

Spring 1976

## Volume XIV - Issue 4 - Spring, 1976

Echoes Staff

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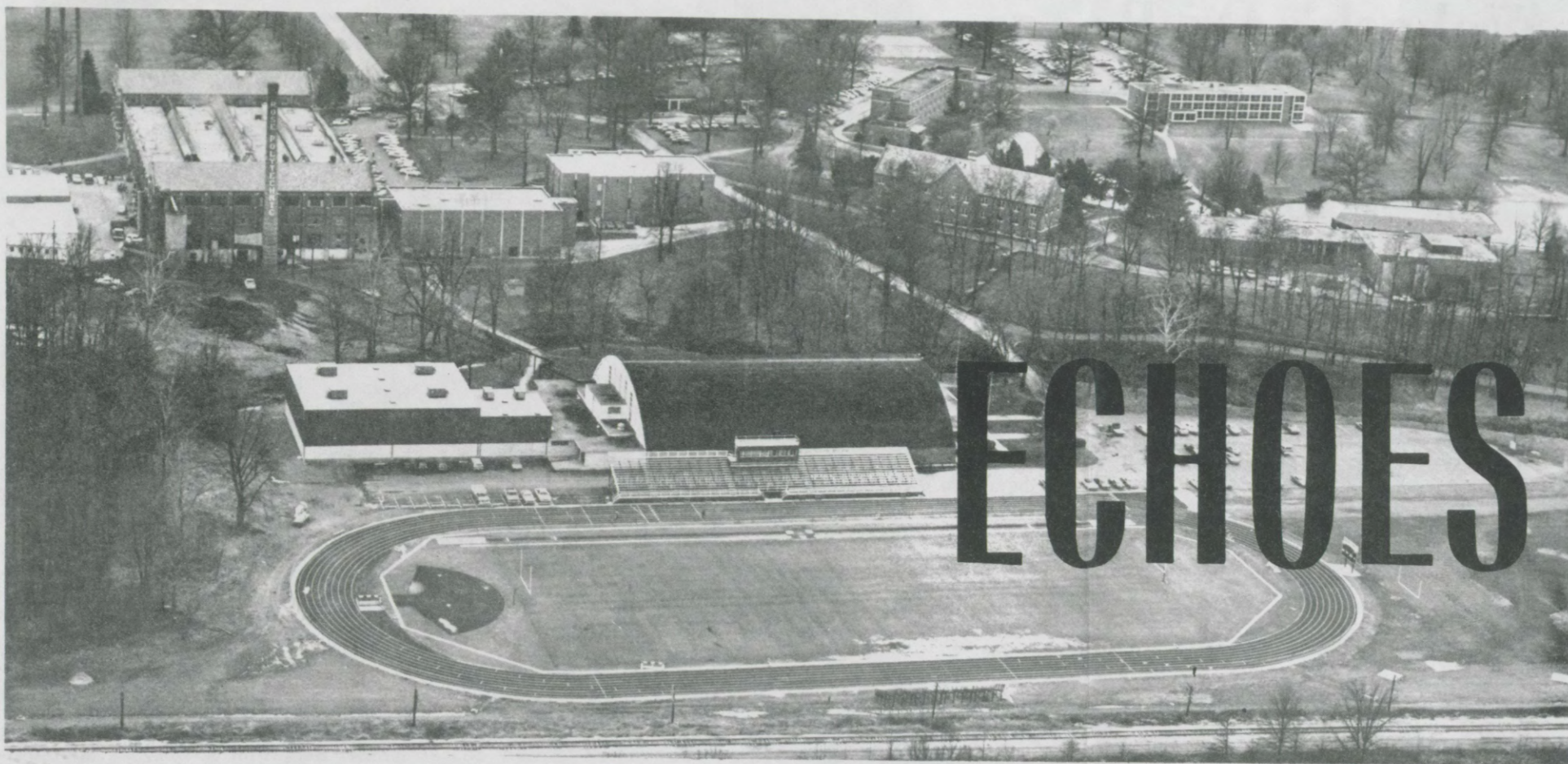
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Terre Haute, Indiana

Spring 1976

Vol. XIV, No. 4

## Parents' Day-Rose Show To Honor Dr. John Logan

Variety of Activities  
Scheduled Weekend  
Of April 24-25

Parents' Day '76 — scheduled Saturday, April 24 — will be much more than Parents' Day.

To be sure, the theme of the day will be that of providing parents an opportunity to visit their sons and see them in action in a variety of activities (see schedule on page 5.)

And the Rose Show, an open house which attempts to mirror engineering and science through individual and group projects, will be staged in the Main Building.

But the most important event of the day will begin at 7:30 p.m. as students, parents, alumni and friends salute retiring president Dr. John A. Logan with a party in Shook Fieldhouse. The new recreation center, perhaps Dr. Logan's most sought-after project in the 10-year Centennial Development Program, will be dedicated at that time.

Although students are hesitant to let out all the details of the party, they say it will be BIG. The central theme is a recognition and "Thank You, Dr. Logan" from the students, faculty and staff of Rose-Hulman, with some "roasting and fun" intermingled into the program.

When Dr. Logan came to the then Rose Polytechnic Institute from Northwestern University in the fall of 1962 he found a real challenge. The college had an

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Commencement

'76

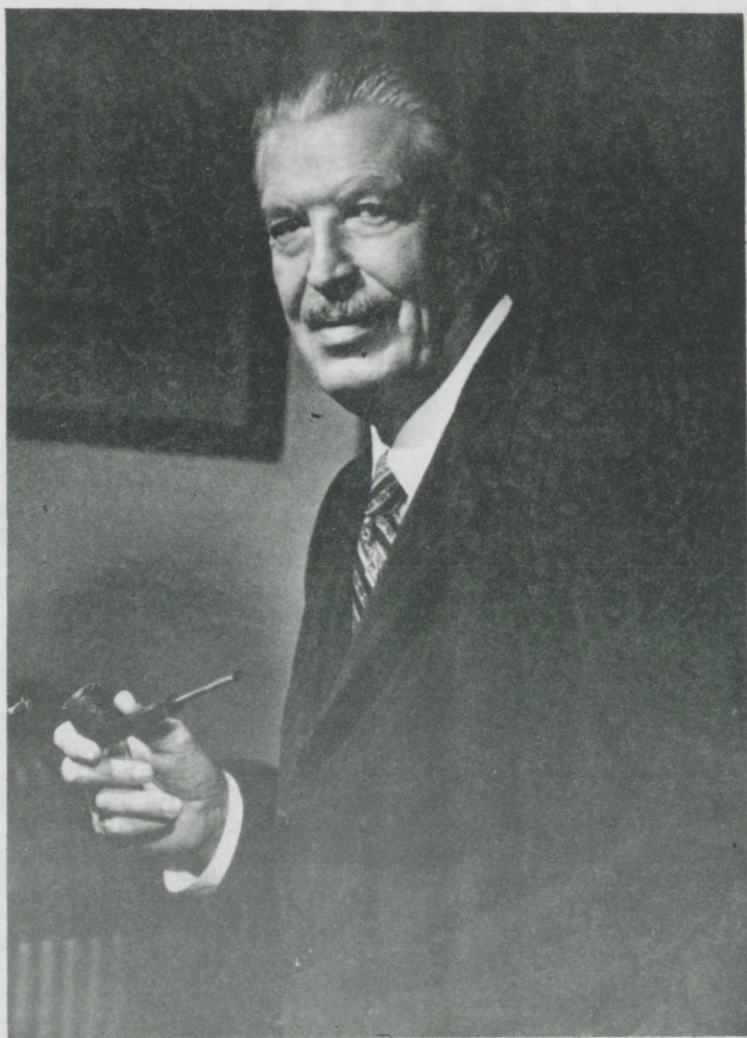
May 21-

Speaker:

