

Winter 1976

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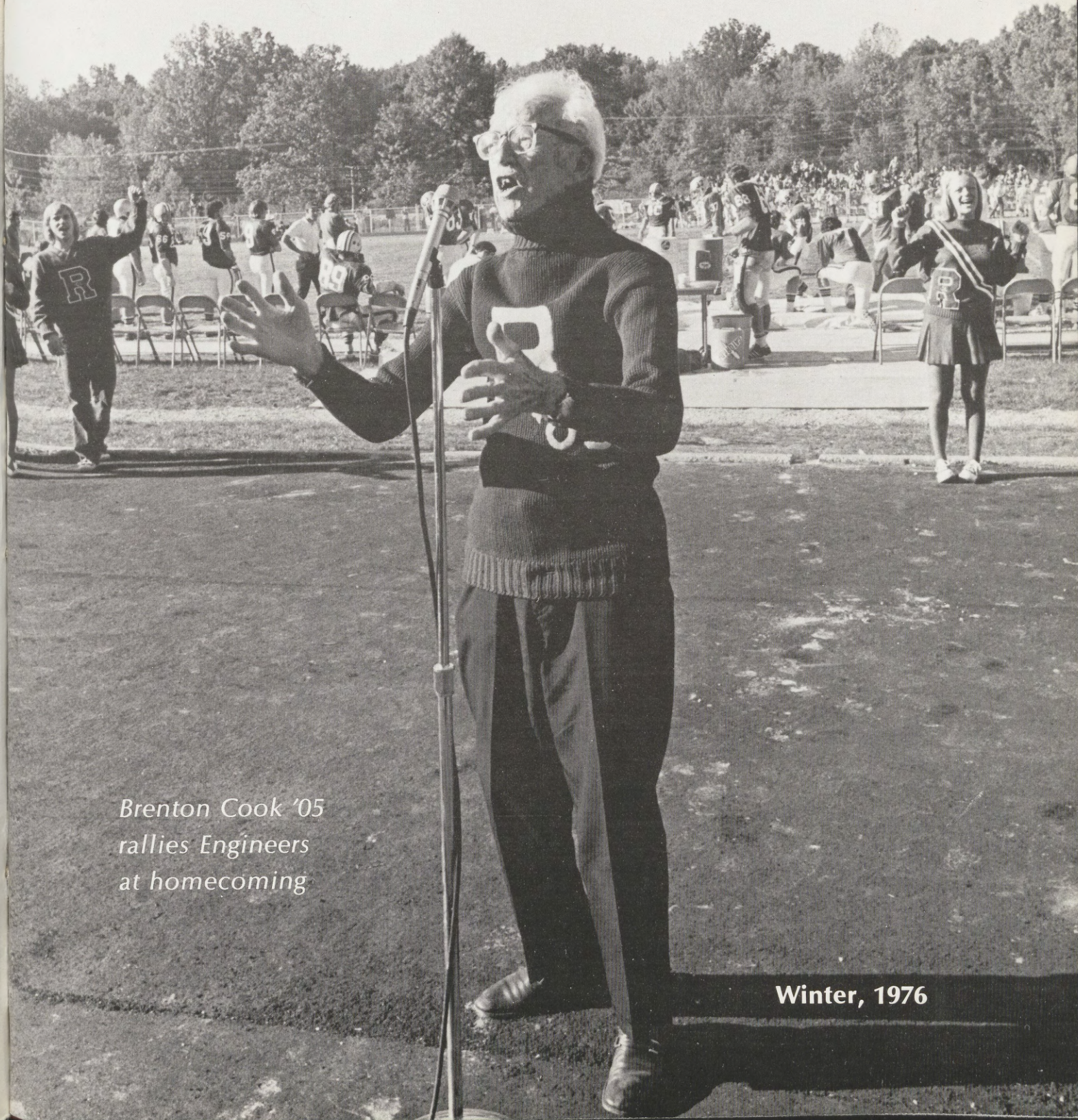
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ECHOES

Rose-Hulman Institute of Technology



*Brenton Cook '05
rallies Engineers
at homecoming*

Winter, 1976

ECHOES

ALUMNI MAGAZINE

Winter, 1976

Vol. XIV, No. 3

ROSETECH ALUMNI ASSOCIATION

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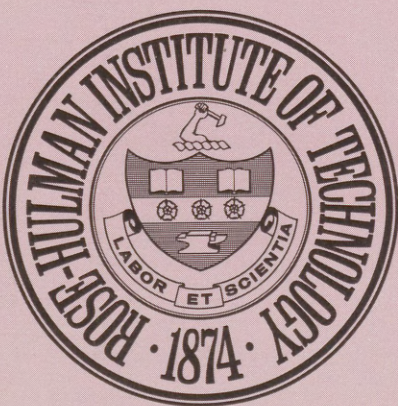
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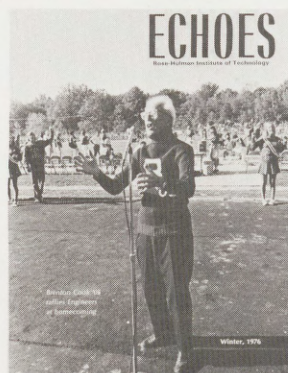
W. Kent Harris

Editor



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The Cover

C. Brenton Cook '05, sporting the letter sweater he won for playing football at Rose shortly after the turn of the century, leads the Engineer yell of his day during Homecoming '75. Cook and classmate Dudley D. Wright were back to celebrate the 70th anniversary of their graduation.

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While this issue of *Echoes* covers the period from Homecoming through the end of the Winter term, it is hoped that in addition to informing you of some of the happenings on campus it also will serve as an invitation to join Rose-Hulman in some very interesting events and programs scheduled in coming weeks.

Here are some dates you may wish to consider for inclusion on your calendar:

- April 1-3** -- Rose-Hulman's bicentennial conference on "Technology at the Turning Point." Featured speakers will be Dr. Melvin Kranzberg, the driving force in a new field of history--the history of technology; and Dr. Victor Ferkiss, the foremost authority on the future of technology.
- April 14** -- The annual Schmidt Memorial Lecture on free enterprise featuring Dr. Ben Rogge of Wabash College, a noted economist and educator.
- April 24** -- Rose Show, Parents' Day and a special Salute to Dr. John Logan. The Logan Salute is scheduled for 7:30 p.m. in Shook Fieldhouse, with students, parents and alumni cordially invited. Rumor has it that will be a fun evening with some "roasting" intermingled with a sincere "thank you, John Logan."
- May 2** -- Testimonial Dinner for Dr. Logan. The invitations which were at the printer as of this writing give all the appearance of quite a party.
- May 21** -- Commencement, or what Rose-Hulman Institute of Technology is all about. Dr. Cornelius Wandmacher, dean of engineering at the University of Cincinnati and an active force in the National Council of Engineering Examiners and the American Society for Engineering Education, will be the principal speaker.

Now back to the coverage of Winter, 1975-76. Across the Campus (2-3) reports on Dr. Logan's hosting of the presidents of the Association of Independent Engineering Colleges, the naming of Rose-Hulman board chairman Tom Binford as acting president of DePauw University, and the program of the conference on American technology. *Echoes* visits the newly created Center for Technology Assessment and Policy Studies (pages 4-7) and reports on two College Athletic Conference championships and a European cage trip (8-11). Homecoming '75 occupies the next dozen pages, including minutes of the annual RoseTech Alumni meeting and Dr. Logan's "State of the Institute" message. Alumni support in the admissions process and the class notes section complete the *Echoes*.

Rose-Hulman Hosts Annual Meeting Of Independent Engineering Colleges

Campus Notes

Rose-Hulman President Dr. John Logan was host as the most prestigious group of educators ever assembled in Terre Haute met on the campus Monday, November 10. The occasion was the annual meeting of the Association of Independent Engineering Colleges (AIEC), an organization comprised of 16 select engineering colleges.

Member institutions are California Institute of Technology, Carnegie-Mellon University, Case-Western University, Clarkson College of Technology, The Cooper Union, Drexel Institute of Technology, Harvey Mudd College, Illinois Institute of Technology, Lehigh University, Massachusetts Institute of Technology, Polytechnic Institute of New York, Rensselaer Polytechnic Institute, Rice

Tom Binford Tapped As Acting President Of DePauw University

Thomas W. Binford, recently elected chairman of the Board of Managers of Rose-Hulman, has been called upon for a most interesting interim position--acting president of DePauw University at Greencastle, Indiana.

His appointment to the position which he is to hold until a successor to Dr. William E. Kerstetter is appointed, was made Nov. 6 by Richard D. Wood, chairman of DePauw's board of trustees.

Dr. Kerstetter was appointed university chancellor in October.

Binford, who has been a member of the Rose-Hulman board since 1969, is chairman of the board of D-A Lubricant Company and a director of the Indiana National Corporation and other businesses. He also is president of the Indiana Pacers of the American Basketball Association, chief steward of the Indianapolis Motor Speedway 500-Mile race, and formerly was president of the United States Auto Club (USAC).

During his association with Rose-Hulman, Binford has been active on committees on board affairs, student affairs, and academic affairs, and during 1974-75 was chairman of the executive committee of the Board of Managers.

University, Stevens Institute of Technology, Worcester Polytechnic Institute, and Rose-Hulman.

Dr. Logan, who has served as president, secretary-treasurer and chairman of a number of committees of the AIEC during his 14-year tenure as president of Rose-Hulman, described the meeting as one of the most informative that he has attended. In fact, the 1975 meeting had such a full agenda that it was recommended that future meetings be two days in length.

The AIEC is "strictly a presidents association" which meets to discuss issues and problems central to engineering education such as enrollment, contributions of the independent schools, curricula and the future of engineering and technology.

Topics discussed at the 1975 meeting at Rose-Hulman ranged from accreditation of the master's degree to collective bargaining and relations with state educational planning agencies. In all, 16 topics appeared on the agenda.

"Topics are discussed at great depth by the presidents," explains Dr. Logan. "Discussions are kept in strictest confidence, and minutes are distributed for internal use by the member institutions."

For example, the organization opposes the move by some to make the master's degree the first accredited engineering degree.

"As an association we unanimously agree that we must whole-heartedly support continuation of certification of a professional degree at the baccalaureate degree. Industry and the marketplace back us 100 percent in this decision," said Dr. Logan, one of the spokesmen for the group.

Other presidents agreed to comment on collective bargaining and curricular matters for members of the Indiana news media.

Discussions also centered on possible improvements of design courses in engineering and relationships with foundations and the Federal Government. There also was a continuation of talks on trends in enrollment, tuition and attrition.

Ex-U.S. Ambassador To Malaysia Visits As Wilson Fellow

Jack W. Lydman, former U.S. Ambassador to Malaysia, spent the week of November 3-7 at Rose-Hulman as the school's first Woodrow Wilson Visiting Fellow.

The program, established in 1973, underwrites visits to some 89 selected campuses by experts in the fields of business, economics, journalism and international relations, etc., for the purpose of helping students and the university community gain insight into far-reaching topics.

The visit by a Wilson Fellow to Rose-Hulman is unique inasmuch as all but a handful of the 300 visits to date have been made to liberal arts colleges.

Lydman, a veteran of 30 years of foreign service in assignments in Washington, D.C., Thailand, Indonesia, Australia and Malaysia, maintained a busy schedule at Rose-Hulman. Lydman shared his knowledge and experience with classes in economics, political science, sociology, history, military science, engineering systems and chemical engineering.

He also gave public lectures on the topics of "The Relevance of Southeast Asia" and "Chinese and South Asian Trade Porcelains." A collector of and expert on this art form of particular importance to world trade, Lydman illustrated his presentation with a slide show and inspection of a small portion of his personal collection.

Dr. Thomas Mason, associate professor of economics and acting chairman of the division of humanities, social and life sciences, coordinated the week-long visit by Lydman. He was assisted by Professors William Pickett, Thad Smith, Donald Morin, John Ying, Caye Hudson, Jerry Caskey, Asa Smith, Union Building Directors Mike and Lucy Samara and students Tom Cortes, Jeff Richard, Reed Delpert, and Bob Shaw.

History & Future Of Technology Theme Of R-H Conference

Rose-Hulman will be the site April 1-3 of "Technology at the Turning Point: A Conference on American Technology--Past, Present and Future."

The conference, which is the result of nearly a year of planning, has received the endorsement of the Indiana American Revolution Bicentennial Commission as a state bicentennial event. It will bring nine leading people with expertise in the areas of the history of technology, the future of technology, women and technology in American life, computers and society, energy, and public policy, etc., to the campus for the purpose of promoting a dialogue on the stated topic of the conference.

Alumni are cordially invited to attend this conference which is open to the public free of charge.

Dr. Melvin Kranzberg, Callaway Professor of the History of Technology at Georgia Institute of Technology, and Dr. Victor Ferkiss, professor of government at Georgetown University and a widely-recognized authority on the future of technology, will be the principal speakers.

Dr. William B. Pickett, assistant professor of history at Rose-Hulman and co-director of the conference, notes that the first two days of the program (Thursday and Friday) will address how technology has developed, where it is now, and where technology is expected to go in the future. Saturday's activities will center on the investigation of local/regional priorities by addressing the topic of "The Technologies of Water and Coal in the Wabash Valley: Regional Growth and Environmental Concern."

The conference is being funded by grants and assistance from the Indiana Committee for the Humanities, Lilly Endowment, Inc., of Indianapolis, and the Poynter Center for the Public and American Institutions at Indiana University.

A thumbnail sketch of the program follows:

Thursday, April 1

Session I--American Technology: Where are We Going?

6:30 p.m.--Charlie Chaplin movie, "Modern Times."

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Benjamin G. Cox (right) admires a scroll recognizing his service to Rose-Hulman and tenure as chairman of the Board of Managers given to him during a testimonial dinner in his honor in the fall. Dr. John A. Logan, president, and Dr. Betty Foster Blumberg, Terre Haute civic leader and artist, presented the scroll to Cox. A member of the Board of Managers since 1961, Cox served as chairman from 1968 through the October meeting.

8 p.m.--Address: "The Future of American Technology," Victor Ferkiss, Georgetown University.

Friday, April 2

Session II--Electric Power: A Good Invention With Social Costs

9:30 a.m.--Address: "California White Coal," Thomas Parke Hughes, University of Pennsylvania.

10:50 a.m.--Address: "Women and Technology in American Life," Ruth Schwartz Cowan, State University of New York.

Session III--Technology and the Future: Problems of Control

2 p.m.--Address: "Computers and Hope," Joseph Weizenbaum, Massachusetts Institute of Technology.

3:45 p.m.--Address: "Public Funds and Private Technology," Paul Horwitz, Congressional Fellow, United States Senate.

5 p.m.--Films: "The Bottom of the Oil Barrel," and "The Other Way."

Session IV--Technology: A Force in History

8 p.m.--Address: "Technology the Liberator," Melvin Kranzberg, Georgia Institute of Technology.

9:30 p.m.--Films on technology and society.

Saturday, April 3

Session V--The Technologies of Water and Coal in the Wabash Valley: Regional Growth and Environmental Concern.

9 a.m.--Introductory Remarks.

Address: "The Politics of River Basin Development," Henry Caulfield, Colorado State University.

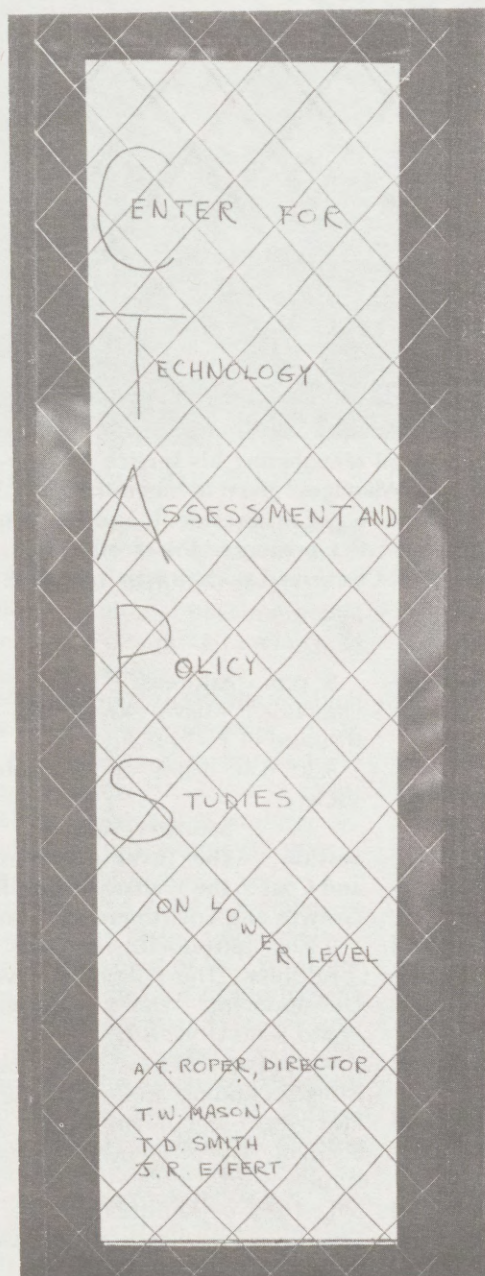
10:15 a.m.--Address: "The Role of Existing Technology in Coal Production for Electric Power Generation," Richard Schmidt, Electric Power Research Institute.

