

**UPI**  
**journal**

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**1963**  
**1972**

*... a decade of progress complete*



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different  
breed

Ready to take on any challenge. Sure-footed ability. Lean and hungry for the chance to solve your parts problems through forging. That's **Wyman-Gordon** 

Vol. 76, no. 3  
October, 1972

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# A Decade of Progress Complete

by Roy A. Seaberg, Jr., '56

**P**RIDE IN OUR PAST, FAITH IN OUR FUTURE was the slogan which keynoted the Centennial Fund program announced in 1963. Most WPI alumni probably remember that three-year drive. And most have by now probably forgotten that the Centennial Fund was only the beginning phase of a ten-year, \$23 million development program.

Well, we'd like to bring you up to date. As of now, the original program has met and surpassed its goal by \$500,000, and it did it a year ahead of schedule.

## *Beginnings and New Beginnings*

"Although we formally kick off the Centennial Fund tonight," said Fund Chairman Philip M. Morgan in 1964, "we do so with quite a running start. We begin our efforts with a head start of \$3,085,869.90." That \$3 million was to grow to \$15,400,545.65 before the Centennial Fund was concluded in 1967. The originally announced goal for the three-year program had been \$15 million.



**»» We begin our efforts with a head start.**

— Philip M. Morgan

This past June, Milton P. Higgins, chairman of the WPI Board of Trustees, announced the completion of the ten-year program. "The faith that Phil Morgan and all of us had in 1964 when we set out upon this task has been renewed again," said Higgins. "As we plan for the next ten years we can do so with increased confidence that the progress of the past decade has placed WPI in a secure but

not complacent position. Our slogan for the Centennial Fund was 'Pride in our Past, Faith in our Future.' It would seem that we were entirely justified in that faith."

## *The Accomplishments . . .*

The original ten-year plan was WPI's most ambitious undertaking. Under it, the following achievements were realized:

- Four new buildings were built on campus (the George C. Gordon Library, the Harrington Auditorium, the Alden Research Laboratories' Building Number One, and the Stoddard Residence Center)
- Four new faculty professorships were endowed (the George I. Alden Professor of Engineering, the George F. Fuller Professor of Mechanical Engineering, the Harold J. Gay Professor of Mathematics, and the Leonard P. Kinnicutt Professor of Chemistry)
- Improvements were made to eighteen existing campus buildings and other facilities (including major renovation to Daniels Commons, Alumni Field, Salisbury Laboratories, and most of the previously existing departmental libraries)
- Funds were set aside for increased endowment, faculty salaries, financial aid, and operational expenses.

## *And the Growth . . .*

It has been a decade of unparalleled growth for WPI. At the June Trustees' meeting, President George W. Hazzard gave this breakdown:

- "WPI's enrollment grew from 1294 students (of whom 1191 were undergraduates and 103 were graduate students) to last September's figures which showed 1,945 undergraduates and 295 graduate students, for a total enrollment of 2,240 students." This represents an increase of 73 per cent.



- “The full-time faculty has grown from 124 to 170.” This represents an increase of 37 per cent, and indicates that the student-faculty ratio has gone from 10:1 to 13:1 during the nine-year span.
- “The college’s endowment has grown from \$17 million to \$28.9 million, including appreciation of funds.” An increase of 70 per cent.

## *And the Problems . . .*

With the growth, and with the economic and social changes that affected the late 1960s, WPI has experienced its share of related problems. At the conclusion of the Centennial Fund in 1965, President Harry Storke reflected: “We now have completed phase one, and for this we are all thankful. But where do we go from here? The most obvious fact which confronts us when we contemplate tomorrow from today is that our estimates of yesterday were less than adequate.”

In the period 1967-1971, WPI along with virtually every college and university in the United States found itself in a position of deficit financing. To close the gap between income and expenses, a number of steps were taken. Budget controls were sharpened, fund-raising activities were stepped up, tuition was raised from \$2,100 to its current \$2,650, and a one-year moratorium on wage increases was instituted.

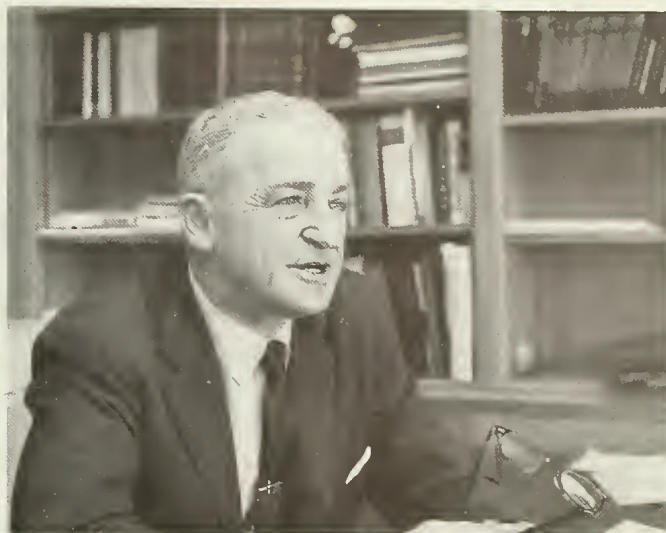
But these measures were simply not enough. As Chairman Higgins reported, nearly \$1 million from the Centennial Fund was used for operational purposes prior to 1971. That money, originally intended as capital, had to be used to pay the bills.

As President Storke had noted in 1967 when he predicted these problems: “It’s not that we were poor estimators, or that we were overcautious. . . It is simply, and I am sure that this comes as no surprise to any of you, that the pace of scientific progress in our world of today has accelerated beyond the ability of any of us to foresee three years ago. And equally, there is no one here today who does not fully understand that this accelerating pace of progress has been accomplished accompanied by escalating costs of the education of engineers and scientists.”

The string of deficits, once begun, increased every year until it peaked at \$398,007 in 1970. Last year, however, President Hazzard was able to announce in his annual report that “It was a turn-around year,” and that while the college still showed a deficit it was only a small fraction of the preceding year’s. Finally, at the close of the 1971-72 fiscal year the string was broken. For the first time in six years WPI has closed its books on black ink instead of red.

## *And the Changes . . .*

Increased costs are easily pinpointed, but to eliminate them without lowering educational standards was not a very simple task or one very lightly undertaken. And so for this reason, perhaps more than any other (and there were indeed others!), President Storke appointed the President’s



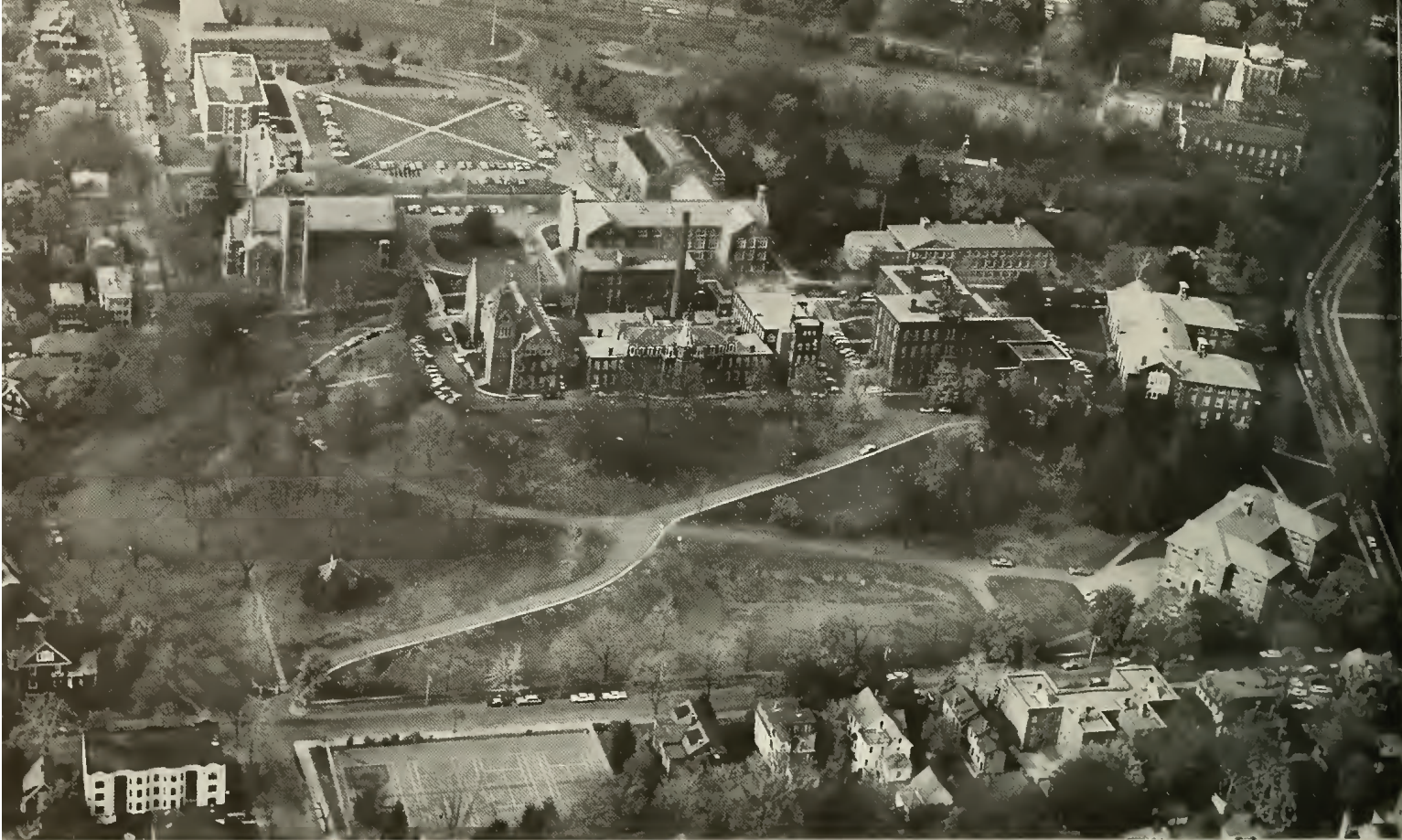
**It’s not that we were poor estimators, or that we were overcautious . . . It is simply that the pace of scientific progress has accelerated beyond the ability of any of us to foresee . . .**

*— President Harry P. Storke, 1967*

Planning Committee in December 1968. Supported by more than \$100,000 of WPI funds, the committee spent the next eighteen months in an extensive and intensive study to resolve the dilemma of providing an educational program of distinction at WPI which was at the same time economically feasible in the light of then-current and future financial resources.

The result was the WPI Plan, a landmark in American engineering and scientific education. The story of the Plan has been told elsewhere, as well as the support which it has attracted. The Plan is bringing about a much closer liaison with industry and government and should significantly improve the mutual respect among students, faculty, administration, and alumni. WPI Plan graduates will continue to combine the theoretical and the practical, which has been a hallmark of WPI alumni, and they will do it in a way uniquely fitted to the problems of the day.



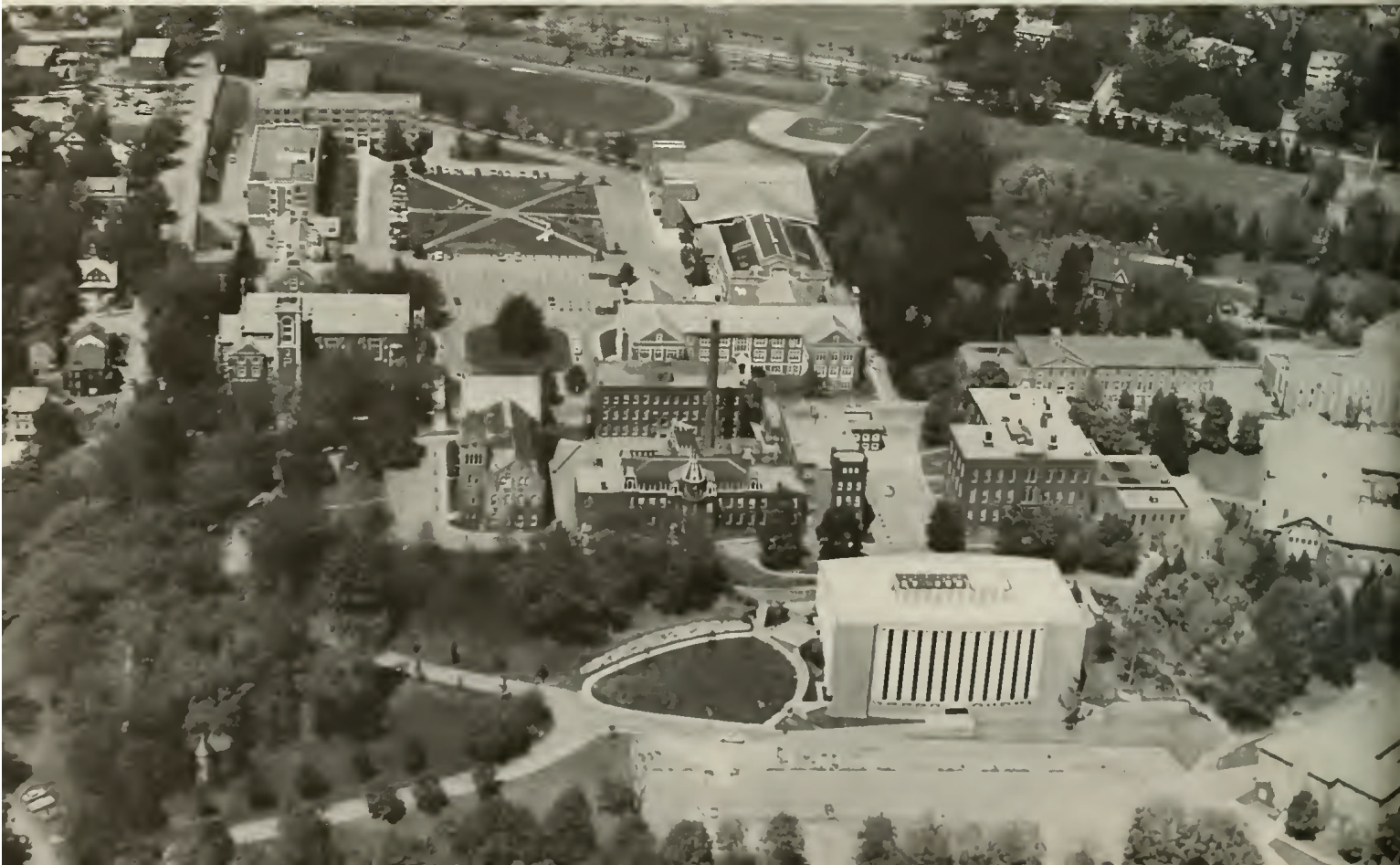


↑ THEN

The campus as it appeared a decade ago. The only exception is the Goddard Hall of Chemistry and Chemical Engineering, which does not appear in this photograph.

