

Fall 1975

Volume XIV - Issue 2 - Fall, 1975

Echoes Staff

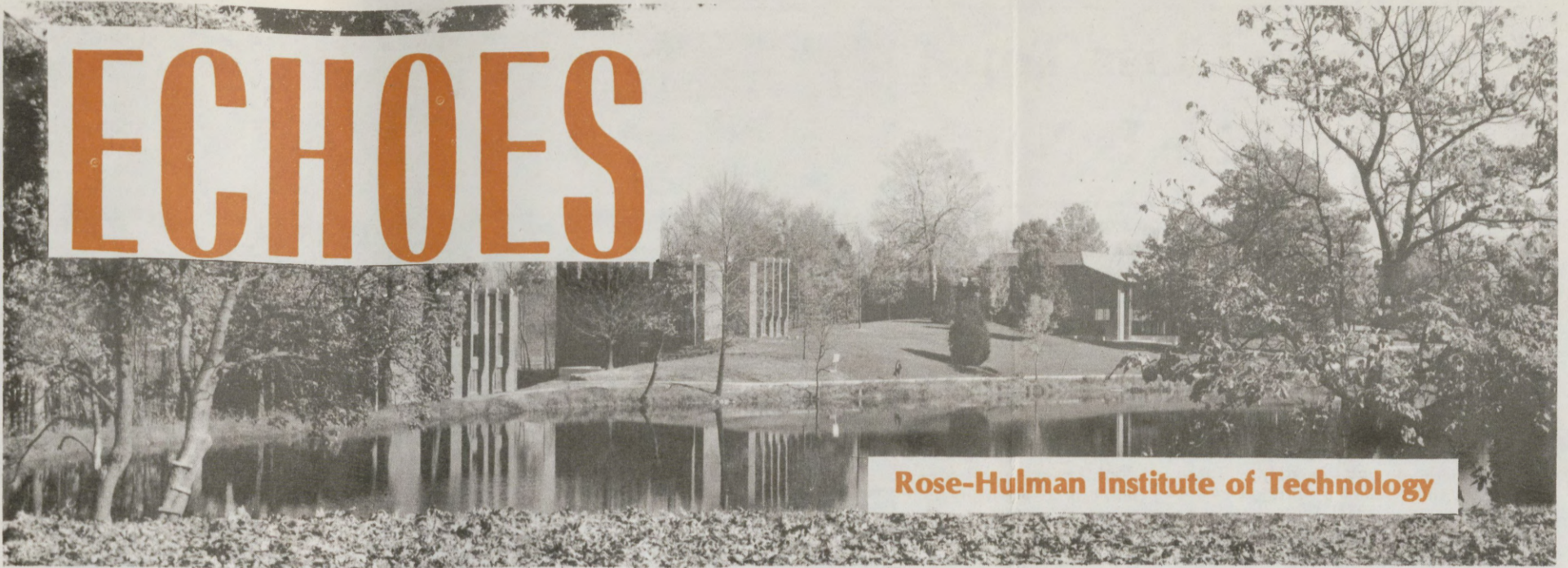
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ECHOES



Rose-Hulman Institute of Technology

Terre Haute, Indiana

Fall 1975

Vol. XIV, No. 2

Hulbert Named 11th President

Rose-Hulman Welcomes 14 New Faculty

Rose-Hulman welcomed 14 new members of the faculty and administration as school opened for the 1975-76 academic year.

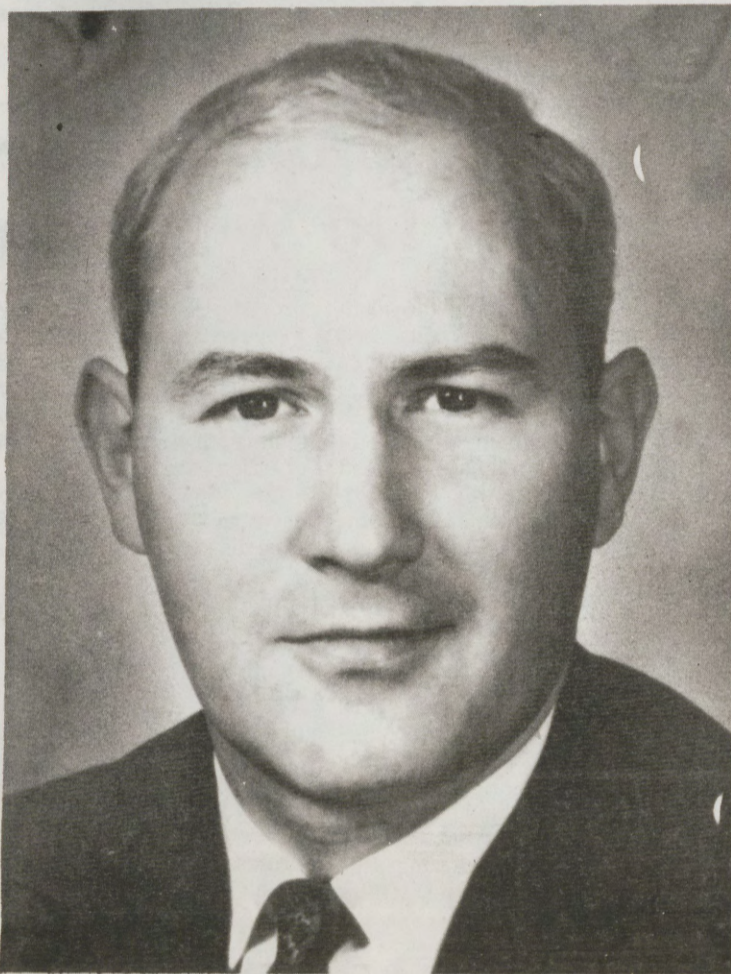
Listed by department, they include:

Chemistry—Dr. Peter F. Method, assistant professor of chemistry. A graduate of Marian College in 1965, Dr. Method was awarded the Ph. D. in chemistry at West Virginia University in 1973 and since has been a post-doctoral fellow and teacher at the University of Kentucky.

Civil Engineering—Dr. Martin J. Thomas, assistant professor of environmental engineering. Dr. Thomas received his B.S., M.S. and Ph. D. at the University of Notre Dame in 1968, 1970 and 1975 respectively. Having previously taught at Notre Dame, he will teach courses required for Rose-Hulman's environmental engineering option.

Humanities, Social and Life Sciences—Dr. Patricia Ann Carlson, assistant professor of American Literature. Dr. Carlson received her A.B. in English from the College of William and Mary in 1968, and earned the M.A. and Ph. D. at Duke University in 1969 and 1973 respectively. Having been selected to serve as a Fulbright-Hays lecturer at the University of Iceland from January to June

Completed on Page 2



DR. SAMUEL F. HULBERT

Voluntary \$ Support

Voluntary gift income received by Rose-Hulman Institute of Technology during the fiscal year ended Aug. 31, 1975 amounted to \$973,354 — second highest figure in the history of the school.

Ronald G. Reeves, vice president of development and public affairs, reports that 48 percent of the alumni contributed \$146,720 to Rose-Hulman in a variety of gift programs.

The 48 percent participation should rank Rose-Hulman among the top 20 to 30 colleges and universities on the percentage of alumni giving.

Binford Elected Board Chairman

Thomas W. Binford, Indianapolis business and civic leader and sports executive, was elected chairman of the Board of Managers of Rose-Hulman during the board's annual meeting Friday, Oct. 3.