11:15 a.m.--Address: "The Future Development Plans of the Corps of Engineers," John Marlin, The Coalition on American Rivers.

12 Noon--Closing Remarks, Dr. John Logan, Rose-Hulman Institute of Technology.

Technology Assessment

Emerging Methodology an Extra Plus for Tomorrow's Engineer



The sign taped to the door leading to the basement of the new Learning Resources Center gives one the impression that Rose-Hulman's Center for Technology Assessment and Policy Studies (CTAPS) is either rather new or a temporary operation.

But when one looks further into the work being done by a group of faculty and students headed by Dr. A.T. "Tom" Roper of the mechanical engineering department, it is evident that technology assessment has been part of the Rose-Hulman scene for more than five years. Furthermore, technology assessment, or TA, and programs and "tools" which have been developed by the center are finding their way into classrooms in a number of disciplines at Rose-Hulman as well as neighboring Indiana State, DePauw and Indiana universities.

The word on Rose-Hulman's work in technology assessment is not only getting around in TA circles, but an assessment undertaken by CTAPS personnel over the summer entitled "An Approach to Policy Formulation: Sulfur Oxide Emissions in Indiana" has found its way to the Statehouse in Indianapolis.

Since technology assessment is relatively new, it is perhaps necessary to provide a brief description of the concept. The word "technology" is used here in the broadest possible sense. It includes social, political and other "soft" technologies, as well as those related to hardware. Technology assessment is a policy-planning tool by means of which one can systematically examine the societal effects that may result when technology is introduced, extended or modified. Special emphasis is given to the search for those consequences which are unintended, indirect or delayed. Operationally, a technology assessment draws its input from the entire spectrum of parties with an interest in a problem and attempts to produce a set of options and attendant results upon which a policy decision can be made.

Why is there a need for technology assessment?

As a nation we currently find ourselves in a rather complex social/humanistic financial/technological situation which is causing us to rethink our methods of determining and implementing our priorities.

Therefore, we are faced with the problem of determining how best to spend our limited resources. This implies that we must develop the capacity of predicting as best we can the effects of these projects on the total framework of society. The goal of TA is to provide a basis upon which decisions of this kind can be reached.

As Dr. Roper points out, present thinking on TA does not include actual decision-making, per se, but rather presents

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CTAPS personnel Drs. Tom Mason, Tom Roper and Jim Eifert during planning session.

options and costs (present and future, internal and external, economic, social and environmental) of the various courses of action available.

Technology assessment reportedly began over a table in the dining room of the U.S. House of Representatives in Washington in early 1965. Congressman Emilio Daddario of Connecticut and three others were discussing a remark by Jerome Weisner, MIT professor and ex-presidential science adviser, concerning America's need for an "early warning system" to protect man from the consequences of his own inventions.

Congressman Daddario was aware of the need for an impartial assessment of the effects of a technology and quickly pointed out the value of policy research which provides a balanced appraisal to the policymaker. And what better place to have such an assessment capability than where it is needed most--the congress.

The term "technology assessment" first appeared in a congressional sub-committee report in late 1966. The following year Daddario's first bill to establish such a capability was introduced primarily to provoke discussion rather than legislation.

The landmark National Environmental Policy Act of 1969 underscored the need for the Congressional Office of Technology Assessment which was created in 1971. Daddario, meanwhile, has become the "father of technology assessment" and the congressional office finally went into operation in 1975.

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Chronology of technology assessment at Rose-Hulman

Rose-Hulman's brief history in TA corresponds roughly to the dates of the federal office. Professor Irvin P. Hooper of the mechanical engineering department represented the school at a conference on technology assessment at UCLA in the summer of 1971. His report to his colleagues was met with enthusiasm, and within a matter of weeks Rose-Hulman faculty headed by mechanical engineering division chairman Dr. Roper were moving to include such a course offering in the curriculum.

A grant of \$25,000 from Lilly Endowment, Inc., of Indianapolis in 1973 provided funds to develop a program and tools in technology assessment. The initial project was a practical workshop which drew people from a number of mid-west cities to do an assessment on the problem of "Urban Mass Transit in Moderate Sized Cities" (population 70,000 to 250,000). TA made a favorable impression on a number of constituencies in its initial exposure in Indiana.

Assessments made by students in the initial TA course offering in 1973 underscored the need for students outside the Rose-Hulman community to provide ideas of the economist, sociologist, humanist for the mini-assessments. In 1975, Rose-Hulman collaborated with students from Indiana State, DePauw and Indiana universities on an eight-week assessment. The results were termed successful and provide much of the emphasis for continued work on the part of the center.



Michael Mueller '75 (left) makes a point during the formal presentation of the student assessment on prolongation of life. Others on the panel were Greg Hinton '75, John Hardesty '75, and Peter Deal, currently a senior.

Rose-Hulman student-executed assessments include: "Computer Simulation of Rose-Hulman: A Technology Assessment (February, 1973); "Reduced Auto Size: A Technology Assessment" (February, 1973); "A Technology Assessment: High Speed Rail Ground Transportation" (February, 1973); "A Cashless Society: A Technology Assessment" (February, 1974); "A Technology Assessment on Shale Oil Production" (February 1974); "A Technology Assessment on the Hand-Held Calculator" (February, 1975); and "The Effects on Society of the Prolongation of Life" (February, 1975). Two others were under way at this writing.

Technology assessment moved from the top of Tom Roper's desk to the Center for Technology Assessment and

Policy Studies (CTAPS) in the new library in 1975. Lilly Endowment funded the first year of the operation of the center with a grant of \$100,000 and the Rose-Hulman administration named Roper to head the center. Dr. James R. Eifert, associate professor of mechanical engineering, was named associate director.

They were joined by Dr. Thomas W. Mason, associate professor of economics and acting chairman of the division of humanities, social and life sciences, and Dr. Thad D. Smith, associate professor of political science. Others who have worked with CTAPS in some capacity are Professor Hooper, a team teacher in ME 414--Technology Assessment, and Drs. Calvin R. Dyer (English and literature), Patrick D. Brophy (psychology), J. Darrell Gibson, (mechanical engineering), Catherine B. Hudson (sociology), William B. Pickett (history), and Don L. Dekker and Donald G. Morin (mechanical engineering).

Multi-institutional assessments successful

The multi-institutional assessments undertaken last spring by students representing the disciplines of engineering, economics, geology, library science, public affairs, philosophy of religion and the philosophy of science included "Solar Energy" (Rose-Hulman and Indiana University, May, 1975); "High Rise Living" (Rose-Hulman and Indiana University, May, 1975); and "Navigation of the Wabash River" (Rose-Hulman, Indiana State University and DePauw University, May, 1975).

The goals of the multi-institutional program were: 1) to introduce students, faculty and staff to the concepts of technology assessment; 2) to stimulate dialog between technologists and humanists by demonstrating the necessity for cooperative efforts in the analysis and solution of societal problems; and 3) to develop an awareness among undergraduates of the inextricable interdependence of science, technology and human values.

The lack of adequate communications facilities was anticipated to be the primary obstacle to the successful imple-



Joseph F. Coates of the Office of Technology Assessment in Washington conducts a mini-assessment at Rose-Hulman.

mentation and operation of the multi-institutional program in technology assessment. Without adequate communications, participants tend to operate autonomously. This autonomy is unfortunate because the continuous interaction of individuals with differing ideas and divergent points of view is necessary if a true inter-disciplinary assessment is to be achieved.

To this end, CTAPS personnel, with the help of three students with a great deal of sophistication in work on the PDP/1140 time-shared computer, developed a computerized mail system (BLBRD), a computerized conference system (CONFER), a computerized personnel data and retrieval systems (SKILLS), and put the CTAPS extensive bibliography on technology assessment on the computer.

Two-way interactive television and the "wired" library concept also are being explored at good depth by CTAPS. The study of two-way television was put to practical application during the Winter term as Dr. Eifert conducted a two-section class in materials science via television. He met one section "live" in the lower level of the Learning Resources Center and then moved to a "live" situation with the second group meeting in Crapo Hall the next day. Thus, alternating between the two sites for the 10-week term, all students received instruction by both the traditional and TV methods.

Faculty members made a careful study of how students responded in class and tested on material introduced to them in both the "live" and TV sessions and found that there was no appreciable difference in the scores of students in either class. Moreover, progress was similar to that of the history of the course and another section being taught in the traditional classroom/lecture mode.

The work of seniors William Goebel, Madison; Larry Passo, Indianapolis; and Nathan Mann, Hanover; and sophomore Karl Fox, Fort Wayne, has received the praise of Dr. Roper and the CTAPS staff. Computer science majors Goebel and Passo and electrical engineering major Mann worked for CTAPS over the summer in developing the various

computer-related projects. Fox has been working in the center since school resumed in the Fall.

"We gave them an idea of what we wanted to achieve and they took it from there," said Dr. Roper. "They'd come back in a few days with some very sound programming. Through our contact with other people who have similar programs, we have found that our software folks have designed systems comparable to industry and government at a fraction of the cost and in a much shorter time span."

As for the student assessment, Roper stated, "They do a very, very good job in the time that is available to them (approximately five weeks). In terms of their long term development as engineers and people, I feel the process they go through is more important than the end result: the final report (for ME 414)."

Thus, it would appear that all signs (but the one on the door on the door leading to the basement of the Learning Resources Center) point to the viability and permanence of technology assessment at Rose-Hulman.

Staff-Executed Technology Assessment Projects

"Mass Transit in Moderate Sized Cities (Population 70,000 to 250,000)," CTAPS Report D-002, April, 1974.

"A Delphi Study: Health Care Delivery in the Midwest to the Year 2000," CTAPS Report D-003, April, 1975.

"Feasibility Study for Institutional Cooperation," CTAPS Report D-004, February, 1975.

"An Approach to Policy Formulation: Sulfur Oxide Emissions in Indiana," CTAPS Report D-005, July, 1975.

"Computerized Conferencing Techniques for Institutional Cooperation," (in progress).

"The 'Wired Library': A Bank of Skills and Information," (in progress).

"Two-Way Interactive Television for Higher Education," (in progress).



Dr. Roper serves as a camera man as Dr. Eifert teaches his two-way TV class in materials science.
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GLOBETROTTING ENGINEERS--Members of the 1975-76 Rose-Hulman basketball team pose in front of the Arc de Triomphe de l'Etoile in Paris, one of the points of interest on their 17-day trip to Europe via New York and Reykjavik, Iceland. The party included (kneeling, from left) Rick Wilson,

Jeff Justus, Harvey Wallman, Jeff Kramer, and Mark Hodson, Standing (from left) are Jim Boerger, Randy Wingerter, Steve Van Dyck, Dan Weber, Dave Sutherland, Roger Edelbrock, Terry Maddux, Greg Wehr, Mike Griggs and Doug Weber.

Engineers Finish With 8 Straight Wins

Strange Year at Hoop: Mutchner

"This has sure been a strange year," smiled Engineer basketball coach John Mutchner as he loosened a shower-soaked necktie and proceeded to peel off his shirt. "Where are my glasses and billfold?"

Rose-Hulman's basketball team had just wrapped up the 1975-76 season with a record-breaking eighth straight victory. Forward Doug Weber, student coach Bruce Dougan and manager/statistician Charlie Davis had lighted their "senior stogies" and the Engineers were celebrating a 20-14 season--a campaign marked by the excitement of a 17-day tour in Europe.

"They're a great bunch of kids," Mutchner continued. "You know, we were two and eight at one point . . . and to end up finishing like this."

With four of five starters returning from last year's 14-10 ball club, things were looking up for the Engineers in the pre-season. Mutchner knew the team's

trip to Europe would be a detracting force, but the injuries which were to put third-year floor general Mike Griggs out for the season and slow steady Dave Sutherland for more than half of the year could not have been anticipated.

The Engineers opened the season with an impressive game at Wheaton, bowing to the favored hosts 82-78 in the final minute of play. Returning home, they defeated Blackburn (68-60) and Illinois Tech (75-69) and lost to Trinity of Texas (78-69).

Then, with Sutherland out with a wrenched knee and Griggs sidelined for the season in the game at DePauw, the Engineers dropped close decisions at Greenville (79-70) and DePauw (77-73). Playing at home proved to be no distinct advantage in losses to Earlham (67-62) and Hanover (67-55) the week prior to the Christmas break and the Engineers 17-day 11,000-mile trip to Europe via New York City and Reykjavik, Iceland.

Much like the regular season and the CAC race which was to come, the Engineers got off to a slow start in Europe and then raced back to finish 6-3 overall abroad.

Lack of sleep (five to six hours of bed rest in a three-day period) spelled the difference against the Icelandic National Champions (96-86), but no amount of preparation could have helped at Bamberg, Germany, where the Engineers were beaten by 30 points.

Highlight of the trip was staying with Dutch families in Amsterdam and being the crowd favorites in winning the Ackrides Club International Basketball Tournament there. The Engineers won four of five 30-minute games in a span of 12 hours to take the title. In order, Rose-Hulman defeated Rotterdam Jugglers 87-39, Ackrides 66-54, lost to Gerard d'Lang (formerly the Fiat Stars) 77-56, beat Arke Stars 69-62, and then defeated Gerard d'Lang 59-57 to bring home a

Echoes

handsome trophy. For some reason the Engineers' 6-5 Steve Van Dyck was a real crowd pleaser, pouring in over 100 points in the five games. Thus it was Christmas in Amsterdam and the warmth of the Dutch families, Paris on New Year's Day and a tour of London in between. The Engineers defeated the English national champion Embassy All-Stars 77-74 despite a 28-performance by former University of Kentucky star Steve Schmidt of Newcastle, Indiana.

The final game in Luxembourg saw Rose-Hulman prevail over the Luxembourg Stars 87-73. Van Dyck canned 34 to offset the Stars' Kirby Thurston, a 6-10 center who played his college ball at North Carolina.

International rules and the battling the big man were the Engineers' biggest challenges in Europe. The Engineers lost the game in Iceland as they were whistled a number of times for "yelling or stirring" at the opposing player as he shot the ball (it works all the time in Shook Fieldhouse).

Learning to work against a 6-10, 240 pound center was a blessing in disguise as witnessed by the improved play of sophomore center Roger Edelbrock and others on the front line.

Rose-Hulman tuned up for the CAC schedule with a 96-66 win over MacMurray, then proceeded to lose home and home dates with conference foe Centre 68-64 and 75-65. The next weekend the Engineers made their biggest strides of the season, winning 86-84 in two overtimes at Sewanee and pushing back a good Southwestern at Memphis team 72-67 on the road.

They moved into a share of the conference lead by beating Principia (71-57), but faltered in the Principia Invitational, losing to Wabash 73-59 and MacMurray 81-69. Now you know why John Mutchner said it had been a strange year.

It was "Katie, bar the door" for the remainder of the season. Winning eight straight games--five of them on the road--the Engineers wound up with the longest winning streak in modern basketball history at Rose. In order, the winning results were: at Blackburn, 79-58; Sewanee, 64-57; Southwestern, 75-60; at Principia, 67-58; at Illinois College, 68-57; at MacMurray, 60-52; at Wabash, 66-58; Concordia of St. Louis, 79-61.

The big difference was not in scoring punch, but overall team defense and re-

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CAC 'Big Bell' on Line in Memphis

With Rose-Hulman's Engineers and the University of the South having shared the College Athletic Conference football and basketball crowns and finished 1-2 in cross country, the race for the Big Bell Trophy as the all-sports champion for 1975-76 is squarely on the line in the CAC Spring Sports Carnival to be hosted by Southwestern at Memphis May 7-8.

Rose-Hulman captured the Big Bell in its first year of competition in the CAC last year, winning five of eight team championships. Both major and minor sports are weighted the same in the determination of the overall champion, which places added importance on the spring carnival--the only time CAC members Centre of Kentucky, Sewanee, Southwestern at Memphis, Principia and Rose-Hulman meet in spring sports competition.

bounding and the return to full strength of Sutherland. In fact, in five of the last eight games, the Engineers had three starters with 10 or more rebounds per game.