Dr. Cornelius Wandmacher

University of Cincinnati

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Dr. John A. Logan

Readies Indiana Bid

### Logan Heads Group Seeking Solar Center

Rose-Hulman Institute of Technology President Dr. John A. Logan has been selected by Indiana Governor Otis R. Bowen, M.D., to head a task force charged with promoting efforts by Indiana to obtain a major federal solar energy research center.

The announcement was made March 11 in Indianapolis.

Dr. Logan was the only person named at the initial news conference, but it was reported that others from government, education, business and labor will be named to assist in the task of convincing Federal officials to construct the solar energy research center in the Hoosier state.

The center will be funded by the Energy Research and Development Administration. The proposed center is expected to employ 1,400 persons and operate with an annual \$50 million budget.

State officials said about 1,400 acres would be required but no

specific site has been mentioned. Fourteen states reportedly are competing for the center.

"The fact we are not a sunshiny state is not a deterrent," Dr. Logan said. "State officials are standing on the policy that an average situation for solar research would be more desirable rather than one with constant sunlight and warm temperatures."

Since the research will include other solar-related areas such as photovoltaic energy (the heating of crystals by the sun), wind energy, ocean thermal energy (temperature gradients), tidal power, and bioconversion (the growing and burning of plants), it was suggested that Indiana would be centrally located to a number of satellites which by virtue of the nature of their study would be located in areas on both coasts and throughout the United States.



E.E. "Johnny" Black

### Rec Center to Be Named In Honor of E.E. Black

Rose-Hulman's much-needed and deeply-appreciated new recreation center will be named in honor of Everett E. "Johnny" Black, a 1911 alumnus and dean of the construction industry and the Pacific, during special ceremonies on Parents' Day.

The dedication of the new \$1 million complex, which was opened for use at the beginning of the third term Monday, March 8, is scheduled for 7:30 p.m. in Shook Fieldhouse.

Black will return to the campus to participate in the dedication of the building. The Friday evening before he will be initiated into the Rose-Hulman chapter of Tau Beta Pi under the classification of "Eminent Engineer."

A native of Terre Haute and graduate of Rose-Hulman in electrical engineering, Black went west to Colorado upon graduation. He joined the Portland Gold Mining Company in Victor, Colo., where he worked as a "mucker" and "trammer."

According to Mr. Black's account of this job in a story

published in "Pacific Business News," the job of a mucker was that of filling the tram cars with the gold ore. A trammer pushed the cars back and forth from the mine.

Working under the watchful eye of "a big Swede" who qualified Black to operate a drilling machine, he moved on to the Garfield Smelter near Salt Lake City as an engineer.

Black and Ruth Aliene Emens of Colorado were married in the spring of 1913 and a month later moved to Hawaii where he was shift boss on the Waiahole Tunnels, a pioneer water transmission venture on Windward Oahu. Later associated with E. J. Lord, a leading Honolulu contractor for three years, he moved on to a dredging company only to have Lord offer him 40 percent of the business to return and run the contracting firm.

Black subsequently purchased the business, changed the name to E. E. Black, Ltd., and served

Continued on Page 3



## Wabash's Dr. Rogge To Deliver Schmidt Lecture On April 14

Dr. Benjamin A. Rogge, Distinguished Professor of Political Economy at Wabash College and a widely-sought lecturer for institutes on banking and economics, will receive the Chauncey Rose Medal and deliver the annual Oscar C. Schmidt Memorial Lecture on free enterprise at Rose-Hulman Wednesday, April 14. The lecture is scheduled for 10:50 a.m. in the Auditorium.



Benjamin A. Rogge

The endowed lecture series was begun at Rose-Hulman in 1953 through the generosity of the Cincinnati Butchers' Supply Company in memory of the late Oscar C. Schmidt, who was a pioneer manufacturer of machinery for the packing industry. Each year since leaders of business and industry have presented lectures in this series which bring to Rose-Hulman students the important contributions national industry has made and is making to our economy.

Dr. Rogge is a native of Hastings, Nebraska, and received his A.B. degree from Hastings College in 1940. He also holds an M.A. degree from the University of Nebraska and the Ph.D. from Northwestern University.

In 1946, after five years of service as a navigator with the U.S. Air Force, he was appointed an instructor in Economics at the University of Minnesota and held a similar position at Northwestern University from 1947 to 1949.

He joined the Wabash College faculty in 1949 as an Assistant Professor of Economics and was named Dean of the College in 1956. He served in that position until September, 1964, when he elected to devote more time to teaching and lecturing. At that time he received his appointment as Distinguished Professor of Political Economy.

In 1955, he served as a Visiting Professor at the University of Sao Paulo in Brazil. From 1956 on he has lectured at the summer sessions of the University of Michigan, in the University's Public Utility Executive Program.

He also has lectured (since 1961) in the School of Banking, sponsored by the American Bankers' Association at the University of Wisconsin and in various other programs for businessmen, teachers and ministers.

Dr. Rogge is co-author, with Dr. John V. VanSickle, of a textbook for an introductory course in economics and has written numerous articles on economics and higher education for professional journals.

He is a member of the Foundation for Economic Education and a former chairman of the board of this foundation. Since November, 1966, Dr. Rogge has

been Director of the Wabash Institute for Personal Development, a summertime training program in the liberal arts for business executives.

Dr. Rogge is married and the father of five children.

The Rose Medal, which honors the founder of the Institute, has been given to the Schmidt lecturer since 1968 in recognition of this individual's contributions to the free enterprise system.

Former winners are Maynard C. Wheeler, chairman of the board of Commercial Solvents Corporation; Dr. O. C. Carmichael, Jr., chairman of Associates Investment, Inc.; J. David Carr, general superintendent of the Gary Works of United States Steel Corporation; Dr. Tom Haggai, noted lecturer on free enterprise; J. Erik Jonsson, chairman of the board of Texas Instruments, Inc., and formerly mayor of Dallas, Texas; Burt F. Raynes, chairman and chief executive officer of Rohr Corporation; Carroll H. Blanchard, chairman and chief executive officer of Public Service Indiana; and Dr. Carl S. Winters, clergyman and member of the lecture staff of General Motors Corporation.

Earlier speakers include J. Irwin Miller, chairman of Cummins Engine Company; Wallace F. Bennett, U.S. Senator from Utah; Barry Goldwater, U.S. Senator from Arizona; and C. Oscar Schmidt, president of Cincinnati Butchers' Supply Company and son of the late business leader whom the endowed lecture honors.

