

Lawrence

INSTITUTE OF TECHNOLOGY



Magazine

PRIME time for learning: CAD/D for LIT architects

Profiting 'from thin air': Alumnus Ed Donley

Microprocessors: A 'circuitous route' to miniaturization

Plus a new dean, campus and alumni news, and more!

Lawrence

INSTITUTE OF TECHNOLOGY

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By-lined articles express the views of the author and not necessarily either the opinions or policies of the College. Persons wishing to comment or submit manuscripts for consideration are encouraged to contact the editor.

About the cover: CAD/D (computer-aided drafting and design) and CAD/CAM (computer-aided design and manufacturing) are becoming commonplace in the professions of architecture and engineering. This issue examines the student use of new equipment recently acquired by LIT. Photo by Bruce Annett.

Editor/Designer: Bruce J. Annett, Jr., director of college relations and alumni services

Contributing Editor: Ursula Marinelli, associate in information services

Production Assistants: Deborah A. Faes, Deborah A. Stamps, clerical; Diane Nagelkirk, Ar'82, graphics

College Photographer: Walter G. Bizon, BA'77

Design counsel: Frank Moran Associates Inc.

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The statement above is included in this publication to conform to Federal guidelines: it represents no change in the policy of LIT.

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Wanted: energy efficient designers

A future issue of the *LIT Magazine* will focus on LIT alumni doing innovative work in the areas of energy efficient building and design.

We're looking for alumni who have built or designed energy efficient structures, retrofitted existing structures to make them less energy "hungry," or who are involved in the development, research, engineering, or marketing of devices or equipment which increase energy efficiency. We encourage you to contact the Editor, *LIT Magazine*, 21000 West Ten Mile Road, Southfield, MI 48075; phone (313) 356-5051.

Solar radiation and passive solar environmental systems, earth sheltering, nocturnal cooling, and wind, hydro and geothermal power generation as well as other theoretical and practical methods of increasing the energy efficiency of residential, commercial, and industrial structures are all candidates for story consideration. □

Profiting 'from thin air'

Alumnus Edward Donley, ME'43

By Grover Heiman

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Is the demise of "Smokestack America" imminent? Edward Donley, the lean, soft-spoken 62-year-old engineer who is chairman and chief executive officer of Air Products and Chemicals, Inc., doesn't think so.

His company is committed to research and development in high technology, but its primary activity is supplying industry with gases, chemicals and engineering services. He sees no possibility that his company's customers will quit the industrial arena any time soon.

"There is no question," he says, "that when the 21st century dawns, the United States will still be ahead of the rest of the world."

Donley believes that American engineers are the world's best and that the United States' data base in basic

science is also the best. That combination, he says, can keep the nation ahead of the pack.

But, he says, "I don't know whether we will be able to retain that lead for the next 100 years." The gap is narrowing, he warns: "More engineers are being produced relative to the size of the population elsewhere, specifically in Japan and the Soviet Union, than in this country."

Donley is a highly active advocate of improved engineering education and opportunities. He is thinking of the nation's future — and also of the future of Air Products, which had \$1.6 billion in sales in 1982. The firm, based in Allentown, PA, has 18,000 employees and facilities in 15 countries.

Air Products had only 17 employees and a small Detroit plant in 1943, when Donley went to work part time for 40 cents an hour. He was in his senior year at Lawrence Institute of Technology in nearby Southfield.

When Donley graduated as a mechanical engineer and went to

work for Air Products full time, it was at a critical point in World War II. American bombers were beginning to pound Nazi targets in Europe. Flying at high altitudes, the crews of B-17s and B-24s needed life-sustaining oxygen. During the war Air Products built 240 portable plants to produce oxygen for the United States and its allies.

Donley signed on with Air Products as it was beginning a period of enormous growth, fueled by defense contracts. By the end of the war the company's work force had swollen to 3,500, and Donley, as chief engineer, had 250 engineers working under him. "It was a tremendous learning experience for me," he says.

Learning has always been a passion with Donley. He denies that he is a workaholic, but he does admit to being a bookaholic. "I'm not addicted to work," he says. "I enjoy what I am doing, but it's not compulsive. But Inez, my wife, says I can't stand passing a bookstore or library without going in, and she's right."