Van Dyck led all scorers with an 18-point average, followed by Sutherland at 16.4 points per game. Edelbrock and guard Jeff Justus were next with 8.4 and 7.5 averages respectively. The remaining 20 points per game were evenly divided among the six others who started at one time or another during the season.

A strange but satisfying year.

Harriers Finish 2nd in conference

It was a rebuilding year for the Rose-Hulman cross country team in 1975, but by season's end the harriers had turned the corner with a second place finish in the College Athletic Conference.

Coach Jim Rendel, who replaced Jim Carr as director of intramurals and cross country coach over the summer, was pleased with the season but quietly took notes on some things he wants to see improved before next fall.

The Engineers--minus the likes of All-America Dennis Dierckman '75 and two other top runners--did not receive con-

sistent competitive times and overall balance until late in the season. Their best effort came in the CAC meet in which all but one runner posted his best time of the season.

In the regular season the Engineers defeated Franklin (16-45), Butler (15-50) and Millikin (15-50), while losing to Wabash in the Hokum Karem and a dual meet (15-40) and DePauw (24-34). The Engineers consistently finished in the upper division in invitational meets.

Dennis Funk and Alan Cassidy ran first and second for the Engineers. Cassidy had the best five-mile time of the season for the Engineers with a 26:30 clocking in the CAC meet at Principia. Funk ran 26:48 at Principia and was followed in order by teammates Dave Schacht (27:00), Bill Fox (27:05), Chick Yatsko (27:23), Guy Gadomski (27:36) and Mike Denault (27:40).

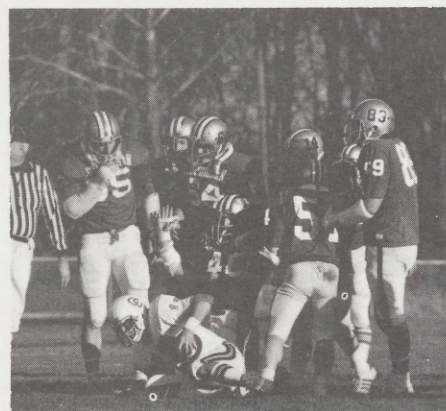
Sewanee placed runners in the first, third and fifth spots to offset the Engineers depth for the title.

Others who participated in the grueling sport were Rich Priem (28:27), Hugh Winslow (29:22) and newcomers to cross country Bill Messer (33:47) and Dale Campau (34:10). Cassidy, Funk and Schacht won all-conference honors for finishing among the top 10 runners in the CAC meet.



Gridders 7-3, CAC Champs

*"Our goal now is to keep
this thing going." --Bergman*



Nineteen hundred seventy-five was a vintage year for football at Rose-Hulman Institute of Technology.

As Coach Bob Bergman and his staff review game films and reflect on the 7-3 season and share of the College Athletic Conference title, they feel the Engineers probably should have won one more game but are, nevertheless, justifiably proud of the 1975 season.

Although the Engineers were to romp to lopsided victories in the second half of the season, the 22-21 come-from-behind victory at Franklin and the 20-12 near miss of an upset at Butler set the tempo for the kind of season 1975 was to be--hard-hitting, straight-ahead football with a flair for pulling off the big play.

Senior quarterback Gary Lee, who was to earn college division All-America recognition, directed the Engineers in the most well-balanced attack in Bergman's eight-year tenure at Rose-Hulman.

Lee completed 114 of 207 passes for 1338 yards and 13 touchdowns. He ranked third in NCAA Division III statistics for touchdown passes and ninth in overall passing statistics.

His primary receiver--senior Jim Gidcumb--tied for second in the number of touchdown receptions with eight, and was ranked eleventh overall in the final NCAA pass reception statistics.

Running back Kevin Kingery, the second leading collegiate scorer in the state, tied for seventh place in the NCAA III touchdown race with 11 and ranked 14th overall in NCAA rushing statistics.

The Engineers also ranked eighth in the nation in pass defense as they gave up an average of only 70.5 yards per game.

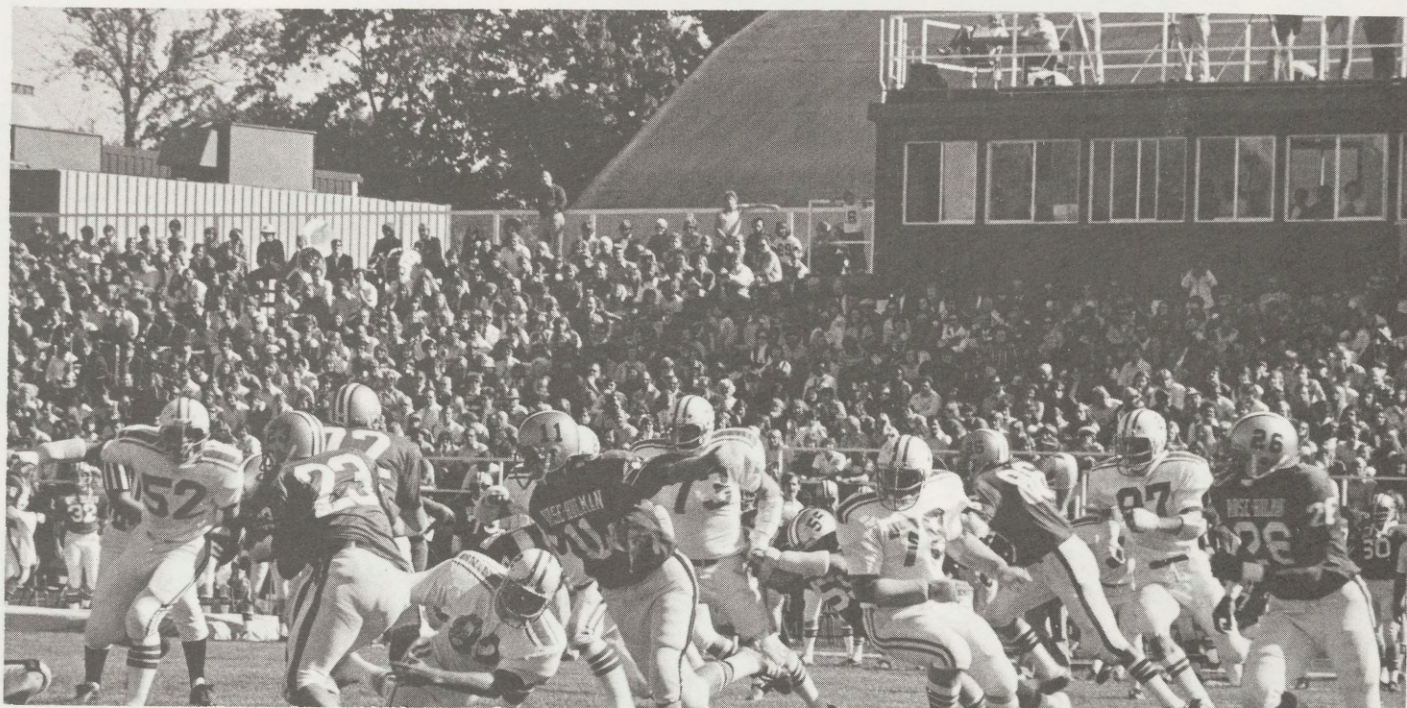
The pass defense effort was doubly impressive when one considers that the Engineers faced no fewer than four teams with ranked aerial attacks--Franklin, Butler, Hanover and Concordia (a couple others were none too shaggy!). Rose-Hulman was the most passed against team in the top ten of Division III, allowing opponents 89 completions in 202 attempts.

Fortunately for the Engineers, no fewer than six would-be touchdown passes were either intercepted or batted down in the end zone. Special thanks are due cornerback John Schroeder and safety Gary Ellis who pilfered five and six enemy passes respectively.

Following the upset at Franklin and the highly respectable loss at Butler, the Engineers sputtered to a 14-7 win at Earlham. Although the Engineers led 12-10 at halftime of the homecoming game against Hanover, the Panthers dominated the second half and spoiled the first game played on the new Phil Brown Field 33-12. The sting continued as Wilmington defeated the Engineers 25-7 the next weekend in Ohio.

But just as it appeared that Rose-Hulman was in for a so-so season, Gary Schultz scored two touchdowns in his first game as a starter and the Engineers drubbed Illinois College 56-12. Powered the remainder of the season by a double-barrelled running attack, the Engineers played its best defensive game of the year

Echoes



Quarterback Gary Lee scrambles left for yardage against Hanover at Homecoming.

in a 38-7 smashing of highly-regarded Bluffton, shut out Principia 40-0 and dismantled Concordia 38-7.

The Engineers--minus the services of quarterback Lee--had some trouble with Centre in the last game of the season. Freshman Terry Peak and junior Benji Blyd spelled the injured Lee, sparking just enough offense for Rose-Hulman to win 13-11 with the Colonels knocking at the door as the game ended.

The Engineers and Sewanee, who did

not meet, each won four conference games to share the CAC title.

The Engineers' defense was the best in Coach Joe Touchton's five years as defensive coordinator. Linebackers Mark Gibson, Kirk Augspurger and Tim Lockett ran neck and neck all season in the number of tackles, with Gibson, who received All-America honors, winning the battle with 99 tackles (1 point for solo tackles and one-half point for a clear cut tackle assist). Augspurger had 98 and Lockett tallied 96 1/2 tackles.

Freshman Larry Rikken and sophomore Ed O'Neill also were to be reckoned with (72 and 70 tackles respectively) and were subsequently cited for their improvement as defensive tackles.

"Our pass defense overall was very rewarding," said Touchton. "Our pass rush developed into a good one . . . we threw opponents for more than 400 yards in losses, particularly quarterbacks where we averaged just shy of four sacks per game. We were fortunate not to have many injuries and became fortunate in forcing turnovers."

While individual performances were outstanding and the Engineers benefited from good personnel in the skilled positions, the single most contributing factor to the winning season was team play and "a great bunch of seniors," according to Bergman.

"Our 13 seniors were excellent leaders," said Bergman. "They'll be hard to replace. Rose is one of the toughest places in the world to win football games. It takes continuity and that means seniors."

Looking to 1976, Bergman says "the future looks good. We have a winning interest, a winning nucleus and I think you've always got to recruit and have good kids coming in. Our goal now is to keep this thing going."

Max Kidd, Ex-Rose Football Coach, Dies

Max Kidd, one-time dean of Wabash Valley prep gridiron coaches and head football coach at Rose for the 1959, 1960 and 1961 seasons, died Sept. 2 in Terre Haute.

Kidd, 74, had retired in 1972 from Pawnee (Ill.) High School after coaching that school's first conference championship. A native of Bloomfield and 1928 graduate of Indiana University, Kidd coached outstanding high school teams at Bicknell and Brazil. Two of his teams at Bicknell (1930-40) were undefeated, with the 1934 team being named mythical state champion. At Brazil his teams won 91 and lost 49 games in 15 seasons, winning the Western Indiana Conference title in 1949 and 1950.

Kidd's achievements as a coach were capped by his induction into the Indiana Football Hall of Fame in 1974.

A P COLLEGE DIVISION ALL-AMERICA

Honorable Mention

Gary Lee, senior quarterback
Mark Gibson, senior nose guard

ALL-COLLEGE ATHLETIC CONFERENCE First Team

Gary Lee
Mark Gibson
John Schroeder, senior cornerback
Dennis Schultz, senior center
Jim Gidcumb, senior receiver
Kevin Kingery, junior running back
Tim Jeanes, sophomore kicker

Honorable Mention

Tim Lockett, senior linebacker
Hal McGaughey, junior guard
Kirk Augspurger, junior linebacker
Gary Ellis, sophomore safety

Homecoming '75

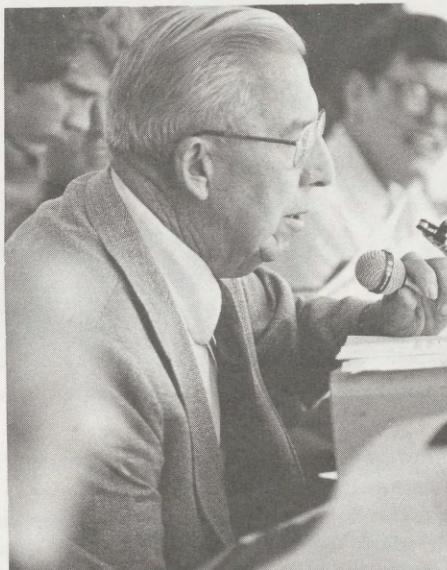
Something Old, Something New . . .

Each year as *Echoes* attempts to echo homecoming at Rose, one of the most difficult tasks is writing the lead paragraph for the story. Was this year's homecoming the biggest, the best, the coldest, the winningest, etc.?

As one looks back on homecomings of recent years, there is a common thread of hard work and tradition which brings about their success. Thus, for the sake of not sounding like a rewrite of last year's homecoming, let us first deal with those things which made Homecoming '75 different.

First, the Friday of homecoming weekend was just another day of classes for the student body. Needless to say, upperclassmen accustomed to the day off are not happy.

Second, Homecoming '75 was Dr. John Logan's last homecoming as president. His "State of the Institute" message reflects on his tenure and stewardship and is good reading.



Phil Brown addressing Homecoming football crowd.

Third, first-year alumnus Phil Brown (X-'59) was back for the rededication of

the football field named in his honor some six years ago. The revered coach of 31 years did his usual superb job in speaking from the heart at the Friday evening football meeting (recalling his wife Al's weekly trek to the campus with the apples), a pep talk at the pep rally later that evening, a reminiscent moment at the Fifty-plus Club and the actual rededication ceremonies on the afternoon of the Homecoming game.

Fourth, the new bleachers provided about three times as many good seats for the Homecoming game. An estimated 3,000 were on hand for the game at the new facility--brand new in every detail.

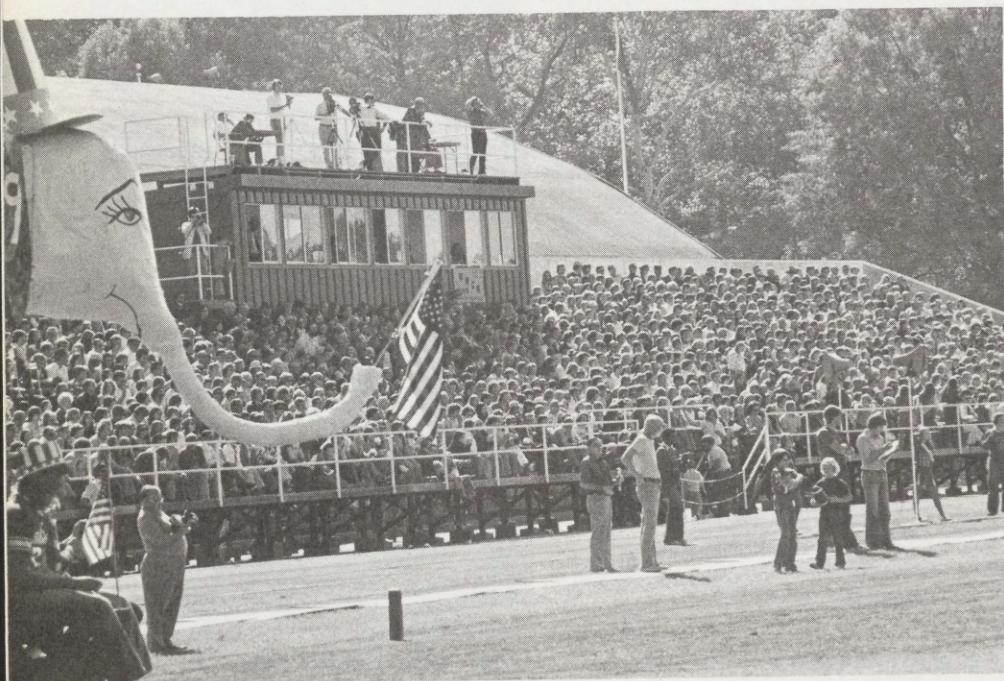
Fifth, the mood of Rose-Hulman throughout the year was captured in a one-man art show in the Union by D. Omer "Salty" Seamon, noted Indiana watercolor artist who resides near Terre Haute.

While overall attendance at homecoming was down somewhat from the Centennial Homecoming of '74, some of the events set attendance records. The Fifty-plus Club had its largest attendance ever and as Chairman Ruel Fox Burns '15 reported in the alumni meeting, "Another thing that impressed me last night was how good the women are in their old age. I could only get two telephone numbers last night."

To be sure, loyalty, friendship and good humor made Homecoming '75 one to be remembered.

The Class of 1925 kicked off the weekend with a banquet Thursday evening, October 2. The following evening the class was inducted into the Fifty-plus Club.

A standing room only crowd watches the homecoming game with Hanover College, the first football game played on the new Phil Brown Field. The renovation of the football field, track and bleachers is impressive.





Fox Burns recognizes Logans.