NOW

The campus today, showing the Gordon Library, Harrington Auditorium, and Stoddard Residence Center.





## And the Changes Yet to Come . . .

WPI planning has been more than financial and educational. The Institute is now attacking the problems of using resources and facilities in the most effective way. In 1970 WPI commissioned Charles W. Moore Associates, architects and planners, to evaluate WPI facilities and make recommendations concerning the college's present and future problems of spatial planning. Their \$50,000 report (underwritten by a grant from the George I. Alden Trust) was submitted in 1971. A trustee committee chaired by Paul Morgan, son of Philip Morgan who headed up the Centennial Fund, is now reviewing the Moore proposals.

"The Resources and Planning Committee," said Chairman Morgan, "is directing its studies toward better student center facilities and modifications of academic buildings to increase educational effectiveness, particularly in the light in anticipated learning-pattern changes brought about by the WPI Plan."

What amounts to the first step of the plans for the future was announced on Reunion Day in June, when Warren A. Ellsworth, '22, climbed onto a bulldozer and broke ground for the Ellsworth Residence, which will house 94 students in sixteen townhouse apartments. A gift of \$250,000 toward this residence was made by the Ruth H. and Warren A. Ellsworth Foundation, and it nicely coincided with the fiftieth anniversary of Warren Ellsworth's graduation from WPI.



Warren A. Ellsworth, '22,  
breaking ground in style

Adjacent to the Ellsworth Residence on Institute Road will be the George Freeman Fuller Residence, made possible by a \$250,000 gift from the George F. and Sybil H. Fuller Foundation. Fuller, a noted Worcester industrialist, former president of Wyman-Gordon, and an inventor with over 1,000 patents to his credit, was long a benefactor of the college.

Together, the Ellsworth and Fuller residences will house 196 students in 29 townhouse apartments and 11 efficiency units. This will go a long way toward alleviating the student-housing shortages at WPI. This new type of housing also will be available to married students and faculty.

## WHERE IT CAME FROM

Business and Industry . . . . .	\$ 2,518,744
Alumni . . . . .	8,210,491
Friends . . . . .	5,517,722
Foundations . . . . .	6,438,740
Government . . . . .	1,116,333
Other . . . . .	39,396
	<hr/>
	\$23,841,426

## WHERE IT WENT

Endowment	
Professorships . . . . .	\$ 1,600,000
Scholarship Aid . . . . .	1,400,000
Other Restricted . . . . .	2,020,000
Unrestricted . . . . .	7,300,000
New Buildings . . . . .	7,400,000
Operations	
First Phase . . . . .	1,440,000
Second Phase . . . . .	2,640,000
	<hr/>
	\$23,800,000

## An Optimistic Look Ahead

As WPI looks forward to its next ten years, there is a definite spirit of optimism which is shared by others. This spring the National Science Foundation awarded WPI \$733,400, the largest grant ever given under its College Science Improvement Program. There was the \$200,000 grant from the Sloan Foundation in 1970, \$188,000 from the Carnegie Corporation in 1971, \$40,000 from the General Electric Foundation in 1972, and the recently announced grant of \$30,000 from the National Endowment for the Humanities. These independent judgments of WPI's educational leadership give confidence for the future.

"We intend to continue our efforts in the days ahead," President Hazzard recently said, "to insure that WPI will remain at the forefront of sound educational advancement." WPI is one of the few schools of its kind that can make that statement today. ■

**»» We intend to continue our efforts . . . to insure that WPI will remain at the forefront of sound educational advancement.**

— President George W. Hazzard, 1972

# Beyond the Bricks and Mortar

## What New Buildings Mean in the Life of a College Community

**F**OUR NEW BUILDINGS were added to the WPI campus during the period 1967 to 1970. When they appeared, the story of the bricks and mortar was told — the pictures of construction, the costs, the fearless predictions of how wonderful things would be with the new facility. This article will not repeat those things. The proper questions to ask at this point in time, when all have been in use for several years, are: How has it all worked out? What difference has it made in the life and work of the people who use those buildings every day?

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### *George C. Gordon Library*

What was it like on campus before the Gordon Library was built? As Albert G. Andersen, Director of the library, puts it: "Well, we had departmental book collections which ranged from adequate to excellent. The one big problem was that there was no one to help the user with the material."

One may well ask just what is a modern library. It is certainly books and journals; these are a prerequisite. Although size is important, the quality of the collection is more essential than the number of volumes. According to Professor Andersen, the 110,000 volumes in the Gordon Library are a good representation of the degree work in engineering, sciences, and the humanities.

"Next in rank, and in some ways more important, is personnel," continues the director. "Unless a library has well-trained and informed librarians, no matter how fine a book collection, it cannot be fully utilized. Informed and willing librarians breathe life into the body of the book collection. It is essential that reference works, indexes, and abstracts be interpreted to the user. The professional librarian can suggest new paths in the discovery of information. Our Gordon Library staff is excellent."

### *Library No Longer Means Book-place*

Another factor that makes for a modern library is the willingness to remain modern. Acceptance of new ideas and programs as they are introduced with new forms of information storage is essential. Nowadays such types of information storage include microform and microfiche, audio tapes and cassettes, films and film loops, video tapes, slides, and other visual aids. All these are aspects of the new meaning and importance of the term *audio-visual*, and they are revolutionizing the library and its potential use. Through access to computers, data-storage banks, closed-circuit television, teletypes, and telefacsimile, the library takes on even greater potential as an information center.

"Many people feel the term *library* (from Latin word for book) should be replaced with *media center*," Professor Andersen has said. "Personally, I see no reason to change names. The old adage, 'By yee works yee shall be known,' is still a good statement. If you're not willing to experiment, no matter what you call yourself, then you are always going to remain the same. Thus I feel that the term library has grown to become an ever broadening concept of information and service."



The Audio-Visual Room in use—  
8 videotape players and no noise!





BEFORE—The library facilities of Alden Memorial Auditorium



AFTER—A typical study area in Gordon Library

### *Things That Never Were*

It used to be at WPI that there was no place for the display of things. Traveling exhibits, creations of local artists and WPI people could not be shown. But the aesthetic was not forgotten in the Gordon Library. The display areas have proved to be one of the greatest assets of the building, a means of introducing art in its many forms to the campus.

A related and significant resource is the Music Room, which is an area designed for exclusive use of the WPI community and its recreational and enjoyable listening — whether it be classical, folk, or hard rock. Its facilities include records, tapes and cassettes, FM radio, and the equipment needed to play a dozen different items at once for as many listeners.

The library also houses the Institute's Archives and special collections, which were for so long ignored.

The display area on the top floor of Gordon Library





Main campus entrance to the library

## *How the Library Affects the Campus*

In many ways the library anticipated and paved the way toward the WPI Plan. "For one thing," according to Professor Andersen, "here all the departments got together in a major cooperative venture in centralizing the library services." The Gordon Library building has enabled all the information resources of WPI to be centralized, and to be all accessible at one place. Even the computer center is located on the lower floors of the building!

"Certainly the Plan could not have developed as fast as it has without the Gordon Library, for so much of its success is predicated upon a strong and readily accessible collection, staff, audio-visual materials, and equipment. Use of the library has almost doubled each year for the past five years. When seven-week terms were instigated in September, the Library was booming by the second day of classes."

Flexibility of design and adaptability is another important aspect of the library building. Coeducation and the WPI Plan were both introduced after the completion of the Gordon Library, and both have been easily accommodated. And changes will continue. What is accepted one year may be outmoded in five. Adaptability of internal space is needed, and this was taken into account when the library structure was designed, by the use of uniform lighting, few permanent internal walls, and ample wiring. The building can grow as needed to service WPI programs as they develop.

"One thing is certain, the printed book or journal will never go out of style. Yet we must be willing to accept micro-reproduction for seldom used materials and for compactness of storage," Professor Andersen continues. "Today's library must be willing to add and, most of all, update equipment as it is improved. There should be fewer reluctant users if the equipment is easy to use and is easy on the eye."

”Certainly the WPI Plan could not have developed as fast as it has without the Gordon Library, for so much of its success is predicated upon a strong and readily accessible collection, staff, audio-visual materials, and equipment.

—*Librarian Albert G. Andersen, 1972*

## *Harrington Auditorium*

Harrington Auditorium is a unique building. It is an auditorium and a gymnasium, and it fulfills these disparate functions with ease. It has space for 2,500 spectators at athletic events, and all the facilities needed for varsity and club sports as well as the physical education programs. When the main floor is used, 3,500 people can be seated,



Squash facilities at Harrington—  
in use!





Harrington Auditorium from the quadrangle

and the building can be used for a variety of functions. Equipped with a press, radio, and television platform, it is one of the few halls in New England with sufficient lighting for color television.

"It is no exaggeration to say that the Harrington Auditorium has exceeded all our expectations of the utility of the building," according to Professor Robert W. Pritchard, head of the Department of Physical Education and Athletics. "The erection of this facility has permitted the Physical Education Department to initiate the concept of 'lifetime sports' as an optional choice in the required program. With much larger freshman and sophomore classes, we can now use Alumni Gym and Harrington Auditorium at the same time. New opportunities in squash, handball, volleyball, badminton, table tennis, golf, and so forth are being taught, among other sports which our decision-makers of the future can learn to enjoy and pursue in future years."

Among the many athletic events which have been held in Harrington Auditorium have been a New England wrestling tournament and several district- and state-level high school basketball tournaments. According to Professor Pritchard, these are rapidly spreading the good word of WPI all over New England, and the comment that "there is no more beautiful basketball arena anywhere" is heard again and again.

Another department, Military Science, is also located in Harrington, and they find the building's proximity to the athletic fields and the central quadrangle very helpful.

Social events make up a significant part of Harrington's life. Concerts are held there throughout the year, and it is not unusual to have up to 4,000 students (and non-students) inside stomping their feet. Whenever the Harlem Globetrotters come to Worcester, they perform in Harrington, always to a packed house.

»» **The Harrington families gave us more than a building . . . a mecca for people and groups, a place where healthy bodies are trained, a place for entertainment, for campus gatherings, and a place where a social and athletic atmosphere can prevail.**

*— Professor Robert W. Pritchard*

There has also developed what Professor Pritchard calls a "new kinship" with local industry, as they have discovered that Harrington offers them a sizable auditorium perfectly suited to such diverse uses as service banquets and children's Christmas parties. Professor Pritchard predicts this type of use will increase.

"The Harrington families gave us more than a building," says Bob Pritchard. "Their generosity has given WPI and the community a mecca for people and groups to meet, a place where healthy bodies are trained, a place for entertainment, for campus academic gatherings, and a place where a social and athletic atmosphere can prevail."





INFORMAL—Harrington Auditorium in its normal, everyday guise

FORMAL—Harrington as it is set up for Commencement and other major nonathletic functions



” It is no exaggeration to say that Harrington Auditorium has exceeded all our expectations . . .

— *Professor Robert W. Pritchard*



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## *Alden Research Laboratories - Building Number One*

It seems like such an unprepossessing name for a major facility — Building Number One. Yet behind this obscure title is the most versatile, possibly the most important building on the entire 240 acres of the Alden Research Laboratories.

