementary and middle-school teachers who want to give their students a chance to see and take part in scientific demonstrations.

Area elementary and middle-school teachers can schedule a special demonstration program called "Chemistry on Wheels" to help their students learn more about chemistry by contacting the Department of Chemistry at Rose-Hulman.

Don Jenkins, a senior chemical engineering major, organizes teams of Rose-Hulman students who are available to visit area schools to conduct demonstrations that show students how chemistry is a part of their everyday life.

Howard McLean, associate professor of chemistry, works with the students who presented the demonstrations at last month's National Chemistry Week events locally.

"Our students present a demonstration program that can be adopted to any elementary or middle-school grade level," he said. "The program encourages hands-on involvement by the younger students," McLean says.

(more)
He said the school visitation program grew out of his students' desire to increase younger students' interest in the sciences and in chemistry and chemical engineering in particular. The students are members of Alpha Chi Sigma, national professional chemistry and chemical engineering fraternity.

Teachers interested in scheduling the student demonstration teams should contact McLean by calling 877-8378.
Rose-Hulman Students Collecting Clothes For Local Children

TERRE HAUTE, Ind. -- For the fourth straight year, members of Rose-Hulman Institute of Technology's Alpha Phi Omega service fraternity encourage Wabash Valley residents to get into the holiday spirit by donating used clothing to this year's Clothes For Kids drive.

The students will collect clothing from 10 a.m. to 7 p.m. on Saturday and 11 a.m. to 5 p.m. on Sunday at Toys-R-Us, Honey Creek Parkway, or Kroger North, 2140 Fort Harrison Road. The drive collected approximately 200 coats and 900 other items last year.

"There's definitely a need for used clothes, especially with winter approaching," said John Emley, APO's vice president.

Coats collected will be given to the Terre Haute South Rotary club for distribution in area schools. Women's clothing will be provided to the Vigo County Victims Association for distribution to rape victims, and other items will be given to the Bethany House.

Alpha Phi Omega has approximately 50 members. Other recent service projects have included hosting a holiday party for local Big Brothers/Big Sisters and installing a telephone system for Ryves Hall Youth Center.
LOCALIZING HUBBLE SPACE TELESCOPE REPAIR PROJECT

Looking for a local resource person to explain the Hubble Telescope's mirror system, why it hasn't work properly and how the astronauts are trying to fix it? Richard Ditteon, associate professor of physics and applied optics at Rose-Hulman, discusses the Hubble Space Telescope and its problems in a class he's teaching titled, "Computer-Aided Optical Systems."

Ditteon can provide a general explanation of the mirrors and how repairs are made. Ditteon has used the Hubble Space Telescope as a real-world homework problem he assigns to students. He can be contacted by calling 877-8247 (office) or 299-5182 (home).

ROSE-HULMAN STAFFERS HELP SALVATION ARMY

On Thursday and Friday, staff members at Rose-Hulman will help wrap Christmas gifts donated to the Salvation Army. The Rose-Hulman volunteers will work during their lunch hour from noon until 1 p.m. in the admissions office in Moench Hall.

Today's (Wednesday) efforts were so successful, the Salvation Army promised to increase the number of donated packages for Santa's helpers to wrap Thursday and Friday.

Contact: Dave Piker, 877-8441
Engineers Look To Get Above .500, Mark, Travel To Illinois Wesleyan

Coming off two impressive victories in its own tournament, the Rose-Hulman Institute of Technology basketball team (4-4) hopes to get above the .500 mark for the first time this season Saturday afternoon at Illinois Wesleyan University in Bloomington, Ill. However, Coach Bill Perkins knows it won’t be an easy task. The Titans (2-3) are historically one of the Midwest’s top Division III teams, qualifying for the NCAA postseason tournament in three of the past four seasons.

However, the Engineers showed last weekend that they are ready for the challenge, beating Albion College (which had been 3-1), 74-57, and Colorado College (4-1), 64-54, to win the Rose-Hulman Invitational for the seventh straight year. In the process, Rose-Hulman outrebounded the two opponents by a 90-79 margin, allowed an average of 55.5 points and forced both opponents to make just 31 percent of their field goals.

How Coach Bill Perkins Sees Things

On Team’s Play So Far This Season: “We keep taking small steps in the right direction. Last week’s victories (3-0) gave the players some confidence in themselves. They can start to see the pieces of the puzzle starting to form a solid foundation. However, I’m far from satisfied with our overall play, and the players shouldn’t either.”

On Saturday’s Game At Illinois Wesleyan: “Once again, we’re going to have our hands full on the road. However, this won’t be any tougher than playing at Ripon (Wisc.), Centre (Ky.) or Blackburn (III).... This week has given us the first opportunity to work on fine-tuning our game and adding things into the mix. We haven’t been preoccupied with preparing for an opponent. Instead, we have been looking at ways to improve ourselves.”

Taking A Close Look At The Engineers: Team Has 3-Game Win Streak

The team takes a three-game winning streak into Saturday’s game... Team is 1-2 in Illinois this season, losing at Knox College (96-94) and Monmouth College (84-65) before defeating Blackburn (80-60) in the last venture across the state line... Guard Kiley Gwaltney (So., Fairfield, Ill., Fairfield H.S.) was named the most valuable player of the Rose-Hulman Invitational after averaging 17 points in the two games... Guard Ben Glass (Fr., Kokomo, Northwestern H.S.) scored a career-high 19 points in last Saturday’s championship game and was named to the all-tournament team... Another Illinois native, 6-foot-9 reserve center Kent Murphy (Fr., Shelbyville, Ill., Shelbyville H.S.) was another all-tournament selection after averaging nine rebounds -- his seasonal average -- in the two games. He also has 24 offensive rebounds in the first eight games... Reserve forward Troy Hal (So., Troy, Ohio, Troy H.S.) has yet to make a turnover this season, despite averaging nearly nine minutes a game... Colorado College was the first opponent to out-rebound the Engineers (46-44) this season... The team has already collected 132 offensive rebounds this year... The junior varsity beat a team of Eli Lilly employees, 90-61, Wednesday night. The Lilly team included Brett Petty (Class of ‘92), the Engineers’ No. 3 all-time leading scorer; and Lyman Bussard (‘85), who ranks among the college’s all-time assist leaders.