Class of '25 tunes up for initiation.



The gang's all here!



Winter 1976

Honor Alumni

Carl Planck, Lee Berry, John Phelps, Hal Wilkins, Recognized for Outstanding Service to Rose-Hulman

Four alumni whose service to Rose-Hulman includes a wide variety of activities were named Honor Alumni during Homecoming '75.

Receiving the honor were Carl G. Planck '10, G. Lee Berry '28, and John M. Phelps '33. A posthumous award was given in memory of Hal E. Wilkins '06.

In his own special way, each of the Honor Alumni has "walked the extra mile" for Rose-Hulman. In one case in particular, a special kind of courage was evident at a very early age in his quest for a Rose education.

Carl G. Planck

Anyone who has worked closely with the Alumni Fund over the last decade knows the name Carl G. Planck--for the last eight years class agent for the Classes of '04, '06, '07, '08, '09, '10 and '11.

A graduate in mechanical engineering, Planck is a retired Naval architect who spent most of his career in the Charleston, South Carolina area. The Omaha, Nebraska native continued his education at Duke University where he earned a master's degree in education. Planck also worked in education, serving as principal of a school in Charleston.

G. Lee Berry

Berry was graduated from Rose with a B.S. in civil engineering in 1928. He joined the Indiana State Highway Commission upon graduation, serving in a number of capacities with the state agency until 1937 when he entered the steel industry with Carnegie-Illinois Steel Corporation at the company's Irvin, Pa., works.

Berry subsequently went to the steel division of Ford Motor Company where he initiated, planned and directed a major modernization and expansion program. Moving on to Jones Laughlin Steel Company in Pittsburgh, he rose to chief engineer in 1955 and remained in this

corporate level responsibility until his retirement.

Active in alumni affairs, he served as District Representative for three years, commencement speaker in 1957, and Pittsburgh area chairman of the Centennial Campaign Kickoff in 1965. He served on the Board of Managers from 1961 to 1974 when he elected to take emeritus status.

John M. Phelps

John Phelps, a graduate in architecture in 1933, has served Rose-Hulman as both a valued employee and an alumnus of considerable service.

A member of the administrative staff of the college from 1936 to 1946, he was the first field representative for admissions and placement, manager of the alumni office and bookstore. He also served as secretary of the Engineers' Council for Professional Development during the early years of this organization.

Phelps later was president of Phelps Manufacturing Company of Terre Haute, a manufacturer of displays and creative advertising aids. He joined Tri Industries as head of materials control and purchasing agent, a position he held until his retirement.

Phelps was secretary-treasurer of the alumni association from 1939 through 1946, and in 1959 was president of the alumni body. He is a charter member of the Rose-Hulman Board of Associates, a group of Terre Haute and Indianapolis business leaders founded in 1962 as a "friend-raising" group for the college. In 1965 he served as Terre Haute captain of the capital gifts campaign.

Hal E. Wilkins

In a letter to Fred Crapo '19 in 1959, Mr. Wilkins related an interesting note concerning his boyhood decision to get an education.

"I feel I owe a lot to Rose Poly. I left home, or rather remained behind when my father and mother decided to move to a farm west of Terre Haute about 65

miles. I wanted an education above all things. One look at the farm was sufficient.

"I still had three months of grade school. That was March, 1898. I was 14 years old. I had a paper route, shoe shine route, and got me a place to sleep which turned out to be an army cot in a store; a combination grocery and general merchandise in Terre Haute."

Relating that his parents moved on to Colorado, Wilkins "lived where I hung my hat." He established residence in Terre Haute in 1901 in order to attend Rose, tuition-free by virtue of being a resident of Vigo County. Of course, there was the matter of room and board, a shop fee, a laboratory fee, and the purchase of books. As Mr. Wilkins put it: "I had to have a place to sleep. Then I put an advertisement in a Terre Haute paper, 'job wanted by experienced grocery man 18 years old'."

Wilkins was hired to work in a business located near Seventh and Lafayette streets in Terre Haute--a grocery in the front of the building and a saloon in the rear.

Upon his graduation in electrical engineering in 1906, Wilkins joined General Electric Company in Schenectady, New York. When the Panama Canal was completed he moved to Panama to operate the Mariflores Locks. Wilkins later became superintendent of the Mariflores Locks.

Returning to the United States, he worked for Civil Service in Colorado until his retirement. While in Colorado Springs he served as class agent for several years and was named a Life Member of the Alumni Association in recognition for his contributions to Rose. Mr. Wilkins died in 1964, leaving the bulk of his estate to Rose in appreciation of the education he received at the school.

His stepson, Dan Chamberlain of Pittsburg, Mo., accepted the posthumous honor alumni award on behalf of the family.

Echoes



Honor Alumni John Phelps, Carl Planck and Lee Berry and Mr. Wilkins' stepson, Dan Chamberlain, pose with awards.



Hal Wilkins '06

Honor Alumni in recognition of their loyal, unselfish service in furthering the interests of Rose-Hulman Institute of Technology.

Student Activities

Patti Burkdoll Reigns as Homecoming Queen

This year's freshmen (the Class of 1979), with the help of a local railroad maintenance superintendent who doubled as "frosh tie spotter," did a fine job on the traditional bonfire. Lt. Col. Jim Schwartz '54, a member of the ROTC staff who some 25 years ago helped built a bonfire, served as adviser on the operation.

Homecoming '75 had its share of beauty as Patti Burkdoll, an Indiana State University freshman from Evansville, reined as queen. The 18-year-old beauty represented Lambda Chi Alpha fraternity and was served by a court comprised of Diana Laurens, Cincinnati (Phi Gamma Delta); Nancy Marsh, Lafayette (Alpha Tau Omega); Dottie Uselton, Terre Haute (Triangle); Marianne Eberhardt, Greensburg (Sigma Nu); and Juanita Vega, East Chicago (independent students). Coeds Laurens, Marsh and Uselton are students at ISU, while Miss



Patti Burkdoll

Eberhardt is a student at Ball State and Miss Vega is on the staff of the mayor's office in her hometown.

Classes whose year of graduation end

in five and zero met in five-year reunions throughout the city Friday evening and students got their homecoming activities under way with the pep rally in the fieldhouse.

There had been speculation all week that there would be no mention of a day off Monday if the football team prevailed against Hanover. President Logan was quite brief in his remarks and his wife, Norma, wearing an honor jacket presented to her in the spring for "support of athletics above and beyond" would only teasingly say, "Something good's going to happen to you."

Then, Benjamin G. Cox, came to the microphone, checking his watch as he began his remarks, "As of midnight tonight . . . three hours from now, I will relinquish my duties as chairman of the Board of Managers. My last duty as chairman shall be . . . no work Monday if we win tomorrow!"

'25



'30



'35



'40



Class Reunion

'50



Echoes



'55



'60



Reunions

'65



Winter 1976

Annual Meeting

Dr. Logan's 'State of Institute' Message and John

MINUTES OF ANNUAL MEETING ROSETECH ALUMNI ASSOCIATION BUSINESS MEETING

Saturday, October 4, 1975 -- 10 a.m.

The meeting was called to order in Room B-119 of the Main Building by Alumni Association President Robert S. Kahn '39. Five-year anniversary classes from 1905 through 1970 were recognized, with C. Brenton Cook and Dudley D. Wright of the Class of 1905 being the oldest alumni in attendance at Homecoming.

It was moved by Vern Fellows '62, and seconded by Jack Fenoglio '59, that the minutes of last year's meeting as published in the Winter 1975 *Echoes* be accepted. The motion was approved.

Response to Dr. Logan's "State of Institute" Message

Alumni President Kahn, on behalf of the Association, thanked Dr. Logan for "thirteen of Rose's greatest years, for your fine stewardship during those years."

Alumni Representative to the Board - John T. Newlin Feb. '43.

Vern Whitehouse and I serve as your alumni representatives on the Board of Managers. When we get to the Board Meeting, however, we are not unique as alumni representatives, because probably (and we don't keep score) over half of the Board of Managers are alumni anyway, so we are not set aside as the alumni representatives, we are just there with other alumni on the Board. We are the ones you selected to serve for a term as your representatives. I am going to talk a little longer than usual, because there has been much to report to you and I think you will find these things to be interesting.

I thought that you would be interested in knowing what went on in the Search Committee that sought to locate and select the man who will have the most difficult task of following John Logan as President of Rose. Ben Cox, Chairman of the Board of Managers, personally assumed the responsibility as Chairman of the Presidential Search Committee. He then appointed a Search Committee which included me as the representative of the alumni. It also included the President of the Student Body. There was a representative from the faculty. It included the President of the Chamber of Commerce of Terre Haute, who would represent the community. The Search Committee then was appropriated some operational funds by the Board of Managers to use. There was a small staff to provide the communications and paper work.

There were advertisements placed in the Engineering Education Professional Publications. They said more or less: "Help Wanted - College President." That met certain legal requirements, but it also widely publicized it. There were letters sent to the deans of engineering at every engineering college in the country, looking for a president. All of the people on the Board of Managers and the alumni were invited to submit names of possible candidates.

Then those people who might be possible candidates had letters written to them saying, "if you are interested, let us know." By that sort of advertising and also seeking out and asking, there must have been 100 applications of qualified

EDITOR'S NOTE: With the exception of a closing "rib-tickler" appropriate for an all-male audience (we like to think of the *Echoes* as a family magazine), the text of Dr. Logan's "State of the Institute" message to alumni follows verbatim.

As some of you know on September 26 I reached my 67th birthday and as of August 31, 1976 I will be retiring. I feel that this last report to alumni should be a report on my stewardship and should cover some of the things I feel are important to alumni and the future classes here at Rose-Hulman.

First of all, it has been a pleasure working under four of the outstanding chairmen of the Board of Managers in the long history of Rose-Hulman. They were Dick Bergmann, Henry Offutt, Ben Cox and now Tom Binford who has just been chairman for possibly 24 hours. The Board of Managers has expanded from 16 members to 30 members, and we now have important representation from the East Coast to the West Coast.

We have had outstanding alumni support and we have had consistently around 50% of the alumni contributing to the Alumni Fund, which puts Rose-Hulman in one of the highest ranks in the nation, comparing with, for example, Purdue which has somewhat less than 15% alumni contributors.

Perhaps the most important thing that has been accomplished during my tenure is increasing our enrollment.

people. Some were less qualified and some were more qualified. Some were qualified only because they had just received their Ph.D. in College Administration and thought this would be a good place to start work.

But there were many with top-notch qualifications. Those who seemed to be in the upper half or so of the applicants were checked out unofficially by virtue of someone who knew someone who lived in the same town. We would ask him if he had heard anything about how the applicant gets along with other people, what kind of a fellow is he? What do others say about him?

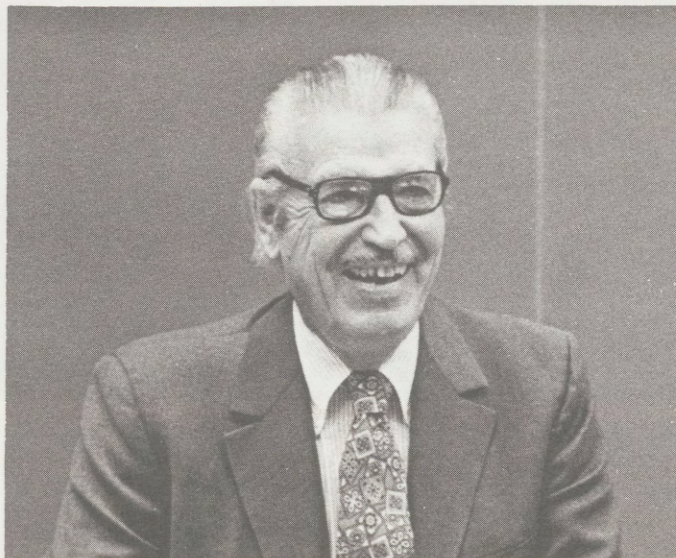
After that, the group was reduced to about ten or twelve. These ten or twelve were then invited to come to the campus and to bring their wives. The wives were entertained by Mrs. Logan and some of the faculty wives. The applicant, after being interviewed by Dr. Logan, was interviewed by Ben Cox, Chairman of the Board of Managers. He met with a Committee of the Faculty and talked with them, and he met with a Committee of the Student Body and talked with them. It was an all-day affair with each of these applicants.

They looked over the campus, and they looked over the community. In the evening there was a dinner party held for each of the applicants, at which the applicant and his wife had dinner with a group of the Search Committee which included the local members of the Board of Managers, representatives of the faculty and representatives of the Terre Haute community. The representatives of the community were interested and helpful.

Those applicants who were invited to visit were outstanding. I think Rose really attracted a group of applicants who were outstanding. After all, John Logan has this school in

Echoes

Newlin's Report on Presidential Search Top Agenda



Dr. John Logan

Many of you don't remember that Rose for most of its history was a very small school graduating from 25 to 50 to 75 men a year, with an average enrollment of from 250 to 400. Now this was just too small to operate economically. The Ford Foundation has indicated in its many studies that you have to have a minimum of 1,000 students to operate economically, and we simply were not turning out enough Rose

Engineers to have the impact that we should for national recognition. So with the approval of the Board of Managers, we have moved the enrollment up to 1,000 and did two important things. We hired the best admissions staff in the State of Indiana, and we made a major increase in our financial support of needy students. Both of these things have been very significant, resulting in a steady enrollment of approximately 1,000 students, and a situation where we have been able to operate in the black as we have for the past 100 years.

One of the most important events in the last 13 years was the gift of the Hulman family when they transferred the assets of the Hulman Foundation to Rose Polytechnic. This increased our endowment from approximately \$3,000,000 to approximately \$20,000,000. Although we are not realizing the entire benefits of this new endowment, it is going to have a major effect on Rose-Hulman's financial health in the future. As you all know, we have changed our name from Rose Polytechnic Institute to Rose-Hulman Institute of Technology, which was quite a traumatic experience for many of us, but I am happy to report that the name has been broadly accepted and is increasingly accepted and recognized throughout the nation.

With the approval of the Board of Managers, we embarked on a Centennial Development Campaign recognizing that we were going to be approaching our 100th anniversary in 1974. I think we have had some major accomplishments here. First of all we gutted this Main Building and transferred and moved out certain parts of the building. We transferred some of the laboratories. This room, you may remember, was

mighty fine shape right now, and I think it is a beautiful thing for a new president to be able to step into at the present time. They were obviously well qualified people. After this was finished and the twelve had been interviewed and we had gone through this routine, each group who met with them were asked to tell Ben Cox in what order they felt these people fell. There were two people out of the twelve who were considered by all groups to be well above the others. Of these two, one was consistently ranked above the other. The Board of Managers then authorized the Search Committee to contact these two men. They were the only two who were acceptable.

The man who had been picked tops by all of the groups, the students, the faculty, and the community, was Sam Hulbert, and he is the one who accepted and is coming to Rose to be the new President. He is a very personable man, he is an impressive looking man, he is a young man, and he has an attractive wife, and I think she will fit well into the Rose family.

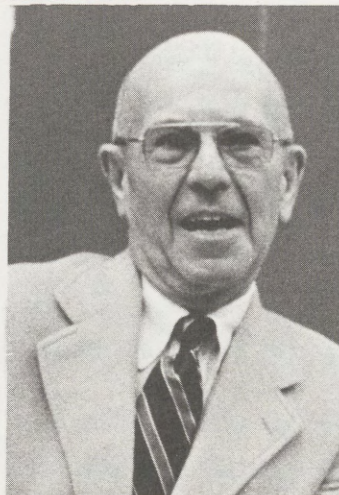
I thought you would be interested in hearing how he was selected, because sometimes you will just hear a bit about someone, and you will not know what all went back of it. Dr. Hulbert's interests are in research and fund raising and the operation of the college, and he is a free enterprise man. I think that you will like him and be proud of him.

Now the new Chairman of the Board of Managers is Tom Binford. I have known him for the past two years. He served as Chairman of the Executive Committee of the Board of Managers. He is a very capable man. He is a diplomat. He is a polished man. He is from Indianapolis. He is associated with the Indianapolis Motor Speedway. He is President of the In-

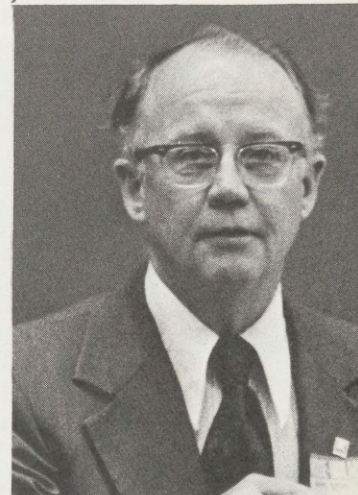
diana Pacers Basketball Team. He is a dynamic man, and I think he will make a good leader for the Board of Managers.