It serves four distinct functions: administration, education, service, and research. Building Number One's office wing houses the ARL library, two classrooms, and a small auditorium which has been used for such things as thesis defense, staff conferences, and ASME and MSPE professional meetings. In the same wing are cubicles for twenty graduate students and offices for the ARL administrative staff.

The engineering wing, the Charles M. Allen Experimental Laboratory, has seen a number of exciting developments. Student demonstration experiments are being installed in a new environment and in a format that allows for greater flexibility and student use. Included are a new self-contained glass-sided flume with variable flow and a complete pressure-drop test rig with a variety of pipe sizes and configurations.

There is one small room devoted to weight-standards work. It has the capacity of doing Class A work on weights

up to 50 pounds as traceable to the Bureau of Standards. As of this writing, ARL has 10,000 pounds in precision weights for checking platform scales.

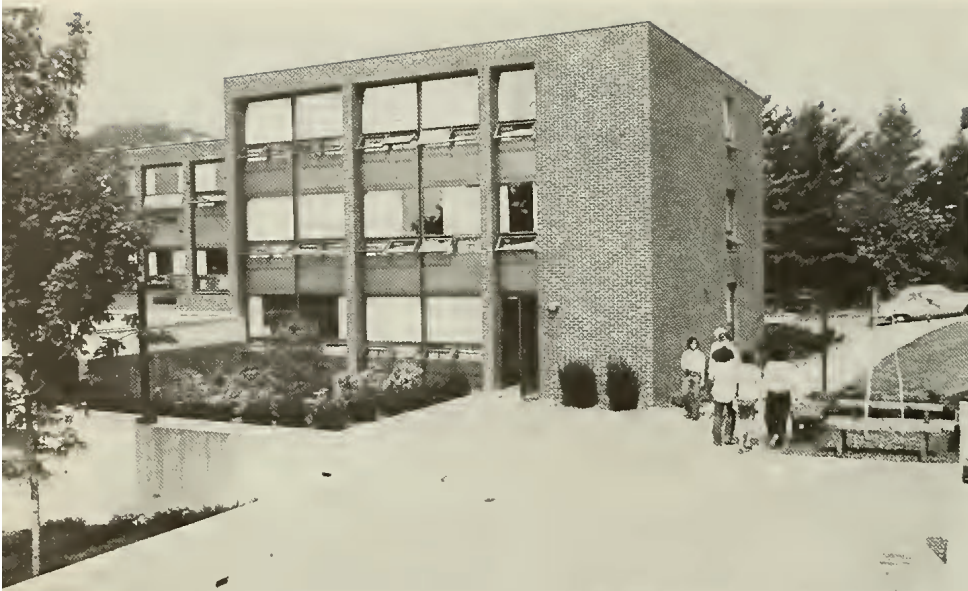
On the main floor, and below, of the experimental laboratory a complete large flow calibration loop has been developed. The power generation unit will drive up to 750 horsepower of pumping load. The pumps have a range of capacity from quite small to 20,000 gpm with heads varying from a few feet to 700 feet of water. The weigh tanks are 100,000 and 10,000 pound capacity and the sump beneath the flow has capacity for over 200,000 gallons. Because of a heating capability for the water in addition to the pumping capacity, the Reynolds number potential for this loop has put ARL back in the forefront in the flow measurement field.

A new facility on the floor of the laboratory is a flume over 40 x 9 x 4 feet with a built-in wave generator. Although this equipment has been installed for a specific project and client, it is a permanent installation and will be available for a variety of student and sponsored projects.

Alden's director, Lawrence C. Neale, summarizes it like this: "In all, the complete building (service and experimental wings) has provided the possibility of developing staff, student population and instruction at the graduate and undergraduate level. Professional activities supported by ARL have been enhanced. Finally the technical capability of the ARL complex has been substantially improved."







»» It's nice here. It's not like a dorm, really.  
— Jack Williams, '73

»» Daniels is like a jail by comparison — blah!  
— Bob Levi, '73

## *Stoddard Residence Center*

To many students a dorm is a dorm is a dorm and that's all there is to it. But the students who live in Stoddard have a very different feeling about their college home.

Jack Williams, '73, puts it this way: "We were next to last in the lottery list, and we had an apartment all lined up, but then we got this room over the summer. So we gave up the apartment and took this. It's much easier, more convenient, cheaper, everything. . . it's nice here. It's not like a dorm, really. If they had said we could have a room in Morgan or Daniels, I'd think twice about it — Riley, forget it."

Jack's roommate, Bob Levi, agrees: "Daniels is like a jail by comparison — blah!"

Probably the best appreciated feature of life at Stoddard is the quiet. Mark Mooradian, '73, who is resident advisor to the Stoddard "B" building, says that he has never had a complaint about noise while he's been at Stoddard.

"The system of rooms here definitely cuts down on the noise. For one thing, a lot of the noise in dorms comes from kids fooling around in the halls. Here there's not that much room to fool around in, maybe ten or twenty feet. Over in Daniels, where I was last year, it was a lot different.

There the biggest thing is frisbee in the halls, hockey in the halls, running up and down the halls, track meets in the halls, bike riding in the halls, everything you can imagine. And the halls there are nicely set up for all that sort of thing — water sliding, everything.

"Here in Stoddard none of that can go on, and that cuts down the noise; and in addition to that there are the rugs and the soundproofing in the ceilings. I've never heard anything that has gone on upstairs over my head, and I've never had one complaint. It's great!"

Jack Williams agrees with Mark. "You can't hear anything. There are only four double rooms to a section. A kid down at the other end can play his stereo as loud as anything, but if you close your door you can't hear any of it. Sound doesn't travel."

Lest we leave you with the impression that all is perfect at Stoddard, Jack had this complaint to make: "The only thing bad here is the carpets. They picked the wrong kind, they put down nylon carpeting, and for kids who smoke it's terrible. You drop an ash and it melts the carpet and costs a fortune to fix."

Residents are in accord that they like Stoddard and the way it is furnished. However, I asked Bob Levi if the small refrigerator by his desk came with the room, he laughed and said, "No. That's a great convenience, though. We don't know how we survived freshman year without one." ■

»» Over there in the other dorms the big thing is frisbee in the halls, hockey in the halls, track meets in the halls, bike riding in the halls . . . water sliding . . . Here, I've never heard anything that has gone on upstairs over my head. It's great.

— Mark Mooradian, '73



# Chairs Aren't Always To Sit In

by Ruth Trask



**M**ANY people think that the only purpose of an endowed professorship is to pay a faculty member's salary. In fact, that turns out to be one of the least of the things accomplished.

Four chairs were endowed at WPI in the ten-year program. The latest of these was announced less than a year ago. The WPI chairs involve an additional grant to the faculty member, to be used to broaden his professional and personal horizons. The thing about the system is, it works.

On the following pages we hope to show you through their own words just how these faculty members have used their new resources, and what the endowed chair has meant to each of them. It's far more than a matter of money, as you'll see.







"It's a great feeling to know that I have control over a certain amount of funds that enable me to pursue my professional interests," says Prof. Kenneth E. Scott, '48, who was awarded the first George I. Alden Chair in Engineering.

"So far the grant has made it possible for me to attend several meetings and workshops in my field," Scott continues. "Last May, for example, I presented a paper on the use of multi media in a self-paced (IPI) course in control engineering at the Northeast Audio Tutorial Conference in New Jersey."

Scott, who is professor of mechanical engineering and Institute Director of Audio-Visual Development, has, during the past year, put on a workshop and presented papers on the application of technology to teaching at the annual meeting of the American Society of Engineering Education in Texas. He has also joined the National Association of American Broadcasters and the Association for Educational Communications & Technology.

"Actually, I'm kept pretty busy right here with teaching and advising," he confessed.

He need not have bothered to explain. A student, one of Scott's advisees, shuffled through a pile of manila folders on a table by the office door, found what he was looking for, and walked out, leaving the door open.

"Maybe you'd better shut it," Scott suggested. "It probably won't do much good though. They always manage to find me. . . ." He laughed.

(Perhaps this "availability" to those who need him is one of the reasons he was selected as WPI Teacher of the Year in 1971 and why the students dedicated the 1970 *Peddler* to him. Perhaps, along with his outstanding teaching ability, it is one of the reasons he was awarded the Alden Chair.)

"Getting back to the grant," he said. "It has helped me to pursue my recent interests in the application of technology to education."

The phone was ringing and there was a knock at the door. With his hand on the receiver he concluded, "It has let me take advantage of opportunities that otherwise I might have let go by."

Associate Professor of Mathematics Bruce C. McQuarrie, who holds the Harold J. Gay Chair, concurs with Prof. Scott.

"Professional travel and a number of other opportunities have really been opened up for me this year," he admits.

"Last February, because of the extra funds made available through the grant, I was able to present a paper at the International Conference for Mathematicians Interested in Near Rings which was held in Oberwolfach, Germany."

He smiled. "And my wife, Betty, went along with me. Oh, she paid her own way," he added. "But some of her expenses were at a reduced rate. And she didn't cost at all extra in the car we rented. We spent 11 days over there."

He smiled again, remembering.

"In March I went to another conference," he continued. "This time to the Ontario Mathematics meeting in Ottawa where I gave a paper."

Did he use the funds for anything besides travel?

"Oh, yes," he said. "I've purchased quite a few new books and sponsored a speaker for the department."

And for the future? Prof. McQuarrie says he is hoping to attend more meetings with his colleagues. Because he has access to the resources incumbent in the Harold J. Gay Chair, his hopes will undoubtedly turn into reality.





"The Kinnicutt has helped pay for research and travel primarily," says Dr. Herbert Beall, the assistant professor of chemistry who sits in the Leonard P. Kinnicutt Chair.

"At the time I received this particular grant some of the funds were channeled into the purchase of X-ray film for X-ray structure work. We would not have been able to continue this type of work without the Kinnicutt." He paused.

"And, then, of course, there was the trip to New York."

"The trip to New York" turned out to be a meeting of the American Chemical Society where he presented a paper. He said the paper came about as a direct result of the research he had been able to do through the grant.

"I also did something else while I was in New York," he said. "Some sightseeing."

"You mean the Statue of Liberty and the Empire State?" he was asked.

"I knew you'd say that," he replied. "But you're wrong. I visited railway terminals. I'm a railroad buff."

"Did you know that the Jersey Central Terminal is the largest abandoned railway terminal in the world?" he asked suddenly. "And did you know that the Hoboken Terminal has a great hot dog and beer stand on the train concourse where you can sit and watch the comings and goings of the Erie and Lackawanna cars?"

"What you really want, though, to hear is some more about the Kinnicutt," he said.

"Well, we've purchased quite a lot of chemical glassware and new chemicals, so far. Looking ahead, a couple of years from now I expect to attend the International Boron Chemistry Symposium which will probably be held in England. At least I hope it's in England," he went on. "My mother lives there. She's a good baby sitter."

So the family was going, too? "Certainly," he replied.

He didn't volunteer what his method of transportation would be. But it does look as though this is one trip he won't make by train!

There are at least two trips in the future of Dr. Charles C. Reynolds.

Reynolds, who is a professor of mechanical engineering, was recently named the George F. Fuller Professor of Mechanical Engineering.

"Actually," he explained, "I've been more or less conserving part of the funds from my grant so that I can take a term off in order to go to Europe to find out what the new developments are in casting, forging, welding, and plastics."

Germany would be one of his destinations he said. There he will be mostly concerned with metal working. In Birmingham, England, and in France his investigations will turn to casting.

"I also plan to look up some former graduate students along the way," he added. "That always makes things more interesting."

When would he be leaving?

"Soon," he said. "I already have my passport."

Was he planning on doing any travel in this country?


"Yes," he replied. "To Cincinnati-Heald and other companies in the Midwest to discuss co-operative programs concerning student projects."

Had being selected as the Fuller professor benefited him in any other ways?

"Definitely. I've been able to do more development work in the audio-visual field," Reynolds explained. "I've joined several additional professional organizations. As far as new books go, I now purchase any I want although they are expensive. Some cost from \$35 to \$50 apiece."

He paused for a minute. He looked like a man who was happy that he didn't have to personally pay \$35 for each new addition to his library.

"The Fuller has meant a lot," he said. ■



A NOTE FROM THE EDITOR:

WPI is an institution of higher education. It is, therefore, subject to most of the pressures being put on modern American higher education. The following special report is presented as a general view, one we think will interest most of you, on these issues which affect all colleges. We will not, here, try to give our "answer" to each of the points brought out. Because we try to do that consistently in the *Journal*, in our own way. Remember "The Education of the Idiot Box" which appeared in the Spring 1971 *Journal*. You'll be hearing more about WPI's teaching methods in the future, too. And there was the April 1972 Inter-session issue. And the continuing story of the development of the WPI Plan. As a part of the mainstream of modern higher education, we at WPI aim to keep you, our alumni, students, and friends, well informed about what we're doing.