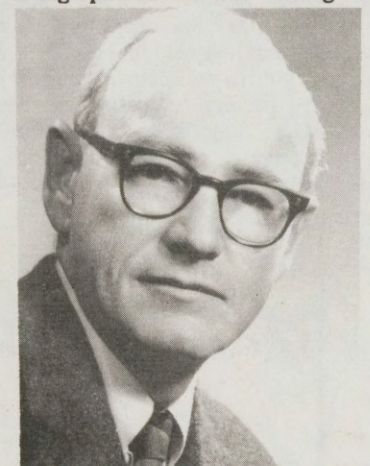
Binford, a member of the board since 1969, replaces Benjamin G. Cox, Terre Haute attorney who has served as chairman since 1968. Cox was named a life member of the board in 1951.

Maynard C. Wheeler, Terre Haute, formerly chairman of the board of Commercial Solvents Corporation, was elected vice chairman of the board, replacing Carl E. Ehrenhardt, vice president of Winslow Scale Company, Terre Haute.

James C. Skinner, chairman of the board of Thomas and Skinner, Inc. of Indianapolis, and Marshall T. Hubbard, president of Weston Paper and Manufacturing Company of Terre Haute, were re-elected to the board

posts of secretary and treasurer respectively.

Cox, who has provided outstanding leadership to the Board of Managers during the most exciting period of the college's



Thomas W. Binford development, was honored by the board on the occasion.

Officers of the board were in-

structed to prepare a resolution citing his contributions. He also received a gift of pewter and crystal and the traditional chair which is given to the retiring chairman of the board.

Former board chairman Richard F. Bergmann, Terre Haute, and Henry Y. Offutt, Louisville, officiated at the salute to Cox.

Following a motion by the honors committee and unanimous approval by the board as a whole, the retiring chairman was nominated to receive an honorary doctorate at the 98th commencement.

Cox received his baccalaureate degree in engineering at the University of Michigan, where he was an honors scholar of Tau Beta Pi distinction. He continued his studies in law at Michigan and for a number of years has been senior partner in the Terre Haute law firm of Cox, Zwerner, Gambill and Sullivan.

Tulane Engineering Dean To Take Reins In September, 1976

Dr. Samuel F. Hulbert, dean of the school of engineering at Tulane University, has been named the eleventh president of Rose-Hulman Institute of Technology.

The announcement was made by Benjamin G. Cox, chairman of the board of managers and head of the presidential search committee, following a vote of confirmation by the board at its annual meeting Friday, Oct. 3.

Dr. Hulbert, 39, succeeds Dr. John A. Logan, who will retire August 31, 1976, following 14 years as president.

In making the announcement, Cox said, "Dr. Hulbert meets a real challenge in following in the footsteps of Dr. Logan in view of the substantial contributions Dr. Logan has made in the development and stature of Rose-Hulman."

"We are indeed fortunate in Dr. Hulbert's coming inasmuch as his career to date and outstanding accomplishments in a relatively short period of time indicate that he will serve with distinction. He is most enthused with the Terre Haute community and the impression it has made on him, and is looking forward to becoming an integral part of the community."

Dr. Hulbert, who has been dean at Tulane since July, 1973, is an internationally-recognized authority on the engineering aspects of developing artificial body parts and the use of plastics and ceramics as implant materials for replacement of bone and teeth.

Dr. Hulbert has the distinction of holding two professorial appointments at Tulane. He is professor of bioengineering in the School of Engineering and serves as an adjunct professor of biomaterials in the Department of Surgery of the School of Medicine.

A native of Adams Center, New York, he received a bachelor of science degree in ceramic engineering at Alfred University in 1958. He earned a doctor of philosophy degree in ceramic science from Alfred in 1964, where he served as an instructor in mathematics and physics from 1960 to 1964.

Following completion of the Ph. D., Dr. Hulbert moved to Clemson University where he received international acclaim for his research involving the application of ceramics engineering in the fields of orthopedics and dentistry.

Rising from assistant professor of ceramic and metallurgical engineering to associate dean for engineering research and interdisciplinary studies in a period of six years,

Dr. Hulbert helped to develop one of the largest and best equipped bioengineering programs in the country.

In 1971 Dr. Hulbert was awarded medals by three Italian medical groups for his research. Two of the medals—one from the Italian Orthopedic Society and the other from the Rizzoli Institute—were given in recognition of Dr. Hulbert's contributions to orthopedic research. The third medal, given by the Bologna Medical Society, recognized outstanding contributions to the general field of medicine.

Dr. Hulbert also has been involved in research to develop materials for a glass packaging container which could be easily processed to dissolve in water after use, thus removing a major source of solid waste pollution.

A registered professional engineer in South Carolina and Louisiana, he not only has been an active researcher and consultant, but has published more than 175 articles on his work.

His consulting has been done for the Air Force Material Laboratory, Environmental Protection Agency, U.S. Public Health Service, National Institute of Dental Research, Arthur D. Little Company, Allied Chemical Corporation, General Atomic Company and a number of medical colleges.

Dr. Hulbert's research has been done under the auspices of the U.S. Navy, National Institute of Health, National Science Foundation and private corporations.

Dr. Hulbert is a member of a number of scientific, professional and educational societies, including the American Ceramic Society, American Society for Engineering Education, American Society for Mechanical Engineers (Material Division's Biomaterial Committee), Association for the Advancement of Medical Instrumentation, Society for Biomaterials, American Society of Artificial Internal Organs and the Biomedical Engineering Society.

Completed on Page 4

Freshman Class Tops; So What Else Is New?

Each year between 300 and 325 young men who have demonstrated superior academic capabilities in high school matriculate to Rose-Hulman as new freshmen.

On paper, they are the most highly-qualified academically of any entering freshman class in the Midwest as measured by three common yardsticks used by admissions officers—class rank, achievement as determined by the Scholastic Aptitude Test (SAT) and American College Testing (ACCT) scores, the number recognized as National Merit Scholars.

According to statistics compiled by Duncan C. Murdoch, dean of admissions, the middle man entering Rose-Hulman in 1975 ranked at the 93rd percentile of his high school class and achieved a score of approximately 1200 on the SAT. Although his strength was in mathematics where he scored a 640, he also was among the top 20 percent of all students on the verbal portion of the test, an oftentimes overlooked strength common to students of engineering or science at Rose-Hulman.

CLASS RANK DISTRIBUTION

Rank by Fifths	Percent Enrolled
1	83%
2	13%
3	3.6%
4	0.3%
5	0%

The class is represented by members from 18 states, Switzerland, Israel and China. Two hundred thirteen, or 71 percent of the class, came from Indiana. Thirty-one matriculated from Illinois, while Ohio and Kentucky were the home states of 19 and seven students respectively.

A breakdown of freshman enrollment from the major metropolitan areas of Indiana included: Greater Indianapolis, 41; Terre Haute, 31; Lake County, 19; South Bend, 13; Evansville, 12; and Fort Wayne, 8. One hundred ninety-one, or 89 percent of the Indiana freshmen, won the Indiana State Commission Scholarship. Murdoch notes that those who did not win the award would have if they had applied for it.

The Rose-Hulman man is more than a bright student who has achieved high grades. For instance, 55 percent of those entering as freshmen participated in a varsity sport; 47 received special recognition. Participation included baseball (42), tennis (18), and rifle (4).

Sixty were in Scouting, with 18 achieving the rank of Eagle; 33 attended Boy's State and 28 were either president or vice president of their class. Other activities included band (7), vocal music (26), debate (19), publications (32), and student council (39).

SAT DISTRIBUTION

SAT Range	Verbal	Math
750-800	1%	12%
700-749	1%	15%
650-699	8%	20%
600-649	13%	27%
550-599	19%	19%
500-549	22%	7%
450-499	18%	0%
400-449	15%	0%
Below 400	3%	0%

While the entering freshman class was down some 10 members in number from 1974 and the class rank median slipped from last year's record 94th percentile, the class has a record percentage of members who received National Merit recognition.