I have been very pleased to serve on the Board of Managers. It is an honor to be associated with the group of gentlemen who make up the Board. I know Vern has the same feeling. Vern and I serve as Co-Chairmen of the Development Committee of the Board of Managers, and I also serve on the Student Affairs Committee. We serve actively in these capacities. This is the first time I have made a very long report to the alumni, but I feel that this has been a timely occasion for it. Thank you.

Robert Kahn



John Newlin



the old graphics laboratory. We spent approximately one and one-half million dollars on remodeling this old building, and it is still a very useful, fine facility and hopefully will continue in use and effectiveness for another 50 years at least.

We built the Hulman Memorial Union which I think is one of the finest buildings of its kind in the state. We constructed Mees, Scharpenberg and Blumberg Halls . . . each are 78 man dormitories, air conditioned. The idea was to have small groups to participate in intramurals, and of course, we recognized the need to have additional facilities for the increased enrollment. We remodeled Deming Hall completely, built the Frederick and Mildred Crapo Hall which is now a laboratory-classroom building with facilities for graphics and our computer in the basement.

We built the new Library, and we were fortunate to obtain the Tri Kappa Collection of Indiana Artists which is the only definitive collection of Indiana artists in existence. There was one other collection, the Hoosier Salon, in Indianapolis, but unfortunately it went up in flames in a tragic fire in Indianapolis some three years ago.

We acquired the property immediately east of the Institute for fraternity row and two fraternities have moved out there, ATO and Triangle, with Lambda Chi plans on the drawing board. Hopefully they will move out, and perhaps some of the other fraternities with them. We do have space there for facilities for five fraternities, and I think the ideal situation would be to have all of the fraternities situated on or near the campus.

We moved Buildings and Grounds out of this building and built a new Buildings and Grounds Building. We also



built the Rotz Engine Lab out there east of the facility. We are just now completing a million dollar new recreation facility, and I hope that all of you will see it either at the football game this afternoon or will wander down there and see this tremendous new addition to the Rose-Hulman Campus.

We do have a new computer. We were in the computer game early, but our computer facilities were sadly outmoded, and we had to tie in with Purdue in order to accomplish the things we had to do. Our Computer Committee studied this and came up with a new complex. Unfortunately, they chose the Xerox Computer as the best in the business. Now we are an orphan, but I hope you all keep your fingers crossed, and hopefully Univac or someone else

Election of Non-Graduates

President Bob Kahn presented the names of the honorary degree recipients at the Commencement in May 1975. They were Fujio Matsuda Jan. '49, President of the University of Hawaii; Ralph M. Ross, Vice President & Dean of Student Affairs, Rose-Hulman Institute; H. Loren Thompson '34, President, Stevens Thompson Runyan, Inc.; and John A. Wagner '18, Chairman of the Board, Wagner Castings Co. Three of these gentlemen were Rose alumni, the fourth, Dr. Ross, was not. Vern Whitehouse made a motion, seconded by Frank Doenges, that Dr. Ross be elected to honorary membership in the Alumni Association. The motion was approved.

Fund Raising - Ralph A. Mitchell June '47

Ralph Mitchell reported that there were 884 contributors to the Alumni Fund, and they gave \$52,620. The total alumni contributions to all funds was 1,904, and a total amount of \$146,720 was contributed. He said that Mrs. Logan had told him this morning that Salty Seamon is leaving his art collection to Rose because Rose is a permanent place. If you have followed small colleges over the last few years, you could hardly call them permanent places. He thinks that it behooves us as alumni to make this a permanent place, and we must contribute our time and our money. There are a lot of alumni who should be made aware of this. He hopes that in your contacts you will make them aware of this, and that we will have more than 50% of the alumni contributing to Rose, because money is a fact of life.

Student Recruitment - Chuck Huppert '65

Chuck Huppert reported that there were 304 students in the freshman class this year plus 18 new transfer students to make a total of 322 new students. Seventy-five percent of the freshman class receive financial assistance. Eighty-six percent of the Indiana students won Indiana State Commission Scholarship Awards, the rest would have won them had they applied.

The Catapult sessions this year were fantastically successful. Rose-Hulman went to three sessions, and all three were filled. Many prospective students were turned away.

In talking to Duncan Murdoch, Duncan asked him to urge the alumni to recommend high school students who might have an interest in coming to Rose. If you write to the Director of Admissions and recommend someone, this student will be told who recommended him unless you specifically ask that your name not be given. All you have to do is drop a card to the Admissions Office.

Rose Tech Clubs - Vern Fellows '62

Vern reported that 19 Rose Tech Club meetings were held during the year 1974-75. There are actually 25 active clubs. A new one was formed this year by a group of alumni in Oklahoma.

The new alumni roster is being put on the computer, and hopefully we can keep it running, and we will be in business. There is more capacity and some additional things can be done. In particular, what we are going to try to do is get the

Echoes



will take them over, and we will have maintenance and repair over the years ahead.

An important thing that happened during the last 13 years was the completion by John Bloxsome of the history of Rose Poly over the last 100 years, and it has been very well accepted and is recognized as a very fine production.

Now we still don't have everything paid for. We do have a mortgage from the Federal Government on the Union Building and the three dormitories, but this we were able to obtain at very low interest rates. We are, of course, able to keep up with the payments on that through the receipts for the auxiliary enterprises. However, we are \$500,000 short in our pledges to build the new recreation facility. However,

alumni selected by computer in urban areas. In other words, an area of say 50 miles radius, the computer will check out these names and clubs can be formed around that. In addition, those people who can't go into these area groups will be listed by states. If in your Rose Tech Club you have any questions of who should be members and who should not, send Anna Mary Turner a note. When this thing becomes available, and hopefully by the end of the year this will be preprogramed, it will be on a little smoother basis.

In addition, now that the computer is capable of having all these names, we are going to print out an Alumni Directory every year. It now takes somewhere in the neighborhood of six to eight months to get the Alumni Directory made up. This is a time consuming thing and is rather expensive. I think you realize how nicely it is printed. Hopefully, the computer can cut this time down to two or three months. It can be brought current for that year, and then printed. The format, of course, will not be nearly as formal as we have now, but it should be considerably less expensive to print, and that way we will be able to have one every year.

Homecoming Committee - Joel Waldbieser '60

Since Joel Waldbieser was not present, Vern Fellows gave his report. He reported that the Awards Luncheon will be at 11:30, the football game at 2:00, and after the game the alumni will be guests of the Wabash Valley Rose Tech Club at their Happy Hour, which will be in the Field House. The Homecoming Dinner Show will be at 6:00 P.M. at the Hulman Union.

Vern was Chairman of the Golf Tournament this year. He

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the Board of Managers recommended that we go ahead anyhow, because it was essential for the well-being of the campus and the student body. I will be calling on some of you during the year ahead to try and wind up our pledges in the black.

I think that we undoubtedly now have the best faculty that we have ever had in the long history of the Institute. Eighty percent of the faculty have Ph.D.'s. This is no necessary indication that they are good teachers, or that they know what they are doing, but we have had a real opportunity to select here, and I think we have done an excellent job in selecting faculty. I think they are interested in good teaching, I think they are interested in the students, not in simply being a hurdle over which the students have to climb. Unfortunately this was the case when many of you went to Rose-Hulman. I don't know whether or not Herman Moench ever had this philosophy, but his friend, Doc Sousley, did.

Fifteen years ago we had the highest attrition rate of any school in the Independent Engineering Colleges Association. This is an association of which I am very proud and which the school is very proud. It is made up of 16 of the finest independent engineering schools of the nation including Lehigh, Cal Tech, Carnegie-Mellon, Case-Western and schools of this kind. We had the highest attrition rate of any of these schools. This was not good, but represented part of this tough philosophy which Rose-Hulman had, and as a result, we were losing too many of our students. Now, as always, any student who enters Rose has the ability to get through. Anyhow, I am now pleased to report that our attrition rate is now very low, only 2.4% of the freshman class this past year. Their grade point average was almost 3.0. In

reported that 44 people played in the tournament Friday. There will be a tournament again next year, and he hopes that you will come and play.

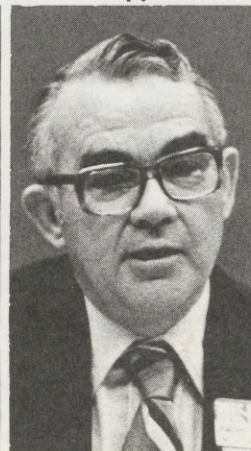
Awards & Recognition - Dick Mullins '40

Dick Mullins reported that this is a committee that really has a problem in selecting Honor Alumni from the great number of outstanding alumni that Rose has. "Each year we wonder how they can narrow it down. The recipients are really tops." The awards went to Carl Planck '10, Lee Berry '28, John Phelps '33, and the posthumous award to Hal Wilkins '06.

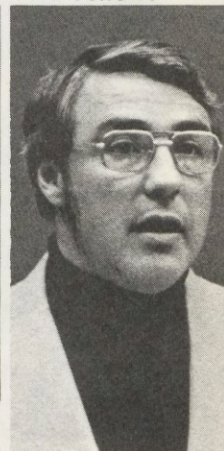
Ralph Mitchell



Chuck Huppert



Vern Fellows



other words, the average freshman student at Rose had a B average which I think is phenomenal. Our students are excellent, we were able to increase enrollment without decreasing the quality of our student body. The median freshman in the incoming class this year was in the top six percent of his high school class.

I am pleased to say that athletically we are now, I think, highly respectable. I think we are in the best athletic conference of any school in the State of Indiana. We are in the Collegiate Athletic Conference which is made up of Sewanee, the University of the South, in Sewanee, Tenn.; Centre in Danville, Ky., Southwestern at Memphis, Tenn., and Principia in Elsah, Ill. Now this is a conference which is run by presidents. We have very strict prohibition on athletic scholarships. We all share the same kind of philosophy very high quality, high academic quality, none of the schools have physical education departments. I am pleased to say that we have won five out of seven of the first contests, that is baseball, football, etc. and won the Collegiate Athletic Conference title the first year we were in the conference.

Now something which you may not think is important, but I do, is that we are now a member of the Continuing Conference on Liberal Arts. Now you may wonder why Rose-Hulman got into this particular league, but this is an organization sponsored by the Lilly Endowment which consists of some 25 colleges from coast to coast, and they asked us to provide the engineering input into this group and mainly through our program in Technology Assessment. This has been a very valuable association and one which I particularly appreciate because, as you may know, we now call our education here a liberal education in science and

engineering. We are anxious to bring the humanities, the liberal arts, and social sciences into engineering in a more meaningful way.

As indicated previously, we have been operating in the black for almost 101 years, and we will have some problems in the future undoubtedly with rising tuition and the necessity of providing more financial aid to our student body. But by prudent management and by efficiencies in operation, we hope to continue to operate in the black in the future.

One thing that most people are surprised to find here on the Rose Campus is a very fine art collection. I am sure that most of you have seen our 19th Century British Water Colors which is one of the finest collections in the nation, only Yale and the University of Toronto have better collections. As I mentioned previously, we now have the Tri Kappa Collection, and we have been picking up over the years bits and pieces of Chauncey Rose memorabilia and have one of the finest collections of that material available anywhere.

Now I don't want to leave with the impression that all is being great and that everything is going well, we do face problems. We face the problem of recruitment. We are going to be increasing our tuition next year to \$2,700, and this compares with Purdue's tuition of \$750. Obviously, we have to have a program that is \$2,000 better than Purdue's. Now I think that our program is a good deal more better than that, but we have to convince students throughout Indiana and the nation that we do have a program that is worth this much.

There is growing concern with the social development of the students. With 1,050 men on the campus, many of

Continuing Education - Dick Brown '59

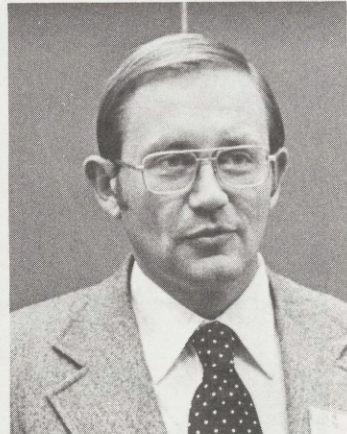
Dick Brown reported on the continuing education program "aimed towards practicality and timely issues." A number of area engineers and management people come to these meetings and share ideas, new techniques and current problems in industry. Brown cited the work of Professor Irv Hooper, director of continuing education.

To give you an example, the following courses were offered during 1974-75: Material Science, Water Treatment, and three programs for preparation in E.I.T. and P.E. Exams. They were well received and we are continuously looking for ideas, what is it you would like to have. It is a shame that they are not available for alumni in different parts of the country.

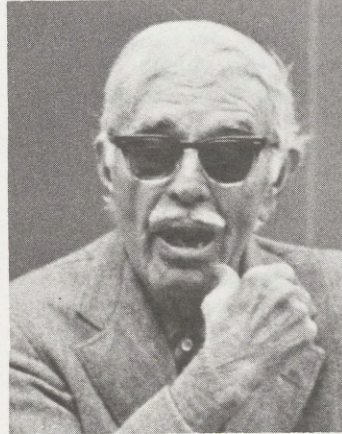
Dick Brown



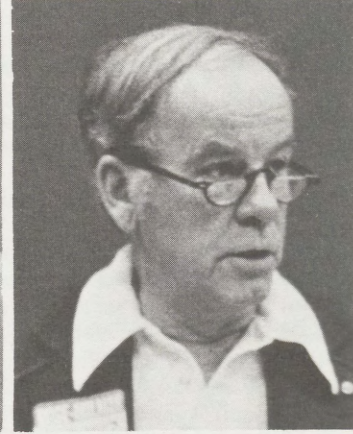
Tom Reese



Fox Burns



Bob Mees



They are well received in the Vigo County area, and people come from as far as 70 or 80 miles radius to attend these seminars and classes. Ideas or suggestions for future programs should be directed to Professor Hooper.

Senior Orientation - Tom Reese '58

We have instituted a dinner where we invite the leaders of the senior class. Instead of the bludgeoning effect that we have tried in the past, we are planting seeds that being involved as an alumnus and continuing with the school is not one of pocketbook, but one of reward. I think it has been successful, and we will continue with these dinners. "Again, thanks to Ron Reeves, because it was originally his idea, and it has really worked very well."

them participate and we do have an outstanding program of extracurricular activities covering almost the broadest spectrum of opportunities. Nevertheless, we still have students who don't participate in anything, who hole up in their rooms and study, and we would like to get these kids out somehow and get them involved.

This ties in with another concern of ours, the physical development of students. Burt Raynes, who is Chairman of the Board of the Rohr Corporation in San Diego, expressed his concern about 18 months ago in a Board meeting, that it was extremely necessary that men who are planning a career whether engineering, science, or business be concerned about their physical fitness. They should do something about it, because this is almost as important as the academics. The Student Affairs Committee of the Board of Managers has been working on this problem and has come up with a tentative program which hopefully will go into operation in the second quarter. The program will be voluntary, but it will involve students in life-time sports and physical fitness.

I am concerned about faculty development. One of the problems which faced me when I came here was whether or not we could maintain quality undergraduate education in science and engineering without a graduate program or without research. I was convinced, and Herman Moench was convinced, that we could do this, and I think that we have been able to attract topnotch faculty who are willing to spend their major efforts and their major concerns in teaching. But nevertheless we are concerned about their getting out of phase with modern developments and faculty

development is a problem which we are going to have to face continually in the year ahead.

We are going to need your continued financial support, the support of our friends, foundations, and business and industry. We are concerned about financial aid from the State of Indiana. We do receive the fourth highest amount some \$800,000 a year that is what our students receive in State Scholarship support. We have to continually keep pressing the senators and representatives from the state that this is a good investment in independent education that actually saves the taxpayers money, rather than continuing to support the students in state schools who each receive a subsidy of approximately \$3,000 a year when they attend Indiana, Purdue, Ball State, or Indiana State.

I am sure that you have all seen the announcement last night or this morning that the Board has announced the selection of a new President, Sam Hulbert, Dean of Engineering, at Tulane University, who, I think, is an outstanding choice. He is a young man, he has an international reputation for research, has an excellent reputation for fund raising and I think that he is going to be an outstanding president.

I can't close my brief remarks here this morning without a word of appreciation to the Rose-Hulman alumni. During the thirteen and it will be fourteen years soon that I have been associated with Rose-Hulman, I have met hundreds of you and know hundreds of you by name. I have uniformly found you enthusiastic, cooperative in every way and all share a common love and appreciation of Rose-Hulman. It has been a pleasure to work with you, an honor to have worked with you, and I will be looking forward to Rose-Hulman's change and move ahead in the years which come along.