# feedback

## To the Editor:

One of the fringe benefits of being the mother of a doctoral candidate is receiving the *WPI Journal*. I read it assiduously as a way of reducing the generation gap.

But your April Intersession issue which I have just received sent me off into orbit all on my own. The combination of Ben Bova's "Next 100 Years" and Ruth Trask's "Intersession 1972" (people *must* have thought of calling it *Intercourse 1972*?) [Yes, they did! — Ed.] added up to the most stimulating reading I've come across for many a long day.

Specifically, they hit me from at least three directions. For one thing I stopped despairing of where technology is taking us and, with all those marvelous things Ben Bova says can be carried on in outer space, for the first time I saw some sense in NASA. Two, my faith in the validity of the American approach to higher education was recharged: any school system that can come up with the theory and practice of Intersession can't be *all* bad. Finally, I am kicking myself for getting born when I did and thereby missing so much excitement.

Since that is a fact of life that I can't change, all I can do is thank you for giving me a vicarious experience that I wouldn't want to have missed.

Lois Hackett  
Geneva, Switzerland

## To the Editor:

Congratulations to you, to the Publications Committee, and to whomever is responsible for the challenging yet informative articles on Genetic Engineering which make up your August issue.

This topic which will be a major moral and social consideration for the next decade, if not the next generation, should most certainly be brought

to our attention, and you have done it most effectively.

Tech has long been known for its leadership in engineering and for its conservatism in social and political areas of concern, but this is the second or third time the *Journal* has been the vehicle for bringing friends of WPI the story of technological *and* social challenge. Keep it up.

I was on the Tech faculty, in Al Schwieger's department [Economics, Government, and Business], while Walt Dennen was editor of the *Tech News*, and I well remember his response to the ASEE — ECPD advocacy of a five-year undergraduate program in engineering, when he wrote that "some of us have put ourselves on a five-year program already."

Ernest D. Phelps  
Nichols College  
Dudley, Massachusetts

## To the Editor:

I am interested in obtaining 25 copies of the articles on "Genetic Engineering" which appear in your August 1972 issue of the *WPI Journal*, and would be most appreciative of any assistance you might give.

Douglas J. Berndt, Rector  
St. Paul's Episcopal Church  
Kingsport, Tennessee

## A Comment from the Editor:

Someone recently asked why it was that the letters which appear in *Feedback* were so uniformly positive and congratulatory. The only answer is a simple yet puzzling one: Those are about the only letters we receive here, except for a few inquiring (or complaining) about a particular listing in *Completed Careers* or *Your Class and Others*. Obviously, many alumni disagree with individual statements made in *Journal* articles, or with some of those "positive and congratulatory" letters in this section. But they haven't written us. If we get it, we'll print it. *Feedback* is meant to be a forum wherein alumni can talk back to the *Journal* and the Alumni Association and each other. It's your space, not ours.



# INTERSESSION

You liked it last year,  
but you'll love it now.

**Last year** we told you a little bit about Intersession beforehand. This time around it's bigger, and it's better, and we couldn't make up our minds about which courses to advertise. So we sent you the whole catalog — some 160 courses strong.

**Remember**—special rate for alumni, only \$75 a course (regular rate \$110) (and it even includes lunches).

**Remember the WPI Calendar:** October, November, December, Intersession, February . . .

(**Note:** Most alumni were sent copies of the Intersession Catalog. If you didn't receive one and are interested, just drop us a line.)



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# COMPLETED CAREERS

## LAWRENCE C. JONES, '16

Attorney Lawrence C. Jones, 78, died July 9, 1972 in Rutland, Vermont.

He was born in Rutland and later attended WPI where he was a member of Phi Sigma Kappa Fraternity.

Mr. Jones was a former five-term Vermont attorney general and three-term Rutland County state's attorney. He was a partner in the law firm of Jones & Jones.

In 1938 he was elected president of the U.S. Attorney General's Association. His vice president was California Attorney General Earl Warren, who later became Chief Justice of the U.S. Supreme Court.

## DONALD H. C. TULLOCH, '16

Donald H. C. Tulloch, 78, passed away June 1, 1972 in Chadds Ford, Pa.

A Worcester native, he moved to Pennsylvania 27 years ago. For a number of years he served as a national accounts representative for Union Bag Camp Paper Corp., Philadelphia.

Mr. Tulloch, who was a chemical engineer, was a member of Sigma Alpha Epsilon.

## WALTER G. FIELDER, '21

Walter G. Fielder passed away April 21, 1972. He was 73 years of age.

He was born in Worcester, Massachusetts and graduated from WPI in 1921 with a degree in civil engineering. He was the retired area superintendent for Niagara Mohawk Power Corp., Syracuse, N.Y. Previously he was with the Illinois State Highway Dept. and the U.S. Coast & Geodetic Survey.

A member of ASCE, he also belonged to AIEE.

## A. WILBUR BARR, '22

A. Wilbur Barr, 71, died June 28, 1972 in Worcester, Massachusetts.

A Worcester native, he graduated from WPI in 1922 as a civil engineer. He was a member of Phi Sigma Kappa.

Mr. Barr was a printer and part owner of the former King-Barr Press in Worcester for many years prior to his retirement in 1967.

## JOHN A. MOTT, '31

John A. Mott, 63, a retired civil engineer, died June 3, 1972 in Tennessee.

He was born in Orange, N.J. and received his BS from WPI in 1931. During his career he was employed by the Tennessee Valley Authority, the Container Corporation of America, A. F. Hedman & Associates and Gentry Steel, Inc., Chattanooga.

Mr. Mott was a member of Sigma Xi, Tau Beta Pi, and the Tennessee Society of Professional Engineers.

## BASIL G. CONSTANTINE, JR., '58

Basil G. Constantine, Jr., died May 27, 1972 in Beverly, Massachusetts at the age of 36 years.

Born in Winchester, he graduated from WPI in 1958 as a mechanical engineer. He was the president and major stockholder of Gurnard Manufacturing Co., Inc., Beverly. A pioneer in the use of numerically controlled machinery, his corporation manufactured digital components for lunar modules. He was a member of the Numerical Control Society, ASME, and SESA.

## JAMES L. DeVENUTO, '58

James L. DeVenuto passed away in June in Hammond, Indiana, following a short illness.

He was born in Marlboro, Mass., attended WPI, and was later employed by the Progressive Tool Co. of Chicago, Ill.

## BRIAN M. BUMPUS, '71

Pfc. Brian M. Bumpus, 23, an Army reservist taking part in a two-week reserve training session at Camp A. P. Hill, Virginia, was killed July 15 in a truck accident near Quantico.

He was born in Rhode Island and later studied management engineering at WPI. He was employed by The Fair Department Store in Auburn, Mass.



# WPI ALUMNI TRUSTEE POSITIONS

At the June 1972 annual meeting of the WPI Alumni Association, among the articles approved in the revisions to the Constitution and By-laws of the Association was one which formed a Trustee Search Committee of the Association. The committee is composed of five members representing five decades of alumni and they are charged with the responsibility of recommending annually to the Alumni Council the name of at least one alumnus for each alumni vacancy which exists on the WPI Board of Trustees. The Alumni Council makes the decisions on the candidates to be nominated for the positions on the Board and forwards the nominations to the Board for election.

For approximately fifty years the Board of Trustees of WPI has granted to the Alumni Association the privilege of recommending to the Board three candidates per year for positions on the Board. Thus there are always fifteen Alumni members serving on the Board as Alumni Trustees. These candidates, when elected by the Board, serve for a term of five years and may be re-elected once.

In June 1973, Dr. John Lott Brown, '46, Raymond J. Forkey, '40, and Morton B. Joselson will be completing their terms on the Board. All three, however, are eligible to be re-elected.

There are two distinct ways in which alumni may participate in the selection of alumni members of the Board of Trustees. First is the actual proposal of the alumnus to the Alumni Council for consideration for an Alumni Trustee position. As stated in the By-laws of the Alumni Association, the mechanics of proposal are three-fold and include alumni chapters proposing candidates to the Alumni Council by submitting a signed proposal, together with a statement by the candidate of his willingness to serve, to the Trustee Search Committee. This

proposal must contain at least 15 signatures of chapter members. Another method is for any group of at least 25 alumni to propose a candidate by submitting a signed proposal, together with a statement by a candidate of his willingness to serve to the Trustee Search Committee. For 1973 these proposals must be received by the Secretary-Treasurer of the Alumni Association on or before March 19, 1973. The third method in which candidates may be formally proposed is by the Trustee Search Committee itself which has the responsibility of proposing to the Alumni Council at least one candidate per vacancy each year. Notice is hereby given that petitions for proposing alumni for positions on the Board of Trustees are now being received and can be received by the Alumni Secretary-Treasurer at any time up to and including March 19, 1973. Sample forms for the proposal of candidates are available from the Alumni Secretary-Treasurer upon request.

The second way for alumni to participate is by suggesting names of alumni to the Trustee Search Committee for future consideration. This is an important input of candidates' names to the committee and in turn they will be researched and cultivated by the committee as it is deemed appropriate. It is the hope of the committee that a large reservoir of potential candidates who should be considered and who would be honored by this consideration can be developed. Please contact any member of the Committee with such names or submit the names to Stephen J. Hebert '66, Alumni Secretary-Treasurer, c/o WPI Alumni Office.

Committee: Francis S. Harvey '37, Worcester, Mass., C. Eugene Center '30, Pittsburgh, Pa., Robert D. Behn '63, Cambridge, Mass., William A. Julian '49, McLean, Virginia, George E. Saltus '53, Boulder, Colorado.



# YOUR CLASS AND OTHERS



## 1925

PROF. EDWIN HIGGINBOTTOM has retired as Head of the English Department at WPI. . . . WILLIAM W. YOUNG, who resides in Concord, Mass., is a self-employed manufacturer's agent.

## 1926

DONALD A. CALDER has retired after a "happy and prosperous business career" as president of the C. S. Brainin Corp. and as vice president and director of Stern Metals Corp., Mount Vernon, N.Y. Don, who says "retirement is great," is vice president of a "very active retirement club of 120 members with all sorts of activities five days a week." He spends his winters in Delray Beach, Fla., home base still being in Wyckoff, N.J. . . . IRVIN S. WEBSTER retired in July after seeing 46 years of service with the Public Service Electric and Gas Company. He was the development engineer in the Gas Department, General Office, Newark, N.J. In 1926 he started as a cadet engineer assigned to the Summit-Morristown District as assistant to the engineer. Later he was assigned in the same capacity to the Ridgewood District in 1936. Mr. Webster has been district superintendent, Pompton Gas Distribution, and has served in a number of other responsible positions. He was named service engineer in 1960 and development engineer in 1970.

## 1928

FRANK C. TAYLOR has retired as assistant treasurer and assistant secretary in the City Investment Department of the Mutual Benefit Life Insurance Company, Newark, N.J. Prior to joining Mutual Benefit in 1946, he had been with the Irving Trust Company, New York, the Prudential Insurance Company in Newark and Chicago, and the Brooklyn Savings Bank. . . . RALPH H. LUNDBERG, the former vice president and plant manager of Waltham Grinding Wheel, Waltham, Mass., is another retiree.

## 1929

TAITO K. WALKONEN, formerly a sales engineer with Consolidated Edison Co.,

New York City, has retired. . . . Also retired is PERCY E. NEWTON, who served as a project engineer for Torrington Co., Torrington, Conn. . . . After serving nearly 40 years with the Connecticut State Highway Department, WILFORD A. SUTTHILL has retired. He says, "I enjoy retirement to the utmost—fishing, traveling, swimming." . . . Another retiree, J. BERNARD JOSEPH, is building a new home in Cape Coral, Fla. He retired from his duties with the U.S. Army Materiel Command, Washington, D.C., last February. . . . CARL H. CARLSON has retired after serving 28 years as plant engineer at Bay State Abrasives, Division of Dresser Industries, Inc., Westboro, Mass. His fellow employees recently honored him with a retirement party at which he was presented a 35 mm projector.

## 1930

GEORGE N. SMITH has retired from his positions as industrial engineer and personnel manager at Remington Rand Division, Middletown, Conn. Currently he has two boys in college.

## 1931

EDWARD J. BAYON of Tighe & Bond, Inc., Holyoke, Mass. has announced that The Sippican Corp., Marion, will purchase all of the outstanding stock of the company. Tighe & Bond will continue under its present management, become a division of Sippican, and will operate as a part of the Francis Associates Consulting Engineering Group. . . . EDWARD J. ODLUM was recently named a vice president for the Hartford region of the Connecticut Chapter, National Employment Association.

## 1932

HARRY G. MERRILL has retired after working for many years at Norton Co., Worcester, Mass. . . . BILL AND MARTHA ASP were seriously injured in an automobile accident in Worcester on Friday night of Reunion weekend. Bill says they are mending well after he spent three weeks himself in Worcester City Hospital

with a concussion, cracked ribs, phlebitis and knee problems. Martha spent seven weeks there with a cracked pelvis and internal problems. They were hit late at night and both cars involved were total wrecks. Best wishes to both for a speedy recovery.