In National Merit competition, 13 were Merit Scholars, 17 were finalists, six were semifinalists and 35 were commended scholars. In all, 67 men, or 22 percent of the class, were recognized by National Merit.

Prior success also is important when admitting students for a program such as that at Rose-Hulman. Twenty-three men ranked first in their high school graduating class; seven ranked second, and 15 ranked third. Thus, 45 freshmen, or 15 percent of the class, ranked in the top three positions of their high school class.

... A Liberal Education

Perhaps Rose-Hulman's most unique educational affiliation is its membership in the 18-college Continuing Conference of the Liberal Arts sponsored by Lilly Endowment, Inc.

Rose-Hulman is the only engineering college in the group and has the added distinction of being the only school for men.

Recently Dr. William B. Pickett, assistant professor of history, and students Randy Ridgway, Frankfort, and Gerry Dail, Indianapolis, represented the school at a CCLA symposium entitled "Where Have All the Heroes Gone?"

The three-day workshop discussed the psychological aspects of the hero, the hero role of the computer, and the hero in education.



Members of the faculty at Rose-Hulman are shown during the retreat at the Hulman's Lingen Lodge across from campus. Discussing the future of the Institute (left to right) are Professors Granvil Kyker, P.D. "Dave" Smith, Sam Hite, Frank Guthrie, Henry Winton and Gary Sherman.

Faculty and Staff Retreat Studies 'Where Do We Go From Here?'

As Rose-Hulman Institute of Technology celebrated the 100th anniversary of its founding last year, it did so with a great deal of pride in its accomplishments.

Some of the biggest strides have been made in the last 10 years as the Institute has doubled its enrollment to the optimum size of 1,050 students and completed an extensive building program to provide facilities required to accomplish its stated mission.

To be sure, Rose-Hulman is in good shape as it starts its second century, but it deserves to be better. Thus, the obvious question today is: "Where Do We Go From Here?"

This is not the kind of question one man can answer. So Dr. Herbert R. Bailey, acting vice president for academic affairs and dean of the faculty, polled faculty and staff in August to see what suggestions the group closest to the scene might have concerning the future of the Institute.

He asked participants to rate 20 items as to 1) the present status; 2) recent trend; and 3) relative importance in the overall operation of the school.

The 20 items were social development of students, physical fitness of students, faculty and staff development, salaries, fringe benefits, quality of instruction, admissions, alumni relations, community relations, national image, existing financial resources, development of financial resources, physical plant, student placement, academic support equipment, continuing education programs, graduate program, work loads of faculty and staff, personal work loads of faculty and staff, and student attrition.

After the 20 items had been ranked according to importance, the faculty and staff then held a retreat at Hulman's Lingen Lodge during orientation week for the purpose of discussing three items. The results of the poll indicated that the academic portion of the program at Rose-Hulman is in very good shape, but that the areas of social development of students, faculty and staff development and admissions should be given further study.

Groups from five to 10 members were selected at random to discuss one of the three topics. Three groups used a stan-

dard small group conference procedure (the Nominal Group Process) which provides for a common form of output, while the balance employed what may best be described as a "bull session with some very serious questions and suggestions."

Dr. A.T. Roper, who is devoting a major portion of his time during the 1975-76 academic

year to the development of Rose-Hulman's Center for Technology Assessment and Policy Studies, reported on the results of the retreat in a 25-page document.

In the area of social development of students, the most often mentioned suggestion was that of creating ways to encourage par-

Completed on Page 6

14 Join Faculty & Staff

(Cont. from Pg. 1)

of 1976, she formerly taught at the United States Naval Academy.

Dr. Robert S. Lapiner will serve as visiting assistant professor of English. A graduate of the University of California at Los Angeles in 1969, he earned the M.A. and Ph. D. in English and American Literature at Harvard University where he was a teaching fellow in English and expository writing from 1971-73 and 1974-75.

Mathematics—Dr. Roger G. Lautzenheiser, assistant professor of mathematics. Dr. Lautzenheiser holds the B.A., M.A. and Ph. D. in mathematics from Indiana University and prior to joining Rose-Hulman was an instructor of mathematics at California Institute of Technology for two years.

Physics—Dr. Granvil C. Kyker, Jr., visiting professor of physics. Dr. Kyker earned a Sc. B. in physics at Brown University in 1959 and continued his studies at Duke University where he completed the Ph. D. in 1964. He since has taught at Duke and Oakland universities.

Military Science—Maj. Ronald Schwachenwald and captains Asa P. Smith and Kevin Byrnes join the faculty in military science. Maj. Schwachenwald, a 1972 graduate of the University of

Tampa, comes to Rose-Hulman following a command assignment in Germany and is assigned as an associate professor. Assistant professors Smith and Byrnes are graduates of Bowdoin College (1965) and Park College (1975) respectively. Smith also holds an M.A. from Columbia University (1967).

Athletics—James F. Rendel, assistant professor of physical education and director of intramural athletics. Rendel earned a B.A. from Earlham College in 1961 and an M.S. from Indiana State University in 1965. He formerly taught physical education and was head baseball coach at ISU.

General Staff—Michael D. and Lucy B. Samara joined Rose-Hulman as co-directors of residence halls and Hulman Memorial Union. Samara holds the B.A. (1970) and M. Ed. (1972) from the University of New Hampshire where both worked in student personnel, dormitory and union positions. Mrs. Samara completed both a B.A. and B.S. from New Hampshire earlier this year.

William Swift, a 1975 mechanical engineering graduate of Rose-Hulman, will work in the admissions department until February when he will begin flight training with the United States Navy with aspirations of continuing in the U.S. astronaut program.

1975-76 CALENDAR

FALL TERM 1975-76

Sept. 2-6	Tues.-Sat.	Freshman Orientation
Sept. 5	Friday	Registration
Sept. 8	Monday	Classes Begin - 8:05 a.m.
Oct. 4	Saturday	Homecoming
Oct. 11	Saturday	Midterm progress reports due
Oct. 15	Wednesday	Fall Honors Convocation
Nov. 17	Monday	Final examinations begin
Nov. 22	Saturday	Fall Term ends

WINTER TERM 1975-76

Dec. 1	Monday	Classes begin - 8:05 a.m.
Dec. 20	Saturday	Christmas Vacation begins

1976

Jan. 5	Monday	Classes resume - 8:05 a.m.
Jan. 17	Saturday	Midterm progress reports due
Feb. 23	Monday	Final examinations begin
Feb. 28	Saturday	Winter term ends

SPRING TERM 1975-76

March 8	Monday	Classes begin - 8:05 a.m.
April 1-3	Thurs.-Sat.	Bicentennial conference
		"Technology at the Turning Point"
April 10	Saturday	Midterm progress reports due
April 24	Saturday	Parents' Day
May 17	Monday	Final Examinations begin
May 21	Friday	Commencement

ECHOES

Rose-Hulman Institute of Technology

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R & R for the Academe

Faculty Summer Activities Include Papers, Polymers and Barns(?)

The faculty and staff at Rose-Hulman were kept busy over the summer. Their activities included a number of symposiums and conferences, research, paper presentations and classes, and much-needed vacations. One hardy member moved a barn.

A typical, hard-working summer was spent by **Herbert Bailey**, newly appointed acting vice president for academic affairs and dean of the faculty. He attended the ASEE meeting in Fort Collins, Colo., and taught mathematics at Rose-Hulman's summer institute.