Report on 50 Year Club - Fox Burns '15

I want to first express my thanks for the services that Ron and Anna Mary gave the 50+ Club last night. Second, I want to congratulate the 1925 Class. They accepted their initiation with more enthusiasm than any class has since we have been organized.

My wife and I started the Happy Hour Party about 20 years ago. We had it in a room up in the Terre Haute House. My wife and I got there early, and we were afraid that no one was going to show up. Pretty soon a little couple showed up and we seated them and asked what they would like to have to drink. They said, "Coca Cola." But pretty soon they began to gather, and it has been growing and been happier ever since.

Now we have our own Happy Hour at the 50+ Club before our dinner. Soon after the bar opens, although we tremble and have to use both hands to get the glass up, it is amazing how noisy it gets. We had a very good time last night at the dinner. Fortunately, Phil Brown was there, and we got him to make a little speech. Bob Shattuck did the reminiscing. Another thing that impressed me last night was how good the women are in their old age. I could only get two telephone numbers last night.

Report of the Election Committee - Tony Blake '31

In the absence of Tony Blake, who is in England, the report was given by Anna Mary Turner. She reported that Richard A. Mullins '40 was elected Vice President of the Alumni Association.

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Nominating Committee - Robert T. Mees '31

The Nominating Committee consists of the last five Presidents of the Alumni Association, Robert T. Mees '31, Chairman; John T. Newlin Feb. '43; Richard C. Brown '27; Vern E. Whitehouse '40; and Frederick J. Bogardus '32.

The following alumni were selected to be on the 1976 Ballot on which you will vote before Homecoming next year. The following three alumni will be on the ballot for Vice President: John A. Bradley '35, John C. Fenoglio '59, and Ralph A. Mitchell June '47. The three nominated for Alumni Representative to the Board of Managers are: Noble C. Blair '34, John G. Appel '41, and Gerald C. Miller Jan. '49. It was moved by Frank Doenges '39, and seconded by Vern Fellows '62, that the report of the Nominating Committee be approved. The motion carried.

Election of Secretary-Treasurer

Frank Doenges '39 made a motion that Tony Blake '31 be nominated for Secretary-Treasurer and the nominations be closed. This was seconded by Jack Fenoglio. The motion was unanimously passed by acclamation.

The meeting was then adjourned.

Anthony G. Blake, Secretary-Treasurer

Club Activities

Clubs From Coast to Coast Join in Admissions Search

Individual alumni and RoseTech Club groups from Clark, New Jersey, to Seattle, Washington, and points in between are providing a most valuable service for their alma mater--that of hosting information sessions for prospective Rose-Hulman students from their respective areas.

Duncan C. Murdoch, dean of admissions at Rose-Hulman, terms the "most successful concept we've come up with to date on telling students who live some distance from Rose just how good we are."

"The basic concept is to invite all students Rose-Hulman has had prior con-

tact with to an information meeting at a centralized location," notes Murdoch. "Most of the time this has been a meeting room of a motel near the junction of major highways, but we have had some success in borrowing corporate facilities. Of course, it is essential that these be very accessible."

Information meetings have been held in Seattle, San Francisco, Los Angeles, Detroit, Cleveland, Pittsburgh, Philadelphia, Boston, Clark, N.J., Plainview, N.Y., and Baltimore. Similar meetings have been or will be held throughout the state of Indiana--Fort Wayne, South Bend, Gary-Hammond, Indianapolis, Evansville

and two other Southern Indiana locations to be named at a later date. Also, Indiana border areas of Louisville, Cincinnati and Chicago, as well as St. Louis will be included on the list of information sessions.

The admissions office and alumni in the designated areas try to get students and their parents and interested alumni to attend the sessions. The format of the meeting includes a 30-minute slide show and narration which has been almost as interesting to alumni as it has prospective students. A 10 to 15-minute break is followed by a 30-minute presentation on costs, financial aid and scholarships, etc. An additional 30 minutes or so is spent in a question and answer period in which Rose-Hulman personnel and alumni field the questions.

"These meetings are particularly effective in remote areas. They're the next best thing to a campus tour and allow students and parents to meet others," Murdoch continued. "It helps a student realize that he's not the only kid in the world who hasn't heard of Rose-Hulman."

"Alumni participation has given a lot of credibility to the meetings," said Murdoch. "An alumnus explaining the relationship of a Rose education to his job or how it helped in his entry into a successful consulting business, for example, is pretty convincing."

Alumni usually select the site for the meeting place, make telephone calls to confirm attendance, and do follow-up on the meeting. In many cases, they have provided all-important ground transportation for both prospective students and Rose-Hulman personnel.

Although a number of alumni have helped in the admissions process, Murdoch specifically cited the work of eight in recent weeks, including Bob Uhlman-siek '68, Seattle; Capt. George Howson '32, San Francisco; R. T. "Tim" Kelley '49, Los Angeles; Max Lunsford '63, Detroit; Bob Burtner '57, Philadelphia; Bill Plenge '68 and Rob Munyon '75, both of Baltimore, and Carl Wischmeyer '37, New Jersey.



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SOUNDS LIKE
THE NAME OF
A LADY WRESTLER
OFFERS THE BEST
BACHELOR'S DEGREE
PROGRAM IN
ENGINEERING
AND APPLIED SCIENCE
IN THE COUNTRY



Bold new admissions materials designed to catch the attention of bright high school students have played a big part in the need for information sessions on Rose-Hulman throughout the country. A record number of young men "who take their Tinkertoys seriously" have applied for admission to the Class of 1980.

'09

H. W. Curry (Ch.E.), the first Rose man to catch a forward pass in football for the Engineers in the fall of 1908, responded to Athletic Director John Mutchner's call for information for the Rose-Hulman Athletic Hall of Fame with clippings of the 1908 season--the year the Engineers first made news with the forward pass. Football was only 20 years old when Curry played for the Engineers and by 1905 had become so violent that President Theodore Roosevelt threatened to ban the game if such violence continued. Although the forward pass was encouraged as early as 1906 and Wesleyan University is credited with the first pass against Yale that year, it was not until 1913 and a game between Notre Dame and Army that passing became popular. Wayne Curry caught two passes against Washington University of St. Louis on Oct. 31, 1908, receiving accolades in both the St. Louis and Terre Haute newspapers. Mr. Curry can be proud of the way his legacy of the forward pass worked for the Engineers in 1975 as flanker Jim Gidcumb ran his sideline patterns for pass after pass from quarterback Gary Lee. A bevy of other receivers also got into the act. Curry is retired from American Zinc Company and resides at 820 S. Main St., Hillsboro, IL 62049.

'24

C. Raymond Fitterer (Ch.E.), who made news with his one-man legal battle over patent infringement by two major corporations, won his suit as both companies agreed that his patents were valid and that they both had infringed them. As was noted in the *Echoes* about a year ago: "If his lawsuit hits the target as precisely as his talk on engineering education (at the 50th reunion of the Class of 1924), a settlement can be expected soon." Dual congratulations are due this alumnus for: 1) the inventions themselves, and 2) the persistence in defending his patents. Dr. Fitterer may be contacted at 409 Engineering Hall, University of Pittsburgh, Pittsburgh, PA 15213.

'32

Charles N. McGillivray (E.E.), who retired from his engineering position with Roberts & Schaeffer Company on January 23, 1975, reports he and his wife since "have had two fine trips for a total of three months time." The McGillivrays traveled throughout the South from late January through late March and later spent five weeks on the east coast, visiting Richmond and Williamsburg and the Baltimore and Boston areas. He continues in a consulting capacity with Roberts & Schaeffer and resides at 521 Coventry Lane, Apt. 12, Crystal Lake, IL 60014.

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News From Alumni

B. G. MacNabb Leaves Space Business for Quiet of Rockies

Byron G. MacNabb, a member of the Class of 1932 and a widely-known aerospace pioneer, culminated a 30-year aerospace career in September and has since moved to West Yellowstone, Montana.

MacNabb, veteran of over 200 launchings of U.S. spacecraft and booster rockets, retired as a consulting engineer with General Electric Company's Re-entry and Environmental Systems Division in Philadelphia. While a General Electric employee, he served as manager of launch operations, special military programs and manager of tests and operations, advanced interplanetary programs.

Prior to his association with General Electric, MacNabb was manager of operations of the Convair Division of General Dynamics Corporation at Cape Canaveral, Florida, where among other significant achievements he was responsible for the flight test operations of the Free World's first operational intercontinental ballistic missile (ICMB), the Atlas. His successful direction of the ICBM test program gained him recognition in *Time*, *Life* and *Fortune* magazines as well as international coverage by television.

He also managed the Atlas/Mercury Manned Space Flight Project, the Atlas/Agena/Ranger lunar exploration spacecrafts, the Atlas/Agena/Mariner Mars and Venus missions and the Atlas/Centaur/Surveyor first soft landings on the moon.

MacNabb worked for 13 years for Carnegie Steel Corporation in South Chicago prior to entering the U.S. Navy in 1943. While in the Navy he received a Presidential Citation for his participation in the development of the first anti-aircraft weapon designed to counteract kamikaze attacks against U.S. warships. Later at China Lake (California) Naval Ordnance Test Station, he participated in the first firing of a ballistic missile (a cap-

tured German V-2) from a ship at sea, for which he received a citation from the Chief of Naval Operations.

Between 1948 and 1955 he was involved in research and development work on the A- and H-Bomb Programs for Sandia Corporation in Albuquerque, New Mexico and Cambridge Corporation, Lowell, Massachusetts, respectively. In 1955 he was appointed operations manager at the U.S. Air Force Missile Test Center at Cape Canaveral for General Dynamics.

"Barney" MacNabb has a knack for being where the news is. One wonders what big news will be forthcoming from the West Yellowstone, Montana.

MacNabb and his wife, Iris, may be corresponded with at P.O. Box 312, West Yellowstone, MT 59758.

What's New?

If you have an unusual job, home project, hobby or another story you think would be of interest to readers of the *Echoes*, please jot us a note.

Echoes is fortunate to receive major honors, promotions, job changes and the like, but seldom gets the whole picture--building a plane in your basement, your cross-country bicycle trip, shooting the rapids, the solar-heated house Jack built, etc.

Send your story ideas to:
Kent Harris, Editor. *The Echoes*
Rose-Hulman Institute of
Technology
Terre Haute, Indiana 47803

'34

John A. "Doc" Moore (Ch.E.) was appointed an Engineering Fellow of Union Carbide Corporation, effective Oct. 31, 1975. Moore, who has been with Union Carbide for more than 40 years, has been supervisor of engineering services and technology at the Texas City Plant and an engineering consultant to UCC in chemicals and plastics engineering in recent years. Active in the American Institute of Chemical Engineers (AIChE) for a number of years, he has been a full member of the society since 1950 and an AIChE Fellow since 1974. Some of his AIChE activities in the South Texas Section have included being student activities chairman (1961), a member of the George Cummings Ad Hoc Committee on the future of the Institute (1966), a member of the continuing education committee (1967-71) and executive committee (1964). Work in the AIChE at the national level includes assignments with committees including equipment testing procedures (1955-59), executive committee of EC & T (1962-64), plant practices (1969-71), chairman, heat transfer equipment and practices (subcommittee EC & T, 1964-66), organizer and chairman, Process Heat Transfer Symposium (national meeting, 1965), co-chairman, Air-Cooled Symposium (1964), and co-chairman, Heat Transfer Equipment Symposia (1973). Doc's address is P. O. Box 471, Texas City, TX 77590.

'43

E. Harold Stanfield (C.E., Oct.) reports he will soon be retiring after approximately 30 years with Firestone Tire and Rubber Company where he has served in construction project engineering and senior staff engineering positions. He resides at 4640 Leatherwood Rd., Memphis, TN 38117.

'48

P. David C. Mitchell (E.E., Oct.) has assumed a new position as vice president of operations for Canadian International Power Company in Montreal, Quebec. Mitchell, who has been associated with the Canadian International power group since 1953, formerly was general manager of Bolivian Power Company Ltd. He has served as manager of the Oruro division of the Bolivian subsidiary, general superintendent of the Monterrey Railway, Light and Power Company and as general manager of the El Salvador Company. Canadian International is a Montreal-based corporation with electric public utility subsidiaries in Venezuela, Bolivia, El Salvador and Barbados. Mitchell's current address is Canadian International Power Company, 2020 University St., Suite 1800, Montreal, Quebec H3A 2A5, Canada.

'49

Victor H. Forsythe (E.E., Jan.) has been promoted to general manager of the Electrical Products Division of Harnischfeger Corporation in Milwaukee. He joined Pohatan Mining Company of Bloomingdale, Ohio, upon graduation, later moving to Harnischfeger where he became chief engineer of the electric shovel division. Forsythe subsequently was promoted to director - corporate technical services prior to heading the electrical manufacturing division. His address is 185 Joanne Dr., Brookfield, WI 53005.

Donald A. Boyd (C.E., April) pens a quick note with "a special 'hello' to all the former residents of good old Barracks "C", St. Anthony nurses and St. Mary-of-the-Woods 'inmates'." He continues private practice as a consulting engineer in Aberdeen, S. D. His address is 1124 N. Washington St., Aberdeen, SD 57401.

William A. Schumann (M.E., April) recently represented Rose-Hulman at the Midwest Christian College inaugural—one of a number of special services alumni can fill in the field of education. Schumann continues as manager of the regional office of Northrop Corporation in Oklahoma City.

Orren S. Hillman (C.E., Nov.) has been appointed District Deputy Director, District 5 (Newark) of the Ohio Department of Transportation. Orren, who formerly was director of public works of the City of Zanesville, Ohio, resides at 883 Talley Avenue Drive, Zanesville, OH 43701.

'53

Robert L. Guiler (E.E.) underwent open heart surgery Sept. 16 and is doing well at home and back on the job on a limited basis. Bob, who was released from the hospital after 10 days, is chief engineer for StaRite Industries. He resides at 315 Spring Lane, Delavan, WI 53115.

Herbert L. Gatewood (Ch.E.) has opened an office for the practice of patent, copyright and trademark law in Boston. Gatewood, who earned his law degree from George Washington University in 1964, formerly was a patent attorney for the Coated Abrasives and Tape Division of the Norton Company. Gatewood joined U. S. Steel upon graduation, working as a process engineer in the metallurgical department at the corporation's operation in Youngstown, OH. He later worked as a patent examiner for the U. S. Patent Office in Washington, D. C., while pursuing his law degree. Gatewood's address is 46 Tally-Ho Drive, South Hamlpton, MA 01982.

'54

James O. Seneff (C.E.) has been named director of environmental engineering for Clyde E. Williams & Associates in South Bend. Seneff, who has been with Williams & Associates or its subsidiary Paul J. Kleiser & Associates since graduation, currently resides at 1310 Parliment Dr., Apt. A, South Bend, IN 46637.

'55

Samuel W. Hart (M.E.) has been named vice president-engineering by Cummins Engine Company, Columbus, IN. In his new position he is responsible for Cummins' central engineering and for engineering drafting and standards. He also is responsible for the company's cost reduction program, for engineering liaison with oversea plants and for facilities activities, including test, the research and engineering machine shop and instrumentation. Hart, who most recently was executive director--engineering, joined Cummins in 1962 and has held various positions within the research and engineering organization. He and his wife, Joan, and three children reside at 2665 Chestnut, Columbus, IN 47201.

'56

John W. Elder (Ch.E.) has been appointed manager of European licensing for the B.F. Goodrich Chemical Company. Elder, who is headquartered in Voorburg, Netherlands, formerly was licensing specialist for B.F. Goodrich in Cleveland. He joined the company in 1956 at B.F. Goodrich's technical center at Avon Lake, OH, and transferred to the Calvert City, KY plant in 1961. Beginning in 1969 he was involved in training and start-up assistance for licenses of BFG Chemical's vinyl chloride processes.

'57

William R. Small (Ch.E.) has been promoted to general manager of the Folding Carton Division of Westvaco, Inc., at Newark, Del. Small joined Westvaco at the firm's Covington, Va., facility upon graduation. First assigned to the mill's technical service department, he was promoted to staff engineer a year later and in 1959 advanced to supervisor of the recovery department. In 1963 he moved up to assistant superintendent and in 1965 took on new responsibilities as assistant pulp mill superintendent. Later that year he was appointed superintendent of sheeting finishing and in 1968 management of the dense board mill and general yards was added to his responsibilities. He has served as plant manager of the Folding Carton Division since 1970. Small's address is 396 Brian Lane, Oaklands, Newark, DE 19711.

