

■ DECEMBER 1975

WPJ Journal



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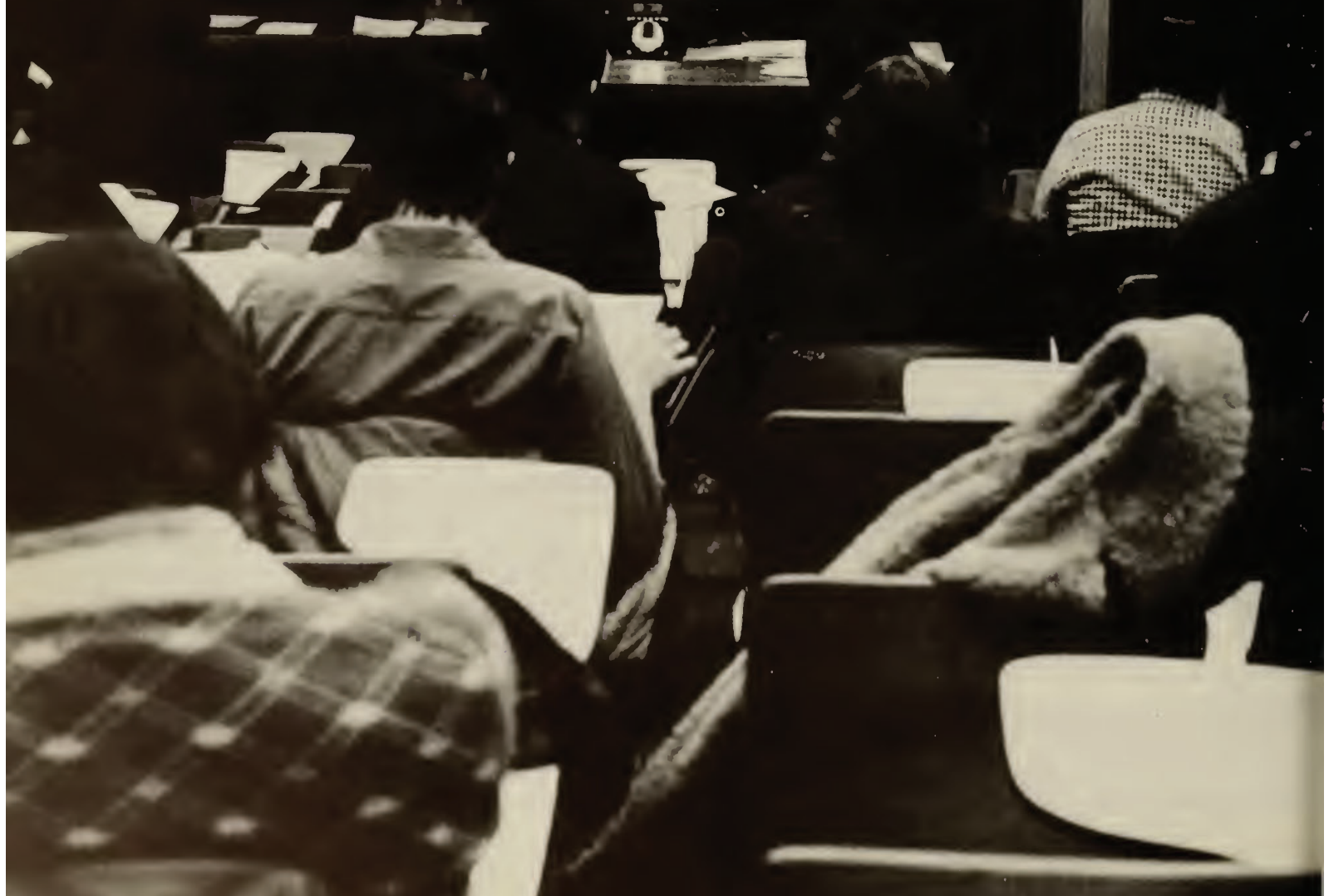
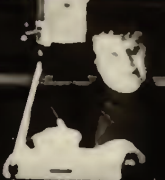
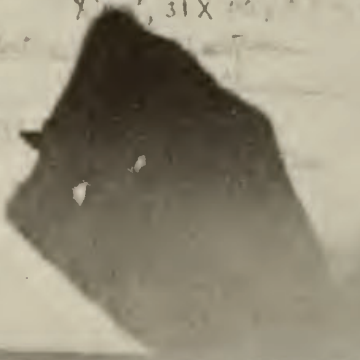
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On the Hill

by the editor

you reading this magazine?

is kind of a silly question to ask here. But a lot of nonsilly questions were asked of alumni in a telephone survey. Some 250 alumni, selected at random, were asked about their reading habits and preferences with respect to the *Journal* and *Newsbriefs*.

One important question we were looking for answers to dealt with the kind of articles in the *Journal*: should they all — and all news items — be directly related to WPI or should general-interest articles be included if there is some connection — authorship by an alumnus or a faculty member (such as the “Fire up above!” article in the August *Journal*)? One-third of respondents wanted only WPI-related stories, but a clear majority, 60%, wanted a mix of the two types.

With regard to *Newsbriefs*, we asked whether alumni wanted to receive it as a separate publication, or would they prefer it integrated into the *Journal*.

More than half want *Newsbriefs* to continue as it is, while 36% opted for the publication instead of two.

This survey was done to help the Alumni Association deal with questions raised in a recent report of the Communications Committee. That report suggested that perhaps a publication entirely different from the *Journal* and *Newsbriefs* might

better serve Association and alumni interests, but that alumni should be surveyed to determine their attitudes toward the present publications. A follow-up survey is also being done to try and pinpoint interest in specific areas.



John Boynton returns?

Not quite, but the replica of the peddler’s cart above was just the type of vehicle that launched the fortune of WPI’s founder a century ago. The model, built in the 1920s, was lent to Gordon Library by the Society for the Preservation of New England Antiquities, in Boston. The cart and other items were on display in the library’s entranceway this fall.

About 18” long, the cart is made of wood and metal, and it carries over 200 small items of household goods, all reproduced to scale. Mops, pails, dishpans, mugs, pitchers, clothespins and washbaskets, bolts of cloth and spools of thread festoon the vehicle.

This exhibition marked the first time that the Society has ever lent out the cart.

The WPI Alumni Association

working for you

Reunion weekend

Homecoming

Fund-raising

Chapter and regional programs

Awards for service to WPI

The WPI Journal

Nomination and election of alumni term trustees

Group travel

Group insurance

"Opportunities" – alumni placement

Alumni records



Alumni admissions

Awards for professional achievement

Student scholarships





WPI's future as a private college: some different perspectives

Donald F. Berth

In the past few years there seems to have been mounting concern for the future of *private* higher education. Is it well served? And if so, what are the implications for private science and engineering schools like WPI? We are all aware of the proliferation of two-year, close-to-home community colleges; the upgrading of "teachers' colleges" to more comprehensive institutions in many states; and the rapid growth of university centers. Soaring operating costs (for private and public institutions) have widened the gap between income and expenses. And the current public disenchantment with higher education has contributed to the dismay. Those of us with memories seem to forget that the 1960-70 decade was really the most affluent one for higher education, both public and private. So what we are experiencing now is probably closer to the norm — trying to keep the wolf from the door of the academy. What about WPI? In what ways are the broad issues affecting *private* higher education affecting Tech? What are our

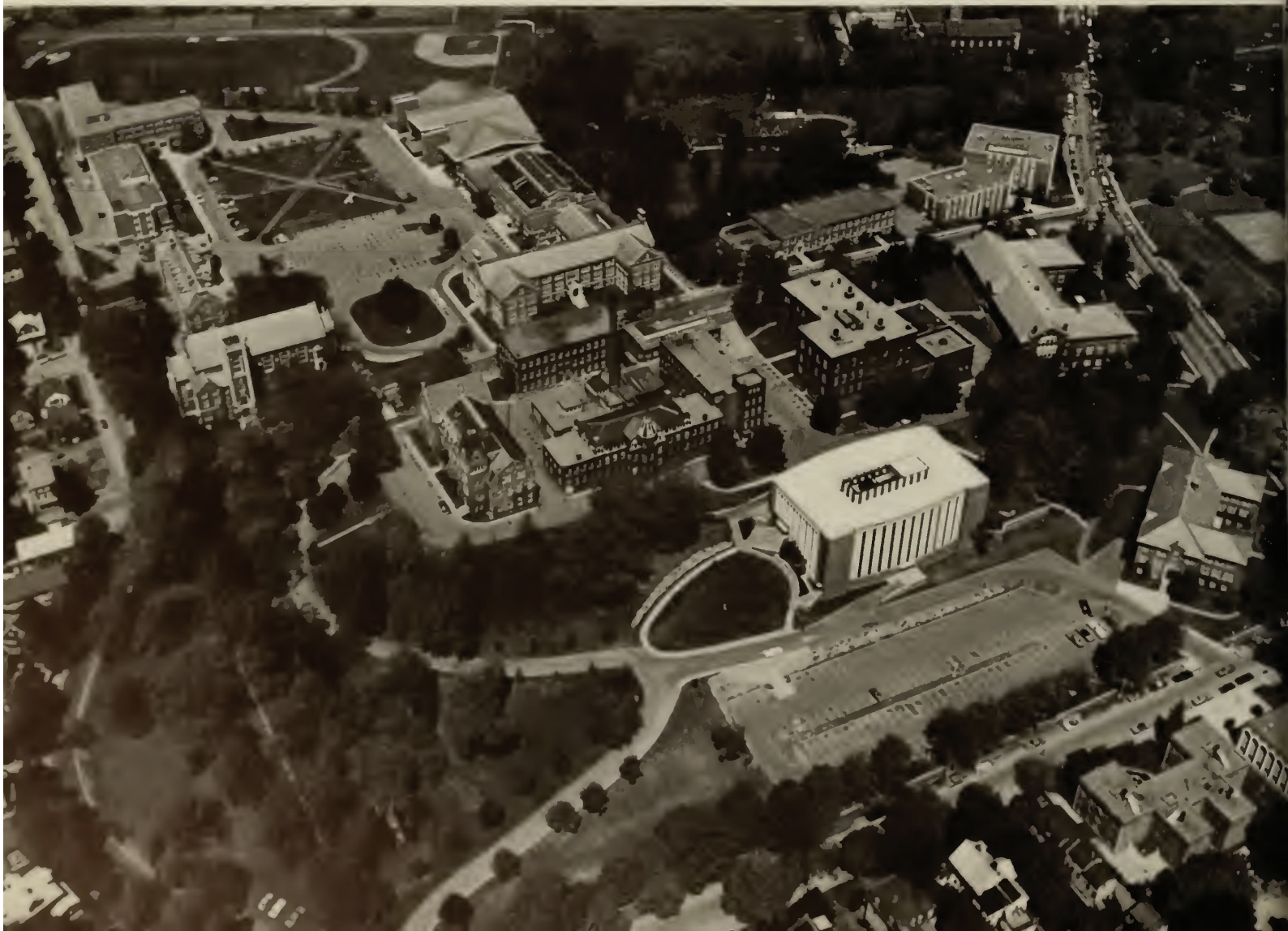
bright spots . . . and our soft spots? There are a number of good questions we could be asking ourselves and the faculty and administrators at the Institute; I have chosen to consider those that follow, hoping they may stimulate further dialogue among *Journal* readers.

While a few engineering programs existed before the Civil War (only the U.S. Military Academy at West Point, 1804, and Rensselaer Polytechnic Institute, 1824, were of enduring consequence), it was the impetus gained through passage of the Morrill Land Grant Act in 1862 (whose author was a New Englander, Vermont Senator Justin Morrill) that translated the mechanical arts to center stage throughout the nation. The act itself was the basis upon which public higher education grew. Consequently, it is hardly anything new for *private* engineering institutions such as WPI (founded in 1865) to compete with public engineering at large. Massachusetts, however, was to wait until 1947 when engineering was established at its university in Amherst.



Above: an engraving of the WPI campus as it appeared in the early 1900s.

Below: a 1971 aerial photograph of the WPI campus.



How does WPI appear today compared to 1900?

Views of the campus in 1900 and today speak for themselves. WPI is a vastly larger operation. The bricks and mortar only suggest scale. But they reflect the enrichment of the offerings of the program that has been enhanced with new laboratories, libraries, recreation facilities and living units. Tech was a really tight place then! About 225 students were enrolled then compared to today's 2100 undergraduates and 300 graduate students. But with this physical enrichment come added costs. Equally dramatic changes have occurred on other engineering campuses as well, and it would be interesting to see the "before" and "afters" of our sister institutions. I think they would show that we have fared at least as well as the others. What goes on within the buildings is more important than any superficial external exposure. Yet the appearance of "prosperity" which can be reflected through the maintenance of an active campus and its general "personalized" tone can be a factor in selling itself to prospective students. From my own travels to most of the major engineering and technical educational centers in the United States, I would rate our physical plant (when compared to other technological institutes and even most university engineering and science departments) as one of our major assets in attracting prospective undergraduate students. We would lose few applicants on this score alone.

What about WPI's students? How are they similar? And different?

Usually all of the *private* institutes of technology (Clarkson being an exception) and the major *private* universities offering engineering (Cornell being an exception) grew up alongside the industrial industry — e.g., Carnegie-Mellon in Pittsburgh; Case Western in Cleveland; Stevens in Hoboken; RPI in the New York capital district; MIT in Boston, then Cambridge. And engineering students have tended to come from the immediate region in which one of these schools was situated. This was especially true until the conclusion of World War II. Then, in a sense *five* high school senior classes (1941-45), bolstered by the G.I. Bill and the demonstrated achievements in primary science and technology, flooded the nation's engineering colleges — public and private. This surge allowed institutions to broaden their geographic mix and to strengthen the quality of their classes. WPI had been largely an engineering and science college for Worcester and the surrounding countryside even as recently as 1950. And this was true for nearly all other science and engineering colleges. Most students were commuters. (Note how many residential facilities have been constructed in the past twenty years on most urban-based campuses).

So what we all do is go fishing in the same old pond for fewer fish, trying to lure prospects by more attractive bait.

3. Who are WPI's 'competitors' for students?

Of course, this broader reach has introduced new competition — and it has made each institution in turn more vulnerable to other local institutions, and more of these in recent years have been *public*. What I am suggesting is that WPI was largely the first and only choice of generations of Tech alumni, in an era where we were all less mobile and tended to go to school close to home. That condition is nowhere near as true today. Consequently, we are forced to be competitive — in our programs, faculty, facilities, and financial aid — with other colleges and universities who are also competing for the same students. Thus, the broadening of our base (which I favor) has made us increasingly vulnerable to what is going on elsewhere — and this of itself is healthy for WPI's future.

While WPI draws students from throughout the United States and the world (33 states and 30 foreign countries are represented in the 1975-76 student body), its students are concentrated within, say, a 150-mile radius of Worcester — Massachusetts, Connecticut, Rhode Island and southern New Hampshire. What occurs in engineering education in these states, particularly in the public sector, is bound to have an impact on WPI. If, for example, any of these states expand their engineering enrollment capacities at the undergraduate level through the introduction of new programs, more imaginative and effective student recruitment, better experimental facilities, and recruitment of superior faculty, then such factors will have a decided effect on WPI.

4. What of the relative popularity of science and technology among students? Is this more crucial than private vs. public competition?

The wave of student interest in science and engineering following World War II and later from Russia's first space achievement, Sputnik, was translated into enough engineering and science students to fill both public and private schools. But then came the layoffs. The serious engineering unemployment in some of WPI's traditional drawing area had to be felt in reduced student interest in engineering. Nationally, we experienced a *one-third* decline in enrolled freshmen alone. Physics has fared equally poorly. Add to this the growing ranks of unemployed PhD's in many areas of science, especially high energy physics and astronomy.

Most engineering and science students are career-minded: they're preparing themselves for jobs. If they observe relatives and family friends who are engineers or scientists out of work, little can be done by any one educational institution to rekindle an interest. So what we all do is go fishing in the same old pond for fewer fish, trying to lure prospects by more attractive bait. It is then that private colleges and universities rediscover the public institutions — and begin to fear the worst. Yet the public engineering institutions have experienced similar declines in enrollments: some, in fact, have been harder hit than the private schools.

The cyclical features of our economic system, so affected these days by federal priorities and policies, affect private engineering and science colleges like WPI far more, in my view, than does the emergence of strong public engineering centers.

Unfortunately, educational institutions are quite inelastic. Physical plants carry with them substantial fixed costs, requiring "full enrollments." And because education is labor-intensive, cost-cutting options are modest unless faculty and staff are reduced. And if they are, who goes? The small department? The assistant professors? Administrators?

We will have to continue to live with these swings in the economy, and their effects on the pool of prospective students for science and engineering. This will require increased flexibility of the schools; contingency funds to sustain the college through rough periods; and continued vigorous and imaginative education programs to attract the best youth.

What we are experiencing now is probably closer to the norm — trying to keep the wolf from the door of the academy.

5. How important today is science and technology to the economy in areas where most WPI students live

Unlike an Iowa State or University of Idaho, WPI is situated in a region which is highly urban and industrialized, and which depends on substantial numbers of persons in engineering and the sciences. About 7.5% of the engineers graduated in the United States in 1974 earned their bachelor's degrees in one of the three southern New England states. And it is *only* in Massachusetts and New York State that more than half of the engineering degrees were awarded by *private* engineering institutions.

But what has happened to southern New England's industry — particularly since 1900 — compared to what has occurred elsewhere? We have seen the decay of dozens of old mill towns — Lowell, Haverhill, Holyoke, Manchester, Providence to name a few — whose plants and equipment became obsolete and who, in several instances, did not gauge the competition that came from new advances in technology and business. In spite of the efforts of these and similar New England communities, it has been difficult to restore the economic prosperity enjoyed for several generations. The infusion of new technology, especially of the kind associated with Route 128 has helped, but this is going on in other regions of the United States as well. However, the region once distinguished for its "Yankee ingenuity" and as a leading center for technological employment no longer enjoys the commanding position it once did. This, by itself, has and will have an impact on private and public technological education.

It was the perceived technological vitality of the region that supported the early developments of institutions like WPI. How technology will figure in the future of the region must be factored into the programs of WPI. One wonders what kinds of technology-based organizations can flourish in a region where taxes, fuel costs, transportation, and government services are at or among the highest in the nation?

The future degree of prosperity in Lynn, Worcester, or Springfield is likely to be more of an influence on the development of present interests among area youth for engineering and applied science. A few warning signals are present: the numbers of college-age youth is declining; the percentage going on to college is declining; students interested in engineering are now roughly 6% of the total, down from a high of about 12% in the early 1950s. We may once again see a decreased mobility in our society, due to energy costs alone. This may mean that more WPI students will once again come from the local region. WPI will have to continually monitor its programs for their effectiveness in preparing graduates for significant leadership in the new science and technology order.

Industry which is located within the 150-mile region and which requires engineers and scientists as keystones for their success must also support the educational institutions that serve their interests. Indeed, most of us in higher education would be happy to have gifts which match those slipped under the tables to governments abroad, to say nothing of here in the United States.



6. Do WPI's finances match its changing needs?

How well off is WPI? How can I answer this question? No two educational institutions are really alike enough to allow objective comparisons. Even among the private institutes of technology which seem the closest models to WPI, several have sizeable graduate programs which both generate and consume substantial funds. A few have reasonably large shares of their enrollment in lower educational cost-per-student programs such as business and the liberal arts. Some have modern facilities while others may spend a relatively larger part of their operating budget to maintain less efficient facilities.

In absolute terms, WPI's endowment would place it in the top 100 "richest" institutions; probably within the top 75. Yet when compared to Rice or Caltech, we are a *distant* rich cousin! I have found three simple ratios to serve as benchmarks upon which to gauge financial strength of an institution, particularly a college rather than a research university. They are:

- a) Annual Giving/Operating Budget
- b) Endowment/Operating Budget
- c) Endowment/Student

Based on 1971-72 data, WPI showed the following, compared to a few other private schools:

	(a)	(b)	(c)
WPI	0.210	3.46	\$13,700
Caltech	0.244	3.48	72,500
Carnegie-Mellon	0.119	3.65	29,600
Lehigh	0.168	2.61	12,500
MIT	0.187	3.75	49,000
RPI	0.170	3.22	17,200
Stevens	0.092	4.31	26,000

For ratio (a), annual giving in 1971-72 to the operating budget, we are doing reasonably well. Endowment coverage contrasted with annual expenditures (ratio b) is also good, but endowment in back of each student (c) is relatively poor. [Editor's note: the current figure is even lower, at around \$10,500.] Caution should be advised in drawing conclusions from this one-year performance.

As was pointed out by President Hazzard in the December 1974 *WPI Journal*, our endowment income kept reasonable pace with operating expense (at about 15% of the latter) but since 1966, endowment performance has not been able to maintain that share. This is one area that needs strengthening for the balance of this century. A substantially improved level of alumni annual giving (both in numbers of alumni making gifts and in the level of the average gift) will also help.



7. Will students, and their parents, be willing to pay for private higher education in the future?

Fred Hargadon, Stanford's admissions dean, commented in the January 1975 *Stanford Observer*, that "Given the variety of consumer choices, colleges should not underestimate the importance of *willingness* to pay for college education as contrasted with simple ability to pay. Willingness is far more difficult to measure precisely (in terms of determining financial aid award levels) than ability to pay. The electrician in New York City may earn the same income as the vice president of a bank in a small midwestern town, yet they are likely to allocate their income in quite different ways."

Turning to the region itself, the citizens of Massachusetts, Connecticut, Rhode Island and southern New Hampshire, who have been and are so dependent on technological enterprise to sustain their economy, we owe much to a private engineering school like WPI. They have enjoyed the productivity of professional scientists and engineers in numbers well beyond those they have supported as taxpayers in the region's *public* science and engineering programs. To put it in blunt terms,

they have had a bargain. And they can still have a bargain supporting private education where more of the educational costs are covered by endowments and established facilities. Happily, there is growing evidence that the public and the politicians recognize this. Their help, particularly in subsidizing the expenses of needy students at existing private schools, end up costing them far less than in financing any facilities expansion for undergraduates in public engineering colleges.

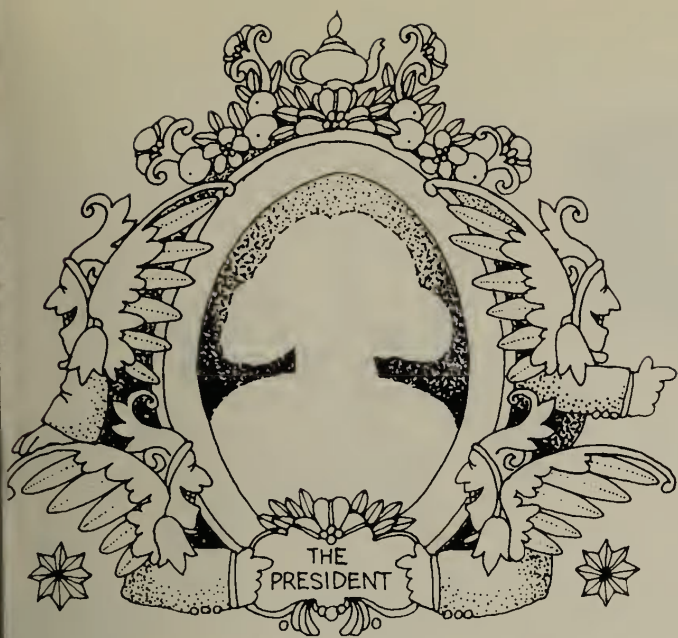
What about the future economic vitality of the southern New England region? How prominent a role will science and technology play? How attractive will a career in science or engineering be to tomorrow's teenager? Will a college education continue to be a goal valued by a majority of the population? Will WPI have the means and the people to provide an appealing and rewarding education in science and technology?

Questions like these seem equally as important as the public vs. private issue which seems to have commanded our attention of late. Some lie well beyond the control of the Institute, its alumni and benefactors. But working together they can exert some real influence in ensuring the values of independence that have been, in the end, the real hallmark of private higher education. ■



Donald F. Berth, '57, is a director of special projects at Cornell University's College of Engineering. He has long been interested in history and in engineering education. In 1966 he founded Cornell's engineering magazine, Engineering: Cornell Quarterly, and was its editor through 1971.

Berth holds bachelor's and master's degrees in chemical engineering from WPI.



The Impossible Job?

A Special Report on What It Takes to Run a College These Days

WANTED," the advertisement might say: "President, to direct an enterprise manufacturing societal products. Diversified interests range from agronomy to zoology. Duration of manufacturing process: 3.7 years. Profit potential: none. Loss: \$5,500 on every unit produced.

"President must represent company to vast constituency: 63,000 shareholders, state legislators, government bureaucrats, and the community at large.

"Salary: not commensurate with responsibilities."

Uncommonly candid? Perhaps, as far as the ad goes. But it does not tell all. Nowhere does it mention:

► That the company's diversity is held together only by a shaky commonality—and supported by even more continuous financing.

► That the volatility of the product and the experimentalism of its labor force have made legislators and citizens, on whose support the manufacturer depends, increasingly wary of the enterprise.

► That the corporation is a proving ground for social legislation, a bellwether of social change.

► That the institution's former products—many of them gone from the scene for decades—are, in effect, its majority shareholders.

► That it is their contributions that in large part must finance today's manufacturing deficits.

Nor does the advertisement prepare its reader for the unusual nature of the products themselves:

► That they must be treated not as mere products, but as elements demanding a place in the councils of their producers.

► That the products are being marketed with ever-greater difficulty in the job-scarce society for which they are produced.

Nor does the help-wanted ad hint at the unique qualities of the enterprise's labor force:

► That the workers expect—and demand—to be



treated not merely as workers, but as part of the company's governance.

► That, at the same time, they are unionizing in ever-greater numbers.

And the ad omits entirely the most telling point of all:

► That the exigencies of the job are likely to drive the president from his office in five years.

LITTLE WONDER that Herman B Wells, for 24 years president of Indiana University, should say that a college president needs to be born "with the physical

stamina of a Greek athlete, the cunning of a Machiavelli, the wisdom of a Solomon, the courage of a lion if possible—but above all, the stomach of a goat."