Ben Benjaminov, chemistry, spent a week at Oak Ridge National Laboratory consulting on problems and projects of mutual interest and attended the 24th National Organic Chemistry Symposium at Colorado State University. After a vacation in Vero Beach, Fla., Dr. Benjaminov visited with Dr. Calvin A. VanderWerf, dean of the school of liberal arts and sciences at the University of Florida in Gainesville. VanderWerf delivered the 1966 commencement address at Rose-Hulman and received an honorary degree.

Warren Bowden, chemical engineering, returned from his leave which was spent with Dow Chemical Company in Midland, Mich. He worked for the Process Development Division on such separation processes as liquid extraction, crystallization, distillation and stripping. He reports that he came in contact with "some very imaginative uses of technology in a dynamic division of the fastest growing chemical company in the country."

Jerry Caskey, chemical engineering, continued his research on a grant awarded to Rose-Hulman by the National Science Foundation to study a more effective polymer to be used in removing suspended material from wastewaters. Last summer a lab was set up; this summer the polymers were made and characterized. **Dane Clark**, a rising senior chemical engineer, spent the summer working on the project with Dr. Caskey. The project has drawn the attention of other people working in this field including Calgon Corporation and Kurita Water Industries of Tokyo, Japan.

Darrell Criss, electrical engineering and computer science, worked on a study of ground monitor units at the Peabody Coal Company. The study was not completed, and another contract extending the project into the design of a new unit is possible. He also attended to his gardening, fishing and reading as well as traveling to Kentucky and Illinois to visit with his older children and grandchildren.

Don Dekker, mechanical engineering, attended the ASEE convention in Fort Collins, Colo., and continued on to California where he and Sherry introduced their new son, Darren, to their West Coast friends. Meanwhile back at the ranch, their new vineyard really began to take shape.

Cal Dyer is riding the circuit as acting director of the Collegiate Consortium of Western Indiana. His goal, of course, is to attain better cooperation and interchange between six institutions of higher learning in the area—Rose-Hulman, Indiana State, St. Mary-of-the-Woods, Ivy Tech, DePauw and Wabash. His labors are bearing fruit almost every day with innovations such as cross registration, faculty exchange, computer parts pools, etc. Although on leave as chairman of the "hum-m-m" department, he still keeps close tabs on Rose-Hulman.



Professors Noel Moore and Jack Derry, admissions chief Duncan Murdoch and another unidentified staff member "float" into the 1975-76 academic year during the Dean's Annual Gathering at Hulmans' Lingen Lodge during Orientation Week. Others were occupied by other activities at poolside.

Darrel Gibson, mechanical engineering, attended the ASEE meeting in Fort Collins, Colo., where he was chairman of an engineering acoustics session. He was also guest of the Chicago Bridge and Iron Company and visited their Kankakee, Ill., facility and the Galesburg, Ill., nuclear power plant under construction. Dr. Gibson feels it is very beneficial to see first hand the type of work situations Rose-Hulman graduates are entering.

Ralph Grimaldi, mathematics, put together the results of his research in torsion free module theory over the summer. He plans to submit a paper based on this material to the Rocky Mountain Journal by October. The rest of his summer was spent traveling throughout New Mexico and Colorado and playing tennis on the Rose courts.

Frank Guthrie, chemistry, was quite active with the American Chemical Society (ACS). At the ACS national meeting in Chicago he served on a sub-committee for the Division of Chemical Education on "Training of Graduate Teaching Assistants." He was re-elected to a two-year term as Secretary of the ACS Division of Analytical Chemistry, and represented this division at a Division Officers Conference and at a dinner for division officers and ACS board of directors. Still active in Scouting, he completed the 'academic' part of the Wood Badge course and gave a sermon at church during the vacation of his minister.

Tom Haigh, mathematics, attended the Michigan State Spring Conference on "Functional Analysis and Non-linear Differential Equations" and the NSF-CBMS Regional Conference on "The Stability of Dynamical Systems: Theory and Applications" at Mississippi State University. At Bowling Green State University in Ohio, Dr. Haigh gave a seminar on "applications of Alternative Problems of Ordinary Differential Equations." He ended his summer with a bicycle trip from Madison to LaCross, Wis., and back.

Irvin Hooper, mechanical engineering, attended the ASEE meeting in Fort Collins, Colo., and a one-week session on "Solar Energy" at UCLA. He also spent considerable time in behalf of the

ASME arranging programs—the Joint Power Generation Conference to be held in Portland, Ore., Sept. 28-Oct 1 and the Winter Annual Meeting to be held in Houston, Texas, at the end of November.

Caye Hudson, humanities, social and life sciences, attended an institute on the "Evolving Images of Man in East Asia" held at Earlham College and sponsored by the Great Lakes Colleges Association and the East Asian Studies program of Indiana University. She also attended a "Futurology Institute" at the College of Mount St. Joseph in Cincinnati dealing with critical, social, political, and economic issues of America's future. The institute was held in conjunction with a workshop for Bicentennial planners.

Terry Ishihara, civil and mechanical engineering, took his family to Stockton, Cal., to celebrate his parents' 50th wedding anniversary. During the remainder of the summer he worked for Gould, Inc., under a NSF Faculty Research Participation Program, in Mendota Heights, Minn. Dr. Ishihara worked on the electric vehicle project and particularly on the postal van of which 350 have been ordered by the U.S. Postal Service. His task was to offer recommendations for improving the mechanical efficiency of the drive system and prepared two final company reports as a result of his investigations.

Paul Mason, physics, attended the American Association of Physics Teachers summer meeting at Boulder, Colo. After the meeting he took the opportunity to see a bit of Colorado.

Tom Mason, humanities, social and life sciences, served as associate director at the Center for Technology Assessment and Policy Studies. His projects included "Economic Analysis of Interactive TV for Higher Education in West Central Indiana" and "An Approach to Policy Formulation: Sulfur Oxide Emissions in Indiana." He also attended the Lilly Continuing Conference for the Liberal Arts at Hilton Head, S.C., and worked on "Technology at the Turning Point" conference. At the International Conference on Urban Housing and Transportation in Detroit, Dr. Mason presented a

paper, "Transportation, Technology Assessment and the Moderate-Sized City."

Peter F. Method, chemistry, spent most of the summer completing projects at the University of Kentucky in preparation for his move to Rose-Hulman. In May he attended the Central Regional meeting of the ACS participating in a half-day session on the Use of Computers in Chemical Education.

Mike Moloney, physics, attended the American Association of Physics Teachers annual meeting in Boulder, Colo. Later he spent three weeks at a workshop writing calculus-based-physics modules. The remainder of the summer was spent working at the Crane Naval Weapons Support Center.

Peter Parshall, humanities, social and life sciences, finally got a real vacation with his family. They borrowed a window van and a camper-trailer from friends and made the circle tour around Lake Superior. Dr. Parshall reports that "a very large, furry garbage collector who made his rounds at 4 a.m. made the camping trip eventful."

Peter Priest, humanities, social and life sciences, had a summer that will long be remembered—a six-week tour of Russia and two additional weeks in Europe. Professor Priest was a group leader of an international study group which divided the period between Leningrad and Moscow. Although he had visited Russia in 1970, this summer's trip was a real eye-opener. Echoes will report the experiences of Professor Priest and four Rose-Hulman students in an upcoming issue.

Glen Richardson, electrical engineering, went to Fort Collins, Colo., for the ASEE convention at Colorado State University. His vacation in southwestern Colorado following the conference included a trip to Durango-Silverton narrow gauge railway.

Charles Rogers, electrical engineering, was a professional witness in a trial concerning ultrasonically induced cavitation in the human body. He also took a short course at the University of Michigan on digital instrumentation. Oh yes, Dr. Rogers was our hardy member who moved the barn.