Much of Ed Donley's early reading

Alumnus Ed Donley, ME'43, who started at Air Products as an engineer, feels right at home discussing technical details with Art Farrel, one of the firm's plant managers. The air separation

column in the background separates air into its component parts — the primary product of Air Products.





NATION'S BUSINESS PHOTOS BY DAVID VALDEZ

Ed reviews one of his company's CAD/CAM projects with two CDP (career development program) professionals, Beth

Moore and Bob Wolff. New employees are given a choice of job rotations.

was by the flicker of a kerosene lamp. He was born in 1921 in the Detroit suburb of Highland Park and lived there until he was 10. But as the Depression hit, his father's automobile engine valve manufacturing business tottered. The elder Donley sold out and moved to the 250-acre family farm in Richmond, Mich., homesteaded by earlier Donleys in the 1840s. Young Ed Donley found himself working at farm chores from dawn to dusk when he wasn't in school. The farm lacked electricity and other city comforts.

"I don't watch much television," he says, "and maybe that's because I didn't listen to much radio when I was younger. If we wanted to hear radio, we

would go over and visit a farmhouse a couple of miles away."

By the time Donley reached high school, he had decided to become an engineer. He won a scholarship to Lawrence Tech, supporting himself by working at various jobs at a Sears, Roebuck store and, in his senior year, by tutoring freshmen.

At Lawrence, Donley met a local entrepreneur named Leonard P. Pool, who came to the campus frequently to recruit promising engineering talent for his struggling firm, Air Products. Pool had founded the firm in 1940, convinced that the steel industry would need vast amounts of oxygen for

its furnaces.

In those days oxygen was delivered to steelmakers in 120-pound steel cylinders, each holding 8 pounds of the compressed gas. Pool's idea was to build oxygen plants next to the steel plants and pipe the oxygen to the furnaces, thus eliminating the cumbersome and costly transportation system.

Air Products sold its first plant to a steel company in 1941 and a second to the Norfolk Navy Yard. But sales weren't booming when Pool returned to the Lawrence campus and looked up Ed Donley three months after their first meeting. Pool offered Donley a part-time job as a draftsman, at 40 cents an hour, telling him he would "learn more than you will by teaching these kids."

Each day, after his 3 o'clock class, Donley went to the small Air Products plant, which had three engineers, and worked as an engineering draftsman until late at night. He quickly decided that he had stumbled into an exciting new field. Pool sensed he had found something valuable, too, and at the end of the first week he said, "I think we'd better give you a raise to 70 cents an hour."

When the Army Air Forces gave Air Products a contract to build portable oxygen generators, the firm's prospects improved dramatically. In 1943, soon after Donley joined the company full time, Air Products moved to a surplus tank manufacturing plant in Chatanooga that was supplied by the government.

When the war ended, Air Products didn't have much in the way of retained profits because it had worked under low-profit government contracts. But it had acquired the technology it needed to go after the steel industry. Weirton Steel was the first customer, signing a contract in 1945, and others soon followed.

In 1946 Leonard Pool took his company public and moved it to the Allentown area. Progress was slow but steady, with Ed Donley a major participant in the company's growth. He worked in all aspects of the operation, including administration.

Ronald Barclay, now Air Products' vice president and treasurer, recalls when Ed Donley was head of process equipment sales in the 1950s. "He was a low-key but really effective salesman," Barclay says. "He was a master of understatement, never promising more than Air Products could deliver. He was recognized for his sincerity, and his word was trusted."

Donley says, "I always thought that the best way to sell was to sell on the technological merits of the products."

In the 1950s the company expanded overseas, went into chemicals (it changed its name from Air Products

Ed is seated at sophisticated ESCA-AUGER equipment in Air Products research labs, which provides electron microscopic analysis of what happens on the surface of metals or materials being treated.



to Air Products and Chemicals in 1961) and then into engineering services.

But Air Products took its biggest step forward in that decade as a result of the United States' decisions to enter the intercontinental ballistic missile era and push ahead with the exploration of space. The company built 13 liquid oxygen plants to supply the missile and space programs, and in 1959 it designed, built and operated the first large-tonnage liquid hydrogen plant. Fuel produced by Air Products propels men into space every time the space shuttle makes a voyage.

As the company grew, Ed Donley grew along with it, becoming a skilled professional manager. But there was always the shadow of Leonard Pool, the chairman and CEO.