### Modulus Sale

A deadline of April 30 has been set for purchasing the 1976 "Modulus" yearbook to be delivered in September. The staff seeks support through sale of the book at \$6.00. For a check of \$10, you will receive a 1976 Modulus which will include your name among the other supporters.

### Distinguished Achievement Award

## Mueller Executive W.R. Leopold Cited

W. R. Leopold, vice president of operations for Mueller Company of Decatur, Ill., has been selected to receive Rose-Hulman's Distinguished Achievement Award during the special Schmidt Lecture convocation April 14.

The award is given in recognition of distinguished service to Rose-Hulman, the community, the state or nation in a broad variety of areas.



W. R. Leopold

Leopold has maintained a close association with Rose-Hulman for a number of years. He has represented the Mueller Company in the annual presentation of the Mueller Award to the outstanding junior mechanical engineering major at Rose-Hulman and has been an effective liaison between the engineering, management and academic communities.

Through Mueller Company aid Rose-Hulman has improved the space and purchased materials science equipment for the recently-named Mueller Laboratories on campus. The laboratories are located in the mechanical engineering department and are used for stress analysis, materials analysis and metallurgy.

Leopold has had a broad career in engineering and corporate management since he received his B.S. degree in mechanical engineering from Illinois Institute of Technology in Chicago and an M.S. from Stevens Institute of Technology, Hoboken, N.J.

He was active in the early pioneering efforts of gas turbines for aircraft during which he developed original analytical methods for turbine disk design.



Dr. John Logan (left) accepts the Bell System gift from A. S. Berg of the Long Lines Division as Indiana Bell's F. F. "Mike" Layden, board member Benjamin G. Cox, and alumnus-board member and Bell Laboratories executive Carl R. Wischmeyer look on.

## Bell System Gift to RHIT Honors Alumnus Leroy Wilson

Rose-Hulman Institute has received a \$25,000 gift from the Bell System in memory of the late Leroy A. Wilson, a 1926 Rose-Hulman alumnus who rose through the ranks of engineering and management to become the youngest president of the world's largest corporation.

Presentation of the gift to the school was made during the Winter meeting of the Board of Managers Friday, Feb. 27. Carl R. Wischmeyer, director of education for Bell Laboratories of Holmdel, N.J.; A. S. Berg, operations manager of the Long Lines Division headquartered at Indianapolis; and F. L. "Mike" Layden, general public relations supervisor for Indiana Bell, representing the operating companies of the Bell System, participated in the presentation.

The Bell System, which includes 21 principal operating telephone subsidiaries serving approximately 80 percent of the



Leroy A. Wilson

nation's telephones, Bell Laboratories, and Western Electric, is the third leading employer of Rose-Hulman graduates.

More than 90 Rose-Hulman graduates work for the Bell System, with concentrations in Long Lines, Bell Laboratories,

Western Electric and Indiana and Illinois Bell.

Wilson joined A.T. & T. Company as a traffic student in Indianapolis upon his graduation in civil engineering. Moving rapidly through engineering ranks at Kokomo and Marion, he was transferred to New York where he became chief engineer in three divisions.

He moved into corporate management in the late 1930s and in 1944 was made vice president of A.T. & T. Two years later he became Financial Vice President, a position he held until 1948 when he was named president.

Wilson, who died in 1951, was a member of the Board of Managers of Rose-Hulman, and was active at the national level in Lambda Chi Alpha fraternity. He was awarded the Doctor of Engineering degree from his alma mater in 1948 and a posthumous Honor Alumni Award in 1970.

While working with scientists from Penemunde, Germany, he contributed much to early U.S. missile developments. He is widely recognized as an authority on the safe handling, control, and distribution of fluids, and has been granted many patents for his achievements.

He is the author of numerous articles published in the U.S. and abroad; is active in technical societies preparing industry standards, and holds membership in a number of technical and trade societies. In addition to his industry career he has maintained an active interest

with personal involvement toward increasing the value, importance, and attractiveness of engineering education.

Leopold is a Fellow of the ASME; an Eminent Engineer in Tau Beta Pi, and an Honorary Member of Pi Tau Sigma. He received the first Edwin Church Award from the ASME in 1973 for his work in engineering education; was the founding Chairman of the South Central Group of Central Illinois Section of ASME and has received certificates of appreciation from the ASME and the University of Illinois.

## ECHOES

Rose-Hulman Institute of Technology

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## Recreation Center To Be Named in Honor of Black

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as president from 1930 until assuming the chairmanship of the board in 1962.

The company, which started with 60 employees, now has a work force ranging from 1,000 to 4,000. The firm has built roads, sewers, dams, plants, schools, houses, offices, banks, hotels, hospitals, theatres — almost every kind of structure that ever get built.

Black not only has been a driving force in building Hawaii and leading the former U.S. territory to statehood, but has been a champion in community service.

"So many people have helped me on the way up that now I'm trying to repay them with my community work," says Black.

Black has been active in Hawaii's Junior Achievement program, Scouting, Oahu Development Conference and for many years served as president of Queen's Medical Center. Of course, his "community" services has included loyal support of Rose-Hulman in a broad range of activities.

In addition to his generous support in annual giving, capital improvements and scholarship aid, Black has provided alumni a "special bonus from the Islands" by flying the complete dinner shows of top Hawaiian hotels back as entertainment for the Rose-Hulman homecomings of 1966 to 1971 — the 55th and 60th reunions of the Class of 1911.

Black, who was named "Father of the Year" in Hawaii some five years ago, taught his children the value of manual labor. When his sons became old enough to work they were placed in jobs commensurate with their experience in the construction industry—that of laborers (digging ditches and handling materials, etc.).

Black, who received the honorary Doctor of Engineering degree from Rose-Hulman in 1964, maintains an active interest in business and civic communities of Honolulu at the age of 87.

An advocate of maintaining a physically-sound body, it is fitting that the new complex be named the E. E. Black Recreation Center in "recognition of Mr. Black's loyal support of Rose-Hulman and his contributions to mankind as tough-minded engineer and builder with a heart."

## Tuition Increase To \$2,700 Approved

A tuition increase of \$100 per term for academic year 1976-77 has been authorized by the Rose-Hulman Institute of Technology's Board of Managers. The increase, effective in September, brings tuition to \$900 per term of \$2,700 per year.

Dr. John A. Logan, president, said the increase was made only after a careful review of budget needs which reflect the inflation which is prevalent in all sectors of business and education.

"Even with significant economies in the non-academic area, we would be unable to maintain the current standards and also close the gap between revenue and expense without an increase," notes Dr. Logan.

"Financial aid awards for next year will be made on the basis of the new \$4,500 per year student budget for attending Rose-Hulman. Financial aid packages will reflect this impact as it applies to each individual student with a demonstrated financial need."

There will be no increase in room and board.



Roundball prevails as king in the new recreation center

## R-H Recreation: More Activities For More People

Rose-Hulman's new E.E. Black Recreation Center, which has been in operation since March 8, is already one of the most-used facilities on campus.