Ted Sakano, chemistry, was a participant in a study and travel program, "The Evolution of Chemistry" sponsored by the Division of Continuing Education at Southern Illinois University at Carbondale. The study program directed by Dr. John Wotiz, Professor of Chemistry at Southern Illinois, consisted of guided travel and lectures dealing with the history of chemistry, in particular, and science in general. They visited science museums and libraries and university and industrial laboratories in England, Scotland, France, Switzerland, Czechoslovakia, West Germany, Holland and Belgium. Of course, there were many opportunities for sightseeing and shopping.

Armand Smith, mathematics, returned from Australia after a one-year leave of absence from Rose-Hulman. He taught in the mathematics department of the University of Wollongong (about 50 miles south of Sydney). During the year he travelled throughout Australia and New Zealand. His wife, Jean, also was instrumental in organizing a string music group.

Thad Smith, humanities, social and life sciences, traveled to Hilton Head, S.C., to attend the Lilly Continuing Conference for the Liberal Arts. His trip was followed by a family vacation to Williamsburg, Jamestown, Washington, D.C., Annapolis, and Gettysburg. He also attended a seminar on technology assessment at the University of Michigan and served as associate director at the Center for Technology Assessment and Policy Studies at Rose-Hulman. His research included work on a report to the Air Pollution Control Division for the Indiana State Board of Health entitled "An Approach to Policy Formulation: Sulfur Oxide Emissions in Indiana: Report D-005" with Jim Eifert, Tom Mason, and Tom Roper.

John Ying, humanities, social and life sciences, attended a program on "Recent Developments in Applied Economics" for professors of economics. Supported by a grant from the General Electric Foundation, the program was held at the University of Chicago.

Varsity/Rec Facilities Put RHIT in League It Belongs

It's a brand new ball game from the standpoint of facilities for varsity football, track and field, baseball and the entire intramural athletic program at Rose-Hulman Institute of Technology.

For a number of years the football field has been the worst the Engineers play on all season. There has persisted a not so funny story concerning the pre-game flip of the coin which says, "Forget the wind, take the

RHIT Site For Pacers' Training Camp

The Indiana Pacers of the American Basketball Association held what Coach Bobby Leonard described as a "highly successful camp" at Rose-Hulman's Shook Fieldhouse Sept. 21-30.

Leonard, a Terre Haute native and former standout for Howard Sharpe at Gerstmeyer High School, went on to be an All-America at Indiana University and a professional player in the National Basketball Association. He has been an active coach in the professional ranks for some 10 years at Chicago, Baltimore and Indianapolis.

"The facilities at Rose-Hulman are excellent," notes Leonard. "Most pro teams do move out of town for their pre-season camps, and I think our move here helped our young ball club prepare for the season. There just aren't as many distractions and Jerry (Oliver) and I have more time to work with them."

And work they did! Perhaps the "Indianapolis Star" headline described it best: "Pacers Panting; Leonard Yelling."

On the eve before the Pacers left campus, they staged an intra-squad game to give the public a preview of the new look Pacers without George McGinnis. As students who had ambled down to the fieldhouse for evening practice scrimmages had known for a week prior, the Pacers are young and hungry and full of hustle.

It was old home week for a number of those associated with the camp. New board chairman Tom Binford is president of the Pacers; Voice of the Pacers Joe McConnell formerly was sports director at a Terre Haute radio station, and favorites like Billy Keller, Darnell Hillman, Len Elmore, rookie Mike Flynn, a former Indiana Mr. Basketball fresh out of Kentucky, and others were quickly adopted as favorite sons.

It is more than a rumor that a National Football League team has been looking to Rose-Hulman as a possible site for its 1976 pre-season camp. The new Phil Brown Field and practice areas make such an arrangement possible.

Hulbert Cont. from Pg. 1

He is listed in several directories devoted to those outstanding in their field. These include "American Men of Science," "Outstanding Educators of America," "Dictionary of International Biography," "Who's Who in the South and Southwest," "Outstanding Young Men of America," and "Personalities of the South."

Other honors include membership in Keramos Honor Fraternity, Blue Key Honor Fraternity, and Sigma Xi.

Dr. Hulbert is married to the former Joy Elinore Husband who is a graduate of Alfred University where she majored in English literature. The couple has three children, Gregory, age 14; Samantha, age 13; and Jeffrey, age 7.

downhill side of the field."

There are photos of retired coach Phil Brown and the field which now bears his name at "high tide." More recently Trainer Til Panaranto has been pictured bailing water, both spring and fall.

But this is all in the past. For when the Engineers opened their home football season at Homecoming '75, Oct. 4, they were playing on a new field with a 20-inch crown instead of the crater which has existed for many years. The facility includes new wishbone style goal posts and a new scoreboard, etc.

Fans also came out winners in refurbishing of the football field through new seating for some 2,000, a scoreboard which will run four 15-minute quarters (in fact, it will tick off to 99 minutes, 59 seconds) and keep spectators informed as to other pertinent information such as what down, what yard-line, etc.

In short, the facility is now on a par with the Engineer athlete—first class!

An eight-lane all-weather track of asphalt/rubber composition surrounds the football field. Area for the jumping and weight events and the addition of a water hazard for the steeplechase give Rose-Hulman one of the best outdoor facilities in Indiana. Add to this the one-twelfth mile Tartan track in Shook Fieldhouse and one has excellent year around facilities for trackmen and those who just like to run.

The new track has a springy surface, one that appears to be somewhat softer than the sole of a basketball shoe. A workman who installed the surface described it best: "It ought to be springy . . . it's made of Hush Puppy cubes and tire tails."

In addition to the improvements to Phil Brown Field, the football practice area and intramural fields have been filled in, leveled and re-seeded. Work has been done to promote better drainage into Lost Creek. Hence, Rose-Hulman now has three 100-yard long football fields end-to-end at the north edge of the campus.

In the other varsity/intramural area adjacent to U.S. 40, Art Heff Baseball Field has been crowned and re-seeded where necessary. Again, drainage has been promoted.

The diamond has been moved out 28 feet from the backstop to make the field regulation and dugouts have been constructed. The chain link fence which separated the former football stands from the track was re-installed at Art Heff field.

Tennis also got a shot in the arm with two new Lay-Cold® courts sited on the hill adjacent to the observatory.

Commenting on the new facilities, Athletic Director John Mutchner said, "These facilities have been in the planning stages for the last three years, and a lot of different people in the Rose community have had input into the final decision."

"Every phase of the facilities for the varsity program is now in excellent condition and we have exactly what we need to conduct the type of program we have."

The heart of the \$1 million-plus project is the recreation building under construction east of Shook Fieldhouse. Linked to Shook, it will house two high school size basketball courts, two handball/squash courts, and a large multipurpose room for wrestling, karate and other activities. The basketball areas will be lined for activities such as volleyball, badminton and tennis, etc.

Locker room and shower facilities were completed prior to pre-season camp for football

and the coaching offices received a much-needed facelifting. And Til Panaranto's dream washer and dryer is a long-overdue necessity for the equipment room.