Scouting Illinois Wesleyan: The Titans Have Rich Basketball Tradition

Saturday’s game will be the team’s fourth in the past eight days, playing the University of Chicago last Saturday (a 90-56 victory), Olivet Nazarene on Tuesday (a 77-75 loss) and Albion College on Thursday... Four different players led the team in scoring in the first five games, while center John Liplis has been the top rebounder in four games... The Titans have lost just four of their last 27 games in Young Fieldhouse, but have already suffered one home-court loss this year... With 1,123 wins, Illinois Wesleyan is the second-winningest team in NCAA Division III basketball... Coach Dennie Bridges has 489 career wins -- sixth on the all-time list of current Division III coaches... Former NBA All-Star Jack Sikma is the Titans all-time leading scorer (2,272 points from 1973-77)... The team has already lost to ICAC-member DePauw (70-64 in the season opener) and is scheduled to play Hanover and Anderson of the ICAAC later this season.

Four Wrestlers Place At Little State, Host Triangular Meet Thursday

The wrestling team will host Wabash College and Millikin University in a triangular meet tonight (Thursday) in Shock Fieldhouse. The Engineers will face Wabash at 6:30 p.m. and compete against Millikin at 9 p.m. Last weekend, four wrestlers placed among the top seven wrestlers in their respective weight classes at the Little State Tournament. Finishing sixth were Joe Labbe (Fr., Crawfordsville, North Montgomery H.S.), with a 2-3 record at 134 pounds; Jeff Johnson (Sr., Ossian, Norwell H.S.), at 177 (2-3); and Andy Horton (Fr., Robinson, Ill., Robinson H.S.), at 158 (3-3). Stuart Quay (Fr., Frederick, Md., Gov. Johnson H.S.), was seventh at 190 pounds (2-2).

(Latest Individual/Team Basketball Statistics On Back Of This Page)
### 1993-94 Rose-Hulman Institute of Technology Statistics

(Won 4, Lost 4; ICAC: 0-0; Home: 2-0; Away: 1-4; Neutral: 1-0)

#### TOTAL POINTS

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#### REBOUNDS

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WEEKEND STORY IDEA

Rose-Hulman Students Collecting Clothes For Local Children

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The students will collect clothing from 10 a.m. to 7 p.m. on Saturday and 11 a.m. to 5 p.m. on Sunday at Toys-R-Us, Honey Creek Parkway, or Kroger North, 2140 Fort Harrison Road. This marks the fourth straight year for the clothing drive. Last year's campaign collected approximately 200 coats and 900 other items.

Coats collected will be given to the Terre Haute South Rotary club for distribution in area schools. Women's clothing will be provided to the Vigo County Victims Association for distribution to rape victims, and other items will be given to the Bethany House.

Alpha Phi Omega has approximately 50 members.

-30-
Sports Information

Prospective Lineups
Rose-Hulman vs. Earlham
1:30 p.m., Wednesday, Dec. 15
Fieldhouse Fieldhouse, Richmond, Indiana

For the Engineers (4-5)
- Ben Glass, 6-4, Fr., 6.5 ppg
- Mike Lawrence, 6-4, Sr., 5.8 ppg
- Kiley Gwaltney, 6-4, So., 16.9 ppg
- Ryan Steinhart, 6-4, Sr., 11.3 ppg
- Chris Wheatley, 6-8, Jr., 6.7 ppg

Bill: Bill Perkins (3rd year)

For the Quakers (0-7)
- Matt Hall, 5-10, Fr., 13.1 ppg
- Thomas Williamson, 6-1, So., 7.4 ppg
- Kenneth Williams, 6-10, Fr., 12.0 ppg
- Adam Reeer, 6-1, Fr., 9.7 ppg
- Josh Housh, 6-2, Fr., 15.4 ppg
- Tony Gary (2nd year)

Midwest Regional Poll

For Latest Statistics/Scores, Call Dale Midewitz, 812-877-8418

Engineers Hope To Get Early Start
On Holidays With Win At Earlham

Rose-Hulman Institute of Technology basketball team may not be in a holiday mood Wednesday when it plays its last game before Christmas at Earlham College in Richmond. The Engineers (4-5) aren't feeling jolly after last Saturday's 84-80 loss at Illinois Wesleyan University -- a game in which they had a chance to win after trailing by 19 points early in the second half.

Bill Perkins' team would also like to get back to the .500 mark before the holiday and take advantage of the remaining three games of 1993 to build momentum for the upcoming Indiana Collegiate Athletic Conference season -- starting Jan. 5 against Wabash College in Shoook Fieldhouse.

How Coach Bill Perkins Sees Things
On Team's Play This Season: "We've got to refocus and concentrate on playing well for 40 minutes, not one half. One well-played second half (at Illinois Wesleyan) wasn't good enough to win last Saturday and it won't be throughout the rest of the season. If we can sustain that type of intensity and desire for 40 minutes, we're going to do well in the upcoming ICAC season."

On Wednesday's Game At Earlham: "We have to be more concerned with how we're playing and forget about their (0-7) record. We're playing on the road and anything could happen. The big question is 'Which team is going to show up on Saturday?' Is it the Rose-Hulman team that played in the second half at Illinois Wesleyan? Or, is it the team that allowed Illinois Wesleyan to have a 17-point lead at halftime?"