Students and faculty who previously had never had a paddleball racket in their hand are now talking about the tricky shot they made using the corner. What's more, they're doing it.

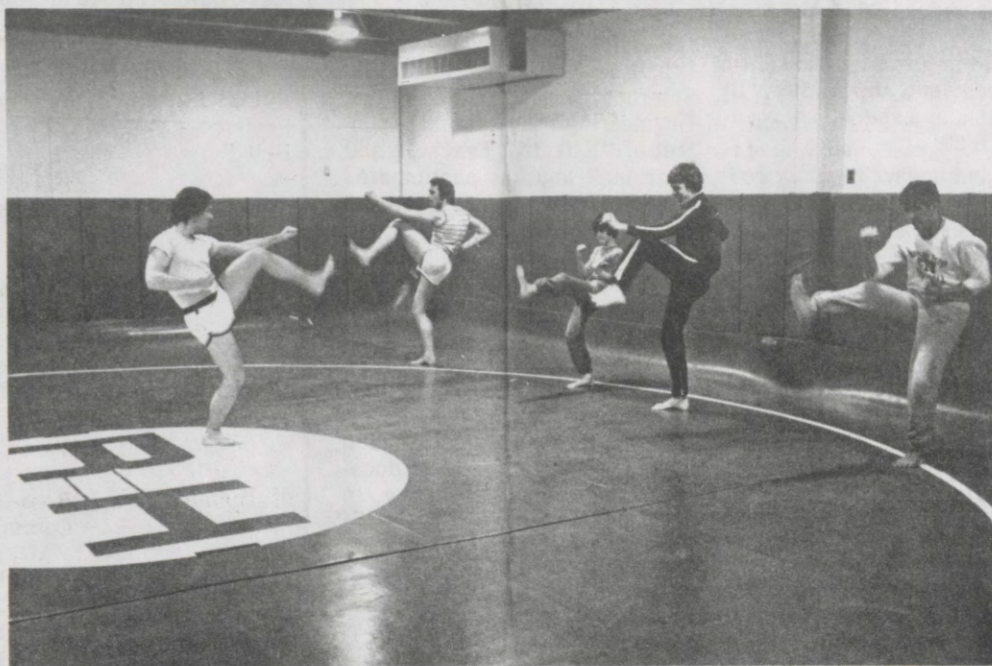
Intramural Director Jim Rendel is happy with the first month of operation of the center, but says it will be better next fall.

"Not knowing when it would be completed, we did not use it to its fullest potential," says Rendel. "Next year the recreation center will be a tremendous asset to the complete program."

"We'll be able to add things like one-on-one basketball tournaments, basketball golf which is shooting from certain spots with a certain par...18 holes, so to speak. We'll also have free throw contests and tournaments in badminton, handball and racketball. I really hope to have an intramural wrestling tournament next year."

Jim Rendel's sign-up sheet for the handball courts has received much the same attention of Placement Director Bill Sisson's sign-up sheets for job placement. Students haven't yet begun camping overnight on the recreation center steps as they do in front of Templeton Administration Building, but the interest has been high.

The only times one can be assured of getting a handball court is between 8 and 10 a.m.



Sophomore Marty Tieva, a Black Belt karate instructor, demonstrates the finer points of karate and judo in the new wrestling room.



The two new handball courts are busy every hour the recreation center is open. Students line up early in the morning to sign the sign-up sheet.

## Admissions Department Accepting Applications for Catapult

The admissions office at Rose-Hulman is accepting applications for this year's Operation Catapult program described "as the kind of thing for a guy who'd rather learn to program a Xerox 530 computer or fabricate a metal model for aerodynamic drag tests than just daydream."

Each session is limited to 70 boys who have completed their junior year in high school and

think they have an interest in engineering, physics, chemistry or mathematics. Dates for the 1976 program are June 6-June 26, June 27-July 17 and July 18-August 7.

Professor Alfred R. Schmidt will be directing the unique program currently in its tenth year. The cost for three weeks, including instruction by the top-

notch Rose-Hulman professors, an air-conditioned dormitory room and meals, is \$300. Additional instructional supplies will not cost more than \$15.

Operation Catapult sets out to do three things: 1) Integrate and supplement the student's previous learning (in no way is this a remedial program); 2) Explore fundamental scientific

principles and systems; and 3) provide an opportunity for group living in a campus setting.

If you'd like more information or materials sent to a boy you know, please write or call:

Dean of Admissions  
Rose-Hulman Institute  
of Technology  
Terre Haute, IN 47803  
812/877-1511



## Graduation May 21; Wandmacher Speaks

Dr. Cornelius Wandmacher of the University of Cincinnati, whose contributions to engineering education are rivaled by few, will deliver the principal address at Rose-Hulman's 98th commencement Friday, May 21.

Commencement is scheduled for 5 p.m. and will be preceded by the faculty reception for graduates and guests at 3 p.m. Commissioning ceremonies will be at 2 p.m. Two-hundred nine will receive degrees this spring.

The Institute also will confer honorary doctorates on alumnus Alfred A. Yee (October, 1948), president of Alfred A. Yee & Associates, Honolulu, Hawaii; Benjamin G. Cox, Terre Haute attorney who served as chairman of the Rose-Hulman Board of Managers from 1968 through 1975; the Rev. James T. Burtchell, provost of the University of Notre Dame, and Dr. Wandmacher.

Berndt H. Dieterich, director of the Division of Environmental Health with the World Health Organization in Geneva, Switzerland, also was nominated to receive an honorary degree at commencement.

Since his work schedule will not permit his attendance at commencement, the degree will be awarded at a special convocation April 23.

Dr. Wandmacher recently concluded a term of 12 years as dean of the College of Engineering at the University of Cincinnati. He is continuing his role in university affairs as professor of engineering education.

He is the immediate past president of the American Society for Engineering Education (ASEE), chairman-elect of the Association for Cooperation in Engineering (ACE), and a member of the board of directors of the Engineers' Joint Council.

Professor Wandmacher has served several terms as a member of the board of directors of the Engineers' Council for Professional Development (ECPD). He has participated in ECPD accreditation visits to over 40 campuses, and is a member of the education and accreditation committee of the ECPD representing the National Council of Engineering Examiners (NCEE).

On two occasions, 1952-54 and 1957-59, Dr. Wandmacher was

national chairman of the Committee on the Development of Young engineers for ECPD.

He was vice-Chairman of the Joint Advisory Committee of ECPD, EJC, NSPE, and ASEE which issued the 1966 report on "Continuing Engineering Studies."

Professor Wandmacher was Chairman of the first Long Range Planning Committee of ASEE as Vice President in charge of the Council of General Divisions and Committees which included: Educational Methods and Research, Graduate Studies, Continuing Education, Relations with Industry, Ethics, Cooperative Education, and a number of related Society activities. In '63-'68 he was a member of the Board of Analysts of the "Goals of Engineering Education" project.