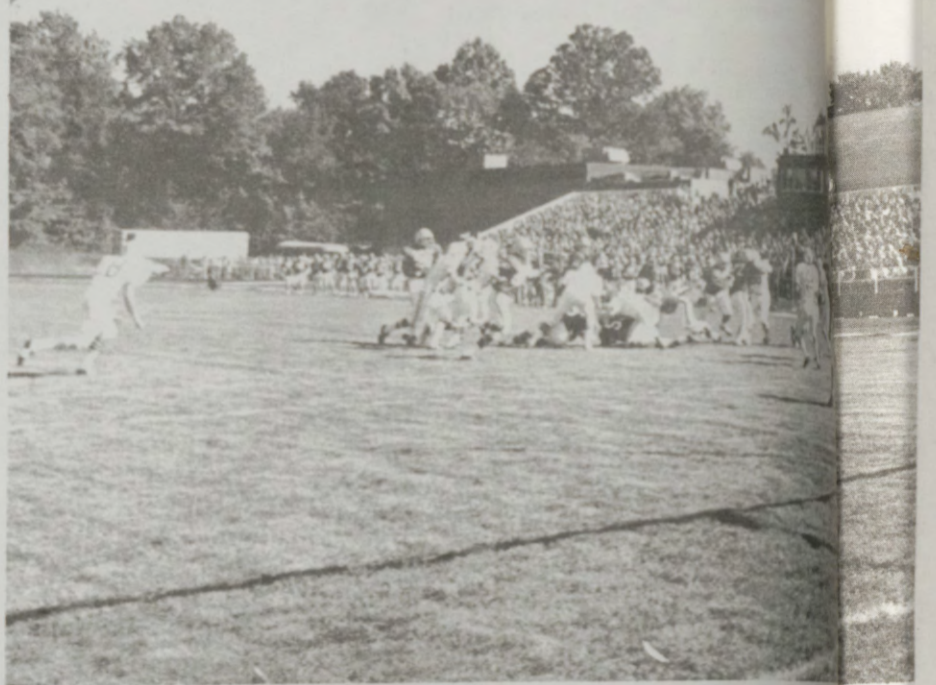
Target date for completion of the recreation center is Jan. 1, 1976. Thus, no longer will 55 intramural basketball teams and 40 volleyball teams be fighting for space in Shook Fieldhouse. Moreover, there will be ample room for free play in both the facilities from 8 a.m. to 10 p.m.

Improvement of Rose-Hulman's football, track and outdoor intramural facilities was the first major project in that area in 50 years.

Heze Clark, the college's first fulltime coach, is credited with being the driving force behind the construction of the bridge over Lost Creek which links the football/intramural area with the Main building and other parts of campus.

That was in 1923. Soon after Clark got the football field into shape and began building the cinder track—a facility which Phil Brown was to improve to the point that it was the best in western Indiana during the 1930s, '40s and early '50s when it was the site of the Rose Relays and the Wabash Valley meet for high school runners.

Shook Fieldhouse, constructed from an airplane hangar designed for a South Seas installation,



Phil Brown Field as framed by wishbone



The gymnasium portion of the Recreation Center as viewed from the east court. A multipurpose room and handball/squash court area are sited between the gymnasium and east end of Shook Fieldhouse.

was erected in 1948 and remodelled extensively in 1972 with the area's first installation of a synthetic basketball floor and one-twelfth mile indoor running track.

The capital program for the recreation center, Phil Brown Field improvements and intramural field refurbishing brings facilities up to a par with

that of sister institutions such as Wabash, Sewanee and Hanover, etc.

Yes, it's a brand new ball game.

Mutchner Issues Call for Photographs For Engineer Athletic Hall(way) of Fame

The linking of Shook Memorial Fieldhouse and the new Recreation Center has created a long corridor which Athletic Director John Mutchner plans to make the Rose-Hulman Athletic "Hall of Fame."

Specifically, Mutchner and his staff would like a team picture of every varsity athletic team in the

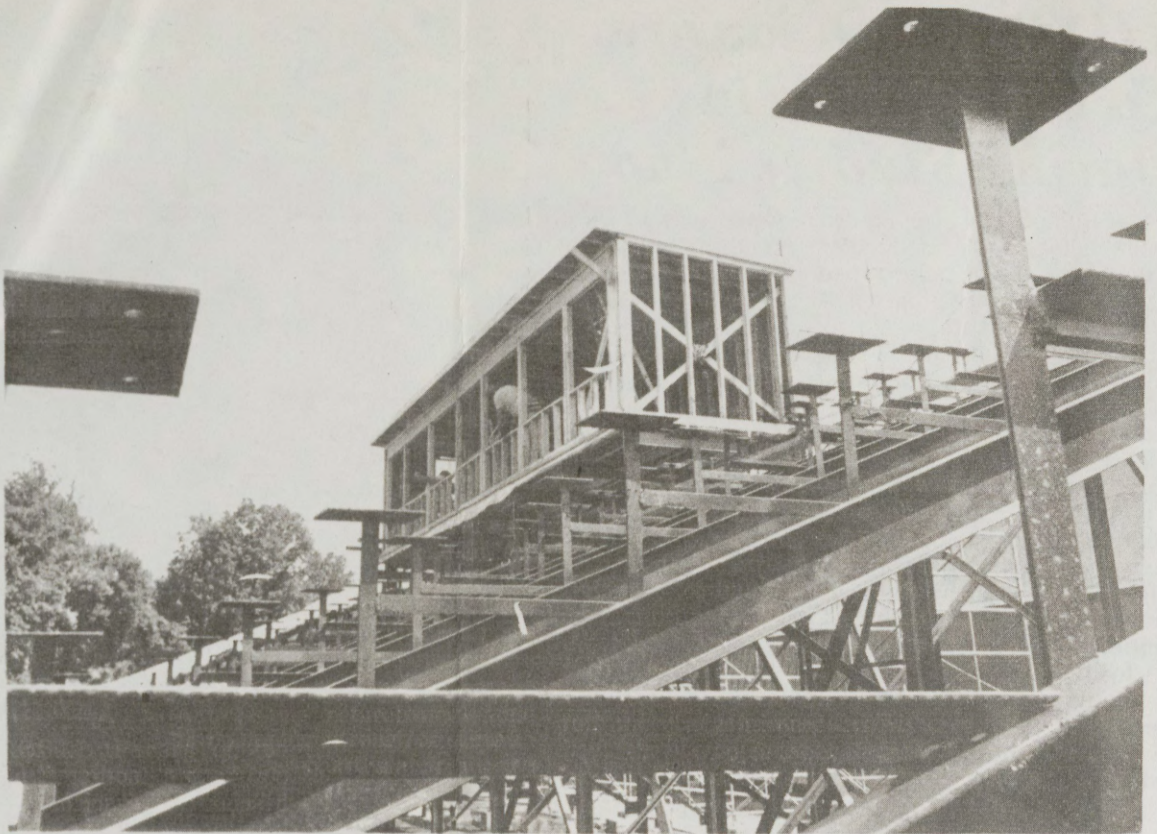
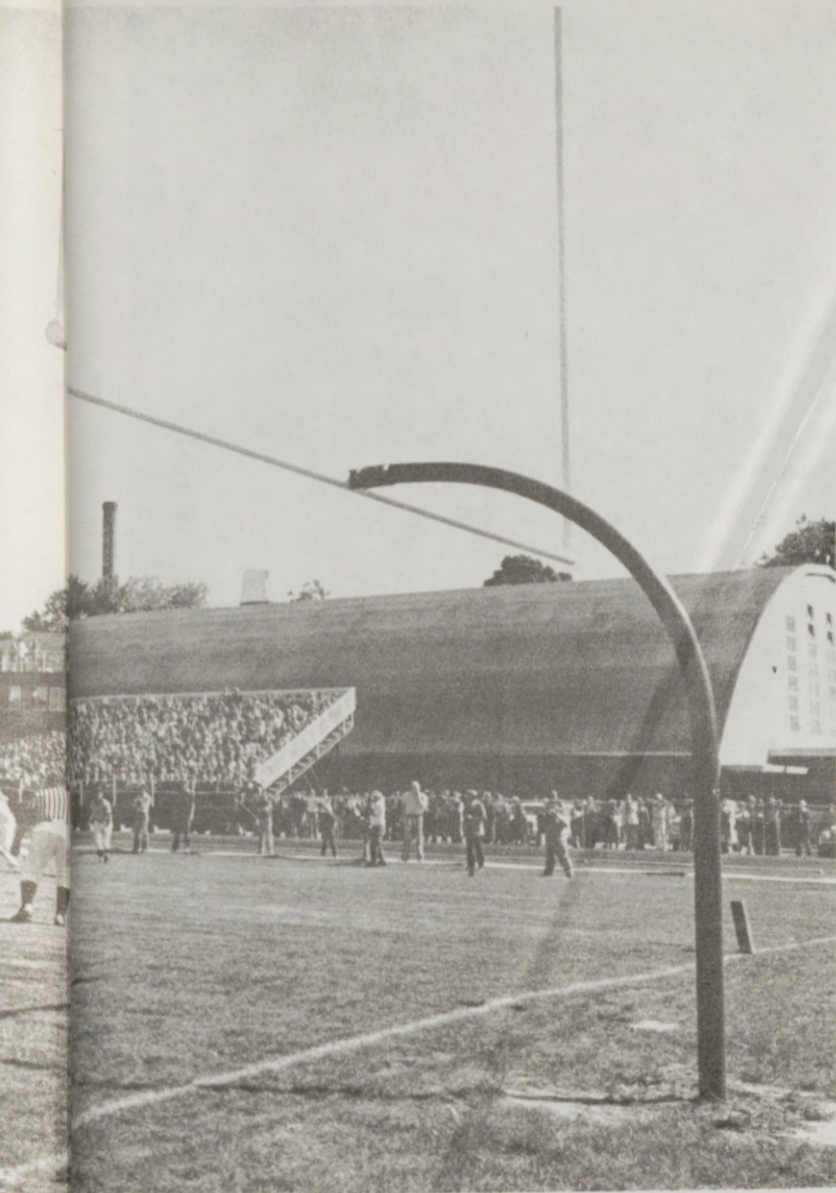
history of the school and has issued a call for photos from alumni and friends.