Homecoming '75 -- Oct. 22-23

Ron R. Meredith (M.E.) has been getting some pretty good ink in the business sections of the Cleveland newspapers for his slogan "I have PMA" (positive mental attitude). Described by Cleveland columnist Bob Seltzer as "an eternal optimist," Meredith has disseminated PMA letters, orange lapel badges, and stickers, etc., to top executives as a hedge against gloom and negativism in the Cleveland business community. Meredith is general manager of Carpenter Printing Company, a highly computerized printing plant which specializes in corporate publications, commercial advertising, catalogs and directories. "What we need to do is work smarter, not harder, in producing a better product for fewer dollars, and make a reasonable profit on which growth is dependent," says Meredith. "Our entire plant has undergone transactional analysis to provide better understanding of workers and superiors.

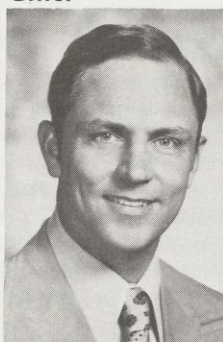
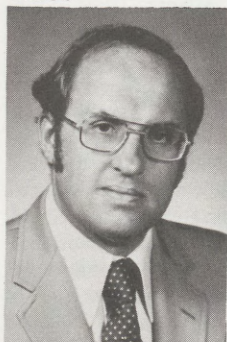
'58

Richard L. Trueb (E.E.) has been named a vice president of Mead Paperboard and resident general manager of the division's new corrugating medium mill in Stevenson, Alabama. Prior to moving to the Stevenson mill, Trueb had been mill manager of the Otesego, Michigan mill since 1973. He joined Mead upon graduation and has held engineering assignments with Mead's corporate engineering and central research in Chillicothe, Ohio, the Kingsport Mill in Tennessee, Mead Paperboard Products Division in Dayton, and as manager of the Paperboard Products mill at Cincinnati. His new address is R. R. 5, Box 71, Scottdale, AL 35803.

Gary H. Giffel (M.E.), formerly plant manager at Ethyl Corporation's film products division plant in LaGrange, Ga., has been promoted to manufacturing manager for VisQueen headquartered in Baton Rouge, La. In the new position Giffel directs the manufacturing operations at VisQueen's seven manufacturing plants. Giffel joined VisQueen in 1959 as an engineer at the Terre Haute plant. He later was promoted to technical assistance engineer and supervisor of mechanical design there. In 1965 he was named technical supervisor at LaGrange and since January, 1975 had been plant manager at LaGrange.

Trueb

Giffel



Winter 1976



OLD JOCKS--Former Engineer basketball players celebrate after a very good game with the Rose-Hulman varsity in early November. Seated near the keg were Don Dekker '61 and Trainer Til Panaranto, who served as Alumni coach. Standing (left to right) Larry Erwin '73, Joe Snyder '73, D. J. Cordero '71, Rick Henthorn '73, Gary Dougan '73, Pete Hodapp '68, Denis Radecki '72, Tom Curry '67, and Tom Butwin '71. Last year's game was so lopsided in favor of the varsity so as to be inappropriate to report in an alumni publication. This year Mutchner figured that the game was so close that reporting it would be embarrassing to the varsity. "Those fat, bald headed old men must have practiced quite a bit between games," said Mutchner. "but their consumption was about the same."

'59

Larry R. Wilson (M.E.) has moved to Geneva, Switzerland with management responsibility for the Industrial Division of Caterpillar Tractor Company in Africa, the Mid-East bloc, Europe and the United Kingdom. Wilson formerly was assistant division manager and supervisor of the Industrial Division and was headquartered in Peoria, Ill. He joined Caterpillar in 1962 and has served as a field representative, supervisor of sales training, and division manager. Wilson continued his education at Bradley University, earning an M.B.A. in 1972. His new address is Chemin de la Cocuaz 4A, 1253 Vandoeuvres, Geneva, Switzerland.

'60

Dean R. Brown (E.E.) has been promoted to associate professor of mathematics at Youngstown State University, Youngstown, Ohio. Brown, who went with General Electric Company in Schenectady, NY upon graduation, continued his education at Rensselaer Polytechnic Institute (M.S., electrical engineering, 1964) and The Ohio State University (M.S., mathematics, 1966, and Ph.D., mathematics, 1970). He taught at Rensselaer and Ohio State while pursuing graduate studies. Brown resides at 137 Venloe Dr. Poland, OH 55514.

John M. Kirk (M.E.) has returned to teaching, having been named chairman of the Business Division of Richland Community College in Decatur, Ill. Formerly a systems salesman for International Business Machines, he continued his education at Memphis State University and Mississippi State University. He taught business at Spring Hill College in Mobile, Alabama from 1967 through 1971 and was a project engineer for the Midwest Piping Division of the Crane Company in St. Louis and Houston from 1961 through 1965. Kirk and his wife, Karole, have a five-year-old daughter, Emily, and reside at 543 Ash Ave., Decatur, IL. 62526.

'62

Ned P. Hannum (M.E.) kicked off the Division of Civil and Mechanical Engineering's research seminar series at Rose-Hulman with a presentation on "Thermal Fatigue in Rocket Engines." Well received by the students, Hannum drew on 13 years of service with the NASA Lewis Research Center in Cleveland in presenting this topic at Rose-Hulman. He currently is a project engineer for the in-house thrust chamber work in the area of hydrogen-oxygen propulsion technology. Hannum resides at 5924 Columbia Rd., North Olmsted, OH 44070.

Hursta Participates in Apollo-Soyuz Space Mission

William N. Hursta, a 1968 graduate of Rose-Hulman in biological engineering, played an important role in the Apollo-Soyuz space mission in July.

Hursta, a senior research engineer for Technology, Inc., of Houston, was one of three bioengineers assigned to do cardiovascular studies of the astronauts during flight and after its termination.

The team had an extensive laboratory set up aboard the U.S.S. New Orleans for the purpose of monitoring the astronauts. In a note for the *Echoes*, Bill describes his work and some of his preparation for entry into this exciting field:

"Following the receipt of my induction notice, I enlisted in the Air Force and was on active duty from January, 1969 until January 1973. I completed the requirements for my M.S. in Biomedical Engineering at the University of Texas at Austin in February, 1974 and formally received my degree that May.

"I have been employed since March, 1974, by the Life Sciences Division of

Technology, Incorporated as the Senior Research Bioengineer in the Cardiovascular Laboratory at the NASA/JSC. Our laboratory's assignment is to investigate and utilize various techniques for non-invasive measurement of physiological parameters in man before, during, and after space flight. My responsibility is the development of both hardware and computer software to monitor, control, and analyze biomedical experiments.

"In support of the Apollo-Soyuz Test Project, our laboratory conducted several preflight investigations. A protocol involving lower body negative pressure was used to stress the cardiovascular system by causing blood to be pooled in the lower body. During the procedure such parameters as respiration, blood pressure, heart rate, heart sounds, carotid pulse, leg volume, the vectorcardiogram were constantly measured and recorded. This information has been used to characterize changes in the car-

diovascular system after exposure to weightlessness. We assisted personnel from the National Institute of Health in the echocardiographic examination of the crewmembers. I, personally, was most involved in designing and conducting an experiment in electromyography which attempted to quantify in a more precise manner muscle deconditioning which may occur during exposure to weightlessness.

"Unfortunately, after spending two weeks aboard the recovery ship, U.S.S. New Orleans, our work on the mission seems to have been for naught as of this writing. All of the biomedical experiments were cancelled (and properly so) subsequent to the problems which the astronauts encountered upon re-entry.

"Thank you for your interest in my career."

Bill, his wife, Betsy, and children, Mike and Ann Elizabeth, reside at 2935 Calder Drive, League City, TX 77573.

'64

Jerry E. Bower (Ch.E.) has been appointed as plant manager of Celanese Coatings & Specialties Company's West Coast resins plants in Los Angeles and Newark, California. Bower, who is headquartered at the Los Angeles location, joined Celanese in 1964 as a chemist, and since has held positions in production and quality control. Most recently, he was resins production superintendent in Louisville. His new address is 1716 Park Lawn, Hacienda Heights, CA 91745.

E. Lindley Ruddick (Ch.E.) is currently construction and cost estimating supervisor for the Torrance, California plant of Dow Chemical Company. Ruddick has been with the Western Division of Dow since 1965, having completed an M.S. in chemical engineering at the University of California at Berkeley in September, 1965. He has worked as a research engineer, senior process engineer, and process supervisor prior to his recent assignment. Ruddick resides at 28042 Acana Road, Rancho Palos Verdes, CA 90274.

Mars J. Gralia II (Math), senior engineer at the Johns Hopkins University Applied Physics Laboratory, has an additional assignment as part time teacher of computer architecture and advanced programming languages in the graduate school of Johns Hopkins. He continues to reside at 5035 Castle Moor Dr., Columbia, MD 21044.

'65

James W. Francis (Ch.E.) has been promoted to senior surface mine engineer for the Mid-western Division of Consolidation Coal Company. Francis, who formerly was an explosives research engineer for the U. S. Powder Division of Commercial Solvents Corporation at Marion, Illinois, has been a project engineer and engineering group leader since joining Consolidation Coal. He continued his education at the University of Missouri-Rolla where he earned an M. S. in mining engineering in 1972. His current address is 3 Mobile Home Dr., Duquoin, IL 62832.

R. Toby King (Ch.E.) has been appointed production superintendent of DuPont's methacrylates plant in Memphis, TN. In his note to *Echoes*, Toby stated: "I have been with the Industrial Chemicals Department for two and one-half years after various assignments in DuPont's engineering department for eight years. My wife Barbara (ISU '66) and I have one child, Sarah, age three and one-half. Since coming to Memphis, we have abandoned our northern hobby of skiing in favor of one-design sailboat racing." The Kings reside at 3678 Joslyn St., Memphis, TN 38128.

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

'66

Steven P. Collier (M.E.) received an M.S. in systems management with a major in systems technology from the University of California in June. Collier is a captain in the U. S. Army and is stationed in Arlington Hall Station, Arlington, Virginia. He and his wife and two children reside at 3364 Annandale Rd., Falls Church, VA 22042.

Ronald G. Gesell (Math) has opened a private business as a consulting physicist in nuclear medicine in Atlanta. Says 'Guzzy': "I do consulting to hospitals for nuclear medicine instruments and radiation safety. It's fun, but not much money yet. . . Christina is over two and one-half years old now. . . she talks up a storm and is a real joy to us all." Gesell formerly was district sales manager for the nuclear medical division of Baird Atomic, Inc., headquartered in Atlanta. The Gessells reside at 3044 Kammeyer Lane, Chamblee, GA 30341.

Scott A. Skjordahl (M.E.) has been elected investment research officer for First Wisconsin Trust Company of Milwaukee effective in September. Skjordahl has worked for the past seven years as a research analyst with Sears Roebuck Company's Allstate Insurance Company in Chicago. A chartered financial analyst, he continued his education at Northwestern University where he earned an M.B.A. in finance. Scott's new address is 2195 Le Chateau Drive, Brookfield, WI 53005.

Echoes

'67

Arthur P. McLaughlin (M.S.C.E.) has joined the faculty in the Department of Civil Engineering of Manhattan College in Bronx, N.Y. McLaughlin, a self employed professional engineer, continues to reside at R. R. 5, Milltown Road, Brewster, N.Y. 10509.

'68

J. L. Cadick (E.E.) has assumed a new position as director of Multi-Amp Institute of the Multi-Amp Corporation in Dallas, Texas. Cadick formerly was supervisor of systems operations for Indianapolis Power & Light Company. He reports that he has received professional engineering registration in the state of Texas. Address of his company is 4271 Bronze Way, Dallas, TX 75237, while his home address is 4165 Pleasant Run Road, Irving, TX 75062.

Jesse C. Daugherty (M.E.) has assumed a direct sales status in Indiana for the Commercial Filters Division of the Carborundum Company. Says Jesse "The Indiana sales branch will be run very similar to CFD's other distributor/representative organizations. A Purdue man and I will be responsible for all sales of filtration equipment in Indiana and much of Kentucky. It's a new venture and I'm looking forward to the challenge. P. S.--My wife and I are expecting our first baby in April." The Daughertys reside at R.R. 1, 460 Tattersall Dr., Plainfield, IN 46168.

Gary E. Mitchell (M.E.) is serving as operating plant reliability engineer for Babcock & Wilcox Company on an assignment at the Rancho Seco Nuclear Generating Station in California. Mitchell says he expects to be in this temporary assignment from December, 1975 to June, 1976, at which time he will be reassigned to another nuclear steam system test program. His current address is 244 Selby Ranch Rd., Apt. 1, Sacramento, CA 95825.

James L. Wandmacher (C.E.) has taken a position as a test engineer for the Construction Equipment Division of Westinghouse AirBrake Company in Peoria, Illinois. He formerly was in the Motor Truck Division of International Harvester Company in Fort Wayne. Wandmacher's new address is 121 Lafayette Lane, East Peoria, IL 61611.

Andrew P. Spence, Jr. (Ch.E.) is working as a senior research engineer at the Production Research Center of the North American Producing Division of Atlantic Richfield Company in Plano, Texas. Spence continued his education at the University of Wisconsin, earning an M.S. in chemical engineering in 1970 and a Ph.D. in 1974. His current address is 186 Ashwood Circle, Plano, TX 75074.

Winter 1976

Rolf P. Hill (M.E.) has accepted a new position as a designer for Resources Management Associates, Inc., with assignment in Maryland. Says Rolf: "My work the past two years has led me to a position directly involved with the design philosophy for plant and process of a solid waste processing/resource recovery project in Maryland. Other interesting assignments critical to the environmental crisis have been design and implementation of sludge disposal projects, landfill design, plant piping and community awareness meetings. Hill, who formerly worked for McDonnell Douglas Aircraft, currently resides at 1338 Hallock Dr., Odenton, MD 21113.

Stephen W. Whitesell (M.E.) was named manager of the New Brunswick, New Jersey apparatus service shop for General Electric Company, a facility involved in the repair of industrial equipment. Whitesell, who formerly headed the transmissions repairs area, resides at 2410 Nassau Rd., Cinnaminson, NJ 08077.

'69

William G. Anderson (M.E.) was graduated from John Marshall Law School in Chicago in June and since has been admitted to the bar in the State of Illinois. Anderson currently is general counsel for Sloan Valve Company of Franklin Park and resides at 640 Hinman Ave., Evanston, IL 60202.

James G. Collins (Physics) is serving as a visiting assistant professor of astronomy at Indiana University, following completion of a Ph.D. in that field at Indiana University last March. Collins served as a research scientist associate for the department of astronomy at the University of Texas and as a research physicist for Naval Avionics in Indianapolis prior to taking the visiting professorship at I.U. His current address is University Apts. W-307, Bloomington, IN 47401.

John K. Malmquist (C.E.) has relocated for an assignment of approximately one year as liaison cost engineer for the Soroako Nickel Project in Sulawesi, Indonesia. The position involves cost control coordination between the engineering firm, Dravo Corporation and the project management offices of Canadian Bechtel, Ltd., of Toronto. John's current address is 9168 Collington Square, Allison Park, PA 15101.

Melvin A. Smith (E.E.) is manager of telecommunications for the Products Division of Atlantic Richfield Company in New Jersey. Smith, who joined Atlantic Richfield after a brief tenure with American Telephone and Telegraph in Chicago, earned an M. S. in business administration at Indiana University-Northwest while working at Atlantic Richfield's Lake County Sinclair facility. His current address is 11 Cheryl Ann Ct., R. R. 1, Berlin, NJ 08009.

William C. Spence (Ch.E.) has transferred from Houston, TX to Chicago where he is staff buyer for chemicals and process materials for Standard Oil of Indiana. Spence, who formerly was a staff engineer for the American Oil Company in Houston, made the move to the parent company over the summer. He completed a law degree at the University of Houston in 1974. The Spences' new address is 17600 Chestnut, Country Club Hills, IL 60477.

Stephen R. Smith (M.E.), chief pollution control officer for Fort Benjamin Harrison, Indiana, reports the birth of a daughter, Christi Michell on April 20, 1975. "Maybe she'll be a bio-medical engineer," chimes Steve. The Smiths reside at 7035 Kingswood Ct., Apt. 2008, Indianapolis, IN 46256.

Joseph A. Vumbaco (M.E.) has been accepted for registration for his Connecticut professional engineers license by the state Board of Registration of Professional Engineers of that state. He is executive assistant to the director of Public Utilities for the City of Wallingford, Connecticut. He and his wife, the former Linda Maddox of Little Rock, Ark, reside at 1 Elmhill Dr., Wallingford, CT 06492.

George L. Holland (Ch.E.) has accepted a position as maintenance engineer for Ciby-Geigy Corporation in St. Gabriel, Louisiana. He formerly was plant services engineer for Hercules, Inc., in Georgia. His new address is 1541 Arcia Dr., Baton Rouge, LA 70815.