"Pool was a one-man-band type of entrepreneur," says Barclay. "Very authoritative in style. Totally unlike Donley, who encourages people to be innovative in their jobs. People don't live in fear of him. If you pursue an idea and it doesn't work out, you aren't sacked."

Donley was named president in 1966, emerging as the heir apparent, and was named CEO in 1973.

Reflecting on his career, Donley says, "I never really had a career plan. I just did each day what seemed like the important thing to do that day, and my career unfolded."

Yet he recognizes that, with Air Products now such a large company, later generations of executives will not have the vast opportunity for seasoning and experience that he has had.

Now, he says, "we create an atmosphere for career planning. When new people come in, we tell them they have the responsibility to personally plan their careers and tell us what they want to do. We think that if they do what they believe will be to their best advantage, it will be to the best advantage of the company."

"The program is very effective. Normally, chemical companies retain 50 percent of their young professionals after five years. We retain 70 percent."

Air Products and Chemicals has felt changes — going from an inside to an outside board, for example, to draw on a broader range of experience — since Donley became president. The style of management has changed, too. "Pool made a lot of decisions on intuition," Donley says. "My intuition is not as acute, so I depend less on intuition than he did. I would rather hear conflicting views, so I try to draw out differences of opinion and analyze and weigh them."

P.L. Thibaut Brian, vice president for engineering, observes: "He has a high degree of intellectual curiosity, likes to

take things apart, to understand all the nuances. He works hard to get a consensus, but he is willing to overrule."

Donley (who is, one associate says, too logical to become emotional) asks a lot of hard questions and encourages debate. He likes to have each line executive make the decision if it affects only the executive's area; when two executives are involved, Donley makes the decision. "We have a management committee, but it is advisory," he says. "We don't have management by committee, we have debate by committee. Our management style is participatory and is arms around rather than hands on."

His company benefits hugely, Donley believes, from this style of management and from Air Products' growing emphasis on high-tech research and development. Some 800 engineers work in a campus-like atmosphere at Air Products' research facility, which is located, with the headquarters, a few miles west of Allentown.

Donley sees the potential of solid-state physics and biochemistry for new products, and of the computer age for engineering.

Air Products, he says, is in the forefront of computer-aided design and computer-aided manufacturing techniques. "One man can do as much in design in one hour as hundreds of men used to do in 20 hours," he says. "I believe the United States is equal to or ahead of other nations in this field. The only nation that can even challenge us is Japan."

For all of the new emphasis on high technology, Air Products remains basically unchanged. Donley sees the company continuing as essentially a provider of industrial gases, chemicals, and design and construction services. Industrial gases like oxygen, hydrogen, helium, carbon dioxide and nitrogen will remain the staples.

As Ed Donley contemplates the past and the future of his company, his thoughts inevitably turn to the quality of engineering education. He believes that one answer to better education is a closer relationship between industry and the academic community. He is a member of the Business Higher Education Forum, an organization of business CEOs that communicates with the academic community on the needs of higher education.

Four years ago Air Products and Dow Chemical founded the Chemical Council on Research. In 1982 the council distributed \$8 million — contributed by chemical companies — directly to university chemistry and chemical engineering departments.

Donley, whose father was a school-

teacher before becoming a businessman, is chairman of the board of members of the corporation of Lawrence Tech (the school's governing body) and serves on the board of overseers of the college of engineering of the University of Pennsylvania and on Carnegie-Mellon University's board of trustees.

"If you could lift yourself to the 1990s," he says, "I predict we will say the product of higher education in the United States then is far better educated than in the product of the 1980s, particularly in the use of communications and the use of the computer."

Donley will reach Air Products' normal retirement age of 65 on Nov. 26, 1986, and he plans to step down. Continuity, he says, is assured. "If the vice chairman, the president and I were to be run over by the proverbial beer truck," he says, "this company would move right along without a wrinkle showing."

Retirement will bring Donley more time for his outside pursuits. Recreation for the Donleys, who have two grown sons and a daughter, is usually weekends at a second home on a lake in the Poconos, where he skips a Sailfish-class sailboat and "fusses around and reads."

He recently acquired golf clubs and started taking lessons, but he intends to keep up a 23-year tradition of jogging 1½ miles every morning, Monday through Friday.

Donley plans to remain an Air Products director until he is 70 — a privilege accorded former chairmen — and to remain active in education and national affairs. A former chairman of the Chemical Manufacturers Association, he is a member of the Conference Board and a director of the U.S. Chamber of Commerce.