"We're in pretty good shape since '47 and during most of the 30's in football, but beyond that we have virtually none," notes Mutchner. "We would appreciate identification of the year and insofar as possible the names of the

players in these pictures."

Photos and other information on Rose-Hulman's athletic history should be sent to:

John T. Mutchner
Athletic Director
Rose-Hulman
Institute of Technology
Terre Haute, IN 47803



Announcers, timers, statisticians, visiting coaches, scouts, and members of the Fourth Estate will appreciate the long overdue press box.

the nine goal posts.



Trainer/equipment manager Til Panaranto threw his washboard into Lost Creek when he saw workmen move his new washer and dryer into the equipment room.



A crew from St. Louis Helicopter Airways, Inc., lowers a one-ton air control unit to the roof of the new recreation building. Placing the six units was done in 25 minutes — a "piece of cake" for the sure young workmen.



Student athlete Dennis Schultz gets in some reading in the varsity locker room. A general refurbishing and new lockers brought these facilities up to grade.

Coca-Cola It's the real thing. Coke.



Board member Robert Voges, a former Engineer football player, made sure the new scoreboard was "The Real Thing." Rumor has it that the Smithsonian is interested in purchasing the old scoreboard.

RHIT and Delaware To Participate in Marine Studies Plan

Rose-Hulman has been invited by the College of Marine Studies of the University of Delaware to participate in a joint program of benefit to both institutions.

The plan proposed by Dr. William S. Gaither, a 1956 Rose-Hulman alumnus and dean of Delaware's College of Marine Studies, is designed to attract more top quality students to the university's marine studies program and at the same time to offer Rose-Hulman students attractive undergraduate projects and graduate study opportunities.

A team of Rose-Hulman faculty members headed by Dr. Herbert R. Bailey, acting vice president for academic affairs and dean of the faculty, travelled to the University of Delaware

Sept. 26-28 to visit the Marine Studies Center and to receive briefings on the proposed program and research projects in biological, chemical, geological and physical oceanography.

Rose-Hulman faculty chosen to attend the briefing are Dr. Jerry A. Caskey, associate professor of chemical engineering; Dr. Don L. Dekker, associate professor of mechanical engineering; John H. Derry, professor of electrical engineering; Dr. Granvil G. Kyker, Jr., visiting assistant-professor of physics; Dr. A. T. Roper, professor of mechanical engineering and director of Rose-Hulman's Center for Technology Assessment and Policy Studies; and Dean Bailey.

During the weekend trip to Delaware the Rose-Hulman contingent visited engineering and geology facilities on the main campus, as well as the Marine Studies Center at Lewes where they toured facilities including closed system marine culture research and research vessels. They also were given a description of Delaware's new continental shelf research vessel and its capabilities.

Each member of Delaware's CMS faculty was invited to prepare from one to three mini-research projects which related directly to ongoing or planned research. A modest budget will be provided for use by the Rose-Hulman students to accomplish the work.

"Although the distance from the ocean will be a problem, there is much that can be done here," Dean Bailey commented on Rose-Hulman's entry into the marine studies field. "For example, sea water can be made by adding 'instant sea water' to distilled water.

"A very valuable part of this program is the opportunity for Rose-Hulman faculty and students to become involved with an outstanding research facility in the field of marine studies."

A number of recent Rose-Hulman graduates have entered the field of ocean research—described by many as the next frontier of engineering and science.

Faculty Retreat Cont. from Pg. 2

participation by more students in a wide range of events and activities outside the classroom. Suggestions ranged from planning weekend activities (trips to musicals, camping, hiking, canoeing, etc.) to teaching the social graces.

Considerable time was spent by most groups in discussion of the problems of time, organization, transportation, funding, tradition and discipline, etc. In sum, students and faculty ideally would participate in a wider range of activities on campus and in the Terre Haute community.

Primary suggestions in the area of faculty and staff development was on keeping faculty current in their respective fields. It was suggested that this could best be achieved through staging seminars on teaching methods that suit Rose-Hulman, helping faculty obtain consulting work and summer industrial experience relating to their specialties, and providing the means for more involvement in professional activities and societies, etc.