In 1963 he was appointed by the Governor of Ohio to the Ohio Board of Registration for Professional Engineers and served two five-year terms. He was a member of the Engineering Advisory Committee for the Ohio Board of Regents. In 1970 he received the Distinguished Service Award of NCEE.

He had a leadership role in the first national ASEE-Penn State Summer Institute for Young Engineering Teachers on the subject of "Effective Teaching and Learning" and has participated in a number of ASEE follow-up workshops since.

He is a graduate of the Polytechnic Institute of New York where he received an early fellowship for graduate study and later became a faculty member and administrative officer. He taught also in summer session at the University of Illinois and studied in the College of Education at Columbia University. In 1969 the Polytechnic awarded him the honorary degree of Doctor of Engineering.

He is a Fellow of the American Society of Civil Engineers, was President of the Engineering Society of Cincinnati in '59-'60, and Cincinnati "Engineer of the Year" in 1963.

Dr. Wandmacher has served as a member of the U.S. Air Force Institute of Technology Advisory Committee and as a member of the Steering Committee, USAID Afghan/American project, Faculty of Engineering, Kabul University, Afghanistan.



**PARENTS' DAY PLANNING COMMITTEE** - Sophomore Dave Johnson (right) and Parents' Day planning committee members Jeff Shanks, Dave Mellor and Mike Baumann chat with social director Lucy Samara following a meeting. Johnson is general chairman, Shanks and Baumann are heading the Salute to Dr. Logan and Mellor is in charge of the Blue Key-sponsored Rose Show.

## Program of Events

Sunday, May 2, 1976

Hulman Memorial Union

5:30 P.M. Champagne Reception  
Organ Interlude - Prof. Alfred Schmidt

6:30 P.M. John Logan Day Banquet  
Invocation - The Rev. John Chironna  
Welcome - Mr. Maynard C. Wheeler  
Vice Chairman, Board of Managers

Rose-Hulman Glee Club  
Comments -

Mr. Thomas W. Binford  
for the Board of Managers  
Mr. Jeffrey C. Shanks  
for the Student Body  
Mr. Frank G. Doenges  
For the Alumni Association  
Dr. Wilkison W. Meeks  
for the Faculty and Staff  
Mr. Benjamin G. Cox  
for the Terre Haute Community  
Mr. Forrest G. Sherer  
Special Presentation

Response - Dr. John A. Logan

## Testimonial Slated May 2 For Dr. Logan

A formal testimonial dinner and reception will honor retiring Rose-Hulman President Dr. John A. Logan.

The dinner is scheduled for Sunday, May 2, at Hulman Memorial Union, with several persons commenting for the various constituencies of Rose-Hulman. Thomas W. Binford, chairman of the Board of Managers; immediate past chairman Benjamin G. Cox; Jeff Shanks, 1975-76 Rose-Hulman student body president; and Dr. Wilkison W. Meeks, professor of physics, are among the featured speakers.

Also taking part in the program will be Terre Haute businessman Forrest Sherer, a member of the Board of Managers; the Rev. John Chironna of Central Presbyterian Church, and the Rose-Hulman Glee Club.

The program is scheduled to start at 5:30 p.m. with a reception and continue with a 6:30 p.m. dinner.

Maynard Wheeler, vice chairman of the Board of managers, is serving as planning committee chairman. Working with Wheeler in planning the dinner are fellow board members Sherer and Jack Ragle, Terre Haute businessman; Ronald Reeves, vice president of development and public affairs at Rose-Hulman; Jim Gidcumb, senior class president; Vern Fellows and Joel Waldbeiser, Terre Haute area alumni representatives; and Mrs. Lucy Samara, co-director of the Hulman Union and social activities director.

Persons wishing to send personal congratulations to Dr. Logan for presentation to him at the testimonial dinner may do so by directing them to the planning committee. Please send notes to the alumni or president's offices at Rose-Hulman.

*Enhance  
Old School  
Ties With  
A  
School Tie*

## Concrete Canoe Revisited: Is It Tradition Yet?

Do you recall the black and white checkered concrete canoe civil engineering students at Rose-Hulman built for inter-collegiate competition a few years ago?

The project is now becoming an annual affair. Although its construction is not as much of a team effort as it has been in the past, team leader Dennis Basile, Elk Grove, Ill., senior, believes the '76 entry in the contest being hosted by the University of Illinois "is a winner if it doesn't take on too much water on the turns."

Begun in the fall with design and testing of a number of materials and techniques the craft was launched in the larger campus lake in late March.

Basile was the driving force on the project and was assisted by fellow seniors Jeff Mueller, Evansville; and Dave Dahl, Crawfordsville, and junior Bill Payton of West Terre Haute.

Since the competition in Urbana-Champaign coincides with Parents' Day the students involved plan to make a display of their work for the Rose Show. And, of course, the granddaddy of the concrete canoes is enshrined in the civil engineering laboratory for all to view.



**LET THE PROFS TRY IT FIRST** - Civil engineering seniors Jim Barkland, Dennis Basile and Ron Horner help Professors Ev Killam and Ken Henkel begin the "maiden voyage" of this year's concrete canoe. The Rose-Hulman entry will be participating at the University of Illinois April 24.



## Parents' Day 1976 — RHIT at Its Best

Continued from Page 1

enrollment of 500 students and as one observer put it "was riding on a reputation established in earlier years."

Its student body was too small to make the kind of national impact a school of its academic stature should have, the faculty was too small in some areas to offer the curricular breadth called for by accrediting agencies such as the Engineers' Council for Professional Development (ECPD), and the physical plant and fallen into a state of ill repair.

Try to imagine the college without Hulman Memorial Union, Mees, Blumberg and Scharpenberg halls, Speed Hall, Crapo Hall, the Learning Resources Center, Rotz Engine Laboratory, the Maintenance Building, the Recreation Center, Reeder Laboratory, and fraternity row on the east edge of campus. The list goes on.

Now take out all the lighting, air-conditioning, paneling, carpeting, furniture and equipment that has been installed in the Main Building, Templeton Administration Building and Deming Hall in the last decade and 1962 in retrospect comes into closer focus. And the list goes on.

Of greater importance has been the development of the student body, faculty and curricular offerings. While improvement in these areas is not as obvious to the layman as brick and mortar, without them the bricks and mortar would not have been necessary.

The Parents' Day affair is actually a weekend of activities. The Drama Club will kick off activities by presenting a play entitled "Good Doctor" at 8:30 p.m. Friday in the auditorium. The later-than-usual curtain is to aid parents traveling from some distance after work Friday.

Saturday's program begins with registration at 10 a.m. in Shook Fieldhouse. The morning session will include welcome by

Dr. Logan and Richard Neal of Terre Haute, president of the Parents' Association. The ROTC Awards Ceremony, a performance by Rose Rifles Exhibition Drill team, winner of a recent major meet and a concert by the band.

The Glee Club will perform twice during the lunch period in Hulman Union. The afternoon includes a simultaneous chess exhibition, baseball, track and field, a second presentation of "Good Doctor" and a special program by Rose Men In His Service, the local chapter of Inter-Varsity Christian Fellowship.