Taking A Close Look At The Engineers: Glass Keeps Getting Better
After a slow start, the team's shooting continues to improve. The squad has made 50 percent of its 3-point field goals (13 of 26) in its last two games. Eleven players are averaging over 10 minutes of playing time in the first nine games. Guard Benj Glass (Fr., Kokomo, Northwestern S.) has averaged 20.5 points in the last two games, including a career-high 22 points last Saturday. He also made six of his seven 3-pointers at Illinois Wesleyan. Guard Kiley Gwaltney (So., Fairfield, Ill., Fairfield H.S.) has scored 20 or more points in two of the past three games -- and four contests this season.

Forward Ryan Steinhart (Sr., Lafayette, Jefferson H.S.) has collected a third of his rebounds on the offensive end of the floor (25 of 75). . . Reserve forward Troy Hall (Fr., Lyons, White River Valley H.S.) scored a career-high 10 points and had four rebounds at Illinois Wesleyan. He still hasn't made a turnover this season, despite averaging 10 minutes a game. . . Reserve forward Jason Keal (So., Troy, Ohio, Troy H.S.) and backup guard Jason Bork (Jr., Bay City, Mich., All Saints Central H.S.) have scored a point in each of the nine games this season. . . The team has played seven of its first nine games on the road. . . Two of Rose-Hulman's opponents are ranked among the top three teams in the first Midwest regional rankings. Manchester College of the ICAC is No. 2, while Ripon College (Wis.) is No. 3. Ripon defeated the Engineers 92-75 on Nov. 20.

Scouting Earlham's Quakers: Young Team Shows Improvement
Coach Tony Gary's young team (three sophomores and two freshmen in the starting lineup) experienced some growing pains early, losing its first four games by an average of 40 points a game -- including a 110-76 setback at Wabash College on Nov. 27. However, the scores have been much closer lately, with the Quakers losing at Allegheny College (Pa.), 85-75, last Saturday. . . The team is allowing 97.1 points per game, with three opponents reaching the 100-point mark. . . Four different players have been the team's leading scorer in games, with freshman guard Rich Housh having 26 points and nine rebounds against Allegheny. He also tallied 22 points at Thomas More on Oct. 23 (a 106-72 loss). . . Located near the Ohio border, Earlham has seven Ohio-bred high school players on the 12-player varsity roster -- and just four from Indiana. . . Gary has a 4-28 career record in two seasons at Earlham. . . Even though Rose-Hulman has won four of the last five games, Earlham still leads the overall series record by a 37-34 loss to Earlham. Three other matches were decided by less than two points -- all resulting in wins by the visiting Little Giants. The Engineers came back to win six matches in defeating Millikin, 28-18. Jeff Johnson (Sr., Ossian, Norwell H.S.) at 177 pounds and Jake Flagg (Fr., Indianapolis, Franklin Central H.S.) at 150 both recorded pins, while Andy Horton (Fr., Robinson, Ill., Robinson H.S.) had a 15-5 decision at 158.

(See Latest Individual/Team Basketball Statistics On Back Of This Page)
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### Rose-Hulman Inst. of Technology Statistics

(Won 4, Lost 5; ICAC: 0-0; Home: 2-0; Away: 1-5; Neutral: 1-0)

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Rose-Hulman Inst. of Tech. Statistics (Won 6, Lost 4; ICAC: 0-0; Home: 2-0; Away: 1-5; Neutral: 1-0)
SPORTS INFORMATION

CONTACT: Dale Long

FOR RELEASE: Upon Receipt
December 15, 1993

Greg Hubbard Is Only Indiana Player Named To GTE Academic All-American Football Team

TERRE HAUTE, Ind. -- Rose-Hulman Institute of Technology offensive guard Greg Hubbard was one of 40 student-athletes named to the GTE College Division Academic All-American Football Team.

Academic honors are nothing new for Hubbard, a senior from Kokomo (Northwestern High School) who maintains a perfect 4.0 grade point average in mechanical engineering. In fact, this is the second straight year he has been a first-team choice on the Academic All-American team.

Hubbard was the only Indiana small-college player chosen to this year's College Division academic team. He also had the highest grade point average of any player on the list.

On the football field, Hubbard earned honorable mention all-Indiana Collegiate Athletic Conference honors this past fall after starting all 10 games at left guard. He was co-captain of this year's team and a four-year varsity letterman.

Hubbard plans to attend graduate school after graduation.

Rose-Hulman has had at least one football Academic All-American in seven of the past eight years and produced 31 Academic All-Americans in all sports since 1978.

-30-
Montrose's Matt Flessner Helps Youths Solve Math, Science Problems On 'Homework Hotline'

TERRE HAUTE, Ind. -- Matt Flessner of Montrose, Ill., never knows what to expect when he answers a telephone call on Rose-Hulman Institute of Technology's unique Homework Hotline.

For instance, one evening a young boy was puzzled on how to identify a number using a list of clues.

"I thought it was an unusual question for a junior high school student," Flessner remembered. "Then I asked if he could divide. He told me, "No... I'm only in the second grade!' He was fun to work with."

Such are the challenges that tutors face on the Homework Hotline, which assists students living in west central Indiana and eastern Illinois from 7-10 p.m. Sundays through Thursdays. They are careful not to provide answers. Instead, Flessner serves as a resource to explain concepts involved in mathematics and science.

"Kids are usually interested in learning, but sometimes they've been working on a problem so long they're sick of it," said Flessner, the son of David and Judy Flessner of rural Montrose. "Occasionally I get a call from a student who just wants me to give them the answer. If I feel they haven't worked (more)
on the problem on their own, I tell them to go back and try again. Then, if they need more help, they can call back."

And, not all of the questions come from students. Sometimes, parents are on the other end of the telephone. They want to make sure that they're instructing their student correctly, Flessner explained, or they may need assistance on a mathematical concept they haven't used since high school.