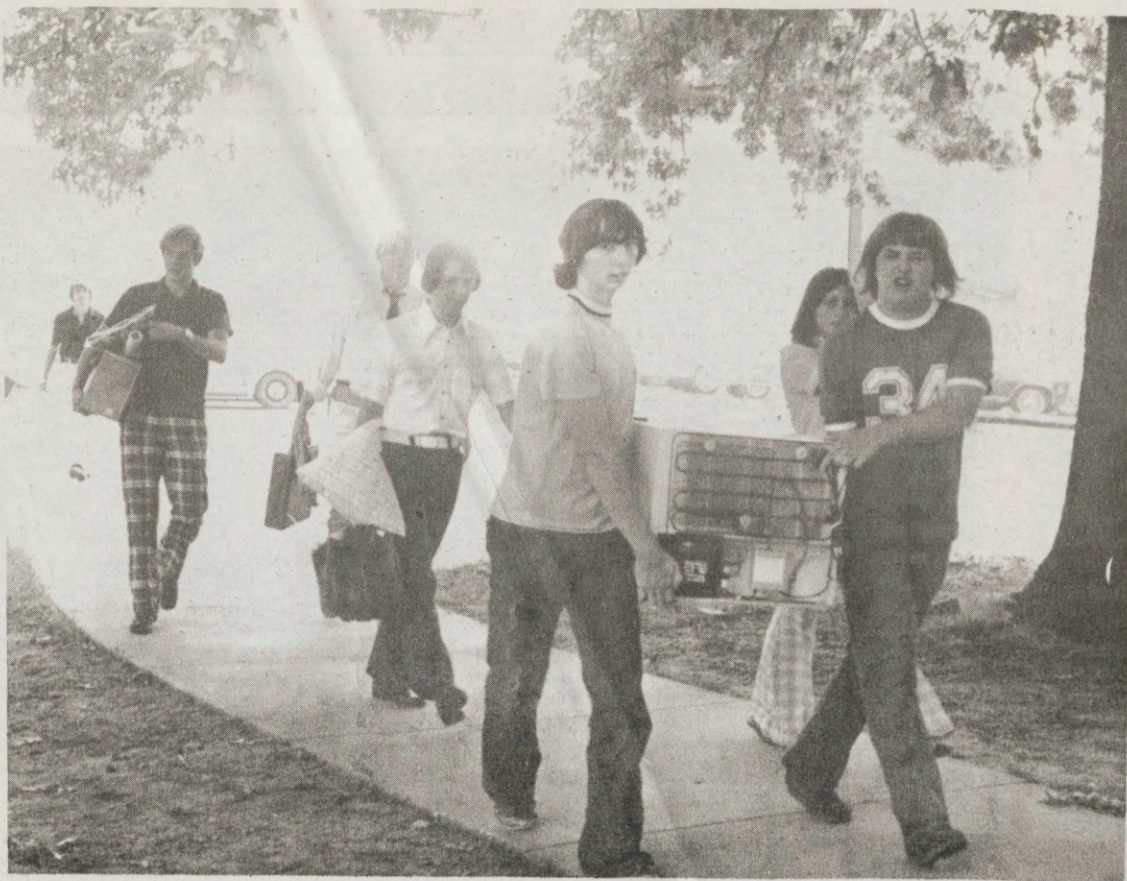
While admissions ranked comparably with alumni relations and student placement as the areas which were ranked "very good" or "good," the topic was chosen for discussion because of the critical nature of admissions to the operation of the school.

On the whole, faculty and staff favors the current operation, but would like to see the admissions department reach more qualified students with its information program (a nationwide mailing program), increase alumni participation in the admissions process, emphasize the place of an undergraduate institution in total career pattern/preparation, and involve faculty too a greater degree in the admissions program. National newspaper advertising, improved scholarship funds, mini-Catapult programs on Saturday and making Rose-Hulman a household word were suggested as vehicles for attaining broader recognition. Two persons suggested building a swimming pool.

Where do we go from here?

A number of programs which do not require funding are currently under way. Members of the faculty and staff are working on proposals for federal and private support of programs for student and faculty enrichment.

Cooperative programs with the University of Delaware, Indiana University, the Woodrow Wilson National Fellowship Foundation, Continuing Conference of the Liberal Arts, and the Collegiate Consortium of Western Indiana (Indiana State, St. Mary-of-the-Woods, Wabash, DePauw, Ivy Tech and Rose-Hulman) will provide opportunities for students and faculty alike.



Members of the freshman class are shown moving in necessary materials for a year of study at Rose-Hulman. The items included stereo systems, refrigerators, bicycles, overstuffed chairs, flags, banners, pillows, ice skates, cameras, bearskin rugs, posters, and typewriters, etc.

'Technology at the Turning Point' Theme of Bicentennial Conference

The Indiana Committee for the Humanities has provided a \$5,000 seed grant to Rose-Hulman for the purpose of carrying out a Bicentennial conference on the role of technology in American society.

The conference will concern technology both as a source of the highest standard of living that any people has ever enjoyed and as a partial cause of the problems of deteriorating environment, resource depletion, and infringement of personal freedom found in the nation on the 200th anniversary of its founding.

Entitled "Technology at the Turning Point: The Rose-Hulman Bicentennial Conference on American Technology — Past, Present and Future," the three-day conference is scheduled April 1-3, 1976 Rose-Hulman.

Dr. Melvin Kranzberg, Callaway Professor of the

History of Technology at Georgia Institute of Technology and editor of the journal "Technology and Culture," will be one of the principal speakers.

According to Dr. William B. Pickett, assistant professor of history at Rose-Hulman and co-director of the conference, the meeting also will address itself to the use of new technologies in the search for solutions to the environmental and social problems of the nation.

In addition to the general discussion of the development of technology and its implications for the future, the conference will include topics of specific interest to residents of the Wabash Valley such as coal mining, agriculture and economic development.

Co-directors of the conference are Dr. Pickett and Dr. Thomas J. Haigh, assistant professor of mathematics at Rose-Hulman. Other members of the con-

ference committee are Dr. Thomas W. Mason, associate professor of economics and acting chairman of the Division of Humanities, Social and Life Sciences; Dr. Thad D. Smith, associate professor of political science; Dr. James R. Eifert, associate professor of mechanical engineering; Dr. Patrick D. Brophy, assistant professor of psychology; Dr. Donald G. Morin, associate professor of mechanical engineering; Dr. Catherine B. Hudson, associate professor of sociology; Dr. Dennis A. Lewis, assistant professor of chemistry; Dr. John J. Kinney, associate professor of mathematics; Dr. Don L. Dekker, associate professor of mechanical engineering; Kent Harris, director of information services; and Gale E. Christianson, associate professor of history at Indiana State University.

'Salty' Seamon Holds Show at Rose

D. Omer "Salty" Seamon, Terre Haute watercolor artist whose works have won national acclaim, presented one of his most successful shows on the Rose-Hulman campus in late September and early October.

Seamon, who was commissioned to do the watercolor painting which graces the protective jacket and front end sheet of Rose-Hulman's centennial history, featured his favorite subject—the natural beauty of his native Hoosier state—in the show. One half dozen paintings of the Rose-Hulman campus were interspersed with scenes of Hoosier barns, saw mills, the lake of Deming Park in Terre Haute, the Nashville shoppes, a New Goshen homestead, and other paintings.

Born in Gibson County in 1911, his creative spark led him to take a home study course from an art school in Minneapolis, Minn., while he was still in high school. This study led to a job with Paramount Studios in that city.

He came to Terre Haute in the 1930s to become art director of a firm making 24-sheet posters. He later served three and one-half years in the army during World War II and in the early 1950s became a freelance artist.

Seamon has an insatiable appetite for work and painting Indiana and finds fulfillment of

both in the seclusion of a studio he built himself in the hilly and wooded natural setting of northern Vigo County.

The artist is a rare craftsman

who excels in design and detail. keenly interested in matters of precision and accurate depiction of details he says of painting himself, "A picture will never be

painted better than it is drawn or better than the knowledge of the subject. A picture should be painted so that others understand and enjoy it. It should function like other arts.

"I see no reason to hang a glob of color with no drawing qualities of craftsmanship and expect the public to figure out what kind of mood the artist was in when he painted it. Who cares! That's giving up skill for stunts."

Seamon completes as many as 100 watercolors per year and does many commercial jobs such as renderings of proposed buildings and related paintings.

How does he accomplish so much?

"I get up and go to work every morning just like everybody else," said Seamon. "I do things I like to do least the first thing. Like everybody else, there are things I get enthused about and things that I do not."

Seamon's workday starts at 7 a.m.; many days it does not end until midnight. "I find that I do some of my best work in the two or three hours of quiet after supper," notes Seamon.

Seamon is affiliated with the Hoosier Salon, Brown County Art Gallery Association, Indiana Artists and the Swope Gallery. As a result of receiving awards in exhibits, his watercolors hang in national and international institutions.



Watercolorist D. Omer "Salty" Seamon is shown during a reception in his honor at the opening of his show at Rose-Hulman. The painting of the wooden stairs leading to the area of the fieldhouse was one of a half-dozen campus scenes included in the show.