### 1933

GORDON R. WHITTUM has retired as district manager of engineering and planning for U.S. Steel, Realty Development Division, Worcester, Mass. . . . A. ELMER PIHL has joined Packaging Ind's., Inc., Hyannis, Mass. . . . CLARENCE R. STREETER, JR., is the president of Duko Mines, Inc., Swansea, Calif.

### 1934

FREDERICK G. WEBBER serves as administrative assistant to the vice president of engineering at F. W. Sickles Division, Chicopee, Mass. . . . PHILIP M. WAY is now with Jarvis Incinerator, Newton Highlands, Mass. . . . CAPT. CHARLES W. McELROY was recently honored at a dinner marking his retirement from 32 years of service with the Navy and Naval Reserve. Capt. McElroy, a member of the WPI Alumni Council, entered the Navy in 1940 and saw active duty with the Naval Construction Forces in the European and Asiatic theaters of war. He was part of the amphibious forces that invaded France on D-Day. During the Korean Emergency he was recalled to active duty. He was promoted to the rank of captain in 1962 following reserve duty as commanding officer of the New Haven Naval Reserve Construction Battalion and as public works officer. Currently he is vice president of sales at Safety Electrical Equipment Corp., Hamden, Conn. . . . CURTIS A. HEDLER has been named assistant to the superintendent of production operations at the Northeast Utilities Service Company in Berlin, Conn. Formerly he was plant superintendent at The Connecticut Light and Power Co., Montville generating station.

### 1935

ALLAN F. HARDY, JR., is administrative vice president of Sin-Vel Concrete Co., Littleton, Mass.

### 1936

F. STANLEY WHITE is living in retirement in Sherman Oaks, Calif. Formerly he was with Lockheed Aircraft Corp., Burbank. . . . HAROLD N. PIERSON is with Travelers Insurance Co., Hartford, Conn.

### 1937

JOHN J. BALSAVAGE is currently with Metallon, Thomaston, Conn. . . . WILLIAM E. BROWN serves as a member of the technical staff at North American Rockwell, Anaheim, Calif. . . . HOWARD W. OSBORN has retired as maintenance engineer for the Panama Canal Co., Balboa, Canal Zone.

### 1938

ROBERT O. ALEXANDER works at Union Wadding, Pawtucket, R.I. . . . NORMAN A. BOULEY is with H. F. Livermore Corp., Boston.

### 1939

JOHN A. BACKES serves as field engineer for Waterbury Farrel, Southfield, Mich. . . . JOHN T. RUSHTON has retired as general manager of Publishers Forest Products Co., Anacortes, Washington. . . . JOHN F. PEAVEY is now process engineer at John H. Breck, Inc., Springfield, Mass. . . . GEORGE C. GRAHAM, JR., has employment at Warwick Copy Products, Inc., Warwick, N.Y.

### 1940

DONALD L. STEVENS is with White & Bagley Co., Worcester. . . . DONALD RAMAKER serves as chief design engineer for Hamilton Standard Division (United Aircraft Corp.), Windsor Locks, Conn.

### 1941

CHARLES L. HOEBEL is assistant to the vice president of Carrier Corp., Syracuse, N.Y. . . . Bacon Labs, Watertown, Mass., employs EDWARD W. McGUINNESS. . . . GUSTAF COONTZ who resides in Frankfurt, Germany, serves as a consul for the U.S. Department of State. . . . K. BLAIR BENSON has been appointed to the newly created position of director of audio and video engineering of Goldmark Communications Corporation, a subsidiary of Warner Communications, Inc. Previously he was vice president of electronic video recording technical development for Columbia Broadcasting System, Inc. He also served as staff consultant of advanced technology for CBS television network.

### 1942

ALBERT S. ASHMEAD has been promoted to needle group manufacturing manager at The Torrington Company's Needle Division, Torrington, Conn. He will be responsible for the manufacture of needle products throughout the world.

## THE FIDDLE-MAKER



Former WPI professor Carl F. Meyer, '22, currently a cellist with the Florida Symphony Orchestra, thinks that the violins his father made may one day rank along with those of Antonio Stradivarius.

*The Fiddle-Maker*, a volume which Meyer had published in 1970, provides a number of persuasive arguments to substantiate that belief.

When Carl's father, Reinhardt Meyer (who had earlier emigrated to this country from Germany), moved from Lawrence to Worcester to become the proprietor of a violin repair shop, he began serious experimenting in violin making.

Drawing parallels between the lives of Stradivarius and his father, Meyer writes: "Both men were slow to attain fame. . . . Neither maker was a good salesman for his own violins. . . . Both makers' violins increased in value and quality as they matured with playing and aging."

"Now, after more than 200 years, Strads carry prices of thousands of dollars. My father's violins, 150 years younger than Strads, are valued in the hundreds.

"History shows that many of the violins of the master makers leave their active life in the concert hall and become collectors'

items. They pass from buyer to buyer at ever-increasing prices, only occasionally being used on loan to performers."

The author says that his father hoped that his violins would continue to be played. He also suggests that they might become even more choice to collectors than Amatis, Guarneris and Strads because there are far fewer of them.

By 1923, he continues, his father was convinced that he could make violins as good as Strads. His violin-making was well publicized at the time.

Prof. Meyer was already an author before he wrote *The Fiddle-Maker*. His best-selling college text book, *Route Surveying and Design* went into its fourth edition in 1969.

In 1965 he received an Honorary Doctor of Engineering Degree from WPI in recognition of his distinguished teaching career and outstanding consulting and writing capabilities.

During his 41 years as professor of civil engineering at WPI, cello-playing was an avocation for Carl Meyer. Since retiring and moving to Florida, he has taken it up in earnest. This is his sixth season as a member of the all-professional Florida Symphony Orchestra, which gives about 75 concerts annually.

And he has discovered that he is truly his father's son. He thinks that the skill his father had in instrument repairing has rubbed off. He is gradually doing more and more miscellaneous repairing of stringed instruments for members of the Symphony Orchestra and others.

According to Prof. Meyer, who is "actively" retired, "It is a thrill to work on valuable old Italian violins!"



Previously he was manufacturing manager of domestic needle divisions. . . . FRANCIS J. ONEGLIA, president of Oneglia and Gervasio Building Construction, Inc., has been elected to the board of directors of Colonial Bancorp, Inc., and its subsidiary, the Colonial Bank and Trust Co. The firm is located in Torrington, Conn. . . . JOHN M. BARTLETT, JR., has been appointed as general manager of the American Chain and Cable Company's plant in Adrian, Mich. For the past two years he has been manager of ACCO's plant in Monessen, Pa. Previously he was a regional sales manager for the Wire Machinery Division of the Morgan Construction Company, Worcester. . . . ROBERT H. GRANT is the president of Grant Corp., Newport Beach, Calif.

#### 1943

Currently WILLIAM E. CURRIE holds the position of chief engineer for Parker-Hannifin Corp., Cleveland, Ohio. . . . GALPIN M. ETHERINGTON serves as manager of process control and product development (Railroad Products Group), Abex Corp., Calera, Ala. . . . WILLIAM M. WALKER is district manager for The Torrington Co. (Bearings Division), Needham Heights, Mass. . . . KENNETH W. MANSUR has been appointed to the Auburn, Mass., board of sewer commissioners. He is the manager of project engineering for the Felters Co., Millbury.

#### 1944

STEPHEN J. TUREK, JR., is employed by Grumman Corp., Bethpage, L.I., N.Y. . . . ROBERT M. TWITCHELL works for the Environmental Protection Agency, Philadelphia, Pa. . . . ROBERT C. BROWN, a sales service representative for the Oxford Paper Division, Ethyl Corp., is currently headquartered at Des Plaines, Ill. . . . VLADIMIR T. DIMITROFF was co-author of the article: "Steam Turbine-Generator Control" in the May issue of the magazine, *Tappi*. He is the manager of control systems engineering, Medium Steam Turbine Generator Product Dept., General Electric Co., Lynn, Mass. . . . ROY E. BAHARIAN has been appointed chief engineer of the Research and Engineering Division of Diamond International Corporation. He will be headquartered at the Division's Stamford, Conn. office. Previously he was assistant director of manufacturing for the Diamond Match Division, New York City, and later served as manager engineering services for the Match and Woodenware Division, Stamford. . . . The New England Electric System publication, *Balance*, ran a profile of JOHN W. LEBOURVEAU, the manager of environmental research for the System, in the June issue. John was named manager of environmental research in 1970. His responsibilities include the supervising of the employees and contractors working on environmental studies as well as managing the air pollution control program.

## YOU ATE A WHAT?

Have you tried a good steaming cup of dandelion coffee lately? What about a plate of raccoon pie or a jar of sumac jelly?

Chances are that you haven't, but Frederic S. Wackerbarth, '40, has—in fact, he makes a habit of it. That's because he's answered the call of the wild. Wild foods.

Wackerbarth eased into his unique diet a couple of years ago while serving as a Boy Scout leader in Granville, Mass. He knew that in order to get a first class Boy Scout rating a boy was supposed to find edible plants. He decided to carry things one step further and have his troop eat them after he had made a trial run himself.

The trial run was, in a word, "Terrible." He tried cooking milkweed at home and made the disastrous error of cooking the entire plant instead of the top two sets of leaves.

Going from milkweed to dandelions was a more tasteful experience. He learned to dip them in egg batter, fry them, roast the roots and then pulverize them to make "coffee." He also discovered that they make fine salad greens.

One of his current favorite edible plants is the red stag horn sumac, which is not to be confused with white sumac. He makes jellies, pies, drinks, vinegar, soup, and syrup from the plant. He claims that 20 blossoms will make 50 quarts of juice, and that sumac vinegar is a good meat tenderizer (at least for bear meat!). His sumac meringue pie has proved to be a gastronomical success.

And then there is the matter of the acorns. If the squirrels on Wackerbarth's property

have a lean and hungry look, it is not a put-on. Fred is an inveterate acorn storer and he and his five children can out-gather the squirrels any time.

Of course, he doesn't hoard them simply to spite the squirrels. He boils the acorns until the water is clear. (About five hours, to take out the poisonous tannic acid.) Then he proceeds to dry out the meat and grind it into flour. The flour is ultimately transformed into acorn pancakes, muffins, and bread, which is reported to taste like European black bread.

For the adventuresome — A Wackerbarth recipe!

#### Acorn Bread

1/2	cup acorn flour
1 1/2	cup regular flour
4	tbls. baking powder
1	tsp. salt
4	tbls. sugar
1	egg
1	cup milk
4	tbls. salad oil

Mix ingredients together and cook at 400 degrees for one-half hour for the bread and ten minutes for the muffins.

And how does Wackerbarth's family feel about his unusual delicacies? The five children sample everything. But Mrs. Wackerbarth samples sparingly and gingerly. Her husband admits that she is repulsed "by just the thought of some of them."

Perhaps it was the *porcupine in sour cream* that did it for Mrs. Wackerbarth.

#### 1945

JAMES E. BREED has taken a new job with Vitro (Automation Industries) in Richland, Wash. He works in a quality assurance group. . . . LIONEL H. SEC-COMBE is the new manager of the Product and Machine Development Department of Textron's Bostitch Division. For the last eight years he has been superintendent of machine design for the Stanley Works of New Britain, Conn.

#### 1946

WADE E. BARNES is an associate member of Charles T. Main, Inc., Prudential Center, Boston. . . . WILLIAM W. STRIKER has employment at Honeywell Radiation Center, Lexington, Mass. . . . CARL B. PRITCHETT, JR., serves as president of Pritchett Ford Co., Albany, Ga. . . . WALTER J. BANK is a marketing manager for Systems Consultants, Inc., Washington, D.C. . . . NORMAN W. PADDEN is eastern region sales manager for the Singer Co., Little Falls, N.J.

#### 1948

ALAN R. PEARLMAN has been appointed chairman of the board of directors

and director of Advanced Research and Development of ARP Instruments, manufacturers of electronic musical instruments. In his new position he will combine overall company planning with long-term product development. Formerly he was president of the firm. . . . CHARLES MOURADIAN serves at the Naval Air Rework Facility, Quonset Point, R.I. . . . EDWARD R. WAINSHILBAUM is with Hughes Aircraft Co., Culver City, Ca. . . . ALBERT E. RILEY is the president of The Hasbrook Corp., Rolling Meadows, Ill. . . . THOMAS H. GROVE has been promoted from senior engineer to engineering associate at Eastman Kodak Company's Park Division. Since joining Kodak in 1964 he has worked on design of machinery for manufacturing film base.

#### 1949

JEREMY W. SMITH was recently appointed district engineer for the Massachusetts Electric Co., Southbridge Street operations center, Worcester. He joined the Company in 1952 as a junior engineer and served most recently as a senior engineer. . . . BAR Industries, Waltham, Mass., employs RAYMOND B. PHANEUF.