The dedication of the E.E. Black Recreation Center, followed by the party for Dr. Logan (7:30 p.m.) complete the day's activities.

Sunday will provide some thrill-packed action for parents as the six social fraternities stage the annual Greek Games on campus. Competition includes the traditional cart race, canoe race and songfest, etc.

### Christian Fellowship Group Plans Program

Parents are cordially invited to attend a program sponsored by the Rose-Hulman Inter-Varsity Christian Fellowship during the afternoon of Parents' Day. The program is scheduled to begin at 5:30 p.m. in the Union Building.

The presentation will explain Inter-Varsity's purpose on the campus and what the Rose-Hulman chapter (Rose Men In His Service) is achieving in the way of bringing the students into a closer relationship with Christ.

Refreshments will be served at the close of the meeting.

Rose Men In His Service, which has been active on the Rose-Hulman campus for six years, has grown to an active membership of between 80 and 90 members.

### Friendly Competition

## Fraternities Shoot for Logan Scholarships

The six Rose-Hulman fraternities will spend Saturday, April 24, shooting basketball free throws to raise funds for scholarships to be awarded in honor of retiring President Dr. John A. Logan.

The fraternities are obtaining sponsors who pledge a certain amount for each successful free throw during a 10-hour period.

All funds will be put in an unrestricted school scholarship account and will be given as financial aid under the title of John Logan Scholarships.

Bruce Schmidt, president of the RHIT Interfraternity Council, said, "We appreciate the opportunity to help the school, provide a continuing recognition of Dr. Logan and strengthen interfraternity relations on campus."

He added, "There is a sufficient amount of academic competition here and the competition of fraternity rush adds to the pressure — it is nice to relax and still be doing something worthwhile."

Thus, the fraternities are viewing the big shootout as a real opportunity for friendly competition. The fraternities don't have an idea of how many free throws they'll hit during the contest, but the strategies are much the same — that of keeping the ball in the air and of frequent substitution of shooters — that is unless someone gets hot and hits 100 in a row.

Schmidt continued, "There will be a number of prizes given during the contest — the fraternity with the highest total raised pledges times number of free

throws made, a trophy for the most free throws regardless of the amount pledged and the so-called Bicentennial trophy for the fraternity which hits the 1,776th free throw."

Approximately 80 per cent of the 1,000-man student body

shares in some form of financial aid.

The free throw contest will be a part of Parent's Day activities. Fraternity members are currently seeking pledges from local residents and the business and professional communities. Those

interested may pledge an amount per basket hit and may set a maximum amount that the total pledge is not to exceed.

Persons desiring to make pledges should contact the fraternity of their choice at Rose-Hulman.

## PARENTS' WEEKEND

Friday, April 23

8:30 p.m.: Drama Club presents "Good Doctor" (Auditorium)

Saturday, April 24

9:30 a.m.- 7:30 p.m.: IFC "Score for Scholarships" (Recreation Center)

10:00 a.m.: Registration (Shook Fieldhouse)

10:30 a.m.: Morning Session (Shook Fieldhouse)

Band performance

Welcome by Rose-Hulman president Dr. John Logan and Mr. Richard Neal, president of Parents' Association

ROTC Awards Ceremony

Rose Rifles Exhibiton

Band performance

11:00 a.m.- 3:00 p.m.: Rose Show in progress (Main Building; Crapo Hall)

11:30 a.m.: Lunch (Main Dining Room, Hulman Union)

12:00 and 12:30: Glee Club Concerts (Dining Room)

12:30 p.m.: Chess - Simultaneous Exhibition (Mind Garden, Hulman Union)

1:00 p.m.: Track Meet - Rose-Hulman vs. Bellarmine and Oakland City (Phil Brown Field)

Baseball doubleheader - Rose-Hulman vs. Marian (Art Nehf Field)

2:30 p.m.: Drama Club presents "Good Doctor" (Auditorium)

5:30 p.m.: Rose Men In His Service - Program with Don Fields (Performing Arts Room, Hulman Union)

Fraternity Open Houses and Dinners by invitation.

7:30 p.m.: Party for Dr. Logan (Fieldhouse)

Sunday, April 25

12:00 noon: Greek Games (Campus)

### 154 Sign to Take EIT Examination

A record 154 Rose-Hulman seniors—or 85 percent of those eligible—signed up to take the nationally-administered Engineer in Training (EIT) examination on campus Saturday, April 10.

The EIT is the first step toward securing a license as a registered professional engineer. A certificate is given upon successful completion of the comprehensive examination which starts at 8 a.m. and runs until 5 p.m.

All aspects of engineering are covered in the American Testing Service examination. Students in chemical, civil, electrical engineering take the examination.

Irvin P. Hooper, professor of mechanical engineering and coordinator for the annual examination at Rose-Hulman, noted that there was an overall increase in interest in taking the examination this year.

Those who pass the EIT are eligible to take the Professional Practices portion of the two-part test four years after completion of the EIT. Successful completion of Part II entitles engineers to become licensed.

## Homecoming '76

October 22-23



SCORE FOR SCHOLARSHIPS - Lambda Chi Alpha's Tim Stone, Sigma Nu's Shannon Rives, Jerry Matthews of Alpha Tau Omega, Fiji's Don Pickens, Ron Wier of Triangle and Mike Stieff of Theta Xi appear poised for the inter-fraternity shootout at the free throw line on Parents' Day.



## Ridgway and Wong To Head SGA in '76-77

Randal A. Ridgway of Frankfort has been elected president of the Student Government Association of Rose-Hulman for the 1976-77 academic year.

Ridgway, a junior mechanical engineering major, defeated Larry Lidster, a junior civil engineering major from Terre Haute, in a run-off election. Junior Choi K. Wong, Chicago, defeated sophomore Gerry J.

Dail, Indianapolis, in the race for vice president.

As president of the student body at Rose-Hulman, Ridgway will direct an organization which governs the various aspects of student life and extra-curricular activities. SGA has an operating budget of over \$33,000 for 1976-77 and oversees more than 20 student organizations.

Ridgway also will represent the student body on the operating committees of the Board of Managers whose responsibilities relate to student affairs.

A graduate of Frankfort (Ind.) High School in 1973, Ridgway has achieved class honors at Rose-Hulman. He is associate editor of the student newspaper, "The Thorn," and is a member of Blue Key, national service honorary; the student chapter of the American Society of Mechanical Engineers (ASME), International Solar Energy Society, and Phi Gamma Delta social fraternity. He was chosen to appear in the current edition of "Who's Who Among Outstanding Students of American Colleges and Universities."

Wong, who was graduated from Hammond (Ind.) High School, is a chemical engineering major. He is news editor of "The Thorn" and vice president of Triangle fraternity. Active in the Drama Club since his freshman year, he currently is serving as vice president of the organization. He was secretary-treasurer of the student chapter of the American Institute of Chemical Engineers (AIChE) as a sophomore.



Randy Ridgway



Choi Wong

### Little Italy Feast For Valley RoseTech

The Wabash Valley RoseTech Club has planned a Little Italy Feast at Alfier's Restaurant, 545 North Ninth Street in Clinton Wednesday, April 28.