Communication between the student and tutor is critical.

"It's hard to explain something to a student when you can't look them in the eye," said Flessner, a junior mechanical engineering major. "Geometry is the hardest. I have to ask them what the picture looks like, and I'm never sure if they're giving me the right description."

Started three years ago as a joint project between Rose-Hulman and the Vigo County School Corp., the Homework Hotline has grown in popularity each year. Tutors answered 355 calls this past fall, compared to 476 calls during the 1992-93 academic year.

"The (math and science) expertise of our students fits well with questions students couldn't answer by themselves or that the parents have difficulty with," explained Homework Hotline Supervisor Susan Smith, director of Rose-Hulman's Learning Center.

"The key to the program is that we have textbooks from all the schools. Sometimes a student may simply be misinterpreting the question. By looking at the problem together, in the textbook, the tutor knows what questions to ask."

Students, teachers and administrators of the Vigo County School Corp. are appreciative of the Homework Hotline -- and (more)
Flessner's efforts on the other end of the telephone line.

"The Homework Hotline not only helps students, but it is a big benefit to parents, too," said Bill Kirby, VCSC's assistant superintendent. "The fact that teachers are encouraging their students to use the hotline is an indication of how valuable it is in the classroom."

Helping young students is the primary reason Flessner continues to work on the Homework Hotline.

"It feels good to help people. We're providing a service. Sometimes we can't always help, and that's when I feel the worst," said Flessner, a 1991 graduate of Dieterich High School.

With 1,300 academically gifted students, Rose-Hulman has been recognized as one of the nation's top private colleges specializing in engineering and science education.

-30-

- Written by Lisa Young
PHOTOGRAPH CUTLINE

ANSWERING THE 'HOTLINE': Matt Flessner of Montrose, Ill., answers a question while serving as a tutor on Rose-Hulman Institute of Technology's Homework Hotline. Two times each week, Flessner helps junior high and high school students understand the complexities of mathematics and science.

-30-
Portage's Joe Coons Helps Youths Solve Math, Science Problems On 'Homework Hotline'

TERRE HAUTE, Ind. -- After hours of tackling challenging engineering courses at Rose-Hulman Institute of Technology, the last thing you would expect Joe Coons to do is help someone solve algebra, geometry or chemistry problems.

But that's what the Portage native does as a tutor in Rose-Hulman's unique Homework Hotline program, where junior high and high-school students in west-central Indiana can find help for their mathematics and science problems -- simply by placing a telephone call.

Homework Hotline tutors, who answer calls from 7-10 p.m. Sundays through Thursdays, don't provide any answers. That would be too easy. Instead, Coons serves as a resource to explain the concepts involved in mathematics and science.

"I ask questions and help them work through the problem on their own," said Coons, son of Joseph Coons and Linda Coons. "It feels good to help them understand."

A majority of the calls come from students who want to make sure they are answering the questions correctly, Coons said.

"I once received a call from a girl who had been out of (more)
school for a week," said Coons, a junior electrical engineering major at Rose-Hulman. "I helped her with the problems and then about an hour later she called back just to be sure she was doing everything right."

Starting three years ago as a joint project between Rose-Hulman and the Vigo County School Corp., the Homework Hotline has grown in popularity each year. Tutors answered 355 calls this past fall, compared to 476 calls during the 1992-93 academic year.

"The (math and science) expertise of our students fits well with questions students can't answer by themselves or that the parents have difficulty with," explained Hotline Supervisor Susan Smith, director of Rose-Hulman's Learning Center. "The key is that we have textbooks from the schools. A student may simply be misinterpreting a question. By looking at the problem together, in the textbook, the tutor knows what questions to ask."

Students, teachers and administrators of the Vigo County School Corp. are appreciative of The Homework Hotline -- and Coons' efforts on the other end of the telephone line.

"The Homework Hotline not only helps students, but it is a big benefit to parents, too," said Bill Kirby, VCSC's assistant superintendent. "The fact that teachers are encouraging students to use the hotline is an indication of how valuable it is in class."

In his second year as a Homework Hotline tutor, Coons enjoys helping students who couldn't get help elsewhere at night.

"It's important that the kids have someone to call if their parents can't help them," Coons said.

-30-

Written by Lisa Young
ANSWERING THE 'HOTLINE': Joe Coons of Portage answers a question while serving as a tutor on Rose-Hulman Institute of Technology's Homework Hotline. Two times each week, Coons helps junior high and high school students understand the complexities of mathematics and science.

-30-
Rose-Hulman & ISU Expand Student Transfer Agreement to Include Women

Terre Haute, Ind.--Rose-Hulman Institute of Technology and Indiana State University have expanded a student transfer program to include women high-school graduates who want to enroll at Rose-Hulman in the fall of 1995 when the college becomes coeducational.

Jim Goecker, associate director of admissions and transfer coordinator at Rose-Hulman, said the plan allows academically talented women who graduate from high-school in 1994 to enroll in a pre-engineering curriculum at ISU. The ISU students could also enroll in a class per academic quarter at Rose-Hulman.

If approved for admission to Rose-Hulman, the women could transfer as sophomores, when the college becomes coeducational.

Bill Tobin, assistant director of admissions at ISU, emphasized that women applying for the program will have to meet ISU and Rose-Hulman admissions standards and their applications will be reviewed by admissions counselors at both campuses.

The program is an expansion of a long-standing agreement between area colleges that allows students to transfer credits (more)
and take courses on campuses other than where they are enrolled as full-time students.

Goecker said women transfer students will have the opportunity to play an important leadership role in campus life during the first year of coeducation at Rose-Hulman.

"Our students, male and female, will benefit from having women students of upperclass academic standing on campus who can serve as mentors and role models," he explained.