### 1950

JOSEPH E. LEMIRE works for Kendall Co., Needham, Mass. . . . John Hancock Life Insurance Company, Springfield, Mass., employs ALBERT H. PERRY as an insurance salesman. . . . B. B. KUPREWICZ is a supervisor in steam design at DeLaval Turbine, Inc., Trenton, N.J.

### 1951

PHILIP MICHELMAN is employed by the Film Department of the Diamond Shamrock Chemical Company, Stratford, Conn. . . . Celanese Plastics Co., Belvidere, N.J., employs ROBERT W. RIPLEY as a technical superintendent. . . . ROBERT D. FULMER, manager of logistics support planning for the installation and service department of General Electric Co., Schenectady, N.Y., was recently elected by a decisive vote to the Ballston Spa (N.Y.) Central School Board of Education. . . . CHARLES H. BOUCHARD is a zone manager for Westinghouse Electric Corp., Pittsburgh, Pa.

### 1952

ROBERT L. CUSHMAN is a senior scientist (computers-software) at Raytheon, Bedford, Mass. . . . ROY G. GULLBERG currently serves as operations manager for DeLaval, Inc., Houston, Texas.

### 1953

MICHAEL S. ZUCKER is a candidate for the Wappingers Falls, N.Y., School Board. Zucker is a senior engineer manager with IBM, Monansic. Currently he is chairman of an informal group of citizens studying trends in the quality of education provided by the School District. He also helped organize PAST, a community group which is open to anyone interested in improving education in the Wappingers School District. . . . FRANCIS W. MADIGAN, JR., has been elected president of the Associated General Contractors of Massachusetts. He is treasurer of the F. W. Madigan Co., Inc., Worcester. He is also president of the Worcester General Building Contractors Association, a director of the Kiwanis Club, and serves on the board of management of the YMCA. . . . RICHARD R. CARLSON is now employed as a design engineer for Morgan Construction Co., Worcester. . . . PAUL C. MURRAY works as an electrical engineer in the Geophysics Department, Woods Hole Oceanographic Institute, Woods Hole, Mass. . . . WALTER E. LEVINE is manager for the Bindicator Co., Port Huron, Mich.

### 1954

ANDREW J. MORGIO holds the position of market services manager at Honeywell Information Systems, Phoenix, Ariz. . . . DEXTER E. SANFORD is senior engineer (protection) for Northeast Utilities Service, Berlin, Conn. . . . WESLEY D. WHEELER, a naval architect and marine engineer, is coordinator of technical studies at Astilleros Espanoles, S.A. (Zona Sur), Plaza De

La Victoria, Cadiz, Spain. . . . PAUL A. WAGENKNECHT is a senior project engineer for Westvaco, Wickliffe, Ky. . . . HENRY M. STRAGE has been elected a director (senior partner) in the international management consulting firm of McKinsey & Company, New York City. Mr. Strage, who has worked primarily on McKinsey studies for the British government in London, was elected a principal (junior partner) in 1967.

### 1955

DAVID H. BAGLEY is a sales engineer for New England Controls, Inc., Natick, Mass. . . . ROBERT E. RASCOE is with New Britain Specialty, New Britain, Conn. . . . Co-owner of Mardi Construction Co., West Springfield, Mass., is HENRY F. SPADONI, JR. . . . DR. ALAN W. EDE is a self-employed electronics engineer in Corvallis, Oregon. . . . BRIAN J. KELLY is studying for one year at MIT on a Sloan fellowship. He is with the Bell Telephone Co. of Pennsylvania.

### 1956

Smyth Manufacturing Co. of Bloomfield, Conn., employs ROBERT A. FOISIE of West Hartford. . . . JOSEPH A. MARCOTTE works for Boston Woven Hose, Cambridge, Mass. . . . JAMES C. KUBIK is with Missile Systems Division, Raytheon Co., Bedford, Mass. . . . RICHARD G. HAJEC currently serves as marketing manager for Rotron, Inc., Woodstock, N.Y.

### 1957

GEORGE P. PROZZO is now manager, tape instrumentation engineering, Sangamo Electric Company, Springfield, Ill. . . . ROBERT H. BECKETT serves as a marketing manager for Decision Data Computer Corp., Horsham, Pa. . . . JOSEPH C. GINKUS, JR., is with Northeast Beauty Distributors, Inc., Worcester. . . . DANIEL J. FISHER, JR., holds the position of project engineer for Leesona Corp., Warwick, R.I. . . . ROBIN AW is with the Mand Carpet Mills, Los Angeles, Calif.

### 1958

Ensign Bickford Co., Simsbury, Conn., employs ROGER W. ANDERSON as a sales engineer. . . . JOHN D. COLTON is currently employed by Automatic Manufacturing Co., Chicopee, Mass. . . . ROLAND A. CORMIER is with IBM Corp., Chicago, Ill. . . . JOHN H. PORTER is employed by General Cable, New York City.

### 1959

JOHN E. MCGINNIS recently joined Westinghouse Security System, Windsor, Conn. . . . JOHN H. BRITT, JR., is a child care coordinator for the state of Massachusetts. . . . A. DAVID DICKERT, manager of market development in the coatings department for Rohm and Haas Company, was co-author of the article, "A Non-Metallic Paint Mildewcide and Can Preservative For the Seventies" which appeared in the May issue of *American Paint Journal*. . . . WINDLE B. PRIEM, vice

president of the Marine Midland Bank in New York, has been appointed the U.S. Small Business Administration's Deputy Regional Director for New York. Priem has served as Deputy Head of the Marine Midland Bank's Nassau County Regional office. As Deputy to the Director of SBA's Region II, he will be responsible for the territory of New York, New Jersey, and Puerto Rico.

### 1960

RONALD F. POKRAKA is marketing manager for Industrial Dynamics, Pennsauken, N.J. . . . EDWARD J. RUSSELL is an operations executive with ITT Corp., New York City. . . . FIDELE L. DIPIPO is presently employed by the General Electric Co., Schenectady, N.Y. Previously he served the company in Phoenix, Ariz. . . . JOHN S. VALE has joined Polaroid Corp., Cambridge, Mass. . . . KENNETH L. MATSON has been named superintendent of the Audubon district of Public Service Electric & Gas Co., Trenton, N.J. Formerly he was superintendent of the Trenton district. . . . ROBERT A. CROOK serves as senior engineer for IBM, Essex Junction, Vt. . . . DANIEL Z. GOULD is a senior engineer at Fenwal Electronics, Framingham, Mass.

### 1961

*Married:* RICHARD W. JOHNSON to Miss Connie Clifford on April 29, 1972 in Westport, Connecticut. The groom, who has a master's degree from New York University, is employed by Perkin Elmer Company of Wilton.

*Born:* To Mr. and Mrs. THOMAS E. POSTMA, a son, David J., on April 24, 1972. Postma is with Delco Electronics, Division of General Motors, Milwaukee, Wis.

MAJOR NORMAN I. GINSBURG recently assumed command of the 69th Signal Battalion of the Military Assistance Command, Vietnam. (Communications Center Company) . . . RICHARD V. O'BRIEN, (SIM), has been named industrial relations manager of Bay State Abrasives of Westboro, Mass., Division of Dresser Industries, Inc. He joined the Company in 1942 and was personnel manager before this appointment. . . . RICHARD E. TAYLOR currently works as assistant chief engineer, office of instructional development, Harvard University School of Public Health. . . . JOHN J. GABARRO recently received his PhD from Harvard University. Presently he is an assistant professor at Harvard Business School. . . . PETER K. BINGHAM serves in the nuclear division of the General Electric Co., San Jose, Calif. . . . DAVID A. FREDERICK works for the New York Telephone Co., Albany. . . . DR. PETER J. NATALE is now a research associate at MIT, Department of Biology, Cambridge, Mass. . . . WPI PROF. ROGER R. BORDEN has been named pastor of the Methodist Church, Charlton City, Mass. . . . MARK BRITANISKY is general manager for Service Automatics, Copiague, N.Y. . . . ROBERT R. HALE is program manager for Electron Tube Division, Easton, Pa.



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# This man will never die.

Headache, dizziness, and double vision; it could be a brain tumor. Fever, and an elevated white blood cell count, with a shift to the left; it could be meningitis. Blood pressure, 240/150; it could be malignant hypertension.

The symptoms are real, but the patient isn't.

Connected to terminals in classrooms at the University of Illinois Medical School, a Tempo Communications processor, provided by GTE Information Systems, acts as a super-efficient secretary to the main computer, accepting information and firing out answers.

A medical student considers the information provided by the computer, diagnoses the condition, and proposes a course of treatment. If his diagnosis and treatment are correct, the computer gives him an "A" grade.

If he's wrong, the computer puts the pressure on.

The hypothetical patient returns with additional complaints. This time, the student doctor has less theoretical help at hand. Instead of seeing the patient in the hospital emergency room, as he did the first time, the computer tells him that it's 3 a.m. at his doorstep. The symptoms appear far more serious, and the correct diagnosis is that much more critical.

If he's wrong again, nobody dies.

Teaching medical students to be right can't, and shouldn't, be achieved by computers. That's the work of experienced, dedicated professors of medicine. But as a training aid, the computer has a lot to offer, and we're proud of the contribution to this program that General Telephone & Electronics has been able to make.

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## 1962

WILLIAM D. HANNINEN is a self-employed contractor in Markville, Minn. . . . ROGER G. MASSEY has been appointed as vice president and works manager of Parker and Harper Co., Worcester, Mass., a manufacturer of automatic screw machine products and assemblies. He is treasurer of the New England Chapter of the National Screw Products Association. . . . PHILIP M. KEENAN is an employee of Colt Fire-arm, Hartford, Conn. . . . GEORGE W. HOLMAN works for Holanan Engineering Inc., Agawam, Mass. . . . DAVID N. LYONS is a sanitary engineer at U.S.E.P.A., Washington, D.C. . . . PAUL E. ENGSTROM has joined The Hartford's life insurance actuarial staff and has been elected an associate actuary. He will have responsibilities for individual and special risk-health insurance. . . . WILLIAM E. C. WARR III is with Warr's Marine, Wareham, Mass.

## 1963

DONALD L. CHAFFEE received his PhD in electrical engineering at UCLA in June. . . . IBM Corp., Poughkeepsie, N.Y., employs ROBERT M. MARTINEZ. . . . G. WILLIAM HARTMAN has joined Meta Chemical Co., Wheeling, Ill. . . . ARTHUR F. DARLEY is with the DPW, Boston. . . . CAPT. JAMES A. VELEZIS is with the Army Corps of Engineers, Ft. Belvoir, Va. . . . JOHN B. LOJKO is a salesman for Wang Laboratories, Inc., New York City.

## 1964

ERNEST E. CHENOWETH has employment as an instructor at Thayer Academy, Braintree, Mass. . . . ROBERT R. DANGELMAYER is with Digital Equipment, Waltham, Mass. . . . JAMES C. KNUDSON works for the State of Washington, Department of Air Pollution. . . . MDC Systems Corp., New York City, employs WILLIAM S. SHURBET. . . . CHRISTOPHER R. ALMY has accepted a position as a structural engineer at General Electric's Knolls Atomic Power Laboratory, Schenectady, N.Y. Formerly he was with the U.S. Army Electronics Command at Fort Monmouth, N.J. . . . THOMAS M. BOYLE

is a systems engineer for IBM Corp., Washington, D.C. . . . STEVEN T. CHURCHILL has employment as a design engineer for Executone, Stamford, Conn. . . . ALFRED H. HEMINGWAY, JR., has passed the California and New York bar examinations. He was graduated from the law school at Stanford University in California last June. . . . PAUL J. KEATING, vice president of P. J. Keating Company, presided at the commencement exercises at Notre Dame High School, Fitchburg.

## 1965

RAJKUMAR K. BAJAJ has been named chairman of the sustaining membership enrollment for the Woodstock (N.Y.) region of the Boy Scouts of America. He is a project manager at IBM, Kingston, N.Y. . . . O. WILLIAM BJORN LUND, SIM, has employment with Warner & Swasey Co., Grinding Machine Division, Worcester. . . . MICHAEL S. DEMBSKI is marketing manager for Continental Can Co., New York City. . . . CHARLES J. DeSIMONE, JR., works as a senior credit analyst at Hartford National Bank & Trust, Hartford, Conn. . . . HARRY S. FORREST holds the position of process development engineer in the fibers technical department of the American Viscose Division, FMC Corp., Marcus Hook, Pa. . . . Combustion Engineering, Windsor, Conn., employs RAYMOND C. JACQUES. . . . STEPHEN N. KIMANI is a medical student at the College of Human Medicine, Michigan State University, East Lansing. . . . PAUL R. PEARSON is in the computation and programming department of the Kearfott Division of the Singer Co., Wayne, N.J. . . . USAF CAPTAIN FRANCIS J. PINHACK, JR., a T-38 Talon instructor pilot, has been assigned to a unit of the Air Training Command at Moody AFB, Ga. . . . PHILIP B. RYAN was recently appointed to the planning board of the city of Manchester, N.H. He is principal of the management services department of Nathaniel F. Bigelow and Co. . . . EDWARD R. REGAN recently received his master's degree in business management from Northeastern University. He is a development engineer with USM Corp., Beverly, Mass. . . .