Cocktails will be at 6 p.m., followed by a family style dinner featuring tortolini, salad, breaded veal, fried chicken, spaghetti and meatballs, fried mushrooms and spumoni.

Cost for the dinner is \$5.75.

Dr. John Logan will be the honored guest at this stag affair.

Reservations should be directed to Miss Anna Mary Turner, Alumni Secretary by reply card or by calling (812) 877-1511, Ext. 231.

### Solar Research

Continued from page 1

Dr. Logan, who was among the first to be named to the National Academy of Engineers, a group which consults to the Federal Government on matters pertaining to engineering and related fields, was the odds-on choice to head the task force.

He has consulted to the World Health Organization, U.S. State Department and a number of other agencies. He has been honored for his engineering work by the governments of Brazil and Italy, and in 1974 was named the "Engineer of the Year" in Indiana.

### Got a Class Note? Send It to Echoes



Allen Ruszkowski works on his Manometer prototype in the basement of the Fiji house.

## Senior Project Pay\$ Off for Al Ruszkowski

Allen Ruszkowski of Beech Grove has a problem (or better yet, an opportunity) that most college seniors wish they could share.

An honors student in electrical engineering at Rose-Hulman, Allen has been busy in recent weeks interviewing prospective employers, visiting plants and research laboratories, and weighing offers for employment upon his graduation in May.

To be sure, employers are interested in Allen Ruszkowski. But that is only half of the story. At least three companies have shown an interest in purchasing Ruszkowski's senior electrical engineering project for possible incorporation into their medical equipment line.

Working in collaboration with his brother Dave, chief respiratory therapist at St. Francis Hospital in Beech Grove, Allen has researched, designed, developed and built a working prototype of a device capable of monitoring a patient's breathing

cycle when the patient is connected to a respirator.

The device sounds an alarm when breathing becomes abnormal or in case of malfunction on the part of the respirator. The device, which Ruszkowski suggests might be called a "Manometer," measures the maximum and minimum pressures of the system during the breath cycle and displays these pressures in digital form for ease of interpretation. The alarm sounds if either the maximum or minimum pressures fall within their respective programable ranges.

In addition to the design and construction of the prototype, Allen has a complete documentation of the project. He also has gained some experience in the patent procedure through consultation with a patent attorney.

The device solves a "real world" problem encountered by hospitals daily. Its development was spurred by a casual conversation between the Ruszkowski brothers more than a year ago and actually came into being as Allen searched for an idea for a project required in a course called "Electrical Engineering 498 — Engineering Projects and Design."

Professor John H. Derry, who taught the course during the Winter term, described Ruszkowski's project as "one of the best I've seen in my experience teaching the course."

"We usually have one or two each year with the technical sophistication, but to have a project with such a practical application is indeed rare," Derry commented. "It's interdisciplinary nature and the application of engineering to medicine was well carried out."

Aside from the invention and the research, there is another interesting aspect to the Allen Ruszkowski story. The device was built in a small laboratory Allen maintains in a basement study room of the Phi Gamma Delta fraternity house (this bright young man is a well-rounded individual — not your all too typical inventor/recluse).

Ruszkowski is the son of Mr. and Mrs. Walter J. Ruszkowski,

## Tau Beta Pi Taps 17 for Membership

Rose-Hulman's chapter of Tau Beta Pi has tapped 12 students, three faculty members and two as "Eminent Engineers" for initiation during the spring.

Requirements for admission are higher than any other honorary on the Rose-Hulman campus. Sometimes referred to as the "engineers Phi Beta Kappa," Tau Beta Pi is open to all majors with honors level scholastic averages and leadership qualities. It is emphasized that high character and a willingness to help fellow students are strong factors in selecting new members.

Seven juniors were selected from the top eighth of their class. The five seniors were chosen from the top fifth of their class. Student selected are juniors: Jon S. Boo, Chesterton; Jeffrey M. Cary, Linton; John A. Fitch, Fort Wayne; Richard A. Gollhofer, Thornton, Ill.; Charles D. McDonald, Danville; P. Kent McLaughlin, Morton Grove, Ill., and Robert P. Thacker, Oblong, Ill.

Seniors include David L. Dahl, Crawfordsville; Stephen A. Hess, Corydon; Dennis E. Main, Muncie; Neil D. Quellhorst, Findlay, Ohio, and Andy D. Wagner, Sumner, Ill.

Faculty members include Drs. James R. Eifert and Donald G. Morin, both of mechanical engineering, and Dr. Everett H. Killam of civil engineering.

Everett E. Black, a 1911 Rose-Hulman alumnus who has distinguished himself as dean of the Hawaii/Pacific construction industry, and Berndt H. Dieterich, director of the Division of Environmental Health of the World Health Organization.

212 South Tenth Avenue, Beech Grove. He was valedictorian of the 1972 graduating class of Roncalli High School.

While at Rose-Hulman he has been active in Eta Kappa Nu, national electrical engineering honorary (treasurer); Pi Mu Epsilon, national mathematics of Electrical and Electronics Engineers (president); Phi Gamma Delta social fraternity (recording secretary), and the Rose-Hulman Interfraternity Council. Ruszkowski was named to "Who's Who Among Students of American Universities and Colleges" for 1975-76.

## Alumni Parents Friends

Are you interested in  
A Trip to Hawaii  
Nov. 28-Dec. 5, 1976?  
Cartan Tour  
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3 nights at the  
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on Waikiki Beach

3 nights at the  
Sheraton-Maui  
on Kaanapali Beach  
\$575 total cost per person  
sharing twin room  
(meals in Hawaii not included)

\*Special connection rates available  
For further information please  
write or call:  
Miss Anna Mary Turner  
Rose-Hulman Institute  
of Technology  
Terre Haute, Ind. 47803  
(812) 877-1511 Ex. 231



SENIOR-ALUMNI ORIENTATION - Members of the senior class and alumni who work with the Senior Orientation Committee met recently to discuss RoseTech Club activities and other alumni programs. Seated from left were Jim Gidcumb '76, Fred Goetsch '57, Vince Lambert '76, Mike Dominik '76, Brad Hunt '76, Vern Fellows '62 and Tom Reese '58, chairman of the orientation committee. Standing (left to right) are Dick Mullins '40, vice president of the RoseTech Alumni Association, Keith Stelzer '76, Dave Mellor '76, Mel Yoder '76, Bob Carter '76, Ron Reeves '58 and Terrie Maddox '76.





**COVETED HONOR** - Bill Bayles receives a trophy signifying his selection as DeMolay of the Year for 1975 during the international convention held in Indianapolis recently. Presenting the trophy to Bayles are Judge Robert A. Grant (left), Grand Master of DeMolay for 1975-76 and C. C. Faulkner, Jr., executive officer from Indiana.

## Rose-Hulman Junior Bill Bayles International DeMolay of Year

Rose-Hulman junior William J. Bayles of Martinsville is the sort of young man who stands out in a crowd. He is neat in appearance, quiet in demeanor and is readily chosen for positions of responsibility in the half dozen activities he is engaged at Rose-Hulman.