THE COLLEGES AND UNIVERSITIES that modern presidents are called upon to govern are rarely in good health.

An ever-growing number of America's institutions of higher learning—and not merely the newer and inevitably hustling ones—sway at the edge of a financial abyss. Institutions whose names are synonymous with academic excellence and financial invulnerability—the

versity, wrote: "Resignations are usually followed by a listing of personal accomplishments. One item only, on my list: for seven years I survived."

Should the help-wanted ad be amended to reflect the perilousness of the undertaking?

HOW MUCH of the individuality of his college or university, for example, must a president be prepared to sacrifice?

How much rivalry and variety will be lost in the struggle to keep institutions alive in a time of inadequate financing? A "tide of growing homogeneity," Warren G. Bennis, the president of the University of Cincinnati, calls what is happening to much of American higher education—"with the inevitable result that each university and college [begins] to resemble all the others, becoming a franchise service, a sort of chain of Holiday Inns of the Mind."

Writes Fred Hechinger, in the *New York Times*:

"Will the universities, like the railroads, pursue a defeatist, obsolescence course until the government at last tries to bail them out? The risk that they may opt for a passive response to their current crisis of identity, money, and goals is heightened by the fact that the universities have become accustomed to having their goals spelled out for them by the off-campus world—such are the demands of defense and other external mandates."

Does the ad need a further addendum?

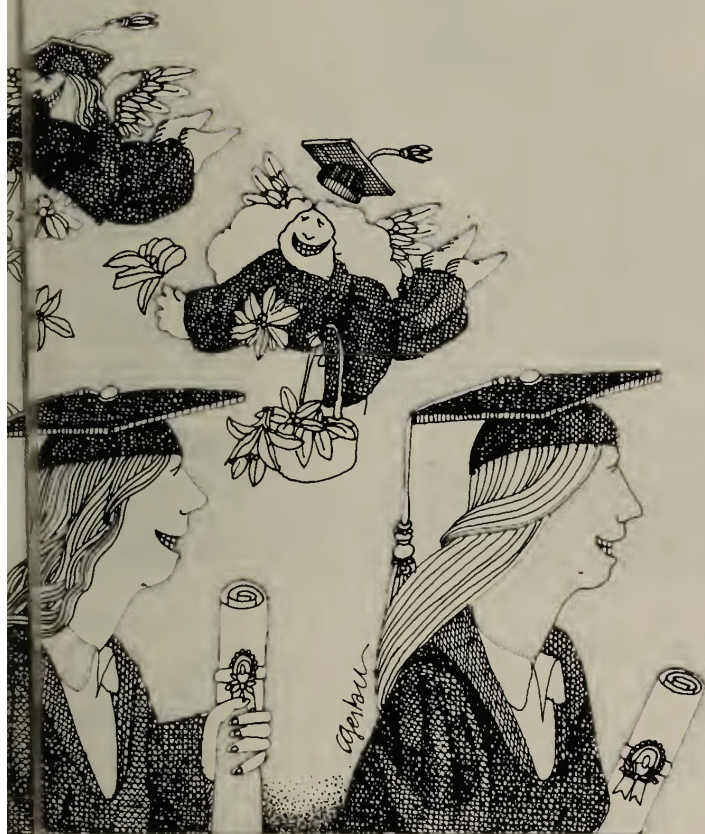
"Should disregard the thinking of predecessors," it might say. "Must look within for answers."

THE PRESIDENT of Reed College, Paul E. Bragdon, suggests a middle course:

"Viewing society and higher education within it, no one today seems likely to adopt the Panglossian stance that all is, or soon will be, for the best in this best of all possible worlds. No ideology, doctrine, or faith in a pragmatic, problem-solving approach is likely to create a sense of confidence in the future. Growing anxiety, numbing uncertainty, and a paralysis of the will are likely companions in an age of complexity, contradictions, and confusion.

"Maybe, however, a variation of the classic response to Panglossism—cultivate your own garden—is the most constructive course to follow. Callously turning aside from the torment and problems of men and women everywhere, abdicating responsibilities thrust upon us, subsiding into hedonism or into activities designed exclusively for personal self-fulfillment—none would form part of the suggested variation.

"The appropriate variation asks that we recognize that there are many things within our control which can be done; that general despair should not keep us from



widows-and-orphans stocks of higher education—are in financial trouble. One Ivy League university, after eating into the principal of its endowment by over \$2-million in seven years, has embarked on a three-year austerity program to eliminate the university's deficit spending.

A Carnegie Commission report estimated in 1973 that fully two-thirds of the nation's colleges and universities were in serious financial difficulty or headed that way. Two more years of inflation have not diminished the count.

Richard P. Bailey, former president of Hamline Uni-



doing them; and that, in fact, we should proceed to do them. The doing of them may give us the faith and foundation of confidence to attack the additional problems to which there are no instant or easy solutions.”

THE COLLEGE PRESIDENT must run his or her enterprise without the tools of the conventional corporate head. The college president cannot stockpile products until a more favorable economic climate comes. The college president cannot apply for tax and tariff relief. The college president cannot decrease profit margins, for there is no profit. Yet the college president cannot calmly tolerate loss, though loss is inevitable.

Nor can the college president lower the quality and content of his institution's product; to do so would be to defeat the very purpose for which his enterprise exists. But maintaining, let alone improving the product's quality and content entails financial strains so grave as to threaten every college's existence.

The paradoxes are serious. Alumnae, alumni, and

the general taxpayers—and the trustees and legislators who hold their proxies—demand that the college or university president improve the efficiency of his manufacturing process; yet the savings effected by increased efficiency might be gained only at the expense of the product's value. Says Clifton R. Wharton, Jr., the president of Michigan State University:

“The most disturbing element in the latest fiscal crisis is the presumption that the universities can continue to realize significant savings through continued increases in productivity and efficiency, without corresponding reduction in quality of services. . . .

“The search for ever-greater increases in productivity can best be put into proper perspective by contrasting pictures of two extremes. Take first the image of a teacher on one end of a log with a student on the other end, then contrast it with the image of our freshman class of 7,000 sitting in our football stadium while one lonely professor stands at the 50-yard line in front of a microphone. The former represents the ancient notion

teaching; the latter would be a demonstration of extremely high productivity—assuming that it were efficient.

“The choice between these two educational models, as well as among the many idealized models, depends on a delicate and subjective balancing of educational philosophy and economic efficiency. I often wonder whether as a matter of public policy the ever-growing pressure for greater productivity is not leading us to the football-stadium classroom. Is this what the students, their parents, or the taxpaying citizens really want? From the criticism I hear, I doubt it.”

Inexorably, the president finds himself in the dilemma Emma Cincinnati's Bennis describes:

“We have the size and scope of big business, with all the opportunities to increase our productivity. People would like us to run like the Metropolitan Life Insurance Company. In fact, a university is more like the Metropolitan Opera Company. . . .

“In 1860, at the forerunner of our conservatory of music, it took a quintet 58 minutes to play a concerto by Brahms; in 1975 it also takes 58 minutes. Nor can we improve that performance by using one violin instead of two, or a moog synthesizer to replace all the strings.”

But even unlike the venerable and equally threatened opera company, the president of a college or university cannot take his show on the road when times get desperate, hoping to play to S.R.O. in Tokyo to relieve financial strain at home. “The only power I have,” says Willard L. Boyd, president of the University of Iowa, “is the power to persuade.”

EQUIPPED, THEN, with only his voice, the president finds himself at the helm of an organization offering neither a product and a service for which the demand is leveling off—even as the costs of producing and performing continue to rise. The price of the fuel to heat the dormitories and classrooms and laboratories multiplies. The annual salary increments for faculty and staff members drop farther and farther behind the advances in living costs. Projections by the U.S. Office of Education tell him that full-time enrollment, which increased over 100 per cent from 1960 to 1970, will be only 17 per cent in the present decade. (It will, says the government, actually decrease 1.3 per cent in the first two years of the next decade.)

The same projections tell his faculty members that, while the number of doctorates granted by America's institutions of higher education tripled in the 1960-70 decade, the employment of full-time teachers will actually decrease .9 per cent from 1978 to 1982. The National Science Foundation tells the researchers employed by colleges and universities (who account for about 61 per cent of the nation's basic scientific work)

that real spending on basic research is expected to decline by 8 per cent from last year to this.

Does the college presidency, then, call for a defeatist? Must the new president be versed, as Kenneth E. Boulding suggests, in “the management of decline”?

“One of education's first priorities,” says Mr. Boulding, who is program director at the University of Colorado's Institute of Behavioral Sciences, “[is to] develop a new generation of academic administrators who are skilled in the process of adjusting to decline.”

On the basis of all that, should the help-wanted ad be amended again?

“Must be able to deal with decline,” perhaps it should say. “Must accept diminished circumstances.”

THE TYPICAL CAPTAIN of the corporo-educational enterprise has been trained as an academic, not as a professional manager; as a pedagogue, not as a public-

“People would like us to run like the Metropolitan Life Insurance Company. In fact, a university is more like the Metropolitan Opera Company.”

relations expert. But he is called upon to be the latter, while he serves the former. He must do battle against the hesitancy of his institution to view itself as a business, and he must do equal battle against the confusion of his own roles.

R. Miller Upton, for 21 years (until last summer) the president of Beloit College, calls the failure to make a clear distinction between economic and academic realities the major weakness of leadership in higher education:

“So many of my colleagues, saying they know nothing about business, will delegate the business aspects almost totally to their financial vice-presidents. In terms of good management, you can never take that position.

“If you don't have a sense of the importance of the economic base to the academic purpose, the institution is going to suffer. A president must never be embarrassed by the word ‘selling,’ or by any of the other sound business terms.”

If the college or university is serving a predominantly black constituency, suggests James E. Cheek, president of Howard University, the president must do further battle. The enemy in this case, Mr. Cheek says, is the

“Colleges have to be run in a businesslike fashion, but I’m not sure you can run them exactly like businesses.”

temptation to sacrifice identity for short-term survival:

“Leaders of black colleges and universities must show a greater willingness to demonstrate the importance of their institutions. They cannot allow them to be taken for granted, nor can they conform to the easy perception that integration will, in and of itself, improve the quality of higher education for black people or increase the quantity of access to higher education for black people. They must hold to the belief that an institution can have a traditional black mission and a predominantly black enrollment and still be integrated.”

Similar challenges confront the presidents of women’s colleges. They—with their trustees and institutions—must choose whether to embrace the rush toward coeducation, or to resist it. As Jill K. Conway, the president of Smith College, notes, the choice is riddled with complexities:

“Up to the present, . . . attention has been focused on the access of women to institutions of higher education, with little or no thought given to the relationship of women students to the curriculum, women scholars to research activity, or women graduates to the occupational structure of society. When access is considered in isolation, the logic of coeducation as an equitable social policy appears to be overwhelming.

“The logic for educating women in male-controlled institutions is by no means so strikingly apparent, however, when one views the question of equity of treatment of the sexes from the perspective of the content of the curriculum, the opportunity to participate in the creation of new knowledge, and the potential for subsequent career development.”

TO GAIN his or her job, a prospective college president must win the acceptance of competing interest groups, which occasionally are as concerned with establishing their positions vis-à-vis one another as with ferreting out the best candidate. To perform successfully, says Glenn A. Olds, president of Kent State University, the president “has to be academically competent so that he will enjoy the support of the faculty, administratively competent so he can perform feats of fiscal dexterity, able to deal with students, of impeccable integrity, and fearlessly open.”

Yet, suggests Ernest L. Boyer, chancellor of the State

University of New York, to avoid dismissal the president cannot become identified with any of the groups he represents. “If a president starts giving student answers, faculty answers, or trustee answers, he’s lost.”

No wonder, then, that the job is so perilous and the list of casualties ever-lengthening—or that, at one point in the past year, at least 78 four-year institutions of higher learning were without chief executives. Consider:

► At the University of Texas at Austin and Southern Methodist University, presidents were dismissed or pressured into resigning by their boards after becoming identified with faculty concerns.

► At the University of New Hampshire, Thomas Bonner resigned as president after prolonged warfare with the state’s political leadership and incessant editorial salvos from William Loeb’s *Manchester Union Leader*.

► The University of Colorado dismissed its president after the faculty voted no confidence in him.

► At Missouri’s Stephens College, students and faculty members—disturbed that a woman had not been picked to head the female institution—asked the man whom the board had selected to reconsider his acceptance of the presidency.

The college president, in short, must balance the ideal and the real—and he cannot, as Jacques Barzun noted in *The American University*, “forget the difference between the golden and the leaden functions he is supposed to perform.”

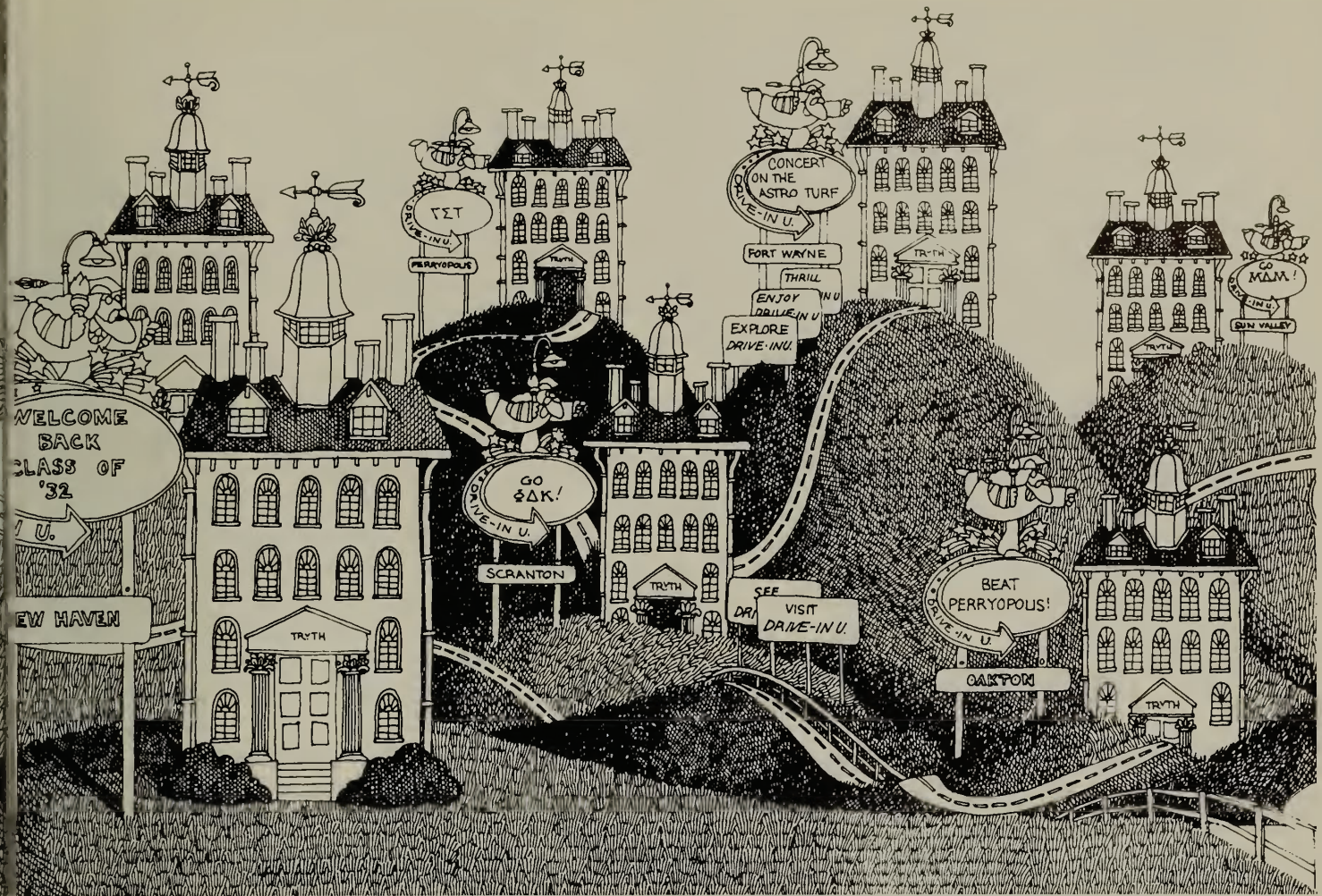
NOR CAN THE PRESIDENT FORGET that his products are not cars or switch-dimmers or sky hooks, but people. If the company fails to tool them properly, the losses will be very human ones.

At this point more than at any other, the corporate analogy falters. The products are men and women, and the process is the often-meandering one of discovery and learning.

“Colleges have to be run in a businesslike fashion,” says the president of Bowdoin College, Roger Howe Jr., “but I’m not sure you can run them exactly like businesses. The absence of a bureaucracy would be very quickly remarked upon by the faculty if the checks didn’t turn up on payday; but a lot of academicians would argue that efficiency, while a good thing, is not the highest of all possible virtues.

“In the educational process there is occasionally a good deal to be gained from a certain amount of inefficiency. If you get so that everything is in exactly the right place, it eliminates serendipity, and one of the exciting and useful things about an educational process is discovery. You want to be careful to preserve that capacity for this in the midst of all your efficiency.”

The University of Iowa’s Willard Boyd makes



er distinction between academic and corporate
 arship: "The college president must keep things
 ed up so that the intellectual life will grow." The
 ssity of ferment, he argues, is even greater during
 e present besieged state of higher education:

These are conditions which either can frighten col-
 g and universities into blind 'intellectual protec-
 sm' of the past and present, or challenge them to
 k future 'intellectual risks.' The latter is the more
 ulti, yet more creative, course. It is not antithetical
 e intellectual process. Quite the contrary, it is the
 ace of it."

ne advertisement for a president, then, needs this
 anation:

Must create an adventuresome corporate structure,
 rve a noncorporate end."

AS THE PROBLEM facing today's college or university
 icient boils down to this: how to apply the tech-
 ogy and lessons of corporate management to the
 human process of education. With that problem
 es this more difficult quandary: how to measure
 worth of a human product.

he Rev. J. Donald Monan, president of Boston

College, would begin to evaluate the success of an
 educational enterprise by looking at the alumnae and
 alumni:

"I have sometimes said—and I believe it—that col-
 leges exist for alumni and not for students. If everyone
 fell off the earth after commencement, there would be
 a genuine worth in what you're doing; but in the long
 run—in service to society—institutions have their effect
 through the long-term careers of their alumni.

"If you can touch their whole character and their
 professional expertise, you are doing something impor-
 tant for society through alumni."

Yet there is no easy way for today's college or
 university president, grown increasingly remote from
 the ebb and flow of campus life, to touch a student's
 character. The college president of yore, who spent his
 Saturdays pacing the sidelines and his Mondays parsing
 Latin, is as rare as the college of yore. Although one
 notable group of modern presidents has gone public—
 Duke's Terry Sanford announces for the White House,
 the University of Chicago's Edward H. Levi takes over
 the Justice Department, the University of Alabama's
 David Mathews is called to head up H.E.W.—many
 more have gone private. Faced with multitudinous obli-

gations to a many-faceted institution, they delegate authority and become inundated by their functionaries; or, eschewing extensive delegation, they become buried in the manifold details of their position. Few stand up in the middle, talking in public about the problems, challenges, and duties of higher education; and the few who do are too often quoted to engage the public's attention for long.

A recent poll by *Change* magazine asked 4,000 college presidents, government officials, foundation executives, and journalists to pick the leaders of higher education. Among the top 44 were only seven presidents.

Yet even if the president does come home from his travels, even if he does emerge from his office, even should he choose to speak out, is it possible for him to touch the character of such a complex structure as a college or university?

If the president can bear the burden, he might reach some students in the classroom, others at dinner and sports. He can have students living in his home. He can, as does Iowa's Boyd, advise a handful of students.

He can put his office in the middle of the quad and open the door to all who drop by. But can he identify their character? And, even if he accomplishes that, can he affect it?

Legal sanctions and social change have foreclosed the day when colleges could act *in loco parentis*, with the president as reigning patriarch or matriarch.

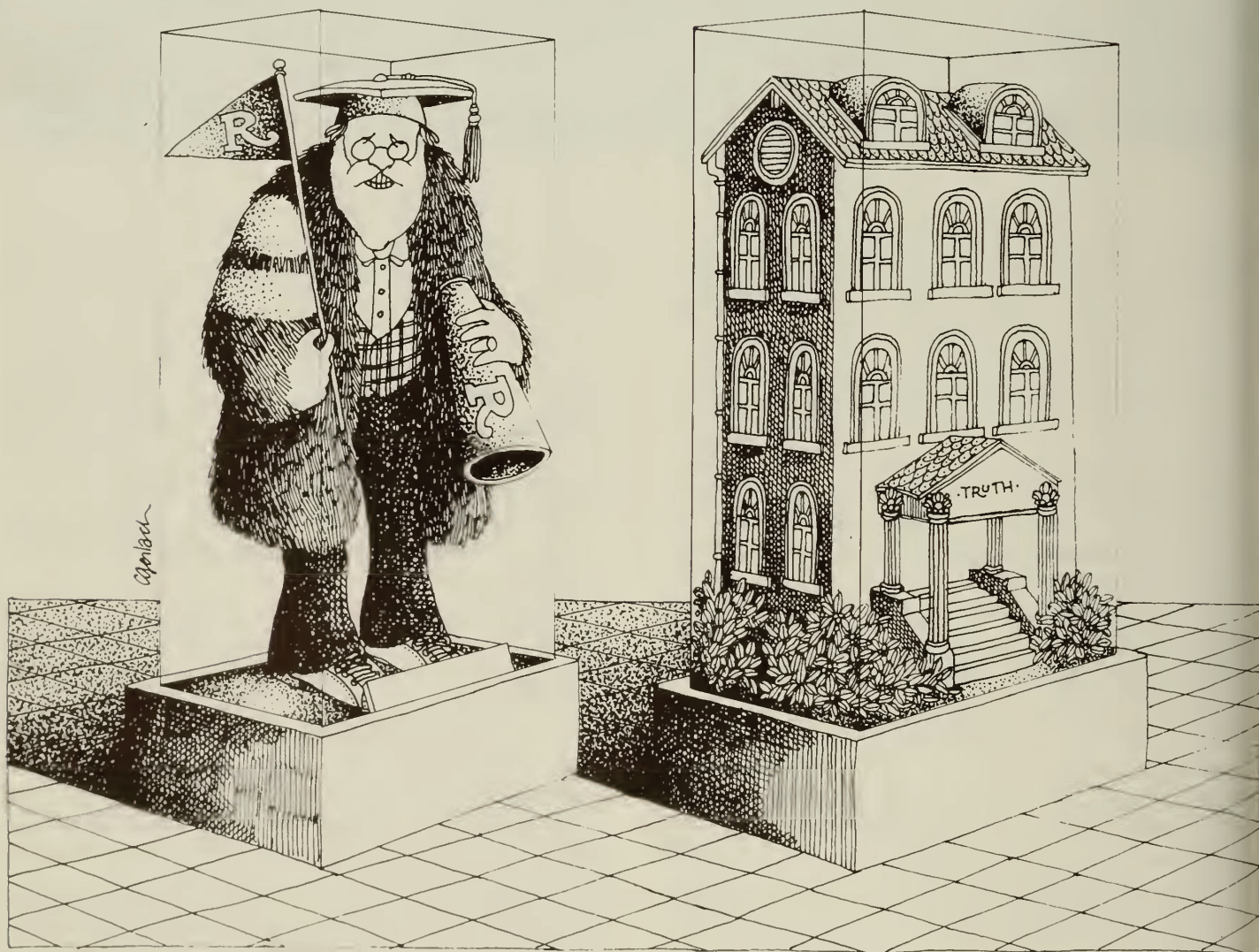
Says Bowdoin's Howell:

"Our kids are all legally adults; it's incumbent on us to treat them as adults in all kinds of ways besides just legally admitting that it is the case. The institution cannot have a simple set of values which it says is the only moral code to live by."

But, he adds: "I don't believe that this cuts down on the sense of being concerned about values, particularly in a liberal-arts institution."

Says Boston College's Father Monan:

"At least for many institutions, concern with values is something very new. In the '50's you had some very prestigious presidents saying that the whole value dimension was to be left to other agencies and the school was to be concerned with truth."



"I don't think you have to make facile distinctions like that. For everyone there is a recognition today that here is a clearer obligation. However, to communicate values is not like communicating calculus."

Some beginnings, suggests Father Monan, lie at the very core of the job. The president must show the faculty and students that he understands the value of the academic life and that he wholeheartedly supports it in all its manifestations. He must, if his constituency is to take him seriously, show that he views them with equal earnestness.

But the data for measuring the touching of character are squishy. Frequency-of-repair records and percentages of the marketplace tell hard facts about light switches and their manufacturers, but no charts can measure the relative worth of a technician and a lawyer, a contemplative person and one of action. Indeed it may well be—as J. Douglas Brown, the emeritus professor and dean of the faculty at Princeton University, suggests—that the very obscurity of the data, the immeasurability of the product, increases the president's centrality within a college or university:

"An industrial organization may seek to merge the functions of leadership into a combination of senior specialists in production, finance, and public relations—not always successfully. A church, in order to safeguard its traditions, may place leadership in a collective body. But the university not only deals in a host of intangibles rather than profit, but also must move forward with vigor and sensitivity. Therefore, only a person, a president, can effectively combine tradition

"A president wants to be liked—by alumni, by faculty, by students and trustees. But in pursuing this, he may end up becoming a mediator."

and vigor to gain understanding response from a complex of cooperating constituencies."

Yet, however central to the institution the president becomes, he must lead if he is to be followed. Says Yeshiva's Miller Upton:

"A president must be willing to be out front, in places where he knows he's going to get shot at. This is difficult. There's a great temptation to play it easy. A president wants to be liked—by alumni, by faculty, by students and trustees. But in pursuing this, he may end up becoming a mediator.

"Leadership in education is difficult because of the

collegial nature of the community; it's tougher than in business, where lines of authority are so tightly drawn and easily availed of. But it is possible to be a leader and not just a mediator."