A joke he likes to tell reinforces the thinking of his associates that Donley has no thoughts of slowing down in retirement.

"A gang of terrorists," he says "captured three businessmen — a Frenchman, an American and a Japanese. They announced they were going to shoot them but would grant each a last wish. The Frenchman was called first. He asked to hear the 'Marseillaise' once more. They played it for him and then shot him. Next called was the Japanese, who said he would like to have few minutes to talk about Japanese productivity. But the American objected. 'Shoot me next,' he begged. 'I can't stand to hear that one more time.'"

Before he is through, Ed Donley would like to have American productivity and quality regain pre-eminence in the world. □



ANNETT PHOTO

Rich Hogan, (standing) from LIT's Computer Center, explains operation of new CAD/D equipment in LIT's School of Architecture.

PRIME[®] time for learning

New computer design and drafting stations
bring the future to LIT engineering and architecture students

First of two parts

Imagine it is the year 2001. At 8:55 a.m., the slightly fatigued Joseph Architectura, BAR'99, pulls his Lamborghini into the parking lot adjacent to Space Scapes Inc., the firm he's been with since graduation. Joe has a 1 p.m. design presentation scheduled with the firm's biggest

client. However, Joe entertained the firm's second biggest client until late the night before and is not yet prepared for the afternoon's presentation. But is Joe worried? Certainly not. With his firm's CAD/D computer Joe is able to generate 10 design alternatives by 12:30 p.m., giving him more than enough time to grab a protein pill for lunch.

This 2001 architectural odyssey is not a dream for the future. It is today's reality. Using technology available now, an architect can draw 10 design alternatives and be prepared to show interior and exterior elevations from the side, from above, and from below, in a matter of hours. Thanks to LIT's recently-completed Sharing in Excellence Capital Campaign. LIT's Schools

of Engineering and Architecture have added new PRIME computer facilities which will aid in preparing LIT students for this futuristic design scenario.

Taking advantage of School of Engineering studies which led to the acquisition of 10 PRIME work stations in engineering, the School of Architecture Computer Center obtained four PRIME CAD/D full-color work stations which are capable of both 2-D and 3-D graphics. This is the latest in computer aided design/drafting (CAD/D) according to Karl Greimel, dean of architecture.

"Two aspects make this Center unique," says Greimel. "The equipment itself is absolutely state of the art and the 3-D capabilities of the Medusa software are incredible. No other architectural college in the nation has this software package."

Each work station at LIT is equipped with a color display monitor, a digitizing menu, and a terminal with keyboard. One eight-pen plotter/printer, which is capable of plotting for 10 work stations, plots for the four stations in the Architecture Computer Center. However, LIT's Center will soon also include a new electrostatic printer which will print three times as fast as the pen plotter with far fewer mechanical limitations. The stations occupy the newly-designed departmental Computer Center on the first floor of the architecture building. Temperature and humidity in the lab are maintained by two 20-ton environmental control units.

LIT's School of Architecture Computer Center also has an office suite and a new microcomputer lab containing seven Apple microcomputers, which supplement the instruction received in the CAD/D Center.

"The microcomputer units are primarily used to teach students to be programmers, whereas the CAD/D stations are set up to teach students to be designers. This way, students will be familiar with both ends of the spectrum," states Richard Hogan, a member of LIT's Computer Center staff assigned to the School of Architecture.

This computer interaction puts LIT at the forefront of architectural computer technology according to Greimel.

"An increasing number of local and national architecture and engineering firms have been acquiring similar equipment in recent years. Our position as a leader in architectural education was at risk. Therefore, we had to obtain this equipment," Greimel continues. "To actually have this Computer Center in the architecture building is of paramount significance. Our students and graduates will be



Architecture students use a bank of Apple II Plus computers, such as the one above, to learn basic programming skills and sharpen their understanding of the computer-aided design process.

prepared more fully than graduates from larger universities when seeking positions with large scale firms."

What does this technology mean to architects aside from allowing time to design faster?

The computer reduces the time it takes for most drawing and drafting functions from eight hours to 20 minutes, keeps records and stores plan revisions automatically, and can make changes and correct errors immediately. If an architect discovers one error in a design, which in turn causes other errors to occur throughout the drawing, the computer will correct not only the initial plan, but also the related problems. The system enables a firm that has more than one architect working on a project to create a consistency of appearance in documentation. And, it can routinely complete tedious, time consuming tasks so that the architect is able to spend much more of his time on creative activities.