HALLETT A. WRIGHT is a sales engineer for R. L. Stone Co., Inc., Buffalo, N.Y.

## 1966

MICHAEL C. NAPOLITANO is involved in circuit design at IdeaLab, Franklin, Mass. . . . ROBERT A. FULOP now works for J. J. Sullivan Co., West Hartford, Conn. . . . GERALD J. PARKER is a unit chief for the Environmental Protection Agency, Research Triangle Park, N.C. . . . GARY M. ANDERSON is studying in the civil engineering department at Duke University, Durham, N.C. . . . DONALD E. MCCARTHY is with the U.S. Navy Engineering Command, Navy Yard, Washington, D.C.

## 1967

*Born:* To Mr. and Mrs. WAYNE M. CHIAPPERINI a son, Robert Frank, on September 20, 1971. Wayne, who recently received his master's degree in civil engineering from the University of Connecticut, is now doing research and development on industrial wastewater treatment systems for FRAM Corp., Providence, R.I.

RICHARD M. GUTKOWSKI serves as a teaching assistant for the Department of Civil & Environmental Engineering, at the University of Wisconsin, Madison. . . . PAUL B. CHERUBINI works as a sales engineer at Standard Sign & Signal Co., Inc., Clinton, Mass. . . . THOMAS Y. LIU is a technician for E. I. Du Pont Co., Saugus, Calif. . . . STANLEY P. PIETREWICZ has employment as a computer analyst at Newport News Shipyard in Virginia. . . . BHOOPEN K. KURANI is a project engineer for Souza & True, Inc., Cambridge, Mass. . . . USAF CAPT. JONATHAN P. WORTHLEY has entered the Air Force Institute of Technology, Wright-Patterson AFB, Ohio, where he will study toward a master's degree in electrical engineering. . . . CHARLES H. GOODSPEED III recently received his PhD in Civil Engineering from the University of Cincinnati. He was also elected to Sigma Pi. Dr. Goodspeed has accepted an assistant professorship at Carnegie-Mellon Institute, Pittsburgh. . . . JOSEPH J. CIEPLAK has been appointed assistant to the director of public relations at the University of New Haven. In June he was presented the Dean's Award for outstanding service to the University. . . . FRANCIS R. CHIARILLO is with Travelers Insurance, Hartford, Conn.

CARMEN DELLA VECCHIA has received his master's degree in mathematics from St. Mary's in Texas.

## 1968

*Married:* STEPHEN M. HOLUB to Miss Sarah T. Dougherty on May 27 in Ridgefield, Conn. The bride is merchandising editor of House and Garden Magazine. The groom is a chemical engineer for Union Carbide Corp., Molecular Sieve Division, Tarrytown, N.Y. . . . SCOTT W. RAMSAY and Miss Gretchen L. Harris in Skowhegan,



Me., on June 10. Mrs. Ramsay is employed as communications consultant for the New England Telephone Co., Boston. Scott is a candidate for an MBA degree at the Whittemore School of Business, University of New Hampshire, Durham.

*Married:* A. LEONARD BERGQUIST to Miss Beatrice Marie Powell in Greenwich, Connecticut, on July 1, 1972. MICHAEL LATINA was one of the ushers. Mrs. Bergquist, a graduate of the University of Connecticut, is a teacher in the Greenwich school system. Her husband is a field engineer with Beckman Instruments Co., Inc., Wakefield, Mass. . . . CAPT. RICHARD G. PERREAULT and Miss Helga M. Fink on May 27 in Kitzingen, Germany. Capt. Perreault has served in Germany since 1969.

*Born:* to Mr. and Mrs. KENNETH H. TURNBULL their first child, a son, John P. Turnbull, on July 9, 1972.

CARL R. DUPRE writes that he is a student at the University of Massachusetts Graduate School. . . . GEORGE K. FAIRBANKS works for Tryon Mfg., Shelton, Conn. . . . STEVEN C. HALSTADT is at Amos Tuck School, Dartmouth College, Hanover, N.H. . . . Currently JOSEPH F. HILYARD works as assistant research engineer, Highway Safety Research Institute, University of Michigan, Ann Arbor. . . . HYMAN S. LOFCHIE serves as a designer for C. T. Main, S. E. Tower, Prudential Center, Boston. . . . JOSEPH S. SATIN is with Joseph Satin Co., Shelton, Conn. . . . LEO T. SPRECHER does computer research for the General Telephone & Electronics Laboratory, Bayside, N.Y. . . . TERENCE P. SULLIVAN is a stockbroker-retail sales, for White Weld and Co., Inc., Boston. . . . RONALD G. CUMMINGS is at Suffolk Law School, Boston.

DANIEL R. ROY recently received his master's degree, with honors, from Northeastern University. He is employed at General Electric, Lynn, Mass.

KEITH L. VAN BUSKIRK, who is attending Suffolk Law School, is president of Land Auction Bureau, Boston. . . . GREGORY H. SOVAS is assistant sanitary engineer for the New York State Division of Air Resources, Albany, N.Y. . . . GEORGE R. BAZINET is a programmer for Pratt & Whitney Aircraft. . . . VICTOR V. CALABRETTA has been employed by C. E. Maguire, Inc., Providence, R.I. . . . ROBERT A. FALCIANI serves as a stress engineer for Stone & Webster Engineering Corp., Boston.

#### 1969

*Married:* GORDON J. MEARS and Miss Donna Elizabeth Wise on May 20, 1972 in Lunenburg, Massachusetts. MICHAEL GAN was an usher. The bridegroom is employed by the General Electric Co., Fitchburg, Mass. . . . LESLIE T. HATCH to Miss Kathleen P. Nugent in Dorchester, Massachusetts, November 5, 1971. Hatch is employed by Metcalf & Eddy, Boston, where he is involved with a research group. Currently he is running an industrial waste pilot plant under an EPA grant.

## HELP FOR PARTIALLY SIGHTED



A new, low-cost system which can help hundreds of thousands of legally blind persons to read and write again has been introduced by Visualtek, Santa Monica, Calif.

Larry Israel, '61, president of the firm, says that "with this system, nearly-blind people not only can read or write whatever they want—without assistance—they can return to hobbies and jobs they had to give up when their sight failed. They can return to more normal lives."

Known as the Visualtek Read/Write System (RWS) and selling from \$795 to \$2,000, the portable device makes use of a TV camera system with zoom lens, special high-illumination lighting, and a viewing table for scanning. All can be connected to a conventional black and white TV set for viewing.

The system can be used effectively by any partially sighted person who can read two-inch letters at close range. To read, the user of the RWS closed-circuit TV system merely places his reading material on the table under the camera lens, adjusts magnification and light intensity, and operates a scanning control, while reading the enlarged, brightened words on the TV screen. To write, he places his paper on the table under the lens and writes, checking his progress on the TV screen. Or, he can type with the system using any conventional manual or electric typewriter.

*Married:* DAVID J. BARRETT to Miss Theresa Ann Monroe on June 10, 1972 in Worcester, Mass. David is a service engineer at Riley Stoker Corp. . . . RENE J. ROY and Miss Gail Ann Kmiotek on June 10 in Whitinsville, Mass. Mrs. Roy, a graduate of North Shore Children's Hospital, is em-

ployed as a licensed practical nurse. Rene has employment as an electrical engineer at Raytheon, Bedford, Mass. . . . JOHN E. CONNELL, JR., and Miss Birgitte Nicolajsen on June 3 in Kolind, Denmark. The bride is a graduate of Aarhus University in Aarhus, Denmark where the groom has also

The ingenious "reading machine," with magnification of up to 30 times, allows many visually handicapped individuals to read and write with ease and speed, even with visual acuity as low as 5/800 in their better eye. Based on concepts developed at the Rand Corporation under the sponsorship of the U. S. Department of Health and Welfare, the Visualtek Read/Write System is being rented, leased or purchased principally by agencies, institutions, and nationwide organizations. Public libraries and some veterans administrations have found the unit especially helpful. The Perkins School for the Blind, Boston, and The Florida State School for the Blind are among the special schools making use of the equipment.

Larry Israel, one of the founders of the year-old Visualtek company, has discovered that the results of his new venture can be most gratifying. He says, "The testimonial letters we get from satisfied customers, expressing such immense gratitude at their new-found ability to read and write as they have never been able to do since they lost their sight, is truly rewarding. It's especially heart-warming when we receive information about a young child, or a high school or college student whose life has been altered markedly because of our Read/Write System."

employed as a licensed practical nurse. Rene has employment as an electrical engineer at Raytheon, Bedford, Mass. . . . JOHN E. CONNELL, JR., and Miss Birgitte Nicolajsen on June 3 in Kolind, Denmark. The bride is a graduate of Aarhus University in Aarhus, Denmark where the groom has also



been studying. . . . JOHN S. SIMPSON to Miss Jeanne Marie Drapeau on July 1, 1972 in Tiverton, R.I. Mrs. Simpson is a teacher in the Portsmouth School System. Her husband is employed at the Naval Underwater Systems Center in Newport. . . . FRANCIS W. SKWIRA to Miss Gerald Carreker Fowler on June 24 in Atlanta, Ga. The bride has received a master's degree in French literature from Emory University in Atlanta. The groom is employed by the General Electric Co., San Jose, Calif.

RICHARD D. ALPERT is on sabbatical leave in Europe. . . . STEPHEN R. ANDRUCHOW is a construction engineer for Stephen Andruchow, Inc., West Warwick, R.I. . . . DAVID W. EATON serves as systems programmer for General Electric Company, Phoenix, Arizona. . . . THOMAS C. GURNEY is a student at Central Bible College, Springfield, Missouri. . . . ROY C. JOHNSON, JR., recently received his PhD in civil engineering from Rice University, Houston, Texas. . . . PHILIP M. KAZEMERSKY is a nuclear engineer for the Tennessee Valley Authority in Chattanooga. . . . Z. RONALD STELMAK serves as a sales engineer for Westinghouse and is currently located in Syracuse, N.Y. . . . MICHAEL W. NOGA has employment with Stone & Webster, Boston. . . . CARL NOTHNICK is with Westinghouse Electric, Baltimore, Md. . . . STEPHEN R. PHILLIPS is completing his thesis for his MS in industrial design at the Institute of Design, Illinois Institute of Technology.

GREGORY E. POLLACK is assistant marketing manager in the micrographic division of Canon USA, Inc., Lake Success, N.Y. . . . GERALD M. ROBBINS is a graduate student in the department of landscape architecture at the University of Illinois. . . . RONALD P. ROSADINI is a teacher in the Torrington, Conn. School System. . . . ROBERT J. SCOTT is a graduate student in city and regional planning at Cornell University, Ithaca, N.Y.

NEIL M. GLICKSTEIN has been appointed math-science teacher at Home Base School, Watertown, Mass.

## 1970

*Married:* A. PATTON ABBE II to Miss Christine Driscoll on May 28, 1972 in Windham Center, Connecticut. Abbe is the owner of Keats Krafts Clothing Store in Mystic, Conn. His bride is employed as a model for the portrait painter, Robert Brackman, N.A. of Noank, Conn. . . . RICHARD F. ABRAMS to Miss Jean M. Parker on June 10 in Spencer, Mass. The bride is an elementary art teacher in the Spencer schools. Her husband is with Artisan Industries, Waltham, Mass.

*Married:* MARK E. BROWN and Miss Carolyn Marie Gilbertson June 17, 1972 in Battle Lake, Minn. Mrs. Brown has completed graduate studies in social work at Washington University, St. Louis. Mr. Brown is a candidate for a doctorate in chemical engineering at the University of Minnesota, Minneapolis. . . . RALPH DIORIO to Miss Rosemary Calcagno in

Seaford, N.Y. on June 3. Ralph is a senior engineer for ATT Long Lines Department. . . . DUNCAN H. GILLIES and Miss Patricia M. Teczar on July 7, 1972 in Worcester, Massachusetts. The bride teaches at Union Hill School. The bridegroom is with the Massachusetts Electric Co. . . . ROGER P. HENZE to Miss Judy Lynn Welch in North Adams, Massachusetts on July 15, 1972. Mrs. Henze is a student at North Adams State College. Mr. Henze is a candidate for his master's degree in city and regional planning from Cornell University this year.