ASSUME FOR THE MOMENT that the president can hunker down to the job at hand; that he can lead; that in ways mysterious or practical he can see to the touching of the institution's complex character. Can he then turn successfully to the very corporate business of building a better mousetrap—of tooling a product that society wants, a product society needs?

In the difference between wants and needs lies another dilemma—and yet another distinction between the leadership of business and education. To create a product the public wants is a relatively easy and often lucrative matter, once the want has been identified and the technology refined. To create a product to fill a projected and abstract need, the want of which might never be articulated, would be business folly, yet how much such an approach makes education sense—how much it is higher education's duty—may well be a measure of the limits of the corporate approach to education. If, as many who practice the art believe, a president's primary responsibility is to plan for the future, then it may be his equal or greater obligation not to settle for survival in a mean world, but to strive for utility in a grander one.

MANY OBSERVERS of the present educational scene, like *Dædalus* editor Stephen R. Graubard, see presidents and their institutions enmeshed in a survival strategy:

"Today, when higher education has receded from the front pages of all newspapers, when television has few student demonstrations to film and no non-negotiable demands to report, when the federal government seems generally bereft of ideas on higher education, and when state legislatures wrangle usually over the size of budgets and university presidents dash about searching for new monies to offset inflationary costs for which increased student tuition and fees are quite insufficient, there is an almost instinctive concern within every institution to look out for itself, to create those conditions that will guarantee its own 'survival' and possibly increase its competitive advantage. There is not much talk of reform: the problem is to get through a difficult time, a time of 'no growth' and of persistently rising costs. Colleges and universities seem frightened and confused."

To the extent that survival in whatever form becomes the goal, the criteria of survival become the measure by which the president is evaluated. Again, Stephen Graubard:

"To an extent that was not true previously, presidents and deans are judged for their ability to manage

and husband funds. Even where they have been selected as 'crisis managers,' they are generally prized for their efficiency as fiscal agents."

Tooling a product to meet present ends and future needs poses temptations and hard choices—particularly in periods of high unemployment, when the demand for specific occupational training increases. Boom times provide the means for intellectual activity; hard times heighten the demand for vocational skilling. Beloit's Miller Upton and others suggest that the measure of an institution's—and its leaders'—commitment to liberal education might well be the tenacity with which it clings to its historic educational mission in depressed times.

Says Reed's Paul Bragdon:

"Let us acknowledge straight-away that there is a need and a place for vocational education, and that most students are going to enter the work force upon completing their formal training, *i.e.*, they're going to have to find jobs. We should not fail, however, to note a number of ironies.

"First of all, most institutions, public and private, throughout the world are today seeking as leaders broadly educated men and women who have mastered the methods of understanding and attacking problems, not the narrowly trained specialist. Secondly, the seemingly unyielding problems of our times will not be solved by vocational certificates any more than by good intentions alone, but will require the attention of educated and trained men and women with high moral purpose. Thirdly, in a society in which more leisure time is likely to be available, we have to ask what the results will be—enriched lives or lives marked by boredom, booze, and the boob tube?

"The welcome addition of increased opportunities for vocational education should not obscure the significance of a liberal education in the lives of men and women and for the fate of society."

Says Martin Meyerson, president of the University of Pennsylvania:

"Those of us in colleges and universities ought to help unite the profession or the calling with liberal learning. If we do not, we shall have failed the rightful aspirations of many of the young who seek a life of service. Moreover, unless we imbue vocation with a sense of liberal learning, we shall have failed to improve life as well."

But to unite the need for specific skills with a broad exposure to thought and culture is more complex than overseeing the merging of the acetates and alloys that produce switch-dimmers. Ironically, the direction may be easiest for presidents whose institutions serve the underprivileged, if only because, for them, need supersedes theory. Says Howard University's James Cheek: "Because blacks have the greatest trouble finding jobs,

"Presidents are generally prized for their efficiency as fiscal agents."

we must be acutely aware of where shortages are and will be in the labor market, particularly in the professions; and we must tailor our programs to those shortages."

FOR ALL THE LEADEN REALITIES of the president job, the golden possibilities beckon. "I think," muse the American historian Henry Steele Commager, "we should support, or if necessary create, a group of men and women whose business is to think far ahead of their contemporaries, whose business is not to represent their own country, their own class, their own time men and women who should be excused from many of the pressures and passions of their own day and permitted to imagine a different kind of world, to anticipate problems and propose solutions to them. . . . Needless to say, we have at least an embryo, just such a class. I refer to the university."

But the leaden realities lie in wait. Purely contemplative creatures require the sort of foundation support that has dried up in the present financial climate and may not readily revive again. X-ray technicians are at work; English doctors of philosophy are at home, typing *curricula vitae*.

The balance of the tangibles and intangibles in educational planning and the articulation of purpose are, says Harvard University president Derek L. Bok, critical functions for presidents and their deans:

"As spokesmen for their institutions, they cannot expect to win the understanding and support of a wide community unless they can explain with conviction what their colleges are supposed to accomplish. In deciding how to allocate new resources—or indeed how to distribute their own time and energy—they can hardly establish coherent priorities without some sense of the ultimate purposes which they hope their college will achieve.

"For these reasons, presidents and deans must formulate their own sense of the institution's goals even if their faculties are unable or unwilling to undertake the task."

It has been a neglected function, he adds:

"Our colleges seem to exist without making much of an effort to define their aims. In the thick reports of undergraduate education that many colleges have produced in recent years, there is little discussion of what



is that a liberal-arts education should provide for the student.”

The articulation of purposes, however, can rarely be accomplished solely in the light of today or tomorrow. The college or university president is not allowed to forget that the majority shareholders in his corporation are themselves its past products, with an attachment to that past.

If the traditions of the past are to be violated, if old ways are to be altered to meet a new world, the alumni and alumnae want an explanation from the president. And they vote their approval or disapproval in a most tangible and meaningful way—with dollars and cents that aggregate into the annual-giving totals upon which the daily functioning of the institution’s manufacturing process so heavily depends.

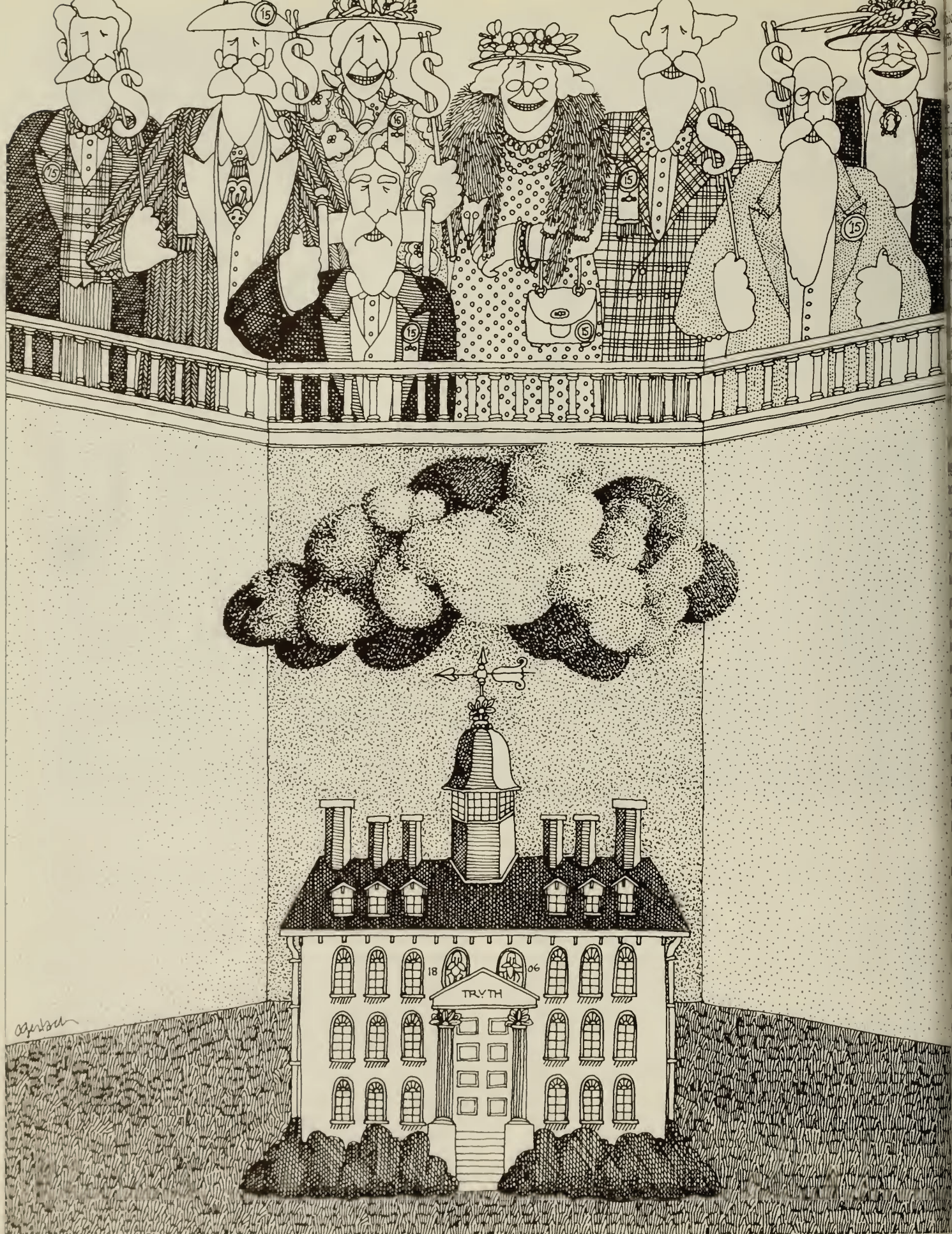
Perhaps, then, any ad for a college president should contain a warning:

“Caution: past products may dictate direction of present process.”

ASSUME—again for the moment—that the president can divine a course on which to set his enterprise. Can he steer it to his objective, through the welter of organizational detail?

Here, again, lie the challenge and necessity of balance. Says Princeton’s ex-provost, J. Douglas Brown:

“Apart from the central role of leadership in terms of the goals, values, and standards of his institution, the president must have a sense of organization and of the administrative arts of working through organization to attain institutional goals. It is this aspect of his role



which makes a shift from professor to president most difficult for many.

"The professor can express ideas and purposes with efficiency, but the president must implement them through complex processes of gaining willing and effective cooperation in scores of areas and at all levels. It is in the advanced interplay of leadership in ideas and leadership in an operating, dynamic organization that the quality of a president is tested. Too much emphasis on either aspect at the expense of the other may lead to high purposes without accomplishment or a well-run educational factory."

Yet even the art of balancing is not what it once was. To reconcile research facilities and faculty development with classroom space and teaching loads, football aspirations with faculty salaries called for a fine bit of juggling. But the task has been immensely complicated by new legal realities in the academic world.

Consider the case of a university in the Southwest, which, as of July, 1975, had eighteen lawsuits pending against it or its officers in which the university was accused of violating constitutional or civil rights. Several of the suits claimed that the university's admissions procedures were arbitrary and capricious. Others, filed by students and faculty members, charged improper and unlawful dismissals. A research assistant was seeking \$500,000 in damages for the university's failure to renew his contract; a faculty member not recommended for renewal was seeking a million. Several women professors charged they had been discriminated against because of sex; a male nurse contended that he would have been dismissed from his position with the university had he been female. A plaintiff had sued because, she said, the university had failed to provide her with an abortion. Two Mexican-Americans, former employees, alleged a broad discriminatory policy on the part of the university.

Finally, the president of the university was being sued for \$5-million by a former professor in the medical school, who contended that the president had illegally requested both the doctor's resignation and the restitution of funds allegedly received from the university by the doctor without authorization.

(Legal routes are, of course, mutually available. When Frank I. Keegan was ousted as president of Salem State College in Massachusetts, following a no-confidence vote by his faculty and administration, he filed suit against the trustees, seeking \$200,000 in damages and reinstatement as president.)

The proliferation of suits against the institutions poses still another grim specter for the president. Insurance companies are increasingly reluctant to provide liability coverage in the civil-rights area; and without that sort of basic protection—seemingly so far removed from the world of academe—the academic support

systems cannot begin to function. What kind of legerdemain is needed to balance such a complex?

And, of course, where will the presidents and their institutions find the money to finance the support systems they devise, however perfectly? Indeed, more and more where will they find the funds to underwrite those systems that already exist? How to look to the future while keeping the present afloat? How much to scuttle so that the enterprise can get where it is going? And what kind of college or university will arrive at its destination?

How even to find the money to meet the rapidly rising costs of complying with federal social programs

"The student unrest of the '60's taught presidents that we could not dictate any longer, that we had to share power and seek counsel."

—with the financial demands of equal employment opportunity, of equal pay, of affirmative action, of non-discrimination by age, of occupation safety and health, of minimum-wage and fair-labor standards, of unemployment insurance, of social security, of health-maintenance organizations, of pension-security-act provisions, of wage and salary controls, and of environmental protection? At one large, public university such costs have tripled in a decade. At a large, private university they rose from \$110,000 in 1964-65 to \$3,600,000 last year. At a medium-sized private institution, they grew 150-fold in the same period—from \$2,000 to \$300,000.

Must the president reach out blindly for funds—any funds? Or must he somehow weigh the future effects of present relief from financial strain? "Why Richard," Sir Thomas More was made to say in *A Man for All Seasons*, "it profits a man nothing to sell his soul for the whole world . . . but for Wales!" How can a college or university president identify what and where the institution's soul is, and when it is being bartered?

WHO IS A MAN (AND WHO IS A WOMAN) for this season?

Boston College's Monan suggests that Aristotle might serve well as a college president.

"If a president needs one thing, I think he needs judgment—practical judgment that is able to understand the complexities of problems and foresee the

“Whenever I watch the university’s man riding the power lawnmower, cutting figure-eights, in complete control of his machine and total arbiter of which swath to cut where and when, I envy his superior autonomy. I don’t have his power.”

types of consequences that will flow from the alternatives that are open. He must be able to make good decisions, and that’s what Aristotle stressed in his *Ethics*.”

Father Monan, however, issues one caveat: “Many philosophers’ theories about life don’t always coincide with their own abilities to live life and make judgments themselves.”

Bowdoin’s Howell nominates Elizabeth I: “She’s certainly used to balancing tight resources and still keeping things going. And she’s a marvelous public speaker.”

Perhaps our help-wanted advertisement needs further modification:

“Must be resourceful and practical. Should have a grasp of today and a clear vision of tomorrow.”

ONE FINAL QUESTION needs to be asked. It may negate the need to answer any of the others.

Does the modern president have the *power* to lead?

A veteran watcher of the office, who has served under five presidents, notes that in the modern institution “power is so diffuse. Everyone has negative powers, not positive ones. They can veto, but they can not effect.”

Faced with government regulations; the moral and legal pressures of organized parents, consumers, and environmentalists; the scrutiny of alumni and trustees; and the often-competing wants of some 500 on-campus governance and interest groups, Cincinnati’s Warren Bennis expresses a longing and frustration that many presidents share:

“Whenever I watch the university’s man riding the power lawnmower, cutting figure-eights, in complete control of his machine and total arbiter of which swath to cut where and when, I envy his superior autonomy. I don’t have his power.”

A study of leadership in higher education, published in 1974 by the Carnegie Commission, concludes:

“The presidency is an illusion. Important aspects of the role seem to disappear on close examination. In particular, decision-making in the university seems to result extensively from a process that decouples problems and choices and makes the president’s role more commonly sporadic and symbolic than significant. Compared to the heroic expectations he and others might have, the president has modest control over the events of college life.”

Should he find himself largely symbolic, more the present Queen Elizabeth than an Elizabeth I, the new college or university president might well look to the immediate track record of his predecessors to discover where (and why) his power has gone. Many lost their chambers—literally—as the ’60’s wrenched to a close and student occupiers moved in. But many, too, may have figuratively abandoned their offices in the crunch of the warfares at home and abroad.

Many presidents—sharing, at least in part, the politically liberal sentiments if not the radical tactics of their rebellious students—acted reluctantly, if at all, to curb campus disorders. Civil persons, they confronted incivility; persons prone to explore, to weigh, to seek the middle road, they found many of their students holding rigidly to political and philosophical stances; peaceful persons, they were expelled by force.

Says Father Theodore M. Hesburgh, president of the University of Notre Dame:

“The public at large had been told that the university could solve all the nation’s and the world’s problems. But when they came to solving their own new problem of student unrest, most university administrators appeared helpless.

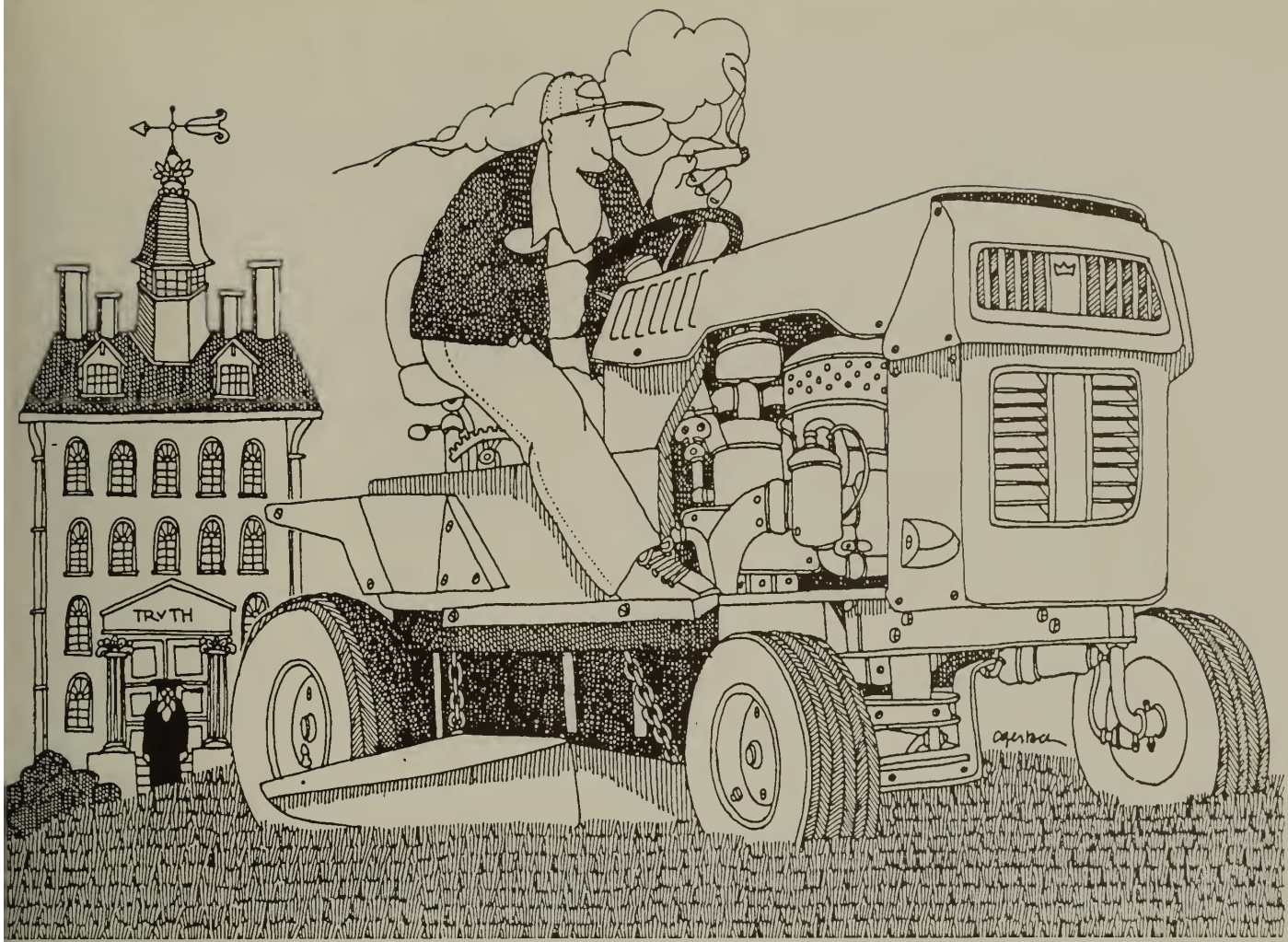
“. . . University presidents, the font of all wisdom, were treated to student contempt, insult, intimidation. Their offices were occupied and ruined; their authority, unexercised or disregarded. Most became scapegoats for the total failure of the university to cope with disruption.

“The exodus of distinguished presidents was unprecedented in the history of American universities. From Berkeley to Harvard, from Chicago to Stanford, the presidential offices were emptied, and all efforts were made to find new men versed in crisis management. Often they stayed less than two years, as at Indiana, Columbia, and Stanford; those that lasted kept a low profile.

“There was no conventional wisdom for the traditional presidents to fall back on. One week one president was fired for calling the police and another was fired for not calling the police.”

However dire the events, says Father Hesburgh, the aftermath was more profound:

“The worst results of the happenings of the ’60’s were the crisis of confidence and loss of nerve they



duced in the universities, coupled with a growing disdain and even contempt for universities on the part of those who had loved them most: parents, alumni, benefactors, legislators, students, too.”

How much of the presidents’ loss of power is a function of their unwillingness to exercise it? Has the adversary, by bringing the arbitration of social conflict to its grinding processes, dulled the fangs of the presidency? Or was the power already lost before it was so recently tested?

Was the leadership vacuum of the late ’60’s only a dramatic expression of a *fait accompli*?

For that matter, is reduced presidential power necessarily bad for the institution?

James Cheek, who freely owns that he has less power now as head of Howard University than he did a decade ago when he was president of Shaw University, does not rue the loss:

“The student unrest of the ’60’s taught presidents that we could not dictate any longer, that we had to share power and seek counsel. Unlike the corporate head, the college president must be willing to exist as first among equals. In the narrow sense of executing

my own duties and responsibilities, this sharing has made the job more difficult; but in the broadest sense, it has been good for the presidency and for the educational community.”

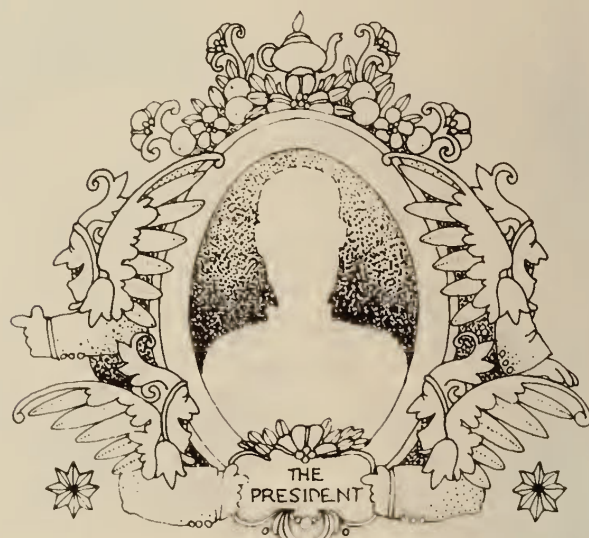
Barnaby C. Keeney, president of the Claremont Graduate School and for 11 years president of Brown University, suggests that the final years of the last decade brought to the fore a continuing presidential and institutional deception that undermined and finally destroyed the public confidence necessary to the successful exercise of such delicate power.

“We have a long tradition and a well-established practice in American higher education of saying one thing and doing another. This practice was particularly virulent in the 1960’s for a number of reasons, and it contributed to the loss of credibility of college and university presidents and their institutions.

“We stated our lofty aims and described our virtuous practices, and then sometimes acted sordidly. The most obvious example of such action is in the usual description of the purity of amateur athletics, of which the practices of recruiting with little restraint and unscrupulously giving scholarships

to athletes who cannot graduate are part. We inherited and made strict rules for student conduct and enforced them unevenly, more so than was made necessary by the need for flexibility. We described our institutions as open to all qualified students, and then made only

sons primarily skilled—in the words of Clark Kerr chairman of the Carnegie Council on Policy Studies in Higher Education and former president of the University of California—in “the ability to cut and trim” Can a president skilled to cut and trim also lead? O



token attempts to recruit from outside the middle class.”

Should the advertisement contain a final qualification: “Must say what is meant, and mean what is said”?

WILL THE NEW PRESIDENT be the image of the giants of the academic past, charismatic men and women whose presence resounded through the entire education community?

“They had scholarly tastes,” writes Harold W. Dodds, for 24 years president of Princeton University. “Each came to the office possessing an academic background. Each was . . . of broad interests; several were leaders in the political and diplomatic, as well as the educational, life of the country. Although none was able to ignore the undergirding functions, including fund raising, without exception they gave educational philosophy, policy, and program top priority.”

But could they live with the discord that is a pervasive and perhaps vital part of *modern* campus life?

Could they, indeed, have achieved greatness in the present constrained, regulated academic world?

Will the president become, as the former president of Cornell University, James A. Perkins, predicts, “an elected official, nominated by the university senate and approved by the board, for a limited term . . . the consensus-maker, the broker between constituencies, the link—but not the only link—between the board and the senate”?

Will higher education’s leaders of the future be per-

will the leadership be not outward but inward, a withdrawal toward a stable center?

Must tomorrow’s college and university presidents, then, be mediators, low-profile crisis managers trained in the arts of conciliation? Apostles of efficiency? Task-oriented—a closed circle of managers revolving from institution to institution as particular needs demand particular talents?

The constituents—the alumni and alumnae, the taxpayers, the lawmakers—will have the final say.

WHO will answer the ad?