The countless capabilities of the system raises the computer-age old question, "Will the computer replace the architect?"

"Computer technology will dramat-

ically alter the architecture profession and architectural education," says Greimel. "It won't reduce the marketplace but it will change it. It will demand that architects have a higher aptitude and more extensive training. A firm won't hire someone as a draftsman and allow him to strengthen his skills and work his way up. People will have to have the skills when they enter the marketplace or they won't be hired."

Hogan adds, "The computer is not a miracle worker. It can't create or make decisions — it can only do what a person tells it to do."

For now. □ UM

Editors note: LIT's School of Architecture, School of Engineering, and School for Associate Studies each offers courses in computer aided design, drafting, or manufacturing appropriate to their discipline. For more information, contact LIT's Office of Admissions or the Office of the Dean in each School. In the next issue we'll explore how the computer is helping LIT engineering students prepare for 21st Century careers.

Microprocessors

They're tiny, they're versatile, they're already in our TV's, stereos, washing machines, and ovens — and, they're revolutionizing the teaching and practice of electrical engineering

They are already in our television sets, microwave ovens, clothes washers, and stereos. At this very moment they are infiltrating virtually every other electrical appliance in our homes.

The invaders are neither spies from rival governments nor messengers from distant planets. They are tiny electronic devices known as microprocessors. According to the Random House College Dictionary, a microprocessor is "a miniaturized integrated circuit that performs all of the functions of a central processing unit."

"Microprocessors are already in almost every electronic device that engineers design and soon they will take over completely," notes H. Robert Farrah, associate professor of electrical engineering and instructor of the newly offered course in microprocessors at Lawrence Institute of Technology.

Farrah teaches LIT students about microprocessors using the College's recently acquired microprocessor development stations valued at

\$180,000, which makes them one of the largest such educational labs available. The stations are universal, meaning that they are capable of designing a variety of microprocessors, unlike dedicated systems which limit engineers to designing specific types. The universal system is more beneficial to

students according to Richard Maslowski, assistant dean of engineering and chairman of the electrical engineering department at LIT.

"Both systems have their advantages, but LIT chose the universal because it will give our graduates an edge in industry. They learn the basics needed to work with any microprocessor development system they may be faced with on the job."

And, according to both Maslowski and Farrah, it is inevitable that students will be faced with microprocessor development systems when they become engineers.

"Microprocessors, which were developed in 1973, are the answer that engineers have been looking for," Maslowski says. "In the past, circuits and many other electrical devices had been so large that they limit the number of functions an appliance is



Richard Maslowski, chairman of LIT's department of electrical engineering and assistant dean of engineering, holds an 8 bit microprocessing circuit, popularly used in modern electronic circuitry.

capable of performing." Maslowski continues, "The beauty of a microprocessor is in its size. We can attach 20 circuits to just one microprocessor, which is a piece of silicon about the size of a fingernail. With microprocessors, a clothes washer can have an unlimited number of cycles whereas before it may have had only five or six."

Farrah stated that familiarity with microprocessors is among "the basic tools that an engineer needs in his arsenal of knowledge." He called these systems "the wave of the future that is upon us now."

'Microprocessors have changed the way electrical engineers do things.'

— Maslowski

Also, Maslowski notes that a large number of students who have taken the class at LIT were professional engineers updating their skills.

'Microprocessors have changed the way electrical engineers do things. They have become so widely used so rapidly that much of the knowledge many engineers have about circuit design is obsolete. Continuing education courses are necessary to keep up with this new technology."

Those who take the course at LIT are familiarized with the system and taught to develop both circuits and software. In the past, the majority of people in the class have been in the electrical engineering field but the course is also open to mechanical engineering and computer science students. Maslowski suggests that all engineering and computer students should take advantage of the course.

"Since microprocessors are in just about everything from dishwashers to computers, all those people in related studies or vocations should utilize the equipment we have on campus."

According to John Antczak, a 1983 LIT graduate who took the course, Maslowski is right on target. An electrical engineer at United Technologies Automotive Group in Dearborn, Antczak is putting the knowledge he acquired in the lab at LIT to good use by speedily assimilating diverse data.