KENNETH C. BASSMANN, who was recently promoted to first lieutenant in the U.S. Air Force, has received an award for a military improvement suggestion which he gave at Andrews AFB, Md. He is a communication-electronics officer with the Air Force Communications Service. . . . 2/LT. GERRY A. BLODGETT has completed a nine-week ordnance officer basic course at the Army Ordnance Center and School, Aberdeen Proving Ground, Maryland. . . . JAMES HANNOOSH was awarded a master of science degree in mechanical engineering from MIT last June. He has been accepted for the doctoral program in the field of material behavior at MIT. . . . JERRY L. JOHNSON, who received his MS from Holy Cross this year, is starting his PhD program at Dartmouth College, Hanover, N.H., this fall. . . . PETER F. LALOR was recently awarded his master's degree in metallurgy from the University of Connecticut. . . . JOHN J. LYONS is a systems programmer for WPI. . . . KALVIN W. NGOON is a programming trainee at State Mutual Life Assurance Co., Worcester. . . . 1/LT. DENNIS L. NOVAK has completed the four-week Army Alaska Summer Leader's Course at the Northern Warfare Training Center, Ft. Greely, Alaska. He is a platoon leader at Ft. Wainwright, Alaska. . . . GEORGE E. PHILIPPON has been named systems manager, Identicaid division of Management Service Associates, Lancaster, Pa. . . . ROSS A. WILLOUGHBY is a sales representative for Air Way Sales, Worcester.

LAURENCE P. VALLEE has received his MS degree in civil engineering from the University of Connecticut. He has accepted a position with the structural firm of Stone and Webster Engineering Corp., Boston.

## 1971

*Married:* ANTHONY SCHEPIS to Miss Laura Candace Fabrizio in Quincy, Massachusetts on May 21, 1972. Mrs. Schepis, a graduate of Forsyth Dental School and Northeastern University, is employed as a dental assistant. Her husband is an industrial engineer at Sealy Mattress Co., Randolph, Mass.

*Married:* DAVID P. BUELOW and Miss Helen M. Laptewicz on June 10, 1972 in Westboro, Massachusetts. Mrs. Buelow is a graduate of Salter Secretarial School, Worcester. David is with the U.S. Army Corps of Engineers in Waltham. . . .

STEVEN G. EMERY to Miss Mary Evelyn Jackman July 15, 1972 in New Haven, Connecticut. The bride is a registered nurse with the Visiting Nurse Association of Worcester. The groom is in the cardiology department at St. Vincent's Hospital, Worcester. . . . ROBERT P. HART and Miss Elizabeth T. Cushwa on July 8 in South Hadley, Massachusetts. Mrs. Hart is a graduate of Framingham State College. Her husband is a design engineer at Norden Company, Norwalk, Conn.

*Married:* DOUGLAS E. HOLMES to Miss Christine F. Holda on June 24, 1972 in Worcester, Massachusetts. Mrs. Holmes is a kindergarten teacher. The groom is a graduate student in the material sciences division of the University of Connecticut, Storrs. . . . JEFFREY P. LASSEY and Miss Lynne K. Maniero on June 25, 1972 in Worcester. The bride, a graduate of Worcester State College, is a teacher. Her husband is with New England Electrical Co., Weymouth, Mass. . . . EDWARD C. LOWE, III to Miss Judith S. Cogswell on July 8, 1972 in Longmeadow, Massachusetts. Mrs. Lowe is a French teacher. The bridegroom is a sales engineer employed by General Electric of Schenectady, N.Y. . . . 2/LT. PETER J. MARKUNAS and Miss Victoria R. Chicoine on May 13, 1972 in Leicester, Massachusetts. Mrs. Markunas is a graduate of Ward Business School. Her husband is a candidate for his master's degree in mechanical engineering at WPI. . . . SPAFFORD A. MARTINDALE, JR. and Miss Betteanne Mitchell in Worcester, Massachusetts. The bride is an alumna of Anna Maria College.

*Married:* VINCENT T. PACE and Miss Maryann Bagdis on June 10, 1972 in Grafton, Massachusetts. DONALD TANANA and FRANK STEINER were ushers. Maryann, a former WPI student, is a senior at Drexel Institute of Technology in Philadelphia. Her husband is an electrical engineer at Philadelphia Electric Co. . . . RICHARD B. HOPEWELL to Miss Claudia Louise Secrist July 1, 1972 in Needham, Massachusetts. Mrs. Hopewell is a music education teacher. The bridegroom is doing graduate work at WPI. . . . NORMAN W. SOUSA, JR., to Miss Barbara K. Phillips on July 1, 1972 in Pearl River, N.Y. EDWARD J. SHERMAN was best man. The bride is a Becker Junior College graduate. Her husband is with the Sousa Corp., West Hartford, Conn. . . . PAUL R. SWENSON and Miss Elaine M. Zoppo on June 24, 1972 in Paxton, Massachusetts. Mrs. Swenson, a graduate of Becker Junior College, is a senior at The Memorial Hospital School of Nursing. The bridegroom is a field engineer for Granger Contracting Co., Worcester.

*Married:* JOHN ANDERSON and Miss Josephine Vanni in April in Ho-Ho-Kus, New Jersey. Mrs. Vanni is a graduate of Newton College of the Sacred Heart, Newton, Mass. Her husband is with Public Service Electric and Gas Co., Newark, N.J. EDWARD "NED" CUNNINGHAM was best man. Ushers were GARY MASON, PAUL RUSSO, and ROBERT KELLEY.



CHIA-SOON KU is a graduate student in the Department of Chemical Engineering, Pennsylvania State University, University Park, Pa. . . . ALAN SHAPIRO, who is currently home on leave from his duties with the Peace Corps in Ecuador, expects to return soon to finish out his two-year enlistment. Recently a full page of photos he took in that South American country was published in the *Transcript*, North Adams, Mass.

PAUL B. ASH has earned his master of arts degree in teaching, with an education major, from the University of Massachusetts at Amherst. . . . THOMAS R. BALL is employed by Astra Pharmaceutical Products, Inc., Worcester, in the area of data computer-research and development. . . . MICHAEL J. GRADY is a software systems engineer at Honeywell Information Systems, Inc., Cambridge, Mass. . . . UMBERTO MILANO is with the U.S. Bureau of Reclamation, Denver, Colo. . . . MARTYN H. STRONG has received his master of engineering in electric power engineering at RPI, Troy, N.Y. He is returning to RPI this year to study for his master's degree in environmental engineering. . . . JAMES E. TROUTMAN, JR. is currently a computer instructor at Lowry AFB, Colo.

#### 1972

*Married:* GARY A. FOOTE and Miss Catherine E. Bogard on May 27, 1972 in Worcester, Massachusetts. The bride is a graduate of the University of Connecticut. . . . MICHAEL W. THAYER to Miss Cynthia Ellen Roff last spring. Mrs. Thayer graduated from Wheaton College. . . . PETER A. BERTASI and Miss Janet A. Juzwinski in New Britain, Connecticut on June 17, 1972. The bride has been studying for her BS degree in education at Central Connecticut State College. The bridegroom is a graduate student in business administration at the University of Rochester, N.Y. . . . DOUGLAS E. BEST to Miss Claudia J. Taylor in East Longmeadow, Massachusetts. Mrs. Best attended Salem State College and graduated from Chandler School for Women, Boston. Her husband is employed by Heald Corp., Worcester.

*Married:* CHARLES J. BRINE and Miss Patricia Ann Rimo on June 3, 1972 in New Brunswick, N.J. The bride is an alumna of Douglass College in New Brunswick. Both she and her husband plan to attend graduate school. The groom expects to enter the College of Marine Studies (Chemical Oceanography) at the University of Delaware where he will enroll in the PhD program. . . . MARK C. DUPUIS and Miss Karen F. Fitzgibbon in Lunenburg, Massachusetts. Mrs. Dupuis graduated from Fitchburg State College. The groom is in production management at Procter and Gamble in Quincy, Mass. . . . LOUIS A. FERRARESI, JR., to Miss Susan Ann Jones on June 18, 1972 in Worcester, Massachusetts. Mrs. Ferraresi graduated from Emmanuel College, Boston. Her husband is a controls-systems engineer for

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Stone & Webster Engineering Corp., Boston. . . . GEORGE A. OLIVER and Miss Barbara Frances Davis on June 10, 1972 in Bedford, Massachusetts. The bride is a graduate of Westfield State College. The bridegroom is attending California Institute of Technology, Pasadena. . . . DONALD J. POLONIS and Miss Patricia Ann Theresa Yarusawych in Easthampton, Massachusetts on June 10, 1972. The bridegroom has accepted a teaching fellowship at Union College, Schenectady, N.Y., where he is working for his master's degree in operations research in the School of Industrial Administration. . . . MARCELLO A. RANALLI to Miss Diane Rose Bianco on June 10, 1972 in Worcester. Mrs. Ranalli is a casualty rater at Travelers Insurance Co.

JOSEPH BIANCA is working for Combustion Engineering, Windsor, Conn. He is a research and product development engineer in the company's Kreisinger Development Laboratory. . . . ROBERT A. COLP is a graduate student at the University of Wisconsin, Madison. . . . Currently DR. RAYMOND M. FISH is employed by the National Institute of Health in Bethesda, Md. . . . ANDREW J. GLAZIER is with the U.S. Army Corps of Engineers. . . . ROBERT L. LYONS is with the field service support group at Leeds & Northrup Co., North Wales, Pa. . . . FRANK D. McMAHON has employment as a sales trainee for W. R. Grace, Pontiac, Mich. . . . ROBERT I. PARRY has accepted a position with the Philadelphia Electric Company.

ROBERT M. PASUCCI is a transportation planner at Raymond, Parish, & Pine, White Plains, N.Y. . . . JEFFREY A. PETRY is with the Torrington Company, Torrington, Conn. . . . GARY E. RAND serves as an associate engineer at Raytheon Co., Wayland, Mass. . . . W. J. Megon & Co., Naugatuck, Conn., employs EDWARD D. SCHRULL as assistant project manager. . . . WALTER J. SMITH was commissioned an ensign in the U.S. Navy Reserve in September. He has been at the Naval Officer Training Center in Newport, R.I.

. . . KENNETH R. WADLAND is a graduate assistant in the math department at the University of New Hampshire.

ROBERT M. BYRNE has employment at The Gazebo, Torrington, Conn. He is also president of the Torrington Men's Choral Club. . . . ROBERT S. AMES plans to do graduate work in mathematics at Syracuse University this fall. . . . GLENN E. CABANA has been employed by Western Electric, North Andover, Mass. . . . DOUGLAS B. HARRINGTON is a technical marketing program trainee at the General Electric Company. . . . JOHN D. KALETSKI holds the position of manager at Clairol, Stamford, Conn. . . . WALTER R. McILVEEN serves as a designer for Walter McIlveen Associates, Avon, Conn. . . . JOHN C. MOORE is a field service engineer for the power division of Westinghouse, Minneapolis, Minn. . . . Uniroyal Chemical Division, Naugatuck, Conn., employs THOMAS A. REYNOLDS as a process engineer. . . . MARK F. SAMEK is a graduate student at WPI. . . . LESLEY E. SMALL has employment as a staff engineer for the Southern New England Telephone Co., New Haven, Conn. . . . THOMAS J. TRACY is with Stone & Webster, Boston, Mass. . . . LT. STEPHEN A. WILKINSON expects to be assigned to Ft. Bragg, N.C. . . . WALTER L. BALLARD recently joined Eastman Kodak Company, Rochester, N.Y. and has been assigned as a development engineer with the Apparatus Division. . . . JOHN G. CROFT, JR., SIM, is assistant purchasing manager, Wyman-Gordon, Worcester. . . . HENRY E. HIRVI, SIM, is a project leader at Cincinnati Milacron-Heald Corp., Worcester. . . . GUS L. SANNICANDRO, SIM, serves as engineering design supervisor for Fenwal, Inc., Ashland, Mass.

HOWARD H. LEVINE is in the department of physics at the University of Illinois. . . . JEFFREY ASKANAZI is a medical student at Upstate (N.Y.) Medical Center. . . . RICHARD J. WALLACE is studying at WPI. . . . KURT M. WUSTERBARTH has accepted employment at the Goodyear Tire & Rubber Co.



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# ALUMNI ASSOCIATION RECOGNITION

## The Robert H. Goddard Award

presented annually for outstanding professional achievement and is named in honor of Robert H. Goddard, '08, father of the rocket. Recipients this year were Howard G. Freeman, '40; Ray W. Heffernan, '19; and Robert H. Grant, '42 (not pictured). The awards were presented by Milton P. Higgins, chairman of the WPI Board of Trustees.



Howard G. Freeman, '40



Ray W. Heffernan, '19

## The Herbert F. Taylor Award

presented annually to alumni for distinguished service to their alma mater. The award is named in honor of Herbert Foster Taylor, '12, first full-time secretary-treasurer of the WPI Alumni Association. Recipients of the Taylor Award in June were Wayne E. Keith, '22, and Dr. William E. Hanson, '32. The awards were presented by Irving James Donahue, Jr., '44, President of the Alumni Association.



Dr. William E. Hanson, '32



Wayne E. Keith, '22



At Reunion in June, Edwin L. Sholz, '22, presented a check to Dr. George W. Hazzard, president of WPI, as the 50th Reunion Gift of the Class of 1922.





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