This special report

is the product of a cooperative endeavor in which scores of schools, colleges, and universities are taking part. It was prepared under the direction of the persons listed below, the members of EDITORIAL PROJECTS FOR EDUCATION, INC., a nonprofit organization. The members, it should be noted, act in this capacity for themselves and not for their institutions, and not all of them necessarily agree with all the points in this report. All rights reserved; no part may be reproduced without express permission. Printed in U.S.A. Members: GENO A. BALLOTTI, American Academy of Arts and Sciences; DENTON BEAL, University of Bridgeport; ROBERT W. BEYERS, Stanford University; DAVID A. BURR, University of Oklahoma; MARALYN O. GILLESPIE, Swarthmore College; CHARLES M. HENKIN, Council for Advancement and Support of Education; JOHN I. NATHIEL, Massachusetts Institute of Technology; KEN METZLER, University of Oregon; ROBERT M. RHODIS, Brown University; VERNE A. STADTMAN, Carnegie Council on Policy Studies in Higher Education; FREDERIC A. STOLT, Phillips Academy (Andover); FRANK J. TATE, the Ohio State University; DOROTHY E. WILLIAMS, Simmons College; RONALD A. WOLK, Brown University; ELIZABETH BOND WOOD, Sweet Briar College. Editors: CORBIN GWALINEY, HOWARD MEANS. Illustrations by CAMERON GIRLACII.

Thank You!

Report of the 1974-75 WPI Annual Alumni Fund

Dear WPI Graduates:

One of the great challenges and a source of satisfaction for a college president is to meet and work with diverse groups on behalf of his institution. Diverse as these groups

are in background, attitude, and age, they usually have one thing in common—enthusiasm for their Alma Mater. None does better in this regard than the alumni of WPI who generously support us in many ways.

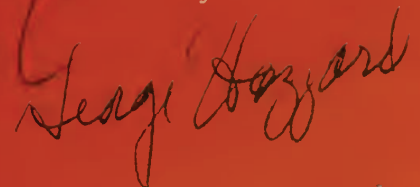
In these challenging economic times the Annual Alumni Fund is of critical importance. The leverage it gives us in accomplishing our objectives is enormous. This past fiscal year exemplified the positive results: the \$215,000 Annual Alumni Fund is a significant factor in our total operating budget. It was made possible by many sacrificial gifts from alumni throughout the country and world. To each and every one of you I extend the heartfelt thanks of an appreciative institution for your generous and most meaningful support.

Special thanks go to the classes who celebrated their 25th, 40th, and 50th reunions last June. Your special anniversary gifts to

the College were most significant and heart-warming. The classes of 1925 and 1950 applied their gifts to a neuroelectrophysiology and a life science laboratory, respectively, as part of the renovation of Salisbury Hall. The class of 1935 endowed scholarships in their name. These gifts help us to continue our provision of outstanding engineering and science education.

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Arnold J. Antak, '68, Richard A. Arena, '71, James P. Atkinson, '69, William N. Ault, '73, Gregory W. Backstrom, '70, Walter J. Bank, '46, Nicholas J. Barone, '65, Donald W. Bean, '58, Capt. Francis L. Belisle, Jr., '70, L. Thomas Benoit, Jr., '66, Carl W. Bergman, Jr., '46, Paul H. Bergstrom, '38, Edouard S. P. Bouvier, '55, James W. Bowen, '74, John J. Bresnahan, Jr., '68, Daniel J. Brosnihan III, '62, Gedney B. Brown, '55, James R. Buell, '73, William S. Bushell, '37, Neil T. Buske, '59, Edward F. Cahalen, '27, Robert H. Cahill, '65, Edwin C. Campbell, '43, Donald C. Carlson, '65, John H. Chapman, '37, Raymond F. Cherenzia, '73, R. Norman Clark, '33, Joseph J. Conroy, Jr., '46, George Davagian, Jr., '68, Ralph A. Di Iorio, '70, George D. Eldridge, '63, William F. Elliott, '66, Willard R. Ernst, '53, Richard M. Filippetti, '73, Charles S. Frary, Jr., '34, George F. Gamache, '68, Douglas J. George, '69, Carl A. Giese, Jr., '43, Michael T. Glynn, '68, Michael G. Gordon, '56, Philip J. Gow, '43, Miles W. Grant, Jr., '59, William G. Hillner, '70, David G. Holloway, '59, Timothy C. Johnson, '71, Elliott D. Jones, '32, John D. Kaletski, '72, Lawrence Katzman, '69, Charles D. Konopka, '68, Robert J. Leduc, '72, Richard A. Loomis, '55,

Daniel J. Maguire, '66, R. Michael Malbon, '63, Arthur H. Mallon, '39, Frederick W. Marvin, '46, Daniel G. Mazur, '38, Donald M. McNamara, '55, John C. Meade, '46, Richard R. Nabb, '73, Donald R. Nelson, '59, Howard I. Nelson, '54, Peter A. Nelson, '59, Stewart W. Nelson, '66, Robert G. Newton, '40, Lcdr. Brian J. O'Connell, '62, John R. Palitsch, '74, Lawrence A. Penoncello, '66, Neal D. Peterson, '51, Stephen W. Petroff, '68, Walter E. Pillartz, Jr., '61, Andrew L. Piretti, '68, F. David Ploss III, '70, Leonard Polizzotto, '70, Albert Pollin '55, Richard G. Ramsdell, '41, Lynwood C. Rice, '44, William G. Ritchie, '48, John E. Rogozenski, Jr. '67, James F. Rubino, '74, Edward G. Samolis, '52, Leon R. Scruton, '70, Herbert H. Slaughter, Jr., '46, Richard A. Sojka, '72, Stanley W. Sokoloff, '59, Douglas H. Tarble, '73, Jayantilal T. Thakker, '66, Victor H. Thulin, '42, Francis G. Toce, '60, John G. Underhill, '44, Jeremiah H. Vail, '33, Charles F. Walters, '55, Elbert K. Weaver, '60, Leonard J. Weckel, '66, Leon F. Wendelowski, '69, Ralph D. Whitmore, Jr., '42, Francis L. Witege, '38, Nancy E. Wood, '73, Robert R. Wood, '73, Bruce T. Work '74, William H. Wyman, '65, Paul C. Yankauskas, '42, Ronald L. Zarella, '71, Michael P. Zarrilli, '71

ANNIVERSARY PROGRAM

Harold R. Althen, '52, Gerald F. Atkinson, '51, Bruce M. Bailey, '51, David C. Bailey, '25, Harold A. Baines, '26, Leo T. Benoit, '36, Carl F. Benson, '36, Milton E. Berglund, '26, Karl H. Bohaker, '35, Carleton W. Borden, '36, Richard C. Boutiette, '52, John R. Brand, '36, Paul J. Brown, '50, Harold S. Burr, '36, Carl F. Carlstrom, '25, Allen C. Chase, '36, George L. Chase, '36, Everett S. Child, Jr., '50, B. Austin Coates, '35, Henry S. Coe, Jr., '50, Henry S.C. Cummings, Jr., '50, Walter G. Dahlstrom, '36, C. Marshall Dann, '35, Phillip R. Delphos, '26, Henry M. Demarest, Jr., '51, Walter B. Dennen, Jr., '51, Dr. Paul M. Downey, '36, Donald L. Edmunds, '36, Clifford I. Fahlstrom, '27, Robert Fowler, Jr., '36, George W. Fuller, '36, Rafael R. Gabarro, '51, Alexander L. Gordon, '36, J. Edward Guild, '36, Allan F. Hardy, Jr., '35, Daniel J. Harrington, Jr., '50, William H. Haslett, Jr., '51, Lawson T. Hill, Jr., '50, E. Carl Hoglund, '27, Arthur V. Houle, '25, Richard E. Howard, '51, Daniel L. Hussey, '25, Carl E. Johansson, '51, Edmund G. Johnson, '51, Joseph A. Johnson, Jr., '35, W. Evans Johnson, '51, F. Kenwood Jones, '36, Arthur W. Joyce, Jr., '50, Francis E. Kearney, '50, Kirke Leonard, '51,

Donald C. Lewis, '51, Stanley R. Lindberg, '51, Robert M. Luce, '51, Dewey R. Lund, '51, Philip A. MacArdle, '27, Frank A. MacPherson, '51, Luther B. Martin, '25, Thomas A. McComiskey, '51, James H. Meiklejohn, Jr., '50, Henry L. Mellen, '25, Stanley L. Miller, '51, David M. Morley, '36, Edward C. Moroney, Jr., '51, William F. Mufatti, '51, Duncan W. Munro, '51, Edwin H. Nahikian, '51, Roland L. Nims, '35, John J. O'Donnell, '36, Kenneth W. Parsons, '50, Charles C. Peirce, '51, Michael C. Rallis, '36, George E. Rocheford, '36, Robert W. Rodier, '51, Lawrence F. Scinto, '51, Robert B. Scott, '25, Paul F. Seibold, '50, Ramsey U. Sheikh, '51, Alan F. Shepardson, '36, George A. Sherwin, '36, Lester A. Slocum, Jr., '51, Dr. Stedman W. Smith, '36, Eric W. Soderberg, '35, Vartkes Sohigian, '51, Donald J. Spooner, '51, Mabbott B. Steele, '26, Philip J. Sullivan, '35, Roger W. Swanson, '51, Gordon S. Swift, '35, Henry D. Taylor, '51, Robert B. Taylor, '35, Joseph E. Thomas, '51, John M. Tracy, '52, Arthur D. Tripp, Jr., '36, Abbott D. Wilcox, '36, Plummer Wiley, '35, Samuel R. Winther, '51, Robert C. Wright, '36, Frederick L. Yeo, '36

GIVING BY CHAPTER

Chapter	# In Chapter	# Of Gifts	Percent Participation	Goals	Total Cash	Cash - % Of Goal	Average Gift
Berkshire	77	26	33.77	1,600.00	\$ 727.67	\$ 45.47	\$ 27.99
Boston	1062	394	37.10	24,000.00	20,471.00	85.29	51.96
Central New York	111	55	49.55	2,800.00	1,795.00	64.10	32.64
Chicago	130	45	34.62	6,000.00	2,942.50	49.04	65.39
Cincinnati	52	18	34.61	1,600.00	945.00	59.06	52.50
Cleveland	103	44	42.71	3,500.00	2,950.00	84.28	67.04
Connecticut Valley	362	141	38.95	11,500.00	6,082.00	52.88	43.13
Detroit	106	49	46.23	3,000.00	2,810.00	93.66	57.35
Eastern Connecticut	163	68	41.72	3,000.00	9,674.49	322.48	142.27
Hartford	688	288	41.86	20,000.00	10,253.34	51.26	35.60
Hudson-Mohawk	185	94	50.81	4,500.00	4,074.20	90.53	43.34
Los Angeles	276	97	35.14	18,000.00	4,305.00	23.91	44.38
New Haven	404	154	38.11	10,000.00	6,133.34	61.33	39.82
New York	505	179	35.45	17,500.00	13,916.68	79.52	77.75
North Shore	352	144	40.91	7,500.00	5,647.48	75.29	39.22
Northern California	192	83	43.23	7,000.00	3,764.00	53.77	45.35
Northern New Jersey	468	222	47.44	17,000.00	18,969.01	111.58	85.45
Pacific Northwest	50	19	38.00	4,000.00	2,007.00	50.17	105.63
Philadelphia	318	123	38.68	7,000.00	4,626.82	66.09	37.62
Pittsburgh	81	46	56.79	4,000.00	2,295.00	57.37	49.89
Rhode Island	383	121	31.59	7,500.00	3,851.02	51.34	31.83
Rochester-Genessee	120	62	51.66	2,500.00	2,170.00	86.80	35.00
Southeastern	86	29	33.72	3,000.00	592.75	19.75	20.43
St. Louis	19	9	47.36	1,000.00	210.00	21.00	23.33
Washington	446	204	45.74	15,000.00	10,749.16	71.66	52.69
Western New York	80	38	47.50	2,500.00	1,109.50	44.38	29.19
Wilmington	104	46	44.23	3,000.00	2,080.00	69.33	45.22
Worcester	2066	639	30.93	50,000.00	35,372.06	70.74	55.91
Out of District	1983	656	33.08	42,000.00	33,125.50	78.87	50.50
Address Unknown	609	12	01.97		1,920.35	0.00	160.03
Totals	11,581	4,105	35.45	300,000.00	\$ 215,569.87	\$ 71.85	\$ 52.51

IN MEMORIAM

Memorial gifts of \$4,895.00 were received in memory of the following alumni:

James E. Smith, '06, Lester H. Greene, '12, Marquhar W. Smith, '13, Richard W. Young, '16, Allen D. Wassall, '17, William F. Ronco, '25, Harold P. Kranz, '29, Lothar A. Sontag, '29, Warren C. Whittum, '30, Ladislaus T. Jodaitis, '35, Lawrence F. Hull, '64, Robert W. Suhr, '65.

BEQUESTS

Bequests totaling \$290,750.99 were received during the past year from the estates of:

Almer H. Wilmarth, '97, Joseph W. Rogers, '01, Edwin M. Roberts, '04, James H. Manning, '06, Arthur J. Knight, '07, Herbert P. Sawtell, '08, Harold P. Conklin, '11, John Barnard, '13, Harry B. Lindsay, '13, Wyman H. Varney, '13, Edward T. Jones, '14, Raymond W. Burns, '16, Paul M. Abbott, '20.



GIVING BY CLASS

Class	Total in Class	# of Gifts	Percent Participation	Total Cash Gifts	Average Gift
1890	1	0			
1895	2	0			
1896	3	0			
1897	2	0			
1898	1	0			
1900	2	0			
1901	3	0			
1902	2	0			
1903	6	1	16.66	50.00	50.00
1905	4	1	25.00	50.00	50.00
1906	7	4	57.14	138.00	34.50
1907	10	6	60.00	305.00	50.83
1908	14	7	50.00	360.00	51.42
1909	12	4	33.33	250.00	62.50
1910	18	5	27.77	300.00	60.00
1911	13	4	30.76	275.00	68.75
1912	29	14	48.27	1,440.00	102.85
1913	27	12	44.44	1,170.00	97.50
1914	32	16	50.00	2,505.00	156.56
1915	38	19	50.00	7,899.49	415.76
1916	47	19	40.42	1,427.50	75.13
1917	57	25	43.86	4,054.00	162.16
1918	45	22	48.89	985.00	44.47
1919	38	23	60.52	6,367.80	276.86
1920	67	35	52.23	3,685.00	105.28
1921	54	26	48.14	1,840.00	70.76
1922	75	35	46.66	2,135.00	61.00
1923	62	39	62.90	3,275.84	83.99
1924	54	31	57.40	376.00	12.12
1925	67	28	41.79	4,340.00	155.00
1926	105	51	48.57	10,978.50	215.26
1927	74	35	47.29	4,410.00	126.00
1928	90	50	55.55	1,661.00	33.22
1929	81	43	53.09	1,288.00	29.95
1930	115	46	40.00	3,022.00	65.70
1931	115	54	46.96	5,997.00	111.06
1932	110	46	41.82	3,138.00	68.22
1933	123	62	50.40	3,189.17	51.43
1934	113	72	63.71	4,201.67	58.35
1935	134	78	58.21	13,660.50	175.13
1936	103	52	50.48	4,698.00	90.34
1937	107	59	55.14	4,747.75	80.47
1938	136	63	46.32	5,129.34	81.41
1939	140	78	55.71	3,070.00	39.36
1940	153	72	47.06	3,703.50	51.44
1941	155	68	43.87	2,850.00	41.91
1942	161	78	48.45	2,729.87	35.00
1943	143	62	43.36	1,817.50	29.31
1944	157	63	40.13	4,374.00	69.43
1945	142	61	42.96	2,779.98	45.57
1946	315	89	28.25	3,403.04	38.24
1947	79	31	39.24	1,292.00	41.68
1948	188	64	34.04	4,090.85	63.91
1949	243	128	52.67	5,588.35	43.66
1950	212	103	48.58	5,882.50	57.11

Class	Total in Class	# of Gifts	Percent Participation	Total Cash Gifts	Average Gift
1951	196	81	41.32	6,243.18	77.07
1952	173	19	10.98	1,115.00	58.68
1953	186	78	41.93	2,741.00	35.14
1954	157	57	36.31	2,485.00	43.60
1955	148	58	39.19	2,430.35	41.90
1956	164	65	39.63	2,037.00	31.34
1957	230	82	35.65	2,715.00	33.11
1958	235	75	31.91	5,038.00	67.17
1959	277	102	36.82	3,232.00	31.69
1960	297	92	30.98	2,740.00	29.78
1961	318	103	32.39	3,504.30	34.02
1962	283	75	26.50	2,085.00	27.80
1963	264	92	34.85	2,702.00	29.37
1964	322	96	29.81	2,679.48	27.91
1965	327	112	34.25	3,257.65	29.08
1966	346	106	30.64	2,547.00	24.03
1967	354	102	28.81	1,973.96	19.35
1968	448	121	27.01	3,670.00	30.33
1969	354	115	32.48	2,129.00	18.51
1970	392	103	26.27	2,208.32	21.44
1971	453	124	27.37	2,783.48	22.44
1972	357	68	19.05	1,052.00	15.47
1973	537	131	24.39	2,320.00	17.71
1974	477	60	12.58	850.00	14.17
Other		4		100.00	25.00
Total	11,581	4,105	35.45	215,569.87	52.51

GIFTS BY SIZE

Gift Range	Number of Cash Gifts	Cash Total
5000 and above	2	\$ 11,889.49
2000 - 4999	5	13,399.00
1000 - 1999	22	23,855.09
600 - 999	7	3,976.00
300 - 599	80	24,708.35
100 - 299	543	65,202.76
50 - 99	545	28,345.88
25 - 49	981	26,158.04
1 - 24	1,920	18,035.26
Total	4,105	\$ 215,569.87

DISTRIBUTION OF GIFTS

Student Aid	
Alumni Scholarships	\$ 29,000.00
Additional Financial Aid	10,000.00
Athletic Department	18,743.00
Faculty Salaries	20,000.00
Computer Center (PDP-10 Computer)	40,333.00
Restricted Gifts	
Class of 1925 (Biomedical Neuro-electrophysiology Labs)	4,340.00
Class of 1935 (Endowed Scholarship)	13,660.50
Class of 1950 (Life Science Instrument Lab)	5,882.50
Class of 1934 (Admissions Office Renovation)	4,201.67
Class of 1948 (Audio-Visual Facility)	4,090.85
Other Restricted Class Gifts	27,444.68
General and Miscellaneous	37,873.67
Grand Total	\$215,569.87

Honor Roll

An asterisk (*) before a name in the class list indicates that the alumnus has been a continuous contributor to the Alumni Fund since his graduation or since the Fund began in 1924. We heartily thank these loyal donors.

CLASS OF 1903

Henry J. Potter

CLASS OF 1905

Ernest C. Morse

CLASS OF 1906

Mark Eldredge, Franklin C. Green, Roy S. Lanphear, L. Norman Reeve

CLASS OF 1907

L. Herbert Carter, Percy M. Hall, Raymond A. Haskell, Howard H. Haynes, James B. Lowell, *Donald H. Mace

CLASS OF 1908

Herbert M. Carleton, Royal W. Davenport, Sumner A. Davis, Leon W. Hitchcock, George H. Ryan, Donald D. Simonds, Richmond W. Smith

CLASS OF 1909

George A. Barratt, Charles F. Goldthwait, Frank E. Hawkes, *Wilfred F. Jones

CLASS OF 1910

Charles E. Barney, Millard F. Clement, Edward A. Hanff, *Oliver B. Jacobs, Everett D. Learned

CLASS OF 1911

E. Donald Beach, David E. Carpenter, A. Hugh Reid, Clarence W. Taft

CLASS OF 1912

Eric G. Benedict, In Memory of Harrison G. Brown, George E. Clifford, Earl W. Gleason, J. Francis Granger, Guy C. Hawkins, Alfred R. Kinney, Frank M. McGowan, Eugene H. Powers, Henry A. Rickett, *James J. Shea, Harland F. Stuart, Edward J. Tucker, F. Holman Waring

CLASS OF 1913

Clarence A. Brock, Edmund K. Brown, Arthur C. Burleigh, *Frederick S. Carpenter, George C. Graham, Allen H. Gridley, John J. Desmond, *Franklin C. Gurley, Ellwood N. Hennessy, Earl H. Rice, In Memory of Farquhar W. Smith, Millard C. Spencer

CLASS OF 1914

James L. Atsatt, Edward C. Bartlett, Winthrop B. Brown, Arthur H. Burns, Horace L. Cole, Albert S. Crandon, Roy C. Crouch, John J. Desmond, *Franklin C. Gurley, Ellwood N. Hennessy, Earl C. Hughes, Chester M. Inman, George Ross, William W. Spratt, Arthur C. Torrey, Clayton B. Wilcox

CLASS OF 1915

Clarence F. Alexander, Allen M. Atwater, Howard C. Barnes, William J. Becker, John M. Bond, Frederick P. Church, David H. Fleming, Frank Forsberg, John W. Gleason, Elmer B. Haines, *Russell N. Hunter, Dr. Charles B. Hurd, Everett Hutchins, Winfield S. Jewell Jr., Raymond P. Lansing, Douglas F. Miner, Edward R. Nary, Myron M. Smith, Maurice G. Steele

CLASS OF 1916

*J. Arthur Blair, Carl H. Burgess, Leslie J. Chaffee, Wellen H. Coburn, *Simon Collier, Roland D. Horne, Robert E. Lamb, Donald B. Maynard, Joseph E. Murphy, Dr. Arthur Nutt, Chester G. Rice, Clifford W. Sanderson, Harold G. Saunders, *C. Leroy Storms, Sidney T. Swallow, Horace Trull, William S. Warner, Selden T. Williams, In Memory of Richard W. Young, Aurelio E. Zambarano

CLASS OF 1917

Edward M. Brennan, Walter F. Conlin Sr., Clinton S. Darling, Richard B. Davidson, Wentworth P. Doolittle, Clarence E. Fay, *Alfred W. Francis, Walter H. Gifford, Ronald E. Greene, Robert C. Hunckel, Charles E. Heywood, Louis E. Jacoby, Everett B. Janvrin, Richard D. Lambert, William L. G. MacKenzie, Paul J. Matte, Philip C. Pray, *Hermon F. Safford, Henry W. Sheldrick, Clarence B. Tilton, Max W. Tucker, John A. C. Warner, In Memory of Allen D. Wassall, John R. Wheeler, Hollis J. Wyman

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*Edwin W. Bemis, Carl I. Benson, Everett C. Bryant, George W. Caldwell, Roy H. Carpenter, Roger B. Chaffee, John W. Coghlin, Cyril W. Dawson, Howard S. Foster, Dana D. Goodwin, Ray W. Heffernan, Judah H. Humphrey, Howard A. McConville, H. Ear Munz, Vincent J. Pettine, George R. Rich, George W. Roraback, Jr., Thomas B. Rutherford, *Robert C. Sessions, Wilder S. Smith, Charles W. Staples, Raymond E. Taylor, Watson H. Whitney

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Carleton F. Bolles, Cornelius A. Callahan, George P. Coudit, Irving M. Desper, Rulph L. Draper, Robert M. Eldred, Russel B. Henchman, Jr., *E. Daniel Johnson, Joseph Kushner, William S. Lawton, Lyman C. Lovell, *William L. Martin, Lyle J. Morse, Robert W. Perry, Earl B. Pickering, Edward Rose, Alan W. Russell, Paul S. Sessions, B. Clark Shaw, Carl E. Skroder, Irving R. Smith, Foster E. Sturtevant, Lincoln Thompson, Dr. John W. Williams, Dr. Earl H. Winslow, Paul D. Woodbury

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W. Alden, Charles I. Babcock, Roy G. Bennett, Wellington Ingham, Alden I. Brigham, Carl W. Carlson, Charles N. Kson, Chester P. Currier, Charles S. Cushing, Emerson B. nell, Richard D. Field, Russell M. Field, Weston Hadden, ert B. Hall, John A. Herr, Wilfred H. Howe, Lawrence K. e, Enfried T. Larson, Kenneth J. Lloyd, James L. Marston, k R. Mason, Lloyd F. McGlincy, *Carl F. Meyer, Fred P. ard, C. Warren Page, Philip S. Parker, George F. Parsons, l Pickwick, Jr., Harold S. Rice, John V. Russell, Stanley M. nsend, *George A. Walker, *Philip H. White, *Everett G. htman, Robert M. Wilder

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arleton Adams, Jesse M. Blodget, W. Roy Carrick, George S. z, *Edwin B. Coghlin, Lincoln A. Cundall, Andrew Fiore, on M. Goodnow, Aldo P. Greco, Kenneth E. Hoppgood, iam J. Harrington, *C. Freeman Hawley, Carl M. Holden, Hurowitz, Edward B. Johnson, Harold C. Johnston, Harold ulson, Lewis J. Lenny, Philip W. Lundgren, Joseph P. Mason, in H. Mattson, Donald McAllister, Ralph R. Meigs, Percival eyer, Weston Morrill, *Dr. Howard S. Nutting, Ralph C. ce, Cortice N. Rice, Jr., Kenneth C. Roberts, Philip J. nson, Frederick H. Scheer, Richard H. V. Shaw, George B. v, Dr. Carleton S. Sprague, Dr. Paul R. Swan, John H. Tsui, r T. Waite, Richard Walberg, Ralph W. White

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orman Alberti, Clarence E. Anderson, Solon C. Bartlett, ard G. Beardsley, Milton A. Bemis, Prof. Francis C. Bragg, ard J. Burke, Edward L. Carrington, Godfrey J. Danielson, ge D. Estes, *Warren B. Fish, Roger A. Fuller, Preston W. r, E. Herbert Higgins, Leslie J. Hooper, Harry L. Hurd, ge S. Johnson, Edward F. Kennedy, Simeon C. Leyland, k H. Linsley, Lionel O. Lundgren, Walter T. MacAdam, las B. Martin, Clarence W. McElroy, Arthur P. Miller, F. Ronca, Alfred P. Storms, Stephen J. Vouch, Raymond G. ox, *Gordon C. Willard, *Donald B. Wilson

CLASS OF 1925

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GIVING BY DEGREE DEPARTMENT

Degree	# Alumni	# Cont.	% Giving	Total Giving	Avg. Gift
Mechanical	3045	1247	41.0	\$ 71,839.41	\$ 57.61
Civil	1491	560	37.6	37,876.14	67.64
Electrical	2683	1104	41.2	56,949.29	51.58
Chemical	1117	416	37.2	15,444.74	37.13
Chemistry	560	242	43.2	18,626.00	76.97
Physics	385	99	25.7	2,767.00	27.95
Math	280	67	23.9	1,175.96	17.55
Management	198	55	27.7	1,097.00	19.94
General Science	18	7	38.8	15.00	2.14
Computer Science	98	12	12.2	190.00	15.83
Life Science	18		0.0	0.00	0.00
Humanities & Technology	22	4	18.2	30.00	7.50
Business	25	1	4.0	10.00	10.00
Other	136	7	5.2	85.00	12.14
Sub-Total, Degrees	<u>10,076</u>	<u>3821</u>	<u>37.92</u>	<u>206,105.54</u>	<u>53.94</u>
Non-Degree	<u>1,505</u>	<u>284</u>	<u>18.87</u>	<u>9,464.33</u>	<u>33.33</u>
Grand Total	11,581	4105	35.45	\$ 215,569.87	\$ 52.51

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Phi Kappa Theta	755	308	40.8	\$ 20,012.54	\$ 64.98
Phi Sigma Kappa	713	297	41.6	19,287.83	64.94
Theta Chi	744	324	43.6	19,009.55	58.67
Lambda Chi Alpha	685	303	44.23	18,066.15	59.62
Alpha Tau Omega	710	302	42.5	17,163.57	56.83
Phi Gamma Delta	640	255	39.8	15,637.00	61.32
Sigma Phi Epsilon	763	350	45.9	15,388.34	43.97
Sigma Alpha Epsilon	672	292	43.4	11,984.67	41.04
Alpha Epsilon Pi	431	177	41.1	7,885.68	44.55
Tau Kappa Epsilon	235	74	31.4	2,266.96	30.63
Sigma Pi	125	30	24.0	720.00	24.00
Delta Sigma Tau	65	17	26.1	477.00	28.05
Sub Total Fraternities	6538	2729	41.7	147,899.29	54.20
Non-Fraternity	5043	1376	27.3	67,670.58	49.18
Grand Total	11581	4105	35.45	\$ 215,569.87	\$ 52.51

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OTHER CONTRIBUTORS

Mrs. Robert H. Goddard, Mrs. Sylvia H. Greene, Mrs. Archibald B. Hossack. Class of 1975



on which these class notes are based
received by the Alumni Association
November 15, when it was compiled for
on. Information received after that date
sed in succeeding issues of the WPI

8
D. Simonds is now residing on
Shore Rd. in South Hero, Vermont.

0
ss meeting held at WPI before the
luncheon on June 7, Edward A.
was elected president. Those present
ng were, Millard Clement, Alvan
Leonard Howell, Oliver Jacobs,
Martin, and Edward Hanff.

her official business being presented,
ment was taken to the 1910 dial in the
front of Boynton Hall where the class
nion picture was taken. After the
a few observations were recalled for
l, small voice" of the dial to be
ed for publication later.
members unable to attend the
were Carlisle Atherton, Charles
Ralph Gold, Irving Peters, and
viss.