"There's no way around them," he says. "They're here to stay." □ UM



Students develop and test microprocessor-based circuits in LIT's new Microprocessor lab. The "message" sent to and from each circuit operates an electrical device or governs its operation.

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**Annual
Giving Report
1982-1983**



21000 West Ten Mile Road
Southfield, Michigan 48075
Telephone (313) 356-0200

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Dear Friends:

This Annual Giving Report recognizes with gratitude the hundreds of individuals, corporations, foundations and other organizations who generously supported LIT during the year ending June 30, 1983.

The past fiscal year was marked by a number of accomplishments. The "Sharing in Excellence" Capital Campaign ended on December 31, 1982, with a final total of \$13,032,000 in gifts and commitments - comfortably exceeding a goal of \$12,500,000. The Annual Giving Program, inaugurated in January of 1983 to encourage regular support of the College's ongoing needs, attracted almost \$100,000 in unrestricted gifts in only six months. Additional thousands of dollars were received for special purposes, such as scholarships and student aid, the Summer Science Institute, and the Frank Lloyd Wright - Affleck House restoration.

The Capital Campaign generated an enthusiasm and momentum unmatched in LIT's history. Although the Campaign is officially over, your commitments and those of many others are vital in helping us meet the challenges that lie ahead.

LIT enjoys a national reputation of excellence in career-oriented education. To maintain this leadership in the future, the College must continually upgrade its teaching resources. This requires the commitment of considerable sums of money by the College, particularly with regard to computer and technical equipment. Thus, there is a need for ongoing support from alumni and friends.

The College is also committed to providing its students with a well-rounded educational experience. Over the coming months, with your help, we will continue to make good progress toward a complete Campus Affairs and Activities Center.

To the many alumni and friends who have invested in Lawrence Institute of Technology, we offer our sincerest thanks. Each of you plays an indispensable role in maintaining the excellence of this great College.

Sincerely,

Richard E. Marburger

Dr. Richard E. Marburger
President

G. Robert Harrington

G. Robert Harrington
Vice President-Development

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MINDY SAUNDERS PHOTO

Giving Totals (July 1, 1982 through June 30, 1983)

Donors	No. of Donors	Total Gifts
Founders Society	36	\$ 106,244
Presidents Club	344	85,179
Century Club	325	44,498
General Contributors	717	25,519
Corporations	299	774,643
Corporate Matching Gifts	89	84,842
Foundations and Trusts	18	81,385
Associations	15	24,018
Totals	1,843	\$1,226,328

This **Annual Giving Report** recognizes contributions (not pledges) received between July 1, 1982 and June 30, 1983. On the pages that follow, donors are listed *only in the category that reflects their highest level of giving*. A box (☐) by the name indicates the donor also made a contribution during the previous fiscal year.

Contributions by individuals are listed under the following categories: Founders Society members; Presidents Club members; Century Club members, comprised of those who gave \$100 or more; and General Contributors, recognizing all other individual gifts.

Donors in the LIT Family — faculty, students, staff, administration, trustees, and members of the LIT Corporation — are recognized at their highest level of giving throughout this Report. They are also listed under the LIT Family category.

All donors for the fiscal year are recognized on the following pages. Please report any omissions or corrections to the Office of Development.

Founders Society

The Founders Society was established during LIT's Golden Anniversary Jubilee in 1982. Its members are committed to providing major financial support for the College. We are honored to recognize the 53 Charter Members of the Founders Society. Founders Society members contributed a total of \$106,244 in 1982-1983. Through their personal foundations and closely held corporations, listed elsewhere in this Report, they contributed an additional \$16,000. The cumulative gifts of Founders Society members to date exceed \$2 million.

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Presidents Club

The LIT Presidents Club began its 10th year of service to the College in 1983. Total membership, as of June 30, 1983, grew to 525. The following 344 Presidents Club members contributed \$85,179 during 1982-1983. This represents an increase of \$19,537, 30 percent over the \$65,642 contributed during 1981-1982.