'70

Michael R. Langston (M.E.) pens a note which reflects the feelings of a man who has just returned from an assignment in Alaska. Says Mike: "Recently returned from a nine-month tour of Alaska's north slope with Brown & Root, Inc. Now residing in Houston and working for Brown & Root as a project coordinator, pipeline and civil works on the BO Alaska north slope project. I would enjoy hearing from friends": 6150 W. Tidwell, 305, Houston, TX 77018.

'71

George W. Felix (Math) has moved to Howe Military School where he teaches mathematics and is responsible for a number of other duties ranging from weight training to fall intramurals. George formerly was instructor of mathematics at Grand River Academy in Northeastern Ohio. Correspondence to George and his wife may be directed to Company C, Howe Military School, Howe, IN 46746.

Bradley A. Pirch (Ch.E.), a process engineer for CBS Records of Terre Haute, announces the birth of a second child, Stefanie Maria on March 25, 1975. The Pirches also have a son, Michael, age 5.

James R. Forbes (Chem) has joined Liquid Carbonic Corporation as a CO₂ marketing engineer. Forbes, who formerly was a product engineer for Spaulding Fibre Company of Sycamore, Ill., resides at 325-C Arrowhead Lane, Bolinbrook, IL 60439.

Jerry R. Kempf (C.E.) has been named to the position of planning engineer for AMAX Coal Company at the corporation's general headquarters in Indianapolis. Kempf, who joined the Ayrshire Coal Company in Boonville upon graduation, formerly was resident engineer for the Ayrshire mine in Chamdler. He and his wife, Jane, have relocated in Indianapolis, but their current address was not available at press time.

Paul D. Scheibelhut (M.E.), who completed an M.S. in industrial administration from the Krannert Graduate School at Purdue University in July, 1974, is working as a project engineer for H. J. Heinz Company's plant in Muscatine, Iowa. His address is Farvue Apt. 12, R. R. 4, Muscatine, IA 52761.

'72

Mark T. Owens (Ch.E.) and his wife are the proud parents of a daughter, Jennifer Lynn, born Nov. 29, 1974. According to Mark, she is a "vivacious red head!" (Anyone recall the color of Mark's hair?) Owens is a process engineer for Eli Lilly at the company's Lafayette plant. The Owens reside at 1564 Crestwood Dr., Lafayette, IN 47905.

2nd Lt. Philip Wyssling (M.E.) is assigned to the U. S. Army Hospital at Ft. Eustis, Virginia, as assistant chief of clinics where his responsibilities are primarily in administration. Wyssling entered service following completion of an M.B.A. from Indiana State University. The assignment at Fort Eustis followed the officer basic course in Medical Services Corps. His address is USA MEDDAC, Ft. Eustis, VA 23604.

Charles E. (Chic) Sweeney (C.E.) sends a line concerning life in British Columbia: "I finished my M.S. at Colorado State in May, 1974 and took a job with Western Canada Hydraulic Laboratories, Ltd. as a project engineer. The firm is a private hydraulic consultant in the fields of hydraulic structures, coastal engineering and river engineering design, hydraulic model studies (physical) and analytic studies. Ag Hannon of Kouts, Indiana and I were married January 1, 1975 and are residing in Pt. Coquitlam. We would like contact from any Rose alumni in the area." Their address is 1186 Pipeline Rd., Pt. Coquitlam, B.C., V3B 377 Canada.

David J. Wanninger (C.E.) was promoted to senior engineer of Texaco's Lawrenceville, Ill., refinery effective Oct. 1. Wanninger joined Texaco, Inc., at the Lawrenceville facility upon graduation and formerly held assignments in plant engineering. His address is 1502 15th St., Lawrenceville, IL 62439.

'73

Kenneth D. Bueg (Math) has left the Packard Electric Division of General Motors Corporation in Warren, Ohio, to begin graduate study in industrial engineering at Purdue University. His new address is P. O. Box 2473, West Lafayette, IN 47906.

Richard D. Keeven (M.E.) continues to pursue studies at the Indiana University Law School in Indianapolis. His address is 5706 Port Hope Rd., Apt. C, Indianapolis, IN 46224.

Stephen L. Koss (Math) is currently working as an analyst at the Bank of New York, just off Wall Street. Says Steve: "I've been there for 13 months and last month I was promoted from methods analyst to senior methods analyst." Steve earned an M. S. in industrial administration from the Krannert Graduate School of Purdue University following graduation. His new address is 145 Sierra Vista Lane, Valley Cottage, NY.

John A. Lawrence (E.E.) has accepted a position as chief engineer for WILL-TV in Terre Haute. John formerly was an electronics technician for B & A Electronics of Terre Haute. His address is R. R. 32, Box 597, Terre Haute, IN 47803.

William R. Schumann (M.E.-Aero) has left General Electric Company in Cincinnati to become part owner in a NAPA auto parts business in Temple, Texas. Prior to the move Bill was a field engineer in the Aircraft Engine Division of General Electric. His new address is 204 S. Main St., Temple, TX 76501.

Charles E. Wickersham (Physics) continues to work on a Ph.D. in metallurgy at the University of Illinois. His address is 107 Paddock Dr., Champaign, IL 61820.

'74

Michael A. Kilpatrick (C.S.) has accepted a position with the Chemical New York Bank following graduation with distinction from Purdue University's Krannert Graduate School. Kilpatrick, who earned a degree in industrial administration, was designated as a Krannert Scholar for his distinguished academic performance--an honor awarded to the top five percent of each year's graduating class. Since no new address was available for Mike at press time, mail may be directed to him through his parents, Mr. and Mrs. Buford Kilpatrick, 4007 Drummond St., East Chicago, IN 46312.

Stephen W. Meier (C.E.) is pursuing graduate studies at Cornell University following a brief period as a structural engineer for Chicago Bridge and Iron, Inc. He reports he is married to Rebecca S. Wrench, a native of Belmont, Illinois, and a 1974 graduate of Illinois State University. The Meiers reside at 2 Renick Place, Ithaca, NY 14850.

Richard A. Bell (Bio.E.) has been transferred to Muscatine, Iowa, by Monsanto Company on assignment as a project engineer to supervise design of a waste treatment facility for Monsanto's agricultural products plant. The Bells new address is 113 McArthur, Muscatine, IA 52761.

Michael A. Callahan (Chem) has been named marketing representative for the Coatings Chemicals Division of Eastman Chemical Products, Inc. He will cover Wisconsin, North Dakota, South Dakota and northeast Iowa in his new position. The Callahans new address is 13401 Morgan Ave., South, Willoway Apts. 27, Burnsville, MN 55337.

James E. Hammon (M.E.) has returned to Terre Haute to join Shelton Hannig Inc., designer-builder of Rose-Hulman's Crapo Hall, Learning Resources Center, Recreation Center and numerous other buildings of the Terre Haute area. Prior to the move, Jim was a district engineer for American Aggregates Corporation in Indianapolis. His new address is R. R. 1, Cory, IN 47846.

Richard C. Haut (M.E.) has moved to Newport News, Virginia, where he is employed by the Old Dominion University Research Foundation while pursuing a doctorate. Rich reports he is investigating hydrogen as a test gas for cryogenic transonic wind tunnel at the NASA Langley Research Center. He also reports that he and his wife Annett are expecting their first child in July. The Hauts reside at 2248 Criston Dr., Newport News, VA 23602.

Lt. Larry R. Myers (Math) is currently assigned to the 93rd Engineer Company (MAB) in Germany. Although in an overseas assignment, he is pursuing an M.B.A. from the University of Utah and anticipates doing further graduate work in the operations research/systems analysis field. Mail may be directed to Larry as follows: Lt. Larry R. Myers, 309-54-1702, 93rd Engineering Company (MAB), APO, NY 09061.

'75

2nd Lt. Thomas D. Spainhour (Ch.E.) has completed the ordnance officer basic course and has begun the chemical staff officer course at the U. S. Army Ordnance Center & School at Aberdeen Proving Ground, MD. His current address is E1349-F Grant Court, Edgewood Arsenal, MD 21010.

David J. Bundy, Jr. (M.E.) has taken a position as test director in charge of wheeled vehicles (as Dave puts it: "which could be anything from dollies to semi tractor trucks") for the U. S. Army Material Command at Aberdeen Proving Ground, MD. "I'm near the Susquehanna River (two blocks from it) and a half a mile from the Chesapeake Bay," he continues. His address is 460 Green St., Apt. 1, Havre de Grace, MD 21078.

Echoes

In Memoriam

'98

Belated word has been received on the death Feb. 11, 1973 of **Charles E. Theobald** (E.E.). Theobald began his career with the New York Telephone Company upon graduation and retired from the company as a plant engineer.

'09

Glenn M. Curry (C.E.) died in LaJolla, Calif. Prior to his retirement he was owner and president of Curry Equipment Company in Philadelphia.

'11

J. Newell Stephenson (Ch.E., M.S.) internationally known editor and publisher in the Pulp and Paper Industry for over 50 years, died Nov. 10. Stephenson received his MS from Rose and remained to teach until 1913. He left Rose to become co-founder of the Pulp and Paper School at the University of Maine and continued in the field as editor and publisher of several pulp and paper magazines. His career was highlighted with a number of honors including the Bronze, Silver and Gold awards for his contributions to the pulp and paper industry.

'12

H. Lloyd Yingling (E.E.), retired power plant operator, died March 5. Yingling had formerly been with Princeton Mining Company in Princeton, Ind. for 30 years.

'14

James G. Moore (M.E.), retired construction engineer, died Oct. 8 in Columbus, Ohio. Moore had been associated with the Central Trust Company in Cincinnati.

'15

Edward "Red" Bundy (E.E.), retired steel fabricator, died July 10 in Johnson City, Tenn. Bundy has been associated with Maxon Construction in Oak Ridge, Tenn. until his retirement in 1956.

Henry L. Coles (Ch.E.) died May 3 in Ojai, Calif. Coles formerly headed the department of Chemistry at Michigan College of Mining and Technology, was branch head of the Naval Ordnance Test Station in China Lake, Calif., and retired in 1962 as Director and Head Master of Valley Preparatory School in Redlands, Calif.

Winter 1976

John M. Sanford (Ch.E.) died Feb. 9 in North Hollywood, Calif. Sanford operated a chemical laboratory in Terre Haute and also worked at the U.S. Testing Service laboratory prior to joining his son-in-law as business manager of Davis Scientific, Inc., LaJolla.

'16

George M. Maier (E.E.), researcher and developer in the manufacture of heating and air conditioning products and production facilities, died Sept. 12. Maier retired in 1957 after 41 years with American Radiator and Standard Sanitary Corporation in New York City. Following his retirement, Maier made his home in Mt. Lebanon, Pa.

Roy I. Kattman (C.E.) died Dec. 31 in Bicknell, Ind. Kattman had formerly been with Enoco Collieries, Inc. as a design engineer.

'17

Lester J. Backman (C.E.), structural and consulting engineer, died Nov. 8. Backman was a pitcher for the Cardinals of the National League before pursuing his engineering profession. He retired after 31 years with Ferro Construction Company.

'18

Chester W. Falls (E.E.), former standards engineer for General Electric, died Jan. 14 in Scotia, N. Y. Falls joined G.E. upon graduation and retired in 1961 after 43 years with the company. He was also active in the United Methodist Church, serving a year in Alaska as a representative of the National Board of Missions.

Chauncey S. McKee (C.E.) died Jan. 3 in Vincennes, IN. He had retired from the Indiana State Highway Department after 42 years in engineering and executive duties.

'21

Carl W. Schroeder (E.E.), formerly with Bendix Corporation for 22 years, died July 18 in Orlando, Fla. Following his retirement in 1962, Schroeder moved from South Bend, to Orlando where he invested in stocks as a private broker.

Mrs. Ursula MacLean Dies

Mrs. Ursula MacLean, widow of Prof. Edward MacLean, professor and chairman of civil engineering from 1937 to 1962, died Dec. 24 in Brynmawr, PA. She is survived by a daughter, Miss Mary MacLean of Brynmawr. Burial was in Terre Haute.

'23

Allen J. Weinhardt, Jr., (E.E.), former owner and honorary chairman of the board of Freitag-Weinhardt, Inc., of Terre Haute, died Oct. 17 at Terre Haute. Since 1942 Weinhardt has served in the second generation management and ownership of the heating, plumbing and air conditioning contracting company.

'25

Harold E. Schoonover (E.E.) died July 13 in the Philippines. Schoonover had formerly been with the Air Force as an electrical engineer in the Philippines, retiring in 1971.

'26

James E. Letsinger (E.E.) died July 9 in Fort Wayne, Ind. Letsinger had retired as a design engineer in 1960 from General Electric Company in Fort Wayne.

'29

Harold F. Schatz (M.E.), former superintendent of engineering for American Can Company, died July 3 in Terre Haute. Schatz joined American Can following graduation and retired in 1972 after 42 years with the company.

Volney Hutchinson (M.E.), died January 5 in Highland Park, Ill. Hutchinson spent his career with Teletype Corporation, rising to superintendent of manufacturing engineering.

'32

Robert J. D. Finrock (Arch, B.S.C.E. '42) died Oct. 24 in Winter Park, Fla., where he was President of Finrock Industries. His company, located in Orlando, was involved in the manufacture of concrete products and sale of allied construction materials.

'41

Robert D. Phelps (M.E.) died Feb. 3 in Houston, Texas. He was president of R.D. Phelps & Associates in Houston. For many years he was associated with his father and brother, John '33 in Phelps Manufacturing Company of Terre Haute.

'49

Word has been received of the September death of **Fredrick F. Sherry** (C.E., Jan.). Mr. Sherry had been President of United Development Company in Chicago, Ill.

Miscellany

40 Participate

John Schmidt '76 and Ross Kuykendall '60 Top Homecoming Golfers; '55 Best Team

John Schmidt '76 and Ross Kuykendall carried off individual low gross and individual low net honors and the Class of 1955, represented by Joe Williams, Dick Gordon, Bob Stewart and Duray Potter, won the class honors in the Homecoming golf tournament played at the Country Club of Terre Haute links.

Schmidt fired a red-hot 76 for top honors, while Kuykendall took the low net (score plus year of graduation) as he toured the course in 80 strokes.

The low team gross went to the foursome of "Clancy" Duttlinger '72, Bill Duncan '70, Kuykendall and Engineer golfer Steve Clark '76. The low team net honors went to the foursome of Clarence Anderson '25, Steve Mueller '68, Schmidt '76 and Vern Fellows '62.

Fellows served as chairman of the special golf tournament which saw over 40 alumni and members of Rose-Hulman team participate.

Richard Kuehl '50 Bicycles 435 Miles To Homecoming

When members of the Class of 1950 stoked up conversations during their 25th reunion, probably none was better armed than Richard J. Kuehl of Midland, Michigan.

The story of his trip back to Homecoming '75 was quite interesting in itself--a 435.7 mile bicycle ride over the little-traveled roads of eastern Michigan and an indirect path from Angola, Ind., to the front of the Main Building at Rose.

Why would a man choose to make the trip by bicycle? "The challenge," beamed Kuehl, general purchasing agent-capital for Dow Chemical Company. "I just wanted to prove to myself that I could do it."

Kuehl's son, Dale, a sophomore chemical engineering major at Rose-Hulman, may have had something to do with the decision--the younger Kuehl having recently bicycled 2,800 miles across Canada from Vancouver, British Columbia, to Sarnia, Ontario.

Kuehl rode in excess of 95 miles the first three days of his trip, pedalling from Crawfordsville to Terre Haute in the morning of the fifth day.

"Energywise, it was no problem," related Kuehl. "I've always tried to keep in shape by cycling in the summer and curling in the winter. I did have one fall on a freshly sanded road near Thorntown, Ind., which required re-aligning the front wheel. Other than that, the trip was great."

Kuehl returned home by car.

Why?

"Because of time . . . fatigue," exclaimed Kuehl in the hearty tone of a man who had just achieved a goal he's not likely to want to better or repeat.



CARIBBEAN CRUISE -- A number of alumni and former faculty participated in a one-week RoseTech Caribbean Cruise in November. Seated (left to right) are Mrs. John Bloxsome, Mrs. John Montgomery, Mrs. Wendell Watkins, and Mrs. Clifford Cross. Standing (left to right) are Carlyle Wokasien '51, Mrs. Wokasien, Don Alexander '44, Mrs. Alexander, John Montgomery '32, Wendell Watkins '28, Mrs. Guthrie, Frank Guthrie '44, Alumni Secretary Anna Mary Turner, Kenneth L. DeBlois '22, and former faculty members John Bloxsome and Col. Clifford Cross. Reporting on the cruise to Cap Haitien, San Juan, St. Thomas and Puerto Plata on board the M/ S Skyward, Miss Turner said, "Fantastic, but probably too much food."

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