Submitted by Millard Clement

4
S. Crandon serves as consultant to
ident at ASG Industries, Inc., Little
n, R.I.

5
ott's health is improving and he is
e to play golf again as well as get up
high country.

8
C. Adams, an active member of the
tiquet Trout Club in Weston, Vt.,
a complete fly fishing outfit to a
the next camp last August, later
out that the visitor was Edwin C.
ell, '43. They report that the setting
fect for Tech storytelling.

1929

Edward E. Lane, who for many years was eastern division manager for North American Press, Milwaukee, has retired.

1931

On the retired list is Robert Bumstead, who was vice president and conservation director at MFB Mutual Insurance Co. in Providence, R.I. . . . Formerly the university engineer at the University of North Carolina, F. Dudley Chaffee is now retired. . . . William P. Dennison is also retired. He was a district project engineer for the Massachusetts Department of Public Works. . . . Henry F. Friel is product manager at Wire Conveyor Belts Inc. in Easton, Md. Previously he was a senior engineer at CF&I Steel Corp., Palmer, Mass. . . . Sumner F. Hall, president and treasurer of C.D. Hall, Inc., Webster, Mass., is a retiree. . . . Ralph Hodgkinson, who had been director of craft demonstrations at Old Sturbridge Village, retired last December. . . . After working for E.I. du Pont de Nemours Co. in Philadelphia for many years, Oscar W. Tissari has retired. . . . A. Francis Townsend has retired from his duties at Persons-Majestic Mfg. Co. in Worcester.

1932

Robert I. Belmont retired last February. He had been North East regional manager for Bay State Abrasives in Westboro, Mass.

1933

Ethan D. Bassett is with Electronic Coils, Inc., Springfield, Mass. . . . Allen L. Brownlee, general manager of the WICO Electric Co., West Springfield, Mass., has been named a director of the West Springfield Chamber of Commerce. A registered professional engineer, he holds 14 patents for inventions in this country and others in Great Britain and Canada. At the time when WICO was acquired by the Prestolite Co. (a division of Electra Corp.) in 1967, Mr. Brownlee was vice president of the company. He is a director and member of the executive committee of Junior Achievement, a Boys Club trustee, and past officer and director of the Westfield YMCA. . . . R. Norman Clark is an abrasive engineer at Waltham Grinding Wheels in Manchester, Mass.

Harry T. Jensen, vice president of engineering at the Sikorsky Aircraft division of United Technologies, Bridgeport, Conn., has been promoted to the newly-created post of vice president of technology. He will be responsible for appraising and planning the division's technical and engineering programs and their relation to Sikorsky's business goals. Since joining the company in 1941, he has served as engineering manager, chief engineer, and chief test engineer. He holds patents on aircraft design and test methods and is a fellow of the American Helicopter Society, the Royal Aeronautical Society, and an associate fellow of the American Institute of Aeronautics and Astronautics.

Wesley B. Reed combined his clever humor and fine bass voice in his musical presentation, "Music from the Attic", which was a highlight of a bicentennial program given in East Haddam, Conn. last September. He demonstrated a hammer dulcimer, a plucked dulcimer, a pseudo-English cittern, and several homemade psaltries. Recently retired as a senior physicist from American Optical Corp., he plans to open his 30-year collection of over 250 musical items to the public as a museum.

1934

Harold B. Bell, former purchasing agent for Hobbs Mfg., Worcester, is now retired. . . . Merritt E. Cutting has retired as a chemist at Barre Wool Combing Co., South Barre, Mass., where he was employed for many years. . . . Albert T. Phelps, who served as assistant chief engineer at the Savage Arms Division of Emhart Corp., Westfield, Mass., has retired. . . . Dr. Gordon P. Whitcomb is a retiree. He was manager of college relations at American Cyanamid Corporation.

1935

Frank H. Madigan, who served as a district sales manager at Norton Co. for many years, has retired.

1936

Roger W. Bruce has joined Persons-Majestic Mfg. Co. in Worcester. . . . George E. Rocheford continues with the U.S. Army Corps of Engineers, Waltham, Mass. Presently he is assistant chief of the structural section. . . . C. Norman Svenson is a retiree. He was a standards engineer with GE's Aero Inst. & Prod. Support Division in Wilmington, Delaware.

1938

Formerly a staff engineer at Caterpillar Tractor Co., Donald B. Clark has been appointed as an assistant director of research in charge of engineering materials work at the Peoria (Ill.) based company. He joined Caterpillar in 1971 as a staff engineer and was promoted to administrative staff engineer two years ago. He is a member of the Society of Automotive Engineers and the American Institute of Aeronautics and Astronautics.

1939

Charles H. Amidon of Holden, Mass., is a self-employed consultant. . . . David H. Hunt has been appointed executive vice president of the Spencer Turbine Company. Located in Simsbury, Conn., he was formerly chief engineer, then vice president of engineering prior to his promotion. He joined the company in 1954. . . . Ward D. Messimer, former vice president of Illinois Railway Equipment Co., Chicago, has retired.

The further exploits of Foxy Grandpa

Remember Foxy Grandpa? Ed Delano, '30, first made national headlines back in 1970 when he bicycled from California to Massachusetts to attend his 40th class reunion at WPI.

This year he turned 70 and decided to celebrate in typical Foxy Grandpa fashion. Not only did he bike from his home in Vacaville, California to Quebec City, Canada (3260 miles!), he also journeyed to the Veterans' World Championships in Austria where he picked up an armload of trophies.

"However, now I'm known as 'the Yankee Kangaroo' in international racing circles," he chuckles. "That's because, even though I represented America, I trained with the Australian team at the invitation of Cecil Cripps, secretary-treasurer of the Veteran Cyclists' Association of Australia."

Delano, the only veteran American cyclist registered for the race, joined the Aussies in Paris in August to train for the World Cup series slated to be held in St. Johann, in the Tirol. While in Europe he trained, toured, or raced in France, West Germany, Austria, Italy, Holland, and Denmark.

"We traveled from place to place in a bus with a van following us carrying

our bicycles," he recalls.

After ten days of training in St. Johann, Foxy Grandpa placed in more than half of the events, even though some races were not run by age class. In the championship race he placed 15th out of 40 starters from eight countries. The 40 starters represented the top veterans in the world with 35 racers in the 60-year bracket and five in the 70-year bracket. "The oldest was 76," Delano reports.

The big race, held on August 22nd on a well-maintained road in the rugged foothills of the Austrian mountains, was participated in by veteran cyclists, with a 75-year-old German placing eighth!

"The Australian team copped the cup in the 35 to 40 year class," says Foxy Grandpa. "Cecil Cripps himself won third in the 50 to 55 class."

Delano feels that currently the average Australian veteran is equal in ability to an American 10 years younger, with the latter growing by leaps and bounds each year. In the U.S. a veteran is anyone 40 or over.

The day after the championship race, Foxy Grandpa carried the U.S. banner during the cyclists' torchlight parade which wound through the streets of St.

Johann. The procession ended with awards ceremony.

"I was happy to receive my award," Delano comments. "But I wish I could have understood German!"

While on this, his first trip abroad, Foxy Grandpa participated in a number of other races, including one held at Mantes, France, near the Seine River northwest of Paris. He was the oldest of 60 riders by 10 years, but he made better time than five of them.

"The course ran through several small towns," Delano says. "And the police were out in force. If a motorist tried to interfere with a racer at an intersection, the gendarmes would whack him off the road into the weeds."

Foxy Grandpa nearly panicked on one occasion—during an event in northern Italy south of the Brenner Pass. The course was extremely hilly and laced with U-turns and turn-arounds. "Everyone ran out of sight and I was completely alone," he recalls. "I was afraid that I missed a turn-around. I had no passport with me, no Italian currency, and no glasses. Worst of all, I didn't remember the names of any towns, and I couldn't understand Italian!"

Finally he glimpsed a rider ahead of him and a landmark tunnel located near the end of the course. "That really got the adrenalin going," he says. "I knew then that I had only a mile to go."

Foxy Grandpa made a firm friend during the race, however. "He was a heavy-set Italian, who was a bit slow on the hills," he reports. "He turned out to be a month older than I. During the awards ceremony they had us on stage together. They presented me with a turtleneck sweater and gave us each a bottle of wine. We cemented Italian-Australian relations on the spot. We were the oldest in the race."

In Koflach, Austria, Delano competed in a 19.5 kilometer two-man trial and placed 10th out of 20 teams. While in Koflach he placed third in the 66-and-over class, racing over steep mountain roads. "I was only 28 seconds behind Eddy Bisson, who was good enough to get his picture in the program," says Delano.

Foxy Grandpa copped another third place in the King of the Mountain (summit) competition. "I didn't have a chance to train for this particular race," he reveals. "If I had, I could have done better."

In Amsterdam he finished the 50-kilometer, 20-lap course at the Wieland circuit in one hour and 10 minutes. During a bicycle tour in Denmark he recalls, "A giant blond Dane gave me a massive push up a hill so I could catch up with the pack."

"The Danes and the Austrians couldn't do enough for us to make our



...ians paid him the singular honor
king him an honorary member of
eam.

d what of Foxy Grandma, back
in Vacaville while her Yankee
broo was off in Europe living his
enging and unforgettable
ence?" One has to believe that
used to such goings-on. It took
6 days to bike to his 40th WPI
on five years ago. It took him
35 days to pedal his Cinelli to
ec City early last summer. ("The
ians gave me a rousing welcome,
ete with police escort. They
d me like a celebrity and invited
the guest of honor to a dinner
Canadian dignitaries—they even
ed me into the bridal suite at the
ay Inn, dirty bicycle and all," he
nbers fondly.)

y Grandpa (so-named by his
hildren) does not forget Foxy
ma on his cross-country jaunts.
ones her every evening from his
to let her know how things are
She also makes his advance
ations when necessary.

prefers touring alone, however.
young men ride too fast and the
en too slow," he says. "Besides,
ing to the old adage, 'he who
alone travels best.' "

ano, a retired superintendent of
alifornia State Division of
ay Maintenance, knows his
y" well. Since taking up cycling
nest 12 years ago "to relax", he
alked up 40,000 miles in races
urs. He has maintained champion
for four years at the Senior Sports
ational, and his exploits have
sports news in the *San Francisco
er*, *Los Angeles Times*, *Sports
ted*, and *Bicycling*. His armload of
es from the World Cup races held
tria last summer, turned out to be
osting on the cake.

ust goes to show what a "Foxy
broo" can do!

ript

we went to press, it was learned
oxy Grandpa was being "studied"
. Irvin Faria, director of the
n Performance Laboratory and
ian of the men's physical education
ment at the University of Califor-
Sacramento. After a series of
us tests it was discovered that
o had apparently reversed the
process through continued exercise.
r as a college athlete, he performs
e is 40, and at 70, his racing
just keep getting better.
no," concludes Dr. Faria, "is a
musual physiological specimen.
g him has proved that the aging
s can be reversed and that is quite
nomenon."

WPI



Ted Lewis's annual dream

Twenty-two years ago Leonard "Ted" Lewis, '27, a Shriner and former WPI gridster, dreamed of seeing his Shrine and football interests combined to help raise money for crippled and burned children confined in Shrine hospitals throughout the U.S. and Canada.

"Why don't we sponsor a schoolboy football classic with the proceeds going to help such children," he asked a fellow Shriner.

The reply was, "Ted, you've got more damned courage than brains. It will never work."

Ted Lewis, a Claremont, N.H. oil executive, has reason to smile over that remark. In two decades the plan that would "never work" has earned over \$500,000 for crippled children and brought summer football to New England.

"I can't take complete credit for the idea behind the Vermont-New Hampshire Shrine Football Classic" he confides. "As New Hampshire Potentate I attended a convention in Charlotte, N.C. and was taken to a Shrine benefit football game where a lot of money was raised. I felt we could do something similar in New Hampshire and Vermont."

In the beginning a postseason football game was planned. The New Hampshire Interscholastic Athletic Association advised that eligibility rulings

could harm the players so a summertime game was established. "The N.H.I.A.A. gave us some good ideas and helped us get the thing going," Lewis says.

Originally the early games were held in various locations including the Holman Stadium in Nashua, N.H., Cowell Stadium at the University of New Hampshire, and at Centennial Field at the University of Vermont.

"Now the Classic is held annually at Dartmouth's Memorial Stadium in Hanover," Lewis reports. "We expect to keep it there for as long as the game is played."

Memorial Stadium seats about 20,000 and recently the game has drawn only about 15,000 people. Lewis worries about the attendance level.

"The response from most Shriners, as far as participation goes, has been great," he says. "But there have been weak spots which should be strengthened. Also, we have to draw more people from the heavily-populated areas like Manchester and Concord."

Still, Lewis, who remains an active member of the Shrine Board of Governors, has reason to be satisfied with his 'brain-child'. The average cost per patient in a Shrine burns hospital is \$13,000 and the cost to qualified parents is absolutely nothing, thanks to such Shrine efforts as the football classic. Participating Shriners work tirelessly and entirely without pay for the cause. "We're proud to say no one takes a dime," says Lewis. "Our greatest satisfaction is restoring life and limb to a burned or crippled child."

1944

Raymond E. Herzog currently is located Los Angeles, Calif., with Atlantic Richfield Co. . . . **Leonard Israel**, a home builder in Worcester, was recently given the Silver Beaver Award by the Mohegan Council, B Scouts of America. He is a member of the council's executive board, the Jewish Committee on Scouting, and B'nai B'rith Lodge of Temple Emanuel and its Brotherhood. Formerly he was scoutmaster of Troop 36 at the temple. He is past president of the West Boylston Rotary, a member of the Worcester Area Chamber of Commerce, and past president of the Massachusetts Home Builders Association.

1945

Currently **Philip V. Tarr, Jr.** holds the position of executive vice president of Midwest Sintered Products Corp. in Riverdale, Ill. . . . The Rev. **Edward I. Swanson** has been named executive secretary of the General Commission on Chaplains and Armed Forces Personnel. He has been serving on the Commission staff assistant executive secretary and director of publications since July of 1971. The General Commission has functioned since 1917 as the nation's principal agency in support of military-related ministries. The Washington-based agency publishes *The Chaplain*, a professional journal for military and Veterans Administration chaplains. Rev. Swanson has served as its editor for the past four years. He wrote *Ministry to the Armed Forces and Serviceman's Prayer Book*.

1946

Robert H. Farwell has been elected a vice president of GTE International, Inc. He is director of the company's Factory Projects Organization which has its headquarters in Burlington, Mass. Currently the organization is developing a \$233 million project for the Algerian government. Farwell joined GTE in 1965. In 1969 he was appointed vice president of operations of GTE International Systems Corp., a GTE International subsidiary. In 1971, during a leave of absence, he served as deputy general manager of the INTS Consortium which is constructing a communications system in Iran. . . . **Paul F. Gorman** has been named vice president of Chas. T. Main, Inc., Boston. His main responsibility is for the firm's services in conjunction with nuclear facilities. Prior to joining Main, he was vice president of the Boston Power Department of United Engineers & Constructors and a director of Jackson & Moreland International. Formerly he was vice president and manager of the power department for the Jackson & Moreland division. He is a professional engineer and has a certificate of qualification from the National Council of Engineering Examiners.

August C. Kellermann serves as international manager at Conoco Chemicals in Houston, Texas. . . . Previously with Bechtel Inc., **Frank L. Mazzone** is now marketing manager for the Linde division at Union Carbide Corp. in Tonawanda, N.Y. . .

1940

Richard T. Messinger, a resident of Norwell, Mass., is a self-employed insurance broker.

1941

After spending 22 years as a missionary in India, the Rev. **Edward G. Jacober** will now do missionary work in Israel with the Arabs in Jerusalem and the West Jordan area.

. . . **Victor A. Kolesh** works for Riley Stoker in Worcester. . . . The **Norman Morrisons** visited the **Harold E. Robertons** last summer on their way from Glacier National Park, Montana to Seattle, Washington, and Vancouver, British Columbia.

1942

Presently **John M. Bartlett, Jr.** holds the post of manager of manufacturing in the cable controls division at American Chain & Cable Co., Inc., Adrian, Michigan.

. . . **Norman C. Bergstrom** serves as a supervisor at U.S. Steel Corp. in Gary, Indiana. . . . **Philip L. Camp** is currently with the Electric Boat division of General Dynamics in Groton, Conn. . . . Previously with Hercoform Marketing, Inc., a Hercules subsidiary, **Robert S. Fleming** now serves as a project engineer in the engineering department at Hercules Incorporated, Wilmington, Delaware.

1943

Last summer **Edwin C. Campbell** visited the Wantastiquet Trout Club in Weston, Vt. where he borrowed a fly fishing outfit from a member who turned out to be **Lyman Adams**, '28. Ed writes that there was lots of talk about the "ones that got away." . . . **Alex Petrides** works for the firearms division of Colt Industries in Hartford, Conn.

H. Merritt, a senior product manager and manager of abrasive machining at State Abrasives, Westboro, Mass., on the development of abrasive grinding as a metal removal process at a conference sponsored by the Society of Manufacturing Engineers held in Hartford, Conn., in September. . . . **Walter O. Muller**, plant manager at Chevrolet-Detroit Axle, is currently program manager of Chevrolet's manufacturing staff. . . . **Capt. Edward L. Rodier**, USN, has retired. He is inspector general at the Naval Communications Center in Washington, D.C. **Edward G. Tamulevich** is employed by a Co., Worcester.

17

E. Kimball is with Kaiser Aluminum Chemical Corp., Portsmouth, R.I.

18

Erick C. Gilbert works for the Department of Agriculture in Beltsville, Md. **William E. Meadowcroft** serves as vice president at Boam Company in Livonia, Mich. **Benjamin D. Richter, Jr.**, vice president of Warren Brothers Co., a division of Shell Oil, Inc., was transferred from Louisville, Ky., to Cambridge, Mass. in August. He was formerly with Allis-Chalmers Mfg. Co., and **Edward A. Seagrave** is now general manager of operations at J.I. Case Co., Kenosha, Wis. He writes that he is enjoying the challenges in the construction equipment industry. His son is in medical school at the University of Texas; a son and daughter are at the University of Illinois; one daughter is married and two are at home. . . . **Edward A. Shafer, Jr.** works for the Bostitch Division of Textron, Inc. in East Greenwich,

19

James J. Bigda is a building projects manager at Codata Corp. in Larchmont, N.Y. **Loren B. Borst** is with Aramco Chemical Co. in Houston, Texas. . . . **Hans E. Blum** teaches industrial arts at New Bedford (Mass.) High School. . . . **Robert A. Blum** has been appointed divisional vice president of operations and research for the Inorganic Materials Division of Norton Co., Worcester. Since joining the firm in 1949 he has been a senior research engineer in the Inorganic division; chief of the department's sintering unit; assistant director of research and development for the abrasives division and director of research and furnace design. An inventor named in five Norton patents, his efforts led to key innovations in abrasive materials including Norton's proprietary zirconia abrasive grain used in the company's line of NorZon bonded and coated abrasives. . . . **Bernard C. Walsh** serves as a research engineer with Acme Cotton Products Co., East Killingly, Conn.

1950

Helge V. Nordstrom works as a manufacturers' representative for Charles Drayton Co., Southboro, Mass. . . . **A. Kenneth Stewart** is president of Teledyne Pines in Aurora, Illinois.

John W. Peirce, manager of price policy and marketing information at Foxboro Co., has served the town of Sherborn, Mass., as a member of the advisory committee and as a selectman. . . . Genoa, the oldest town in Nevada (population 135) is the home of **Richard C. Pieper**, senior vice president and general manager of Bently Nevada Corporation, worldwide suppliers of machinery protection instruments. The town sits at the foot of the Sierra Nevada mountains and offers unlimited recreational opportunities. The Piepers are planning to build a new home there. . . . **Dr. Hugo S. Radt** serves part time as an adjunct associate professor in the department of engineering science at the State University of New York at Buffalo. He is a principal engineer at the Calspan Corp. . . . **Les Reynolds**, product manager for the textile chemicals section at American Cyanamid, has served as a founder and first president of the nation's leading corporate planning group, the North American Society for Corporate Planning. "With 1400 members, it's going strong," he says. He and his family are active in church and community work in Basking Ridge, N.J.

This fall **Edward P. Saling, Jr.**, heads for Montreal along with other members of the Manchester (Conn.) Barbershop Chorus to compete in the district competition. When not enjoying barbershop singing, he works as an assistant project engineer in the engineering department at Pratt & Whitney Aircraft in East Hartford, Conn. . . . **Elaine**, the daughter of **Eli S. Sanderson**, graduated with a BSCE from WPI this year. Another daughter, **Marilyn**, is also a WPI student. Sanderson continues his 25-year association with Norton Co. where he was recently advanced to manager of planning and control for engineering and construction services. . . . Summer found **Robert F. Shannon** cruising aboard his 34-foot Tartan sloop in Nantucket waters. In the winter months he has been involved with the Eastern Connecticut Symphony Orchestra, which he served as president from 1963 to 1970. Professionally, he is senior research engineer for Pfizer Central Research. His principal patent covers the crystalline sorbitol process which is now being used by Pfizer on a commercial scale. . . . Horology is the hobby of **Robert E. Smith** who is a charter member of the American Watchmakers Institute. A senior project engineer with the Cambridge (Mass.) Thermionic Corp., he is also a member of ASME; ASM; the Numerical Society of Professional Engineers; Numerical Control Society; and the Electronic Connector Study Group. He is a certified engineer in the field of product design and a registered professional engineer in Pennsylvania.

Robert F. Stewart, former president of Consumer Operations for Rockwell International Corporation, has been elected to the newly created post of senior vice president of strategic planning at United Technologies Corporation, East Hartford, Conn. He joined Rockwell in 1971 as president of the industrial products group and was elected a corporate vice president in 1972. In 1974 he was elected president of Consumer Operations (Admiral, power tool division). Previously he was a corporate vice president of Litton Industries, Inc.

. . . Currently **Henry Styskal, Jr.**, is president of Teledyne TAC, a company engaged in the manufacture and sale, worldwide, of high speed production equipment for the electronics and semiconductor industries. He serves as a senior member of the board of directors of the Additive Technology Corp. . . . **Edward J. Sydor**, general manager of National Friction Prod. Corp., Logansport, Indiana, belongs to several technical, professional and civic groups, with most of his leisure time hobbies being centered in the home. Son Doug graduated from Michigan Technological University and Neil from Purdue. . . . Besides being involved in the design and development of many Univac (Sperry Rand Corp.) systems, **John R. Taylor** has found time to pursue his hobbies. He enjoys amateur radio, camping, boating, and watching sports. He is a former president of his local civic association; Boy Scout committeeman; and a member of IEEE and the Computer Group. . . . **Donald W. Thompson's** sons are all WPI students: Eric, '77; Roy, '78; and Craig, '79. He coaches the Babe Ruth team in Shrewsbury, Mass. and is building a summer camp. . . . **Joseph R. Toegemann** is still product development chemist at Uniroyal Inc., Providence, R.I. He has two sons in college and a daughter who is a high school junior. He is working for his MBA at Bryant College in Smithfield. . . . Not only is **Russell Waldo** president of Russell Waldo and Assoc., he is also a partner in Lombardi and Waldo, Architects, Engineers, and Land Planners, his professional practice covering New York and New England. He is a incorporator of the Guilford (Conn.) Savings Bank and a commercial fisherman. He has two daughters in college and a son, Jonathan, at WPI. . . . Trombone playing is still an important part of Jeremy Welts' life and he is associated with the Concord (Mass.) band and orchestra. He manages the Middlesex Brass Quintet, a group which he founded eleven years ago. He is with Big Band, Inc., Medford, and has played for over 25 musical productions in the area during the last ten years. He is also interested in color photography and did the cover for the Feb. 1974 issue of *The Instrumentalist*. He is employed by the corporate research division of Raytheon in Waltham.