His leadership, which is obviously visible at the Institute, took on an international dimension in mid-March as he was honored as the DeMolay of the Year for 1975 during the annual meeting of the organization in Indianapolis.

### Conn, Kuhfahl Winn ROTC Grants For Graduate Work

Richard L. Conn, Winamac, a February graduate in computer science, and Wayne C. Kuhfahl, Bethlehem, Pa., who will graduate in May in chemical engineering, have been awarded Army ROTC Fellowships to pursue graduate work at the university of their choice.

In order to qualify for the award the student must be in the top five percent of all ROTC students across the country. This year there were a total of 68 students awarded this fellowship.

The ROTC Fellowship allows a student to obtain a master's degree at the Army's expense. It includes all tuition and books at any graduate school in the nation to which the student gains admission. While at graduate school the student also receives the full pay and allowances of an Army second lieutenant which amounts to over \$10,000 annually.

Conn was the driving force behind the establishment of the Rose-Hulman chapter of the Association of Computer Machinery and Rose-Hulman's hosting of a major intercollegiate computer programming contest.

Kuhfahl has been active in Alpha Tau Omega fraternity, the American Institute of Chemical Engineers (AIChE) and the Student Activities Board, serving as chairman of a number of student activities at Homecoming and Parents' Day.

## New School Ties

DeMolay, a fraternity sponsored by recognized groups of Masons throughout the free world, has more than 2,300 chapters and a membership of more than 150,000 boys. The organization is strong in Indiana where the Indiana DeMolay Foundation counsels the operation of about 135 chapters, with 10,000 boys, and also owns a 120-acre retreat complete with modern chalet, near Bloomington.

Bayles, who will "graduate" from DeMolay upon his upcoming 21st birthday, has been in DeMolay since 1969. He is a past master councilor of the Martinsville Chapter; received the chevalier degree and meritorious service and distinguished service awards and was designated a representative DeMolay, a special honor.

A mechanical engineering major, Bayles has consistently made the Dean's List and holds a

four-year Army ROTC scholarship. He belongs to Pi Tau Sigma, mechanical engineering honorary; the student section of the American Society of Mechanical Engineers, and Inter-Varsity Christian Fellowship.

He is commander of the ROTC color guard, secretary of the Rose Rifles exhibition drill team and was superior cadet of the 1974 freshman class. Bayles also served as a dormitory counselor in Deming Hall and is active in intramural sports.

Previous achievements have included the 1971 state champion in the Dodge-Amvet drive excellent contest; winner of the 1971 Scholastic Magazine automotive award; regional finalist from 1968 through 1970 in the Indiana science fairs; chairman of the Foreign Exchange Club, and chairman for a number of Martinsville fund drives and clean-ups, etc.

## Admissions Receives 1,300 Applications for 350-Man Class of '80

Rose-Hulman announced April 5 that it is no longer accepting applications for admission to the freshman class entering in September.

In making the announcement President John A. Logan said, "As of this date we are over-subscribed for the incoming class and in order to fulfill the commitments we've made and maintain the quality of our education, we are not processing or admitting any additional freshman applications."

According to Duncan C. Murdoch, dean of admissions, Rose-Hulman has received a record 1,300 applications for the 350 spots available in the freshman class.

Since most students who qualify for admission to an institution such as Rose-Hulman apply to two or more colleges, it is the practice of these institutions to admit more students than they intend to enroll.

"We have received far more commitments than we had anticipated from those students we've offered admission and financial assistance," said Murdoch. "There are seventy-five spots remaining from a large pool of admitted candidates and most of those involved will receive financial aid offers by April 15."

### Indianapolis RoseTech Club to Meet April 26

The Indianapolis RoseTech Club will hold its annual Spring meeting for alumni and wives (or dates) Monday, April 26 at Adam's Rib, 40 S. Main Street in Zionsville.

The evening includes cocktails from 6 to 7 p.m. and dinner at 8 p.m. Menu selection includes a club steak or red snapper at a cost of \$7.50 per person.

Dorit Paul, docent of the Indianapolis Museum of Art will speak on "Japan: Its Art and Its People." The guest speaker is a frequent world traveler who will augment his talk with slides of Japanese art.

Reservations should be called into officers prior to Tuesday, April 20. Here's where to call: Victor Risch, president, (317) 787-1658; Tom Wilhoite, vice president, 251-1749; and James Phelps, secretary-treasurer, 257-3201 (business).

Murdoch, who has been in admissions work at Rose-Hulman since 1963, cites the improvement in the economy, the high national placement figures for engineering and science (Rose-Hulman has maintained 100 percent placement of its graduates even during the recession), and a substantial increase in out-of-state inquiries for application as the three reasons for the upswing in admissions at the college of 1,050 enrollment.

Each year the Rose-Hulman freshman class is one of the most highly-qualified academically of any entering class in the Midwest as measured by three common yardsticks used by admissions officers — class rank, achievement as determined by college entrance test scores, and the number recognized as National Merit Scholars.

The middle man typically ranks in the upper six percent of his high school graduating class. This year 10 percent of the incoming class will be National Merit Winners.

### Pacers Youth Camp Scheduled July 18-23

The 1976 Indiana Pacers Basketball Fundamentals Camp under the direction of full time camp director Billy Keller will be staged on the campus of Rose-Hulman the week of July 18-23.

Boys who have completed grades three through 11 are eligible to attend the camp which is structured to teach fundamentals to boys of the various age groups.

In addition to Keller, who has a good rapport with youth, other Pacers who will make appearances to instruct their specialties are Coach Bob Leonard and players Charles Jordan, Don Buse, Darnell Hillman and Mike Flynn. Hillman is quite a spectacle to a wide eyed boy when he slaps his number 16 or whatever size basketball shoe up on the glass in his demonstration on how to get up on the board for rebounds.

All-inclusive cost for the camp is \$135 for live-in campers and \$85 for day-campers. A \$50 deposit is required. For further information please contact Indiana Pacers Basketball Camp (317) 797-2700.



**WHO'S WHO** - Twenty-two Rose-Hulman students have been named to the 1975-76 edition of Who's Who Among Students in American Universities and Colleges, an annual publication which recognizes the nation's outstanding campus leaders. Seated (left to right) are Gerald D. Matthews, Michael A. Passafiume, Bruce Dougan, Gregory D. Brown, Keith A. Stelzer, Mark L. Ress, Michael J. Cherbak, Robert

D. Carter, Neil Quellhorst, and James W. Gidcumb. Standing (left to right) are Peter N. Deal, Jeff Shanks, Robert Franklin, Michael Baumann, Gilbert S. Hodge, Robert B. Hildbrand, Pat Noyes, Keith Spindler, Allen J. Ruszkowski, Vince Lambert, David Mellor and Dr. Jess R. Lucas, acting dean of student affairs. Absent from the photograph was Randy Ridgway.



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# ECHOES



# ECHOES

Rose-Hulman Institute of Technology

**Thank You,  
Dr. Logan**

**April 24, 1976**

**7:30 p.m.**

**May 2, 1976**

**5 p.m.**