Tobin said the expanded program is an example of continuing cooperation between local higher-education institutions.

"The two institutions have always worked together to meet the needs of transfer students. Expanding the program to include female students seemed an obvious way to benefit more students," he stated.

Women who are high-school seniors can apply for the program by contacting Tobin at ISU, 812-237-2509, or Goecker at Rose-Hulman, 812-877-8213.

-30-
**Markleville's Lige Hensley Helps Youths Solve Math, Science Problems On 'Homework Hotline'**

**TERRE HAUTE, Ind.** -- With a pencil, a pad of paper and an extensive library of textbooks, Lige Hensley has all the tools to be a tutor for Rose-Hulman Institute of Technology's unique Homework Hotline program.

And, on any night, it doesn't take long for Hensley to put his skills to the test. The hotline was used 355 times this fall by junior high and high-school students from throughout westcentral Indiana needing help with mathematics and science problems.

"I always ask, 'What have you got on your paper? What have you done so far?'' said Hensley, the son of Lige Hensley of Markleville. "Usually I do the problem on paper with them, so I know exactly which step they should do next."

Homework Hotline tutors answer calls from 7-10 p.m. Sundays through Thursdays, but they don't provide any answers. That would be too easy. Instead, Hensley serves as a resource to explain the concepts involved in mathematics and science.

Communication between the student and tutor is crucial.

"You have to say things they can only take one way. Otherwise they could get confused," Hensley explained.

(more)
And, not all questions come from students. Sometimes parents are on the other end of the telephone.

"Parents call when the kids are too young to know what they should ask," said Hensley, a sophomore majoring in computer engineering.

Started three years ago as a joint project between Rose-Hulman and the Vigo County School Corp., the Homework Hotline has grown in popularity each year. The program is well on its way to surpass last year's record of 476 calls.

"The (math and science) expertise of our students fits well with questions students couldn't answer by themselves or that the parents have difficulty with," explained Homework Hotline Supervisor Susan Smith, director of Rose-Hulman's Learning Center.

"The key to the program is that we have textbooks from all the schools. Sometimes a student may simply be misinterpreting the question. By looking at the problem together, in the textbook, the tutor knows what questions to ask."

Students, teachers and administrators of the Vigo County School Corp. are appreciative of The Homework Hotline -- and Hensley's efforts on the other end of the telephone line.

"The Homework Hotline not only helps students, but it is a big benefit to parents, too," said Bill Kirby, VCSC's assistant superintendent. "The fact that teachers are encouraging their students to use the hotline is an indication of how valuable it is in the classroom."

Even though he's paid for being a tutor, Hensley gets
satisfaction from helping youths better understand the complexities of mathematics and science. He also likes helping others.

"I like it when I get a call from a student who is actually excited about understanding the problems," Hensley said. "I enjoy helping them learn."

With 1,300 students, Rose-Hulman has been recognized as one of the nation's top private colleges specializing in engineering and science education.

-Written by Lisa Young
IN YOUR FACE -- Rose-Hulman Institute of Technology wrestler Joe Labbe (top) grabs the nose of Wabash College's Andy Price while trying to maintain control of the 134-pound match. Labbe won the battle, 16-7, but the Engineers lost the dual meet, 37-4, on December 9 in Terre Haute. Rose-Hulman defeated Millikin University in another match during the triangular meet.

-30-

- Photograph by Dale Long
Hammack, Seals and Williams Get Top Postseason Football Awards

All-conference players Anthony Hammack and Jerome Williams joined senior defensive end Mike Seals in receiving the top individual honors on this year's Rose-Hulman Institute of Technology football team.

"The final record may not indicate it (3-7), but I believe we had a successful season," said Rose-Hulman Coach Scott Duncan at the team's awards banquet. "We experienced a lot of growing pains, with a lot of young players getting considerable playing time this past fall. I can see that we've got a bright future ahead, starting with next year."

Here is a summary of the Engineers' postseason football awards:

Offensive Player Of The Year: Anthony Hammack (Jr., FB, Salem, Salem H.S.) led the team in rushing (920 yards), touchdowns (eight) and scoring (50 points). He earned all-Indiana Collegiate Athletic Conference honors after being the league's fourth-ranked rusher (103.2 yards per game).

Defensive Player Of The Year: Mike Seals (Sr., DE, Brookville, Franklin County H.S.) earned his honors for his consistent play during the season. He led the team in quarterback sacks (6 for 55 in losses), tied for first in fumble recoveries (two), and finished with 56 tackles.

Special Teams Player Of The Year: Jerome Williams (So., Kickoff Returns, Indianapolis, North Central H.S.) averaged 19.7 yards on kickoff returns to rank among the nation's best in NCAA Division III. He also was named the ICAC's Defensive Player of the Week twice as a cornerback and led the team in interceptions (five for 77 yards) and pass breakups (15).

Coaches' Award: Jerome Williams, an all-ICAC defensive back, shared the honor with Brandon Boone (Fr., C, Gotha, Fla., West Orange H.S.). Boone started six games for this past season and played the second half of one game with a badly sprained ankle. "We couldn't get him to leave the field. He was determined to remain in the game," Duncan said. "Despite being a freshman, Brandon was an emotional leader of our team."

Scout Team Players Of The Year: Billy Hammond (Fr., WR, Westport, South Decatur H.S.) and Matt Weis (Fr., DL, Brownstown, Seymour H.S.) were recognized by the coaching staff for their efforts to help prepare Rose-Hulman's first-string unit for upcoming opponents.

Williams, Hammack, And Gappa Selected To All-ICAC Grid Team

Cornerback Jerome Williams (So., Indianapolis, North Central H.S.), fullback Anthony Hammack (Jr., Salem, Salem H.S.) and wide receiver Eric Gappa (So., Knox, North Judson H.S.) were named to the Indiana Collegiate Athletic Conference football team by the league's coaches.