1951

Robert W. Baldwin is employed as a project manager at Heat Research Corp. in New York City. . . . Previously a sales engineer at Nichols Engineering, Inc., Shelton, Conn., **William E. Mansfield** presently serves as vice president. . . . **John B. Seguin** holds the position of district sales supervisor for Norton Co. in High Point, N.C.

1952

Robert L. Cushman is manager of sales engineering at Sol-R-Tech, Inc., Hartford, Vermont. . . . **W. Dieter Hauser** holds the post of director of international technical marketing services at Airco Electronics in Bradford, Pa. . . . NALREP, the monthly report of the Fermi National Laboratory, recently featured an account of the Single Arm Spectrometer System, which was devised, in part, by Dr. **Robert E. Lanou, Jr.**, a professor at Brown University, Providence, R.I. . . . **Donald R. Quimby** continues with Union Carbide and is now with Union Carbide Philippines, Inc., Makati, Rizal, Philippines.

1953

Dr. **Willard D. Bascom** is presently head of the adhesion section in the chemistry division at Naval Research Lab in Washington, D.C. . . . **Arthur L. Danforth** works as laboratory manager at Mass. Materials Research, Inc., West Boylston, Mass. . . . Formerly with Evans Products Co., **Edward Goodhue** is now with Goodhue Warehouse in Middleboro, Mass.

1954

David A. Bisson holds the positions of vice president of sales and chairman at Trend Graphics in Mt. View, Calif. . . . **David F. Gilbert** serves as assistant works manager at DuPont in Deepwater, N.J. . . . **Roy E. Hayward, Jr.**, is a commission exhibit coordinator at Astra Pharmaceutical Products, Inc., Worcester. . . . **George Ildis** works for Inline Technology in Fall River, Mass. . . . Previously with GE in Syracuse, N.Y., **Laurence I. Sanborn** presently works in the microelectronics department at Hi-G Co., Inc., Windsor Locks, Conn.

1955

Born: to Mr. and Mrs. **Robert J. Schultz**, their fourth child, a daughter, Mary-Jo, on September 12, 1975. Prof. Schultz teaches civil engineering at Oregon State University in Corvallis.

Dean M. Carlson has been appointed vice president in charge of real estate operations for the Price Organization, Inc., of Severna Park, Md. Two years ago he retired from the U.S. Army with the rank of lieutenant colonel. He had served in the Corps of Engineers and the Military Intelligence Branch. Since his retirement he has become a realtor associate and has been active as a

salesman and instructor with one of the largest brokers in Maryland. He is past president of the Frankfurt (Germany) Chapter of the Reserve Officers Association.

J. Hamilton Givan serves as sales representative at Piper Associates, Inc., Needham, Mass. . . . **Daniel A. Grant, Jr.** is with Chas. T. Main, Inc., Boston. . . . Presently **Richard C. Lindstrom** holds the post of chief inspector at Pratt & Whitney Aircraft, Middletown, Conn. . . . **Thomas F. Mahar, Jr.** continues with IBM and is now located in Manassas, Va. . . . **Charles F. McDonough** is manager of licensing projects and international chemicals (R&D) at American Cyanamid Co., Wayne, N.J. . . . **Robert C. Stemple** has been appointed director of engineering for the Chevrolet Motor Division in Detroit. Since October of 1974 he has served as chief engineer for engines and components for Chevrolet Engineering. He joined GM's Oldsmobile Division in 1958. In 1973 he was named as a special assistant to the president of GM. A member of the Society of Automotive Engineers and American Societies of Mechanical Engineers, he also holds an MBA from Michigan State University.

1957

After 17 years with MIT's Lincoln Lab. in Lexington, Mass., **John H. Atchison, Jr.** has moved to Florida where he is senior principal engineer at Electronic Communications, Inc., in St. Petersburg. He has responsibilities in military digital communications systems design. . . . **Richard G. Bedard**, director of instructional media for the Worcester public schools, has been elected president of the Massachusetts Association for Educational Communications and Technology (MAECT). He was also selected by MAECT to serve as a delegate to the 1975 Lake Okoboji Educational Media Leadership Conference at the Iowa Lakeside University Laboratory. Currently he is enrolled in a doctoral program at the University of Connecticut. . . . **James A. Cheney** has joined the Linde division at Union Carbide Corp. in Union, N.J. . . . **Andrew S. Crawford, Jr.** now serves as process control manager at Uniroyal in Mishawaka, Indiana.

Edward M. Dennett, Jr. continues with the Oliva Division of Sangamo Electric, Atlanta, Ga., where he is presently sales and marketing manager. . . . **Charles I. Friedman** is with GTE Automatic Electric Labs in Northlake, Ill. . . . **John M. Hoban** has joined Applicon, Inc., Nanuet, N.Y. He was with Honeywell. . . . No longer with GE, **Richard J. Quinn** is currently a senior engineer for Westinghouse Electric Corp. in Pittsburgh, Pa. . . . **James F. Richards** holds the post of general manager at Wire Lab. Co. in Richfield, Ohio. . . . Dr. **William A. Saxton** is president at Datacomm User, Inc., a subsidiary of Computerworld, Inc., Newtonville, Mass. . . . Dr. **Alexander Vranos** is a consulting scientist with the United Technologies Research Center in East Hartford, Conn.

1958

Normand L. Bedard works as assistant program manager for the U.S.A.F., Elect Systems Devel., Hanscom Field, Bedford Mass. . . . Dr. **Joseph E. Boggio** has been promoted to the rank of full professor of chemistry at Fairfield (Conn.) University. 1964 he began as an instructor at Fairfield and was subsequently elevated to assistant associate professor. . . . **Bernard M. Campbell, Jr.**, serves as a project engineer at Ionics, Inc., in Watertown, Mass. . . . At the present time **Arthur J. Hesford** is a with Delta Airlines in Boston. . . . **William Wesolowski**, a development engineer for Sprague Electric Co., has been transferred from Adams, Mass. to Worcester where he will head a new department to accommodate the transfer of a product line from North Adams. He had been serving on the Adams Board of Appeals.

1959

Robert A. Bleau is with TRW in Colorado. . . . Dr. **Richard J. Bouchard** currently manages a corporate advanced development group at Sanders Associates in Nashua, New Hampshire, where he has been employed for 15 years.

Dr. **Joseph D. Bronzino** has been promoted to a full professor of engineering at Trinity College in Hartford, Conn. Prior to joining the faculty in 1968, he had been assistant professor of electrical engineering at the University of New Hampshire. He is director of a joint biomedical engineering program between Trinity and RPI's Hartford Graduate Center. He is also a clinical associate in the department of surgery at the University of Connecticut Health Center, and a member of the cooperating staff of the Worcester Foundation for Experimental Biology in Shrewsbury, Mass. . . . **Donald Carignan** serves as president of Westfield (Mass.) Instruments Corporation. He is a registered professional engineer. . . . **Lee H. Courtemanche** is manager of market development at Sundstrand Fluid Handling Division in Denver, Colorado.

David G. Daubney works at St. Regis Paper Co. in Attleboro, Mass. . . . **Richard Dehais** has received his MSEE from the University of Vermont. . . . **Donald C. Goff** is chief engineer at Amkey, Inc., in Andover, Mass. . . . **Bob Hoag** has assumed the position of director of purchasing at the Miriam Hospital in Providence, R.I. Previously he was with Texas Instruments, Inc., in Attleboro, Mass. He and his wife, Mary, live in Attleboro with their children, Michael, 6, and Erinn, 7 months. . . . Dr. **Glen H. Smerage** was a visiting faculty participant at Oak Ridge National Lab. (Tenn.) last summer. . . . **Charles T. Smith, Jr.** is department manager of computer design for Raytheon Co. in Sudbury, Mass. . . . **John Wheeler** works at T-O Richardson Co. in Concord, Mass.

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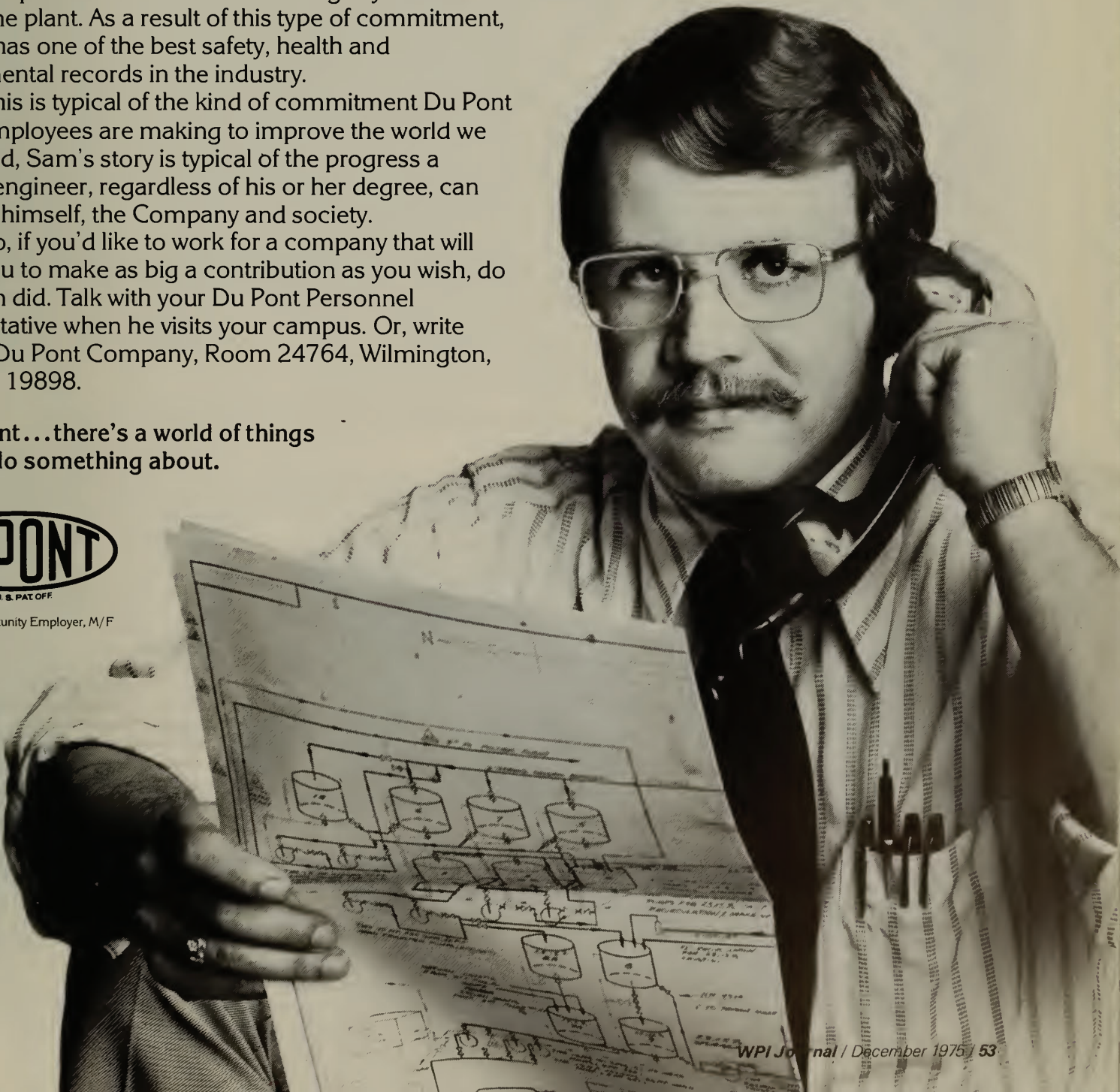
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1960

Formerly director of international staff activities for Xerox Corporation, Stamford, Conn., **Paul A. Allaire** is now chief staff officer of Rank Xerox Limited in London, England. . . . **Stephen C. Arthur** owns and operates Arthur Electric Co., Coventry, R.I. . . . **LCDR Kevin J. Burke** recently graduated from the U.S. Naval War College and is currently assigned as the executive officer of the frigate "USS Badger", with home port being Pearl Harbor. Since joining the Navy in 1962 he has spent about half of his time on sea duty with destroyers and half in graduate school, the Pentagon, and the Naval War College. . . . **Ronald A. Carlson** works at A-C Mfg. Inc., in Shrewsbury, Mass. . . . **Russell A. Fransen** is project manager at Warren & Van Praag, Inc., Decatur, Ill., where he is responsible for all street, highway, drainage, and site engineering.

Stephen J. Hewick has joined Amman & Whitney of New York City. A bridge engineer, his current address is Dacca, Bangladesh. . . . **Arthur J. Lovetere** has been appointed corporate vice president of marketing at MacDermid Incorporated in Waterbury, Conn. He will direct sales, product management, sales promotion, and advertising. With the firm since 1957, he served as technical sales representative, regional sales manager, and marketing manager. He is a trustee of the Metal Finishing Suppliers Association.

Robert J. Mercer serves as vice president of W. R. Grace Properties, Inc., Philadelphia. . . . **Richard S. Meyer** holds the post of manufacturing engineer at National Grinding Wheel in North Tonawanda, N. Y. . . . **Harry F. Ray** is regional sales manager in the rubber chemicals division of Monsanto Co., Akron, Ohio. . . . Presently **Stephen Rybczyk** serves as engineering manager at Pacific Telephone in San Jose, Calif. . . . **Bruce E. Schoppe** is the plant manager at Monsanto's Santa Clara (Calif.) plant. . . . **Walter B. Suski, Jr.** now works as government communications supervisor for AT&T in New York City.

1961

Henry P. Alessio serves as principal at William E. Hill & Co., Inc., in New York City. . . . **Seth Arakelian** works at Riley Stoker Corp., Worcester. . . . Currently **George Brodeur** teaches mechanical drawing, power mechanics, and general metal shop at Hopkinton (Mass.) High School. He also serves as coordinator of the work study program and as assistant coach of the varsity football team. He is president of the Kiwanis Club, was a member of the town planning board, and president of the Hopkinton Teachers' Association. The Brodeurs, who have seven children of their own, recently took a deaf child into their home as a foster son. . . . **Nicholas A. Caputo** works for the Worcester Housing Authority. . . . **Ronald J. Dellaripa** has been employed by Bank Building Corp., Bloomfield, Conn.

Richard H. Federico is with Stone & Webster, Boston. . . . **Wayne F. Galusha** has joined Vector General, Inc., Baltimore, Md. . . . **Walter H. Johnson** is employed by the power system division of United Technologies in South Windsor, Conn. . . . **Stephen W. Klein** serves as a scientist with Science Applications, Inc., La Jolla, Calif. . . . **Peter F. Kuniholm** is now a project engineer at Malcolm Pirnie, Inc., White Plains, N.Y. . . . **Phil O'Reilly** has been living the past three years in Surrey, England on assignment with Air Products, Ltd. He serves as European corporate planning manager for the firm. He, his wife, and four children enjoy the experience of living in a foreign country and occasionally take trips to the Continent. . . . Associated for many years with Picatinny Arsenal, **Wayne L. Taylor** presently is with the munitions and general equipment section at Yuma (Ariz.) Proving Ground.

1962

Walter B. Ambler has joined Dana Industries in Attleboro, Mass. . . . **Terry Furhovden** is manager of hybrid integrated circuits at GE in Syracuse, N. Y. . . . **Wilfred G. Harvey, Jr.** holds the post of production control manager at Compographic Corp., Wilmington, Mass. . . . **George E. Loomis** works as project manager at Gilbane Building Co. in Providence, R. I. . . . The Rev. **Andrew D. Terwilleger** is an agent for Phoenix Mutual Life Insurance Co., Hartford, Conn. . . . Dr. **John K. Tien**, associate professor at Columbia University's Krumb School of Mines, has been awarded the Bradley Stoughton Young Teacher Award for 1975. The award is presented to teachers in the field of metallurgy and materials sciences who have demonstrated a knowledge of both metallurgy and engineering education and a promise for outstanding future growth in both fields.

1963

Gary Adams serves as an assistant professor at Thames Valley State Technical College in Norwich, Conn. . . . **Edward H. Coughlan** is with Polaroid, R&D, in Cambridge, Mass. . . . **Edward P. Gosling III**, continues at Newport (R. I.) Electric Corp., where he is currently assistant line superintendent. . . . **Leslie J. Hart** is with GTE Laboratories, Inc., in Waltham, Mass. . . . Prof. **Joseph R. Mancuso** of WPI's management engineering department has completed requirements for his doctorate in educational administration at BU and will receive his degree at commencement in January. . . . **James A. Parker, Jr.** is manager of product development at Collier-Keyworth Co., Gardner, Mass. . . . **Joseph R. Santosuosso** works as assistant project manager at Ebasco Services, Inc., New York City. . . . **Henry P. Torcellini** is presently with Everett O. Gardner & Assoc. in Tolland, Conn.

1964

Peter Baker is with Metro Business Assn in Vienna, Va. . . . **Thaddeus Betts** serv chief sanitary engineer at Southern Vermont Engineering, Inc. in Brattleboro. . . . **Will E. Chase, Jr.**, SIM, has been appointed general manager of U. S. Steel's Electric Cable Division in Worcester. He will be responsible for coordinating production and sales of electrical cable products. After joining the company in 1935, he was advanced to assistant foreman in 1939 and was named plant manager in 1971. . . . **F. Fenner** is now industrial market manager Systems Engineering Labs in Dallas, Texas. . . . **Donald Ghiz** directs the purchasing department at Continental Oil Houston, Texas. . . . **Edward R. Menco** with Associated Testing Laboratories, Inc. Burlington, Mass.

Previously with Craftsman Products, Worcester, **Albert J. Metrick** currently serves as an electrical systems engineer at General Electric in Erie, Pa. . . . **Robert W. Palm** recently received an official commendation from the Navy for his "sustained superior performance" as an electronics engineer at the Naval Ordnance Laboratory at White Oaks, Md. A civilian employee, he has taken numerous advanced courses at MIT and Johns Hopkins Science Institute in Laurel, Md. He received his MS in electronics engineering from Michigan State. . . . **Harold E. Monde, Jr.** is engineering superintendent at Wisconsin Electric Power, Oak Creek, Wis. He and his wife, Susan, have a daughter, Kristi. . . . Dr. **Eugene E. Niemi, Jr.** has entered the Michigan State University College of Osteopathic Medicine. . . . **Michael P. Penti** serves as a project manager for NP Construction Co., Craig, Colo. . . . **Thomas W. Spargo** is with Jamesbury Corp. in Worcester.

1965

Continuing with Pratt & Whitney Aircraft, East Hartford, Conn., **Michael J. Cavanaugh** is presently serving as a product support engineer. . . . **Lee A. Chouinard** works as sales engineer at Amoco Chemicals Corp. Madison, N. J. . . . **Charles J. DeSimone, Jr.** holds the post of assistant vice president at the Society for Savings in Hartford, Conn. . . . **James F. Fee** is with Cyborg Corp. in Brighton, Mass. . . . **Leonard G. Feldman** serves as quality control manager at W. R. Grace & Co. in Cambridge, Mass. . . . Currently **Robert E. Hawes, Jr.** employed by the Gillette Company's safety razor division in Boston.

Dr. **Donald L. Kerr** is a research associate at Kodak in Rochester, N. Y. . . . **William Nickerson**, an R&D engineer at Aeronutronics-Ford, is located in Palo Alto, Calif. . . . **Edward A. Obermeyer**, who has been with Kendall Co. for many years, is now division manager of quality control for the firm in Charlotte, N. C. . . . **Stephen N. Rudnick** holds the position of research associate in the department of environmental health sciences at Harvard University. . . .

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UNDERGRADUATES

Mechanical

Frank Lawrence, Jr.

*John J. Kane

California Polytechnic State University

"Self-propelled Lifting Device Adapted to Mechanical Tree Pruning"

Structural

Irving J. Zatz

G. Robert Morris

John S. Kubata *William McGuire
Carnell University
"Final Design for A Cayuga Lake Inlet Bridge and Ithaca Bypass Highway"

GRADUATES

Structural

Christopher J. Adams

*Egor P. Papav

University of California, Berkeley

"The Shart Transverse Fatigue Properties of Structural Steel"

Mechanical

William R. Heincker

Rodney S. Eck

Srinivasa H. Raghavan

*David A. Summers *Terry F. Leharhoff
University of Missouri
"Excavation of Caal Using A High Pressure Water Jet System"

Charles R. Seaver now works as an assistant technical divisional superintendent at DuPont's Polymer Intermediates Department plant at Victoria, Texas. The Seavers have a one-year-old daughter, Melissa Ann, and a four-year-old son, Charles Allen. . . . **Ronald W. Wood** is a project engineer at Ingalls Shipbuilding Division of Litton Industries in Pascagoula, Miss.

1966

William Baker is a process engineer at Raychem Corp. in Menlo Park, Calif. . . . **Philip S. Blackman** owns and operates Blackman and Associates which deals with engineering and management, network analysis, and quality control. Located in Honolulu, Hawaii, he is also a captain and headquarters company commander in the U. S. Army Reserve. . . . **Paul M. Castle** holds the position of manager of shipping and material handling for Miller Brewing Co. in Fort Worth, Texas. . . . **Dr. Ronald D. Finn** is the technical director of radiochemistry and radiopharmacy at Mount Sinai Medical Center in Miami Beach. He is also assistant research professor of radiology at the University of Miami School of Medicine.

Lt. Charles P. Jaworski (USN), who recently received his doctor of dental surgery from Case Western Reserve, is now stationed at the Portsmouth Naval Hospital Regional Medical Center in Portsmouth, Va. . . . **David Jorczak** currently works at the James Hunter Machine Company, North Adams, Mass., where he is a project engineer dealing with textile machines for nonwoven textile products. . . . **James E. Loomis** serves as assistant superintendent at Stone & Webster, Boston. . . . **Capt. Jan W. Moren** is presently stationed at Fort Monmouth in New Jersey. . . . **Russell W. Morey** holds the position of manager of material analysis at Honeywell Information Systems' field engineering division in Needham, Mass.

Charles Pike is a river resource specialist for the California department of water resources in Sacramento. . . . **William J. Remillong** serves as chief chemist at American Cyanamid Co., Palmyra, Mo. . . . **Jay A. Segal**, who recently received his Juris Doctor from St. Johns University School of Law through evening study, joined the New York City law firm of Rosenman, Colin, Kaye, Petscheck, Freund, and Emil in September. Since graduation he has been employed at HazelTine Corporation in Greenlawn, N. Y. Jay and his wife, Norma, reside in Brooklyn. . . . **Capt. John A. Stockhaus** has been assigned to Camp Grayling in Michigan, where he holds a permanent position with the government. . . . **Gerard A. Toupin** now serves as manufacturing manager of the new Torrington Co. plant in Cairo, Ga. . . . Continuing with Allied Chemical Corp., **Robert C. Zahnke** presently holds the post of process specialist at Allied Chemical Corp. and is located in North Claymont, Delaware.

1967

Married: **Frank D. Manter** and Miss Lynda C. Prairie on July 19, 1975 in Swanton, Vermont. The bride is a graduate of Montreal General School of Nursing and is a registered nurse. The bridegroom, an electrical engineer, is studying for his master's degree.

George E. C. Batten holds the post of executive director of West Essex Nursing Service in West Caldwell, N. J. . . . **Edward J. Botwick** has opened a law office in New Haven, Conn. He received his Juris Doctor degree from the University of Connecticut School of Law. Previously he was an associate with the law firm of King, DuBeau and Ryan. . . . Last June **J. Roger Daugherty** completed his MBA requirements at UCLA. He is now starting his own management and systems consulting firm in Washington, D. C. . . . **Ronald S. Gosk** works for MFE Corp. in Salem, N. H. . . . **Allen J. Ikalainen** serves as a sanitary engineer with the EPA in Boston.

William C. Kunkler, SIM, was recently named vice president of corporate development at Wyman-Gordon Co., Worcester. Since 1958 he has served the company as a research and development planner, planning manager for the eastern division, and director of corporate planning and acquisitions. . . . **Bharat C. Mehta** was awarded his MBA at Pennsylvania State University last spring. Currently he is chief of the program planning and evaluation section of the Pennsylvania Department of Environmental Resources in Harrisburg. . . . **Kenneth H. Rex**, who was recently awarded a PhD in astronomy from RPI, is presently an instructor in the physics department at the State University of New York in Brockport. . . . **Robert Shen** is a project leader for National Cash Register in Ithaca, N. Y. . . . **Elliot F. Whipple**, who received his MBA from the University of Pennsylvania Wharton School of Finance, is a senior product specialist with Texas Instruments in Attleboro, Mass.

1968

Married: **Gregory H. Sovas** and Miss Carol Anne Furey in Haverhill, Massachusetts on July 12, 1975. The bride attended Hudson Valley Community College. Both she and her husband are employed by New York State Department of Environmental Conservation.

Joseph S. Adamik, Jr. is a product engineer in the marketing department of Infilco Degremont, Inc., Richmond, Va. . . . **Dr. Francis L. Addressio** is a member of the technical staff at Rocketdyne in Canoga Park, Calif. . . . **Robert A. Balouskus** has joined the consulting department of W. R. Grace & Co. in Columbia, Md. . . . Formerly a teacher at Thayer Academy, where he was also head coach of basketball and soccer, **Kenneth R. Blaisdell** is now a science and math teacher at the American Community School in Beirut, Lebanon. . . . **Joseph A. Borbone** is chief engineer at Boston Digital Corp. in Holliston, Mass.