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 Gordon I. Ginsberg
 Peter C. Giudici, Jr. □
 Harry J. Gohl, Jr. □
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 Ross Jay Goldman □
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 William J. Gottschalk
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 B. Clark Gram
 George Gravila □
 Blake G. Green □
 Glen G. Greene □
 James R. Greenshields
 Michael Gregg
 Ralph W. Griffin □
 Delmar C. Grimes □
 John W. Grindrod □
 Richard K. Gross □
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 Robert C. Hagemann □
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 John R. Halberda □
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 Carl A. Hammack □
 Edna E. Harris □
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 John C. Hawman □
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 Sandra L. Hemmingsen □
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 Oran L. Herberger
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 Edgar C. Herriman
- Vincent J. Herter □
 Ronald W. Herzog
 David A. Hickey
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 Arthur J. Hnizdil □
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 Jesse Hunt □
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 Kenneth Lehto □



More than 30 student organizations are active on campus, providing opportunities for professional growth and social interaction. New quarters in a recently-acquired building on Civic Center Drive will offer meeting and office space for each group.

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- Eric A. Lewis
- Roy Lewis
- Juliana LeZotte
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- William Lilac
- Jeffrey Lilley
- Ronald P. Linden
- Harold Linton
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- Larry C. Lizzett
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- Ralph H. Long
- Thomas P. Long
- Irving Lopatin
- Afred L. Lopez
- Harlan W.C. Lorenz
- William B. Louden
- Nelson O. Lowe
- Barbara J. Luby
- Mitchell and Linda Lupescu
- James C. Lusko
- Daniel R. Lutey
- Raymond G. and Albena Lyben
- Andrzej A. Machcinski
- Stephen A. Machno
- Leo D. Mack
- Rody M. MacLean
- Alexander P. MacLellan
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- Lewis R. Mahaffey
- Kevin P. Malover
- Peter Mandziuk
- James R. Manor
- Sam P. Manzella
- Paul L. Marchese
- Walter Marfey
- Gretchen Maricak
- Glenn Marinetti
- Albert Marnon
- Derek W. Marshall
- Kevin R. Martin

- Carlo Martina
- Robert O. Martinez
- John A. Martino
- Thomas M. Martus
- Walter Martynow
- Matthew Mashikian
- Clyde P. Mason
- Frank A. Massucci
- Judith A. Maten
- Joseph S. Matusz
- Roman Maziak
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- Allan McLellan
- Walter W. McNeil
- Mark S. McPherson
- Robert M. McSweeney
- Patrick C. McWilliams
- Ward L. Meeke
- Michael Meinhardt
- Robert M. Meredith
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- Mrs. Elizabeth Milbrandt
- Lawrence J. Millen
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- David G. Miller
- Dennis J. Miller
- Richard J. Miller
- Walter S. Miller
- William W. Miller
- Daniel Mioduszewski
- Michael R. Mitchell
- William E. Mitchell, Jr.
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- Michael J. Mosley
- Movses Movsesian

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- Judy Nicholas
- Richard Nicholas
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 Holley Carburetor Division/
 Colt Industries □
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 Midwest Manufacturing & Sales, Inc. □
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 Modern Industrial Engineering
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 J.L. Sherk Company □
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 Stellar Engineering Incorporated □
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 Vaungarde Engineering & Sales
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 WXYZ-TV
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 Hiram Walker, Inc. □
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 Warren Steel Fabricating Company □
 Jervis B. Webb Company □
 Weider Hardware Distributors
 Wiegand Heating & Cooling
 Wilhelm Engineering Company
 Wilson-Garner Company □
 Winkelman Stores, Inc.
 Wohlert Corporation □
 Woods Construction Company, Inc. □
 Wyandotte Cement, Inc. □
 Minoru Yamasaki and Associates,
 Inc. □
 Zenith Industrial Corporation □
 Ziegelman Architects, Inc. □

Corporations

LIT's long history of service to the corporate community is reflected in the strong level of corporate support the College receives each year. During the 1982-1983 giving year, 299 corporations contributed \$774,643.

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 Braun Engineering Company □
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 Burroughs Corporation □
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 Center Manufacturing, Inc.
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 Comerica Bank-Detroit □
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 Computerized Insurance Techniques
 Comtel Corporation
 Concord Tool & Manufacturing
 Corporation □
 Construction Pipe Company, Inc. □
 Consumers Power Company □
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Cooper Tire & Rubber Company □
 Coopers & Lybrand □
 Copper & Brass Sales, Inc.
 Core Industries, Inc. □
 Monte Costella & Company □
 Walter L. Couse & Company
 Craft-Line, Inc. □
 Creative Foam Corporation □
 Cross & Trecker Corporation
 The Cross Company □
 Crowley, Milner & Company □
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 Foundation
 D & F Corporation □
 DMI Industries, Inc. □
 D'Arcy MacManus & Masius
 Darin & Armstrong, Inc. □
 Daverman Associates, Inc. □
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 Diehl & Diehl Architects, Inc. □
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 The Dow Chemical Company
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Corporate Matching Gifts

Corporations also show their confidence in this institution and in other colleges by sponsoring matching gift programs. These programs encourage a greater number of alumni and friends to give to LIT. Matching gift contributions from 89 corporations totaled \$84,842.