Williams was twice named the ICAC's Defensive Player of the Week, led Rose-Hulman in interceptions (five for 77 yards) and pass breakups (15), while ranking fourth in tackles (68). He also averaged 19.7 yards on kickoff returns.

Hammack was the Engineers' leading rusher (920 yards) and scorer (50 points) this past season.

Gappa led the team with 27 receptions for 602 yards -- a 22.3-yard average per catch -- and scored seven touchdowns. Gappa, a two-year starter, set a Rose-Hulman record by catching seven passes for 192 yards at Hanover College.

Earning honorable mention honors were offensive linemen Greg Hubbard (Sr., Kokomo, Northwestern H.S.), Greg Meune (Sr., Portage, Portage H.S.) and Greg Rosinski (So., Valparaiso, Valparaiso H.S.), along with defensive end Mike Seals (Sr., Knox, North Judson H.S.) and cornerback Jerome Williams (So., Indianapolis, North Central H.S.).

For the second straight year, offensive guard Greg Hubbard (Sr., Kokomo, Northwestern H.S.) was selected to the first team of the GTE/CoSIDA College Division Academic All-American Football Team. (No other small-college team in Indiana had an Academic All-American on GTE's first- or second-team list.)

Hubbard, co-captain of this year's team, has maintained a perfect 4.0 grade point average throughout his academic career at Rose-Hulman. He is majoring in mechanical engineering and plans to attend graduate school next year. In football, he started all 10 games this past fall and was named the Engineers' Offensive Player of the Week twice.

Rose-Hulman has had 12 College Division Academic All-Americans in football during the past seven years -- and had at least one Academic All-American in seven of the past eight years!

Placekicker Todd Holthaus (Sr., Pana, Ill., Pana H.S.) was chosen to the District 5 Academic Football Team. He maintains a 3.7 GPA in electrical engineering.
Football Players Earning Varsity Letters, Participation Certificates This Season:

Fourth Year Plaques:

greg Hubbard (Sr., OL, Kokomo, Northwestern H.S.): Started all 10 games at left guard and was named the Offensive Player of the Week twice (Evansville and DePauw games).

greg meyne (Sr., OL, Portage, Portage H.S.): A three-year starter at tackle, the Engineers called for running plays over the left side of the line (Meyne and Hubbard) when needing to gain a yard for a first down.

Third Year Diplomas:

Shawn Blaich (Jr., QB, Greensburg, South Decatur H.S.): Spent most of the season as a reserve, he came off the bench to complete four of nine passes for 75 yards and a touchdown (five yards against Anthony Hammack) at Anderson University.

Tony Dall (Sr., Morris, Batesville H.S.): Showed little effects of sitting out the 1992 season, being a key reserve on both offensive and defensive line. Served as a co-captain of the defense this past season.

Ira Ferguson (Jr., WR, Shreveport, La., C.E. Byrd H.S.): Was the team’s backup tailback at end of season.

Anthony Hammack (Jr., RB, Salem, Salem H.S.): Earned all-conference honors after rushing for 920 yards and seven touchdowns.

Todd Hollhaus (Sr., PK/P, Pana, Ill., Pana H.S.): Ranked among the top punters in NCAA Division III, averaging 40.2 yards per punt. He made two field goals and 12 PAT kicks -- concluding his career with 28 field goals, 36 PATs and 88 points.

Matt Leach (Sr., DT, Fort Wayne, Bishop Luers H.S.): Playing through an injury-marred season, he was one of the most feared defensive players in the ICAC. He had 17 quarterback sacks for 53 yards in losses during his career.

Shawn Patterson (Jr., LB, Terre Haute, South Vigo H.S.): Relished his starting role on the defense, he led the team in tackles twice (Franklin and Hanover) and ranked second on the team in tackles in ICAC games.

Mike Seals (Sr. DE, Brookville, Franklin County H.S.): Went out with a bang during his senior year, leading the team in tackles with 114 tackles (six for 55 yards) and fumble recoveries (two). He had a team-high 14 tackles against Wabash.

Second Year Certificates:

Brian Crissman (So., LB, Bloomfield, Mich., Schoolcraft H.S.): Had a career-high seven tackles against Manchester in first career start at middle linebacker.

Eric Gappa (So., WR, Knox, North Judson H.S.): Caught 23 of his 27 passes in ICAC games to earn all-conference honors.

Tony Locker (Jr., DB, Vandalia, Ohio, Butler H.S.): Started all 10 games at outside linebacker, collecting a career-high 92 tackles against DePauw. He was named the team’s Defensive Player of the Week twice (DePauw and Hanover).

Matthew Lowe (Jr., DT, New Palestine, New Palestine H.S.): Had a consistent year as a starting tackle, making a season-high 11 tackles at Anderson.

Paul Rogers (Jr., DB, Wapakoneta, Ohio, Wapakoneta H.S.): Started all 10 games in the defensive backfield, having two interceptions and four pass breakups. He also averaged 5.9 yards on 15 punt returns and now has 39 career punt return yards -- fourth on Rose-Hulman’s all-time list.

Paul Seals (Jr., RB, Brookville, Franklin County H.S.): Was the team’s backup tailback at end of season.

Mike Arvesen (Jr., DB, Plymouth, Plymouth H.S.): Started five games at safety and had two interceptions against Franklin.

Chris Blanton (So., DB, Gaston, Alexandria Monroe H.S.): Played in 10 games as reserve cornerback and on special teams.

Brandon Boone (Fr., OL, Gotha, Florida, West Orange H.S.): Was named the Offensive Player of the Week against Anderson and received the Coaches Award — quite an honor for a freshman! Started nine games at center. (See front page)

Anthony Chumney (Fr., DB, Indianapolis, Manuel H.S.): Had three starts, a season-high eight tackles at Evansville and touchdown-saving interception at the 1-yard line against Knox College.