Robert L. Bradley currently serves as a project engineer at O/Z Gedney in Terryville, Conn. . . . **John L. Clune** works as senior engineer at Mobil Research & Development

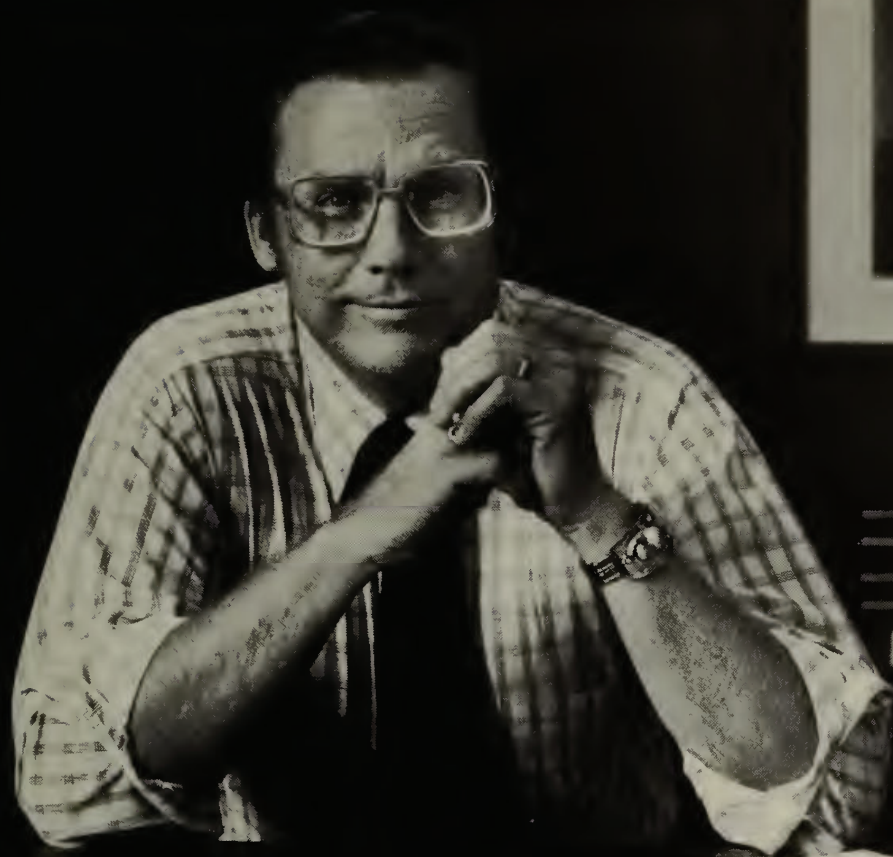
Corp. in Princeton, N. J. . . . **Ronald G. Cummings** has a law practice in Allston, Mass. . . . **Lt. Peter S. Heins** has been transferred by the Coast Guard from Miami to Elizabeth City, N. C. He is now flying the Lockheed "Hercules" HC-130 on long range search and rescue, logistics, and the International Ice Patrol. . . . **William J. Krikorian** was recently qualified as a professional engineer and civil engineer by the Massachusetts Board of Registration of Professional Engineers. He is a senior civil engineer for the state Bureau of Building Construction. . . . **Richard Kung** works for GTE Sylvania in Needham, Mass.

David F. Moore teaches at LaSalle Junior College in Auburndale, Mass. . . . **Dr. Michael Paige** has been appointed the associate director of the Software Technology Division of Science Applications Inc. in San Francisco. He has gained national recognition as a spokesman for software engineering, a new discipline which is concerned with formalizing the improving development of reliable computer software systems. . . . Currently **William D. Poulin** a senior marketing engineer at Pratt & Whitney Aircraft in West Palm Beach, Fla. . . . **Stephen M. Pytko** is a graduate student at Amos Tuck School, Dartmouth College Hanover, N. H. . . . **Kenneth W. Roberts** holds the post of systems associate at Mobil Oil Corp., New York City.

Continuing with the Environmental Protection Agency in Washington, D. C., **Jack S. Siegel** is now chief of the regional programs section for the office of enforcement. . . . **David J. Weinberg** has received his MS in biomedical engineering and is working as a biomedical engineer for the Triservice Medical Information Service at the Walter Reed Army Medical Center in Washington, D. C. He is also a biomedical engineering consultant for Medical Technology Resources, Inc., Alexandria, Va. . . . **David C. Williamson** serves as a staff engineer for the SWL Division of General Research Corporation, Herndon, Va. . . . **Robert D. Woog** continues with AT&T Long Lines and is presently a methods engineer in Somerset, N. J.

1969

Married: **Charles T. Doe** and Miss Sally J. Roberts in Worcester on July 12, 1975. Mrs. Doe attended North Adams (Mass.) State College and graduated from Worcester State. Her husband works for State Mutual Life Assurance Co. . . . **Peter T. Grosch** and Miss Helen E. Dorset on July 19, 1975 in Rome, Georgia. The bride graduated from Auburn University and is employed as an elementary school teacher. The groom is a machine products manager at Soabar Co., Philadelphia. At his graduation from Emory University in June, when he received his MBA, he was given the George Mew Management Award for his outstanding scholarship in the area of management. . . . **Robert A. Spicuzza** to Miss Diane B. Grudzien on September 20, 1975 in Prospect, Connecticut. Mrs. Spicuzza graduated from UConn and is a medical technologist at Putnam Hospital. The bridegroom is doing doctoral work in physics at the University of Connecticut.



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Born: to Mr. and Mrs. **Joseph E. Stahl** a son, **Nathan Alan**, on April 1, 1975. **Nathan** has an older brother, **Jamie**, 3½. **Joe** received his MBA in June from American International College. Recently he was promoted to engineering manager at J. P. Steaven, moulded product division, Easthampton, Mass.

George Banks has been named a mathematics teacher at Pawcatuck (R. I.) Junior High School, where he will also serve as assistant soccer coach. . . . **Anthony Bergantino, Jr.**, formerly with the U. S. Army, is presently working at Polaroid Corp. in Waltham, Mass. . . . **Anthony J. Crispino** is a staff scientist at Science Applications in Oakland, Calif. . . . **John F. Doda** works as a staff engineer at Klockner-Moeller Corp. in Natick, Mass. . . . **Donald B. Esson** has been employed by Pratt & Whitney in East Hartford, Conn. . . . Currently **Alfred G. Freeberg** is with the U. S. Air Force at Offutt AFB in Nebraska. . . . Continuing with Pratt & Whitney Aircraft, East Hartford, Conn., **Michael Gan** now serves as senior design engineer. . . . **Thomas C. Gurney** is at Gordon-Conwell Theological Seminary in South Hamilton, Mass. He and his wife, **Sherry**, reside in Beverly.

Richard H. Gurske presently holds the position of environmental engineer at VTN Colorado, Inc., in Denver. The Gurskes have two daughters, **Diana**, 4, and **Rachel**, 2. . . . Formerly a senior design engineer for National Steel Corp., **Charles D. Hardy, Jr.** now serves as a nuclear project engineer at General Dynamics in Quincy, Mass. . . . **David G. Healey** was recently promoted to assistant chief engineer at Tighe and Bond in Holyoke, Mass. He has been project engineer for the Chicopee and Holyoke Water Pollution Control Projects. He joined the firm after receiving his MS in sanitary engineering from the University of Maine in 1970. . . . Dr. **Steven A. Hunter**, a graduate teaching assistant and instructor at WPI since 1969, has been appointed as assistant professor of engineering and science. For three years he was a National Science Foundation trainee. In June he received his PhD from WPI.

Andrew J. Heman serves as a process design engineer at Union Carbide in Tarrytown, N. Y. . . . **Gregory T. Hopkins** is on the technical staff at Mitre Corporation in Bedford, Mass. He is also on the board of directors of Regent Engineering, Wilmington, Del. . . . **David H. Johnson** holds the post of network manager at New England Telephone & Telegraph Co. in Cambridge, Mass. . . . Dr. **Robert P. Kusy** is assistant professor of oral biology in the Department of Orthodontics at the University of North Carolina in Chapel Hill. He received his PhD from Drexel Institute of Technology. . . . **Gary L. Leventhal** works for the Rorer Dental Supply Division of Healthco, Inc., Boston. . . . Lt. **Ronald C. Lewis** is with the U. S. Navy in the civil engineer corps.

George T. McCandless, Jr., who recently received his MA in economics from Georgetown University, is presently pursuing his PhD at the University of Minnesota, where he also teaches principles of economics. . . . **Gregg Pollack** holds the position of vice president of Eurotec International, New York City. He is in charge of domestic and Latin American sales.

Eurotec is an import-export company that specializes in micrographic equipment. **Gregg** does extensive international traveling and is out of the country two or three weeks each month. . . . **David B. Pratt** works for Compter Design & Applications in Needham, Mass.

Gerald H. Robbins serves as an open space planner for the County of Orange, Calif. He was married in June. Last year he received a master of landscape architecture from the University of Illinois. . . . Dr. **Robert P. Rocco** is a physician in family practice in Hollister, Calif. . . . **James V. Rossi** is employed at Stone & Webster, Boston. . . . **John A. Taylor** serves as a senior development engineer at St. Regis Paper Co. in West Nyack, N. Y. . . . **David C. Thulin** is with the Town of Barnstable, Mass.

1970

Married: **Stephen P. Henrich** to Miss **Christine L. Rossetti** recently in Saugus, Massachusetts. Mrs. Henrich graduated from Merrimack College and teaches in the Saugus public schools. The groom is manager of F. W. Woolworth in Allston, Mass. . . . **William R. Naas** to Miss **Dana L. Booker** on September 21, 1975 in Linthicum, Maryland. The bride attended Anne Arundel Community College and will graduate next year. She is employed by the Department of Defense. Her husband works for Sanders Associates of Nashua, N. H. . . . **Michael P. Trotta** and Miss **Rita M. Lanigan** on June 28, 1975 in Stoughton, Massachusetts. Mrs. Trotta graduated from Framingham State College and teaches home economics at East Bridgewater (Mass.) Middle School. The bridegroom is with Fay, Spofford and Thorndike, Consulting Engineers.

Paul A. Akscyn is now an instrumentation engineer in the central engineering department of ICI United States, Inc., in Wilmington, Delaware. Formerly he was an instrumentation engineer with Crawford & Russell, Inc., Stamford, Conn. . . . **Charles J. Anderson** has been hired as the first full-time planner-engineer in Scarborough, Me. His duties will fall into three categories — code enforcement, planning-engineering, and the provision of technical aid to the supervisor of public works and public utilities coordinator. He will also provide aid to the Planning Board and be a liaison man for the permanent building committee and economic advisory committees. Previously he was a graduate teaching assistant at WPI and a planner in the Worcester city manager's office.

Philip D. Bartlett works for American Cyanamid in Renton, Washington. . . . **Peter J. Billington**, an MBA graduate student at Northeastern University, Boston, is also a graduate assistant in the dean's office in the College of Business Administration.

John T. Bok serves as a sales engineer at B. F. Perkins, a division of Roehlen Industries in Chicopee, Mass. . . . **William S. Coblenz** is a graduate student in the department of material science and engineering at MIT. . . . **Raymond Danahy** is a physics instructor at Norwich University, Northfield, Vt. . . .

Andrew M. Donaldson, who is with Burn & Roe, Inc., Oradell, N. J., currently serves group supervisor of the power conversion group for the Clinch River Breeder Reactor plant. . . . **Roger E. Etherington** works for Dow Chemical Co. in Plaquemine, La. . . . Having recently received his PhD from MIT, Dr. **James G. Hannoosh** is presently a project engineer with Foster Miller Associates, a consulting firm in Waltham, Mass. His specialty is in the mechanical behavior of materials.

Robert D. Huard is employed by the water division of the Metropolitan District Commission in Boston. . . . **John S. Keena** serves as a radwaste engineer at Northeast Nuclear Energy Co., Millstone Nuclear Power Station, Waterford, Conn. The Keenas have a two-year-old daughter, **Beth**. . . . Currently **Lothar W. Kleiner** works for the department of polymer science at the University of Massachusetts in Amherst. . . . **James A. Metzler**, formerly a computer scientist with the National Security Agency, is now an assistant professor of mathematics at Drew University. Previously a mathematician at the Woods Hole Oceanographic Institute, he holds advanced degrees from Boston University. . . . **Bradford R. Myrick** holds the post of design engineer at Ingersoll-Rand Co., Nashua, N. H. . . . **Edward M. Mason** recently received his MS degree in management science and engineering from WPI. Currently he is employed by Standard Oil of Indiana at the corporate headquarters in Chicago. . . . **Lloyd S. Palter** works as a support engineer for Stone & Webster, Boston. . . . Having earned his law degree from Suffolk University, **Richard J. Schwartz** is now an attorney at Gould Title Co. in Worcester. . . . **Richard H. Steeves** serves as superintendent of the Dewey & Almy Chemical Division at W. R. Grace in Chicago, Ill.

1971

Married: **Allen H. Downs** and Miss **Harriet Y. Russell** in Wolfeboro, New Hampshire on August 16, 1975. Mrs. Downs graduated from the Boston School of the Museum of Fine Arts, where she teaches. Her husband is with Electronic Instrument & Specialty Corp. in Stoneham, Mass. . . . **Douglas W. Kullman** to Miss **Deborah L. Ripple** on June 28, 1975 in Columbus, Ohio. Among the ushers were **Dwight S. Dickerman** and **David A. Fagundus**, '70. Mrs. Kullman attended Bliss College in Columbus. The groom is with the State of Ohio Department of Highways.

Married: **John V. Marino** to Miss **Patricia A. Trout** on August 9, 1975 in Ridley Park, Pennsylvania. The bride graduated from Delaware Community College and attended Millersville (Pa.) State College. Her husband was with Westinghouse Electric in Lester, Pa. for three years and is now doing graduate work at WPI. . . . **Robert A. Payne** and **M. Roberta E. Brandt** in Salt Lake City, Utah on September 30, 1975. Mrs. Payne is a senior at the University of Utah. The bridegroom is studying for his MBA at the same university.

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1972

Glenn E. Cabana works for Orth Tech Inc. in Salem, N. H. . . . Formerly a supervisory engineer at Saab-Scania of America, Orange, Conn., **Daniel L. David** now serves as manager of the technical services department. . . . **James N. DeVries** holds the post of chairman of the science and math department at Dayton Christian Schools, Inc., Dayton, Ohio. . . . Currently **Michael DiBenedetto** is studying for his MSEE at WPI. . . . **David T. Hayhurst** is a PhD candidate and teaching assistant at WPI. . . . **John D. Kaletski** was recently named department head of process services at Clairol, Inc. He will be responsible for all chemical inventory control, dye batching, export, powder bleach, and cosmetic compounding. Formerly he was a supervisor in the processing department. He started at Clairol in 1972 as a cosmetics and aerosols supervisor.

Steven M. Kay works for Dent-X Corp., Port Chester, N. Y. The company is a division of Phillips Medical Services and produces dental x-ray processors. . . . **Richard L. Pastore** is an environmental engineer for the U. S. Environmental Protection Agency in Boston. . . . **Suresh N. Patel** serves as a design engineer for the Lummus Co. of Canada in Ontario. He is a member of the Association of Professional Engineers of Ontario. . . . **Steven P. Rudman** is a field service engineer at Riley Stoker, Worcester. . . . **Dr. Brian J. Sivilonis** now holds the position of senior research scientist at the University of Virginia in Charlottesville. . . . **Prakash B. Virani** recently received a master of science degree from Rutgers University.

1973

Married: **David B. Hubbell** and Miss Maureen M. Curtin recently in Maryland. Mrs. Hubbell graduated from the University of Maryland and teaches junior high in Braintree, Mass. The bridegroom is in his third year at BU Medical School. . . . **Stephen E. Kaminski** and Miss Linda G. Hutchinson on July 19, 1975 in West Springfield, Massachusetts. The bride graduated from Becker Junior College. Her husband is with the Department of Agriculture in Washington, D.C. . . . **Frederick Kolack** and Miss Kathi Cobb on September 6, 1975 in Stone Ridge, New York. The couple is living in Albuquerque, N.M., where the bride is an RN with a newborn intensive care unit which serves the entire state and the groom is studying at the University of New Mexico for his master's in construction management.

Married: **Roger E. Lavallee** and Miss Cathleen M. Corcoran on August 23, 1975 in Springfield, Massachusetts. Mrs. Lavallee graduated from Cardinal Cushing College in Boston. Both she and her husband teach at Cathedral High School in Springfield. . . . **Claude L. Lemoi** and Miss Tina Zuber on July 12, 1975. The groom works for General Electric in Fitchburg, Massachusetts. . . . **Stephen S. Martin** and Miss Cheryl Sweatman last August in Fitchburg, Massachusetts. Mrs. Martin, a graduate of Fitchburg State College, teaches in New York. The groom is a student at the University of Rochester School of Medicine and Dentistry. He is taking part in a U.S. Public Health Service program designed to give students in-depth clinical and research training. Upon graduation he expects to receive both an MD and PhD.

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Married: **Peter McDermott** and Miss Karen A. Casey recently in Milford, Massachusetts. The bride, an Anna Maria graduate, is a teacher. Her husband is a chemical engineer in Canton, Mass. . . . **Aram Nahabedian, Jr.** and Miss Christine N. Piquette on September 13, 1975 in Springfield, Massachusetts. The bride attended Holyoke Community College. The bridegroom is a field service engineer with Westinghouse Electric Corp. in Hartford, Conn. . . . **Edmund C. Pastore** to Miss Susan M. Durand on September 7, 1975 in Providence, Rhode Island. Mrs. Pastore attends Rhode Island College. Her husband is studying at the University of Rhode Island. . . . **Anthony M. Scandura, Jr.** and Miss Leahbeth Mirsky on August 17, 1975 in Wesleyan Hills, Connecticut. The bride, a graduate of UConn, teaches at Mansfield Training School. The groom is an electronic technician in the physics laboratory at Yale University.

Jeffrey A. Barry is a diagnostic programmer at Digital Equipment Corp. in Marlboro, Mass. . . . **Richard B. Belmonte**, who recently received his master's degree from Texas A&M, is a chemical engineer with the U.S. Army Materiel Command at Aberdeen Proving Ground in Maryland. . . . **William A. Birkemeier**, who received his MCE from the University of Delaware, is currently a hydraulic engineer at the Coastal Engineering Research Center in Fort Belvoir, Va. . . . **David L. Burkey** holds the post of systems analyst at Searle Medidata, Inc., in Lexington, Mass. . . . Presently **John E. Dewar** is an assistant bridge engineer for the Federal Highway Administration in Albany, N.Y. . . . **Gene L. Franke** has received his MS in metallurgical engineering from the University of Illinois. Currently he is a materials engineer at David W. Taylor Naval Ship R&D Center, Ferrous Welding Branch, Annapolis, Md.

Timothy A. French serves as a raw materials control engineer for DuPont in Glasgow, Delaware. . . . **George P. Gosselin**, associate software specialist at Digital Equipment Corp. in Maynard, Mass., is presently working on account for the University of New Hampshire. . . . **John J. Homko**, who has been with Data General for two years, is now working for his PhD in electrical engineering and bioengineering at Carnegie-Mellon University in Pittsburgh. The augmented degree will satisfy requirements of both programs. His research will apply specifically to bioengineering. . . . **Charles W. Kavanagh** holds the post of assistant superintendent of Turner Construction Co. in New York City. His wife, Joann, is a teacher. . . . **John H. Lecko** is with the petroleum products division at Veeder-Root Co. in Hartford, Conn. . . . Presently **Joel S. Loitherstein** is a sanitary engineer at Hoyle, Tanner & Assoc., Manchester, N.H. . . . **Kenneth M. Makowski** serves as a project control engineer at Combustion Engineering, Inc., Windsor, Conn.

Marc A. Mandro has received his MS degree from Rutgers. . . . **Michael R. Kenney** received his MS degree from Rutgers in June. . . . **Wallace A. McKenzie, Jr.** serves as operations research analyst at Converse Rubber Co. in Wilmington, Mass. He has also worked for the New York state legislature and as a public opinion analyst for a congressional candidate. Recently he received his MBA from RPI. . . . Having been awarded his MS in urban and environmental studies from RPI, **Wayne H. Pitts** is presently a transportation planner and engineer at Vollmer Associates in Louisville, Ky. . . . Formerly a chemistry teacher at Immaculate High School, Danbury, Conn., **Kenneth C. Pulls** is now a chemist at Heatbath Corp. in Springfield, Mass.

Stephen J. Saucier serves as management systems engineer at Haricom Inc., Providence, R.I. . . . **Edward J. Swie**, who has earned his master's degree in civil engineering from the University of Illinois, is currently working for the Economic Development Administration (U.S. Dept of Commerce) in Chicago. . . . Previously with Mobil Research and Development Corporation's laboratory in Paulsboro, N.J., **Thomas S. Szatkowski** recently joined the firm's office of patent counsel in New York City. . . . **Richard H. Turner** works for Prudential Lines Inc., New York City, where he is involved with equipment control. . . . **James A. Viveiros** works as a graduate research assistant at WPI's Alden Labs. He is on leave of absence from the Harris Corporation, Printing Press Division of Westerly, R.I., while studying for his MSEE. . . . **Richard C. Whipple** has been awarded his MS from Purdue University and is currently a nuclear engineer at Combustion Engineering, Inc., Windsor, Conn. . . . **Nancy E. Wood**, who is employed by Westinghouse Hanford Co., Richland, Washington, was chosen as the Westinghouse "Desert Flower" for 1975.

1974

Married: **Charles W. Dodd** and Miss **Anne M. McPartland**, '75, of Houlton, Maine on July 19, 1975. Mrs. Dodd is with Pfizer Chemical, Groton, Conn. Her husband works for King-Seeley Thermos in Norwich. . . . **Roland A. Lariviere** to Miss Pauline A. Lillie on September 6, 1975 in Worcester. The bride attended Worcester State College, graduated from the former Norwalk (Conn.) Hospital School of Nursing, and is a registered nurse at Backus Hospital in Norwich, Conn. The bridegroom is a nuclear construction engineer at Electric Boat in Groton. . . . **James J. Litwinowich** and Miss Ann M. Murphy on August 16, 1975 in Worcester. Mrs. Litwinowich graduated from Quinsigamond Community College and Framingham State College. She taught in Worcester. Her husband works in the Highway Design Division of the State Department of Public Works and Highways Concord, N.H.

Married: **Robert F. Praino, Jr.** to Miss Anne M. Misiuk in Auburn, Massachusetts on August 10, 1975. The bride is a graduate of the Memorial Hospital School of Nursing, Worcester. She is a registered nurse on the Memorial staff. The bridegroom is a graduate student at WPI. . . . **Lawrence W. Saint, Jr.** to Miss Nancy Ann Pohner on October 4, 1975 in Springfield, Massachusetts. Mrs. Saint graduated from Springfield Technical Community College and is a physical therapist assistant at Hampshire County Hospital. Her husband is assistant plant manager of Guilford Gravure, Inc. . . . **Sheldon I. Stricker** to Miss Amy B. Wessel in Windsor, Connecticut on September 27, 1975. Mrs. Stricker graduated from Southern Connecticut State College. The bridegroom employed by Stone & Webster, Boston.

Wed: **Peter W. Tunnickliffe** and Miss **A. R. Jameson** on August 9, 1975 in Northboro, Massachusetts. Mrs. Tunnickliffe graduated from Bay Path Junior College and attended Springfield College. She teaches in Watertown. Her husband works for Camp Dresser & McKee. . . . **Bruce T. Work** to Miss **Anna L. Gelli** on August 16, 1975 in Simsbury, Connecticut. The bride attended Boston Conservatory of Music and is a realtor associated with J.E. Holmgren Associates. Her bridegroom is vice president of engineering and sales at Work Electrical Co. of Springfield. . . . **John W. Young** and Miss **A. Hapanski** on July 5, 1975 in New York. Mrs. Young, a graduate of the University of the Sacred Heart, teaches physical education. Her husband is a team manager at Charmin Paper Products Co. in Mehoopany, Pa. **Bert J. Cimikowski** serves as an instructor in the systems and information management department at Vanderbilt University in Nashville, where he is studying for his doctorate in computer science. . . . Since completing his MSCE from Northeastern University, **Edward S. Dlugosz** has been an assistant engineering specialist for the Pennsylvania Water Resources Control Board in Harrisburg. . . . **David S. Korzec** is now with the power generation service division at Westinghouse Electric Corp. in Boston. . . . **K. Lackey** holds the post of regional manager for GCA/McPherson Instrument Corp. in Atlanta, Ga. . . . **Alle Riel Lord** teaches hospitalized and outpatients in Kinston, N.C. **Steven L. McGrath** is an MBA student at the Wharton School of Finance & Commerce, University of Pennsylvania. . . . **Mark Bergren** currently works for the service department at Babcock & Wilcox Co., Springfield, Mo. . . . **James Rubino** continues with the firm of Harrington Co. and is now a sales engineer in South Bend, Ind. . . . **William G. Hill** holds the post of production supervisor at ACIGRAF International Corp. in Westford, Conn. . . . **Robert W. Ryder** is a software applications programmer at Codon Systems, Bedford, Mass. . . . **Joseph R. Speck** works as a service engineer for Babcock & Wilcox Co., Dallas, Texas. . . . **David M. Takanen**, process control engineer for the Hotpoint division of GE, is responsible for the outgoing product index for Hotpoint ranges. . . . **David D. Ventre** has accepted a position in engineering with the plastics division of Pont Chemicals at their Sabine River plant in Orange, Texas.

75

Wed: **Raymond G. Acciardi** and Miss **Patricia M. Monast** on October 5, 1975 in Northboro. The bride is a North High School graduate. Her husband is a naval architect for the U.S. government in Bath, Me. He is a member of the American Concrete Institute, Phi Kappa Phi, and Chi Epsilon honor fraternity. . . . **John J. Baker** to Miss **Bertha M. Conway** in Norwich, Connecticut on September 13, 1975. Mrs. Baker graduated from Norwich Free Academy and is an administrative secretary. Her husband is manager of software productions at Data General

Corp., Southboro, Mass. . . . **Martin J. Burgwinkle, Jr.** to Miss **Janice M. Gradone** in Northboro, Massachusetts on June 21, 1975. The bride graduated from UMass. The groom works for Walsh Construction Co. in Yarmouth, Me.