Jason Gaber (Fr., OL, Fort Wayne, Bishop Dwenger H.S.): Started one game against Hanover on offensive line.

Jason Gabet (Fr., OL, Fort Wayne, Bishop Dwenger H.S.): Started one game at right guard on offensive line.

Lane Harkless (So., DL, Ossian, Norwell H.S.): Started one game at center before settling into reserve role on offensive line.

Anthony Chumney (Fr., DB, Indianapolis, Manuel H.S.): Had three starts, a season-high eight tackles at Evansville and touchdown-saving interception at the 1-yard line against Knox College.

First Year Letter Jackets:

Matt Allen (Fr., TE, Avon, Ohio, Avon H.S.): Brought an added dimension to the offensive attack because of his receiving and blocking skills. Caught TD passes against (Franklin and Hanover) and had a season-high six catches at Hanover.

Mike Arvesen (Jr., DB, Plymouth, Plymouth H.S.): Started five games at safety and had two interceptions against Franklin.

Chris Blanton (So., DB, Gaston, Alexandria Monroe H.S.): Played in 10 games as reserve cornerback and on special teams.

Billy Hammond (Fr., WR, Westport, South Decatur H.S.): Earned Top Scout Team honors (See front page) as a freshman.

Lane Harkless (So., OL, Ossian, Norwell H.S.): Started one game at center before settling into reserve role on offensive line.

Todd Harris (So., OB, Carlisle, Sullivan H.S.): Was Engineers’ starting quarterback for nine games, leading team to victory over Knox College, Greendale and DePauw. Threw eight touchdown passes in the final five games -- six to WR Eric Gappa.

Forrest Hayes (Fr., OL, Norway, Michigan, Norway H.S.): Played in seven games as reserve defensive lineman.

Randi Johnson (So., RB, Columbus, North H.S.): Caught two passes and was the first-string holder on placekicks.

Tony Kohl (Fr., DB, Lakes Wales, Florida, Lake Wales H.S.): Had an impressive freshman campaign, coming second in blocking yards per carry, third in tackles and fifth in receptions (100 for the season). Led team with 11 tackles (six solo) against Manchester in season finale.

Keith Martin (So., DL, Evansville, Mater Dei H.S.): Started the season opener at Washington Univ. then became key reserve.

Burt Meier (Fr., TE, Cedar Lake, Lowell H.S.): Played in all 10 games as backup tight end and special teams player.

Chad Mills (Fr., RB, Wabash, Wabash H.S.): Developed into a multipurpose threat, catching eight passes for 122 yards and rushing four times for 27 yards on end-reverse plays. Had season-long 19-yard run at Hanover on such a play.

Sean Phillips (So., PK, Elkhart, Memorial H.S.): Was successful on nine of 10 extra-point kicks this past season.

Neil Powell (Fr., OL, Carey, Ohio, Carey H.S.): Started the last two games at right guard (Anderson and Manchester).

Justin Seals (Fr., DL, Brookville, Franklin County H.S.): Was named the ICAC’s Co-Defensive Player of the Week after making 10 tackles, including one that prevented a touchdown, against DePauw. Led team in tackles for loss (8 for -28 yards).

Mark Stangl (So., OL, Emmetsburg, Iowa, Emmetsburg H.S.): Started one game at left tackle on offensive line.

Ryan Summers (Fr., OL, Crown Point, Lake Central H.S.): Started four games at right guard on offensive line.

Jason Tolle (Fr., DL, Sharpville, Tri-Central H.S.): Saw more playing time throughout the year, making tackles in six games.

A.J. Willkerson (Fr., RB, Indianapolis, Perry Meridian H.S.): Had impressive freshman season after being converted from a receiver to a starting tailback for last nine games. Was team’s Offensive Player of the Week twice and rushed for a season-high 156 yards on 25 carries against Greendale. Also had 100-yard efforts against DePauw (113) and Franklin (121).
### 1993 Football Statistics for Rose-Hulman Institute - All Games

#### Field Goals

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Rose-Hulman Creating National Electronic Service To Help Math Teachers Utilize Computers

Terre Haute, Ind.--Rose-Hulman Institute of Technology faculty are coming to the aid of high school and college educators who can't develop teaching materials fast enough to take full advantage of computers to teach advanced mathematics.

A national storehouse of new, computer-generated calculus problems is being developed and will be available to teachers across the nation via Internet, says Brian Winkel, professor of mathematics at Rose-Hulman and coordinator of the project.

The repository will be ready for use in 18 months. It will be developed by a team of Rose-Hulman faculty and students, and Indiana high-school teachers. The problems will be designed for use with Mathematica, a popular software used to teach calculus and other advanced mathematics.

A $100,000 National Science Foundation grant is funding the development, evaluation and distribution of the new service. A $26,400 grant from the Arvin Foundation of Columbus is making it possible for six Indiana high-school teachers to work on the project.
"Computer technology is rapidly changing how calculus and other types of mathematics are being taught," explained Winkel.

"Technology has made obsolete the problems contained in many traditional textbooks.

"New, more complex and realistic problems are needed if teachers are to fully utilize the advantages of computer technology," Winkel said.

Computers free students from time-consuming rote calculations, Winkel explained. He said computers enable teachers to challenge students to do more than old-fashioned, one-step problems.

"Students have more time to study the why and how of math concepts," said Winkel, who has conducted workshops to help high-school teachers use Mathematica.

Winkel says the new problems will motivate students to study mathematics and to better understand the links between mathematics, engineering and science.

"It's important that students know that mathematics is not in a void. Mathematics is a vital part of every engineering and science area students will study or work in," says Winkel.

Rose-Hulman students will play a key role in the development of the problems.

"Student developers will assist in evaluating solutions submitted by student solvers," Winkel says. "They'll help determine the level of effort and time needed for students to successfully complete problems."
**Engineers Travel To Kalamazoo Classic For Final ICAC Tuneup**

Coming off a two-week Christmas break, the Rose-Hulman Institute of Technology basketball team will have its final tuneup for the upcoming Indiana Collegiate Athletic Conference season by competing in the WQSN/Kalamazoo College Holiday Classic on Dec. 29-30 in Kalamazoo, Mich. The Engineers (6-5) will play Lake Forest College (0-9) in Wednesday's first round game. Kalamazoo and Bethany College (W.V.) round out the four-team tournament.

Rose-Hulman Coach Bill Perkins hopes the team can pick up where it left off prior to the break (especially the 50% field goal shooting at Earlham College) -- and show even more consistency and improvement as it prepares for the challenging ICAC season.

This will also be the Engineers' third tournament of the season. The squad finished third at the Ripon (Wisc.) Classic to start the season (Nov. 20-21) and won its own invitational on Dec. 3-4.

**How Coach Bill Perkins Sees Things**

On Team's Play During Pre-ICAC Season: "We've got to continue improving on those things we've done well the past month: Shooting, rebounding and defense ... We're getting good contributions from all players. Several of the sophomores and freshmen are starting to make their presence felt on the court. Our bench strength should pay dividends for us the remainder of the season."

On Upcoming Kalamazoo Classic: "We've got to treat these games like they're conference games. We're looking for intensity, defensively forcing turnovers and quality play from all 15 players ... Hopefully, our experience on the road (ninth and 10th away games) and in tournaments will give us an edge. And, playing in this strong tournament setup should prepare us even further for the ICAC postseason tournament (in February)."

**Taking A Close Look At The Engineers: Many Contributing To Team**

Eleven players are averaging at least 10 minutes per game. No starter is averaging more than 30 minutes per contest ... Team has made 22 of its last 31 three-point field goals (.710) and out-rebounded eight of its 10 opponents ... Guard Benj Glass (Fr., Kokomo, Northwestern H.S.) has averaged 11.2 points per game since becoming a starter in late November. He set a school record with eight steals at Earlham ... Guard Mike Lawrence (Sr., Evansville, Reitz H.S.) broke out of a two-game scoring slump to have 12 points (on 4-of-5 three pointers) at Earlham ... Forward Ryan Steinhart (So., Troy, Ohio, Troy H.S.) matched a career high with 14 points at Earlham. Reserve forward Troy Cole scored a career-high 19 points against Illinois Benedictine while guard Jermaine Williams is the top outside shooting threat (nine 3-pointers) ... This will be the first-ever meeting between Rose-Hulman and Lake Forest.

**Scouting The WQSN/Kalamazoo Classic Field**

Lake Forest: The young Foresters (only one senior on team) have experienced growing pains for first-year Coach Ron Timm ... The team has improved in each game, losing to Illinois Benedictine, 65-63, in its last game on Dec. 7. The squad also led Ripon College, 47-49, with 13 minutes left in the game — only to lose 92-48. Forward Matt Rozak scored a career-high 19 points against Illinois Benedictine while guard Jermaine Williams is the top outside shooting threat (nine 3-pointers) ... This will be the first-ever meeting between Rose-Hulman and Lake Forest.

Bethany College: The Bison bring a three-game losing streak into the Kalamazoo Classic ... The team has averaged 69.5 points, 29.1 rebounds and made 57.1 percent of its free throws — characteristics of losing teams ... First-year Coach Ted Eskildsen does not have a senior on the varsity roster ... Guard Jay Lohan has made 63 percent of his two-point field goals (22 of 35) ... Forward Phil Hall is top rebounder, averaging 6.6 per game ... Bethany defeated Rose-Hulman, 70-68, in the first round of the 1978 NCAA Division III postseason tournament — the only meeting between the two teams.

Kalamazoo College: The Hornets won their first four games in convincing fashion, winning at Franklin College (82-66) and scoring a 62-point triumph over Concordia College (100-38). The team lost at Purdue-Calumet (60-68) before losing to DePauw University (65-63) in the championship game of the DePauw Invitational on Dec. 18 ... Forward Jeremy Cole scored a career-high 30 points in a 89-76 victory at Spring Arbor on Dec. 21 ... Leading scorer Tank Lester (17.8 ppg) is currently out of the lineup due to an injury ... Coach Joe Haldin is a 1973 Wabash College graduate who has a 106-55 record in six years at Kalamazoo ... Team returned four starters from last year's team that had a 19-7 record and finished second in the Michigan Intercollegiate Athletic Association ... Kalamazoo has won the last two meetings with Rose-Hulman — both during the 1988-89 season (60-53 at the DePauw Invitational and 80-60 at Kalamazoo).

(See Latest Individual/Team Basketball Statistics On Back Of This Page)
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DEAN'S LIST

TERRE HAUTE, Ind.--___________ of _______ has been named to the dean's list for the fall quarter of the academic year at Rose-Hulman Institute of Technology.

___________ was among 418 undergraduate students who earned at least a 3.3 grade point average (on a 4.0 scale), according to Jess R. Lucas, vice president for student affairs.

Rose-Hulman is a private engineering and science college that has been cited by U.S. News & World Report and other national publications as one of America's best colleges.

Rose-Hulman, which has an enrollment of 1,300 students, offers degrees in chemical, civil, computer, electrical and mechanical engineering; applied optics; chemistry; computer science; economics; mathematics; and physics.

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Note that the following symbols represent specific degree areas:

AO -- applied optics
CH -- chemical engineering
CM -- chemistry
CE -- civil engineering
CO -- computer engineering
CS -- computer science
EC -- economics
EE -- electrical engineering
MA -- mathematics
ME -- mechanical engineering
PH -- physics