Married: **Mark J. Drown** and Miss **Gail E. Dudley** in Wayland, Massachusetts on September 6, 1975. Mrs. Drown graduated from Springfield College. . . . **Lt. Maurice L. Giroux** and Miss **Aline Binette** on August 30, 1975 in Plainville, Connecticut. The bride graduated from Plainville High School. Her husband is in the U.S. Air Force. . . . **George D. Hill III** to Miss **Patricia D. Henry** on August 9, 1975 in Wickford, Rhode Island. Mrs. Hill graduated from Brown University. . . . **Michael J. Irwin** and Miss **Nancy J. Morrisey** on October 4, 1975 in Weymouth, Massachusetts. The bride graduated from Sacred Heart High School, Weymouth, and was employed by New England Telephone in Boston. The groom is a chemical engineer for Procter & Gamble, Cincinnati, Ohio.

Married: **John E. Kelly** and Miss **Allison T. Hill** in Upton, Massachusetts on July 18, 1975. Mrs. Kelly has studied at Bradford College and Worcester Art Museum School. Her husband is doing graduate work in agricultural engineering at Cornell University. He is working on an assistantship financed by the federal government to develop safety testing specifications for roll bars on farm tractors. . . . **A. Laurence Jones** and Miss **Angela A. Capiello** on July 26, 1975. Mrs. Jones, a graduate nurse, graduated from the University of Bridgeport. The groom is an associate programmer analyst at American Can Company in Greenwich, Conn. . . . **William F. Oehler** and Miss **Wendy Konopacki** on May 24, 1975 in Holyoke, Massachusetts. Mrs. Oehler graduated from Holyoke Community College. Her husband is a graduate student at WPI.

Married: **Frank E. Vanzler** to Miss **Ellen I. Tucker** on August 24, 1975 in Newton, Massachusetts. The bride graduated from UMass, Boston, and is a credit assistant for the UNA Corporation. The groom is with the Boston Metropolitan Area Planning Council. He is also working for his master's in urban affairs at Boston University. . . . **Mark P. Youngstrom** and Miss **Connie J. Crooker** in Holden, Massachusetts on August 9th. Mrs. Youngstrom attended Worcester State College. The bridegroom is a sanitary engineer for Pickard & Anderson, consulting engineers, in Auburn, N.Y.

James D. Aceto, Jr., Robert J. Ankstius, Peter J. Arcoma, Scott R. Blackney, '73, Steven H. Coes, Robert J. Donle, Karl E. Hansen, Michael S. Schultz, James C. Sweeney and Alexander V. Vogt are all working as soils engineers for Alaskan Resource Science Corp. in Fairbanks. . . . **Said-Kazem Sohraby Anaraky** is a graduate student at the Polytechnic Institute of New York. . . . **Richard G. Aseltine, Jr.**, a teaching assistant in the ME department at WPI, is pursuing his MS degree in biomedical engineering. . . . **Claudia Berger** is a laboratory supervisor at the University of Massachusetts Medical School in Worcester.

. . . **Garrett T. Cavannaugh** has received a \$250 prize from the James F. Lincoln Arc Welding Foundation of Cleveland, Ohio, for a project he completed as a senior and submitted to the 1975 Engineering Student Design Competition. He received fourth award for his design of a hemicalveotomy prosthesis.

Bruce T. Croft has enrolled at the Illinois College of Podiatric Medicine in Chicago. Much of his clinical training will take place in the college's own clinic, which is the largest foot clinic in the world, with over 30,000 patients being treated annually. At the end of the four-year curriculum, Croft will receive a Doctor of Podiatric Medicine. . . . **Robert W. Cummings** is with Central Vermont Public Service Corp. in Rutland. . . . **Mario P. DiGiovanni** has joined Monsanto Industrial Chemical Co. in Saugat, Ill. . . . **Robert Fair** works for Turner Construction Co. in Detroit. . . . **Denise Gorski** is currently employed as a gift recorder in the Office of University Relations at WPI. She is responsible for recording all contributions received from WPI fund-raising campaigns.

David P. Hajec works as a field engineer for Turner Construction Co. in Dayton, Ohio. . . . **Thomas J. Hutton** is an inspector at the Hartford Steam Boiler Inspection and Insurance Co. in Philadelphia. . . . **Nicholas P. Kyriakos** serves as a resident engineer with Stauffer Chemical Co., Bucks, Alabama. . . . **Kenneth W. Linder** has accepted a position as a field engineer with the Factory Insurance Association in Detroit, Mich. He is involved with fire protection engineering. . . . **David R. Lyons** has joined Data General, Southboro, Mass., as a programmer. . . . **James M. McKenzie** is a resident engineer trainee for the Veterans Administration in Washington, D.C.

Raymond W. Mott has been employed by Universal Oil Products and is located in Bolingbrook, Ill. . . . **Daniel C. Nelson** serves as a chemical process engineer at Fiber Materials, Inc. in Biddeford, Me. . . . Currently **George C. Njoku** is a medical student at UMass Medical School in Worcester. . . . **Paul D. O'Brien** is with U.S. Steel in New Haven, Conn. . . . **Michael P. Simanonok** is with Texas Instruments in Dallas, Texas. . . . **Joseph A. Soetens** serves as an instructor in computer science at WPI. . . . **Jeffrey S. Wnek** works as a paint chemist at Lilly Chemical in Templeton, Mass.

Robert C. Lerner is a grad student in astrophysics at the University of Rochester. . . . W.R. Grace and Co. of Lexington, Mass., has employed **Paul S. Loomis** as a technical services representative in the U.S. and Canada. . . . **Bruce MacWilliam** works as a manager of operations for WACCC at WPI. . . . **Richard J. Mariano** is with Estee Lauder Co. . . .

David R. McGowan, who received his master's degree from WPI, is currently employed at Youngblood Laminates in Millbury, Mass. . . . Steven F. Mealy has joined the Naval Surface Weapons Center in Silver Springs, Md. . . . David E. Medeiros is with the Gillette Company Toiletries Division in Boston. . . . Kevin G. Mischler was recently appointed to the position of planning director of the city of Millbury, Mass. . . . Robert B. Murray works for Walpole, (Mass.) Scrap Metal. . . . Peter Palmerino II has accepted a position with Monsanto as a process engineer in St. Louis, Missouri. . . . Christine E. Powers serves as a process engineer at Clairol, Inc., Stamford, Conn. The firm is a division of Bristol-Meyers Co. . . . Norman D. Rehn works for GTE Sylvania Corp.

James B. Reynolds, SIM, has been appointed assistant treasurer in addition to his regular duties of controller at Jamesbury Corp., Worcester. He joined the firm in 1965. . . . Peter Rucci is with Stauffer Chemical Co. . . . David C. Salomaki has been awarded a teaching assistantship at Stanford University in California where he is doing postgraduate work. . . . Westinghouse Corporation in Pennsylvania employs David P. Samara. . . . Siddharth C. Shah serves as a vessel engineer at Crawford & Russell, Inc., Stamford, Conn. . . . William J. Stieritz is a graduate student at UMass. . . . John M. Taylor has been employed by the Westinghouse Electric Corp. on the graduate placement and training program. His training will involve on-the-job assignments in operating divisions principally oriented toward the design and manufacture of large motors. Currently he is located in Buffalo, N.Y. . . . Steven J. Tozier works for Pratt & Whitney Aircraft. . . . David Williams has been accepted at the University of Wisconsin in Milwaukee where he will work on a master's degree in urban planning. . . . Stephen A. Zambarano recently began work at the Naval Underwater Systems Center. . . . Michael J. White has received a research assistantship at MIT.



Frank C. Harrington, '98, a former WPI trustee, and prominent for nearly fifty years in Worcester insurance, civic, and fraternal affairs, died on August 26, 1975 at his summer home in Bass River on Cape Cod. He was 99 years old.

He was born in Worcester on February 6, 1876, the son of Francis A. Harrington, who became a mayor of Worcester in the 1890s. Following his graduation from WPI as a mechanical engineer, he manufactured specially designed machinery and operated a wholesale plumbing business. In 1908 he joined the Masonic Protective Association and was elected secretary the following year. (In 1922 the Association changed its name to the Massachusetts Protective Association, Inc.) He was named treasurer of the Paul Revere Life Insurance Co. when it was founded in 1930.

Mr. Harrington had served as secretary of the Ridgely Protective Association (Odd Fellows), director of the Worcester County National Bank, and as vice president and director of the YMCA. A 33rd degree Mason, he was a Past District Deputy Grand Master of the 23rd Masonic District. He was Past Master of Althelstan Lodge, A.F. & A.M., and a member of Isaiah Thomas Lodge. He was a Royal Arch Mason and a past eminent commander of Worcester County Commandery No. 5, Knights Templar. He belonged to Sigma Alpha Epsilon fraternity.

Active in community affairs, Mr. Harrington worked for many years in the Golden Rule Campaign as a team member and sponsor. He was past president of the Worcester Country Club, a member of the Worcester Grange, trustee of the Worcester Masonic Charity and Educational Association, and past Thrice Potent Master of the Worcester Lodge of Perfection, Scottish Rite Bodies.

He served as vice president of the WPI Alumni Association in 1912-1913, as a long-time member of the college finance committee, and as trustee from 1939 to 1949. He received an honorary doctor of engineering degree from WPI in 1945. Harrington Auditorium, which was dedicated at WPI in 1968, honors him and his brother, the late Charles A. Harrington, '95.

Frederick W. Read, Sr., '05, a retired metropolitan plant superintendent for the Western Union Telegraph Co., died on July 17, 1975 in Freehold, New Jersey. He was

After graduating as an electrical engineer from WPI, he joined American Telephone & Telegraph in 1905. When the company was split following President Theodore Roosevelt's antitrust crusade, he went with the Western Union division where he worked until his retirement.

A long-time resident of Port Washington, N.Y., he was a charter member of the Port Washington Players Club, a member of the local Home Guard during World War I, and past president of the Nassau Boy Scout Council. He was chairman of the New York Safety Council from 1937 to 1940.

Mr. Read was born on June 12, 1880 in Fall River, Mass. He was active in community affairs for 26 years following his retirement at the age of 69.

Irving L. Peters, '10, died on August 4, 1975 in Worcester at the age of 88.

He was born on May 31, 1887 in Worcester and graduated from WPI in 1910 as a mechanical engineer. During his lifetime he was associated with B.F. Sturtevant Co.; Riter-Conley Mfg. Co.; Westinghouse; Alster & Goulding; Duncan & Goodell Co.; Chase Parker & Co.; and Waite Hardware Co. of Worcester. In 1965 he retired from the American Asbestos Co. of Cleveland, Ohio.

Clarence W. Taft, '11 died on August 16, 1975 at his home in Worcester. He was 88 years old.

Before retiring in 1963, he had worked for 52 years at the former Leland-Gifford Co. in Worcester, where he was production manager. He was a member of Tau Beta Pi, Tech Old Timers, and Worcester Mechanics Association.

Mr. Taft was born on October 27, 1887 in Hopkinton, Mass. In 1911 he graduated from WPI as a mechanical engineer.

Dr. Douglas F. Miner, '15, retired scientist, author, educator, and civic leader, died on July 20, 1975 in Annapolis, Maryland after a long illness.

He was born on September 13, 1892 in Hazardville, Conn. In 1912 he received his A.E. from Clark University. He earned his BSEE from WPI in 1915 and his MSEE in 1917. In 1940 he received an honorary doctor of engineering degree from the University of Pittsburgh. During World War I he was a captain in heavy artillery and during World War II, as a lieutenant colonel, he helped to develop training schools for Air Force personnel.

Following World War I, he joined Westinghouse Corp., East Pittsburgh. During his 25 years with the company he was engaged in high voltage research and was in charge of materials and process engineering for the entire corporation. He was an education and patent consultant and received the Silver Medal of Merit for his standardization program.

From 1938 until 1956 he was associated with Carnegie Tech first as the Westinghouse professor of engineering, then as assistant director of the College of Engineering and Science. At his retirement he was director of student affairs and welfare.

ner, who was also a consulting
er for Westinghouse, was a member of
eta Pi, Sigma Xi, Eta Kappa Nu, and a
of AIEE. He wrote 30 published articles
as author of the book *Insulation of
ical Apparatus*. He was listed in *Who's
in America*.

ast president of the Pittsburgh chapter
Alumni Association, Dr. Miner also
d on the board of the YMCA and as
ent of the Community Chest and
y Club in Annapolis, Md.

Mr. M. Smith, '15 of Evanston, Illinois
d away on September 28, 1975.

on on June 30, 1893 in Canajoharie,
he later studied electrical engineering at
graduating in 1915. For two years he
with Westinghouse Electric. After
g with the army in World War I, he
Chain Belt in Milwaukee. For many
he was an agent for New England
al Life Insurance Co.

Smith was a former member of the
Executive Committee and a past
ary-treasurer of the Chicago Chapter of
lumni Association. He belonged to Phi
na Delta, Skull, and the University Club
icago.

Mr. N. Pike, '17, of Matawan, New
y, former chief mechanical engineer for
anson-Van Winkle-Munning Co. for
40 years, died on June 22, 1975. He was

ative of Ashland, Mass., he was an
ical engineering graduate from WPI.
working briefly for Denison Co.,
ngham, Mass., and American Steel &
Worcester, he was with Hanson-Van
e-Munning from 1920 to 1961. At the
of his retirement he was chief
anical engineer of the company.

Pike was a member of Tau Beta Pi,
igma Xi, and the Masons. He was a
officer of his American Legion post and
resident of Liberal Building & Loan
Carteret Savings) in Matawan. During
l War I he was with the U.S. Army
Artillery.

Mr. J. Wyman, '17, who retired at the age
after serving 25 years on the teaching
at Franklin Institute in Boston, died on
st 21, 1975 in Stoneham,
achusetts. He was 82 years old.

ative of Ontario, N.Y., he joined the
Army Transport Service after graduating
WPI as a mechanical engineer in 1917.
he became associated with Elder Steel,
nam (Mass.) Water Co., Sword Electric
Whiting Milk Co., Wentworth Institute,
MIT.

Wyman belonged to ASEE, ASTME,
was a past treasurer of Morgan
orial's Hayden Goodwill Inn for Boys
ciation.

Mr. D. Jacques, '20, of Worcester
d away recently.

was born on May 28, 1898 in Worcester
studied mechanical engineering at WPI.
g his career he was the proprietor of
Jacques & Son, Worcester; sales
ger of the Jacques Division of Hobbs
Co.; and sales engineer for F. H. Harris
Holden, Mass. He was a member of Phi
a Kappa and A.F.&A.M.

Curtis N. Rice, Jr., '23, passed away
suddenly on August 1, 1975 at his home in
Sarasota, Florida at the age of 73.

At the time of his retirement in 1966, he
was operations controller for the Northern
States Power Company in Minneapolis, Minn.
Previously he was manager of plant
accounting at Northern States, a firm he
joined in 1933. He had also been associated
with Byllesby Engineering & Management
Corp. and New England Telephone Co.,
Boston. From 1925 until 1928 he was a
valuation engineer assisting Prof. A.S. Richey
at WPI.

Mr. Rice, who was born on October 19,
1901 in Lowell, Mass., received his BSEE
from WPI in 1923. He was a registered
professional engineer and a board member of
the Controllers' Institute of America. He
belonged to Edison Electric Institute, the
Sarasota Power Squadron, and American
Management Association. He was a lifetime
member and past president of the Minnesota
Horticultural Society, a lifetime member of
the Men's Arboratum, and belonged to the
Men's Garden Club of Sarasota and the
Sarasota Shrine Club.

Gunnar A. F. Winckler, '25, of Seabrook,
Maryland died on May 21, 1975.

He was born on August 21, 1901 in
Sweden and graduated with his BSEE from
WPI in 1925. During his lifetime he was a
research engineer for GE, Lynn, Mass.;
president of Winckler Engineering
Laboratories, Boston; and research engineer
at Winchester Repeating Arms Co. He was
with Colin Mathieson Chemical and United
Nuclear, New Haven, Conn.

A former senior scientist at Johns Hopkins
University's applied physics laboratories,
Silver Spring, Md., he was also a member of
Phi Gamma Delta and Tau Beta Pi. Among
his patents was a design for a lighted life
jacket which was approved for use by the
U.S. Government.

Richard S. Boutelle, '26, retired Boston
district manager of the Ford Motor Co. (1956
to 1963), died in Newton, Massachusetts on
September 3, 1975.

He was born on February 20, 1904 in
Worcester, graduated as a civil engineer from
WPI, and joined Ford in 1927. He stayed with
the company until his retirement in 1963.
During his career he held executive positions
with Ford in Chester, Pa., Norfolk, Va., New
York City, and Boston.

Mr. Boutelle was a member of Sigma
Alpha Epsilon and the Harvard Club of
Boston. He attended the Harvard Graduate
School of Business Administration.

Arthur T. Simmonds, '28, former director of
hydro production for New England Power
Company, died on September 20, 1975 in
Littleton, New Hampshire.

A native of Philadelphia, he was born on
April 12, 1904. In 1928 he graduated as an
electrical engineer from WPI and then joined
New England Power Company where he was
employed until his retirement 42 years later.
While with the company he was a meter
inspector in Worcester, and Shelburne Falls,
Mass., and with the Fall Mountain Electric
Co., in Bellows Falls, Vt. In 1934 he became
meter foreman in Littleton, N.H., where in
1938 he was promoted to technical assistant.
Later he became supervisor of operations,
assistant (northern) division superintendent,
and superintendent. At his retirement he was
director of hydro production with
headquarters in Lebanon, N.H.

Mr. Simmonds was past president of the
Littleton Rotary Club, Chamber of
Commerce, Hospital Association, Eastern
Snow Conference, and director of Littleton
Savings Bank. He also served as director of
the Littleton Community Center Corp.,
trustee of the N.H. Masonic Home, and was
very active in the Masons and Shrine. He
was a licensed professional engineer and was
appointed by the governor to the Citizens'
Advisory Group of the Connecticut
River Basin.

Alfred W. Young, '28, of Largo, Florida died
recently.

He was born on July 5, 1906 in Norwich,
Conn. In 1928 he graduated with a BSME
from WPI. From 1928 until 1942 he was with
the National Advisory Committee for
Aeronautics (now NASA). He continued as
an engineer with the National Aeronautics
and Space Administration until his retirement
in 1970. He belonged to Tau Beta Pi and
Sigma Xi.

Gerson E. Berger, '31, died last summer in
Brighton, Massachusetts at the age of 67.

He retired in 1973 after many years as an
electrician at MIT. A Worcester native, he
was born on April 14, 1908, later becoming a
student at WPI.

Mr. Berger was a member of Temple B'nai
Moshe, Brighton, the Brookline Birdwatchers
Club, the Massachusetts Audubon Society
and the Brighton Historical Society.

Burton H. Simons, '36, of Morristown, New
Jersey died on June 4, 1975.

He was born on July 3, 1915 in Worcester
and graduated from WPI with his BSEE in
1936. For many years he was with the Bell
Telephone Labs in Whippany, N. J., where he
was a member of the technical staff.

Mr. Simons belonged to Lambda Chi Alpha
and Sigma Xi. He was an associate member
of IRE.

Aram Kalenian, '33, founder and president of Vee Arc Corp., Westboro, Massachusetts, died on September 7, 1975 in Boston after a short illness. He was 64.

He was born in Worcester on April 12, 1911 and graduated as a chemist from WPI in 1933. Prior to founding Vee Arc, he served as chief design engineer of Armeno Cereal Co., Northboro. He also was a former project engineer for Pratt & Whitney Aircraft Corp. in Hartford, Conn. In 1968 he graduated from the advanced management program of the Harvard University Graduate School of Business Administration.

Mr. Kalenian held numerous U. S. and foreign patents on flexible aircraft couplings, lathe chucks, and adjustable speed motor drives. He became widely known in 1958 for his invention of the Reactron, a variable speed DC motor control. His father's cereal company in Northboro became famous in the early 1960's when it manufactured elements for survival biscuits to be used in bomb shelters.

A civic leader in Westboro, he had been chairman of Veterans' Housing, a member of the town finance committee, and trustee of the Westboro Savings Bank. He was an advisory board member of the Worcester County National Bank and a member of the Chief Executive's Club of Central Massachusetts and the Employers' Association. He also served as a member of the WPI Alumni Fund Board.

Herbert E. Sheldon, '44, an executive with American Telephone & Telegraph Co., passed away on June 8, 1975 in Morristown, New Jersey.

A native of Brockton, Mass., he was born on August 5, 1922. In 1944 he received his BSEE at WPI. During his career he was associated with the New England Telephone Co., the Bell Telephone Laboratories as head of technical employment, and the Illinois Bell System. For the past five years he held a technical personnel executive post at AT&T headquarters in New York City.

During World War II Mr. Sheldon served as an engineering officer on an LSM in the Pacific theater.

Walter P. Matzelevich, '45, died in Boston, Massachusetts on April 23, 1975. He was 52 years old.

For the past eight years he served as vice president of manufacturing at Market Forge Co., Everett, Mass. Previously he held the same position at Anderson Power Products, Boston and at James R. Kearney Corp., St. Louis, Mo. He had also worked for Line Material Industries and A.O. Smith Corporation in Milwaukee, Wis.

Mr. Matzelevich, who was born on February 10, 1923 in Worcester, graduated from WPI in 1945 with a BS in mechanical engineering. He was a member of Tau Beta Pi, Sigma Xi, Skull, and Sigma Phi Epsilon. In 1948 he received his MBA from Harvard Business School. He was active in scouting and belonged to the Rotary and the Chamber of Commerce.

Lt. Col. Robert E. Bernardo, '58, a retired Air Force officer, died on September 21, 1975 in Nashville, Tennessee after a long illness.

He was born on December 12, 1934 in Boston. He received his BS from Tufts in 1956 and his MS from WPI in 1958. While on active duty with the Air Force, he spent two years in Vietnam as aircraft commander of the C-130 transport and the AC-130 gunship. He received the Distinguished Flying Cross, the Meritorious Service Medal, and 18 Air Medals. Last year he retired from the Air Force.

John V. Forcino, SIM '62, of Holden, Massachusetts died on June 20, 1975. He was 57 years old.

For many years he was employed by Grinnell Fire Protection Systems, Inc. of Rhode Island. He was born in Groton, Mass. on October 23, 1917 and later attended WPI. During World War II he was with the Signal Corps in Europe. He was a graduate of Becker Junior College.

Penncyl M. Field, '72, of Swarthmore, Pennsylvania died on August 14, 1975.

He was born on July 24, 1950 in Ridly Park, Pa. After studying at WPI, he received a degree in airplane maintenance engineering technology from Parks College of Aeronautical Technology, a branch of St. Louis University. At the time of his death he held a commercial pilot's rating and was employed by Altair Airlines.

He was a member of Pi Mu Epsilon, the national mathematics honorary society. He was the son of David M. Field, '44.

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A. TOTAL NO. COPIES PRINTED (Net Press Run)	16,583	24,000
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Alumni Magazines

Can Make

Gloomy Reading

George R. Coffey

As it keeps up, I'm going to cancel my subscription to the publication I've been getting for more than twenty-five

years. It's my college alumni magazine, the contents of which are getting more depressing by the issue.

Some time back I had learned to accept the fact that my class was moving steadily toward the front of the parade, with an ever-lengthening list of "Alumnitems" on my classes falling in behind.

Also, I've adjusted to the reality that with a few notable exceptions, the wedding and birth notices are reserved almost exclusively for alumni who graduated 10, or even 20 years after I did.

What really began to hurt was the disturbing frequency of obituaries involving people presumably not much older than I, and in some cases almost exact contemporaries.

When dismissing the recurring reminders of one's own mortality and the diminished proclivity for child-producing, another standard fare for an alumni magazine is enough to make you question how you are doing in life's competitive game.

On one issue, there's the announcement that a guy who graduated just a year ahead of you has been named president of one of the nation's largest companies. And he was the one who was always horsing around in school, cutting classes, ducking exams and generally bringing nothing that indicated he was going to be a stand-beater!

Another time, you find a glowing tribute about a female mate who has been honored by some learned society for her pioneering research on a hitherto unexplored scientific plateau. And she was the one, you recall from high school, who had as much trouble as you did telling the difference between a stamen and a pistil.

To add insult to injury, there is a report on a younger fellow who has been elected to Congress and is considered a hot contender for the U.S. Senate, if not the White House. Wasn't he the awkward kid whose debating team was consistently defeated?

That's the trouble with alumni magazines. They report on the triumphs of graduates, forcing you into the inevitable comparisons of how your progress stacks up against theirs.

Do college newsletters ever tell you about the guy who was evicted from his home for non-payment of the mortgage, enabling you to boast that it never happened to you? Not a chance.

That so-and-so has put on 40 pounds and can't touch his toes with a yardstick, allowing you the pleasure of crowing about your own stabilized, if unevenly distributed, weight? Never.

That someone else has lost all his hair, giving you the satisfaction of pointing to your own full crop, even if it is getting increasingly grey? Of course not.

Life as presented in an alumni magazine is always a series of onward and upward steps, of novels published, big business deals consummated, movies directed, or awards received. All of which leaves the average reader, regardless of his own accomplishments, to compare them with what always seems to be the oneupmanship of other alumni.

About the only recourse is to content yourself with what you have been able to do, or avoid doing, like going broke or landing in jail.

What you can't do, actually, is cancel your subscription to an alumni magazine because you'll keep getting it as long as you're carried on the rolls as a graduate of good ole Estee U.

So, you might as well accept the fact that there will be constant reminders that others are achieving new heights even when you're not. But, you'll also be reassured to know that everyone else is getting older, and moving farther forward in the book, just like you.

This "appreciation" of alumni magazines was originally published in a California newspaper, where Larry Israel, '61, noticed it and sent it on to us. George Coffey is a San Francisco public relations consultant who, for a time, was a syndicated columnist.