ACF Foundation, Inc.
 Air Products and Chemicals, Inc.
 Allegheny Ludlum Steel Corporation
 American Davidson, Inc.
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 American Natural Resources Company
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 American United Life Insurance Company
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 Wausau Insurance Companies
 Westinghouse Educational Foundation
 Whittaker Corporation
 The Xerox Foundation
 The Arthur Young Foundation

Foundations and Trusts

Grants from private foundations and trusts play a significant role in furthering LIT's programs. The College received \$81,385 from 14 foundations and 4 trusts during the 1982-1983 giving year. Ten of the foundations and trusts also made grants to LIT during the previous fiscal year.

George I. Alden Trust
 The Charles M. Bauervic Foundation, Inc.
 The Clarence & Grace Chamberlin Foundation
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 Edward Rose Family Fund
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 Estate of Florence L. Tallberg
 Lula C. Wilson Trust

Ben C. Maibach, Jr., (right) chairman of the board of Barton-Malow, an LIT trustee, and a charter member of LIT's Founders Society, presented a fully restored 1925 Model 40 Chrysler

convertible to the College on behalf of his company during the fiscal year. President Richard E. Marburger accepts the gift.





Mrs. Betty Fealk and President Marburger pause in the J. J. Fealk Memorial Garden in the Wayne H. Buell Building. The garden was funded by Mrs. Fealk and her late husband, Arthur, in memory of their daughter. The Fealks are charter members of the LIT Founders Society.

Associations

LIT gratefully acknowledges the support provided by a variety of associations, civic groups and other organizations. Their total gifts to the College were \$24,018.

- American Concrete Institute
- American Society for Metals
- Bricklayers Local #17
- Bricklayers Local #21
- Detroit Amateur Radio Association
- Detroit Edison Friends & Co-Workers
- Forging Industry Educational & Research Foundation
- LIT Alumni Association
- Michigan Road Builders Association

- Michigan Society of Professional Engineers Auxiliary
- National Action Council for Minorities in Engineering, Inc.
- National Association of Accountants Oakland County Chapter
- Rotary Club of Southfield
- Society of Manufacturing Engineers
- Wall and Ceiling Contractors Industry

LIT Family

The College sincerely appreciates the contributions made by members of its "family" — faculty, students, staff, administration, members of the LIT Corporation, and trustees. Gifts from members of the LIT family totaled \$46,837.

- James J. Abernethy
- Elizabeth C. Ager

- Stanley R. Allison
- Jeanne H. Allyn

- Carolyn R. Andrek
- Victor and Sophie Angelescu
- Bruce J. Annett, Jr.
- Jack and Carole Armstrong
- Jerry G. Beck
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- Wayne M. and Marie L. Brehob
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- Charles and Adriana Craiglow
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- Mr. and Mrs. Richard H. Cummings
- Mr. and Mrs. Gerald Cuper
- Mr. and Mrs. Wilson Daugherty
- Dr. and Mrs. Stephen R. Davis
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- Mr. and Mrs. Frank de Hesselde
- Ashok Deshpande
- R. James Diegel
- Metin Dogu
- Mr. and Mrs. Edward Donley
- Mr. and Mrs. Thomas J. Dragon
- John and Debbie Faes
- Kenneth J. Farquharson
- H. Robert Farrah
- Ruth G. Favro
- Roger H. Fitch
- Mr. and Mrs. Leonard A. Forrest
- Mr. and Mrs. Gary J. Gabel
- Mr. and Mrs. Ronald D. Gallesero
- Mrs. Joan Geha
- James Giachino
- Fay and Ann Gifford
- Dean and Mrs. Karl H. Greimel
- Dr. and Mrs. Perry E. Gresham
- Mr. and Mrs. C. Richard Hall
- Paul A. Hanuscak
- John M. Harlan
- G. Robert and Dorothy M. Harrington
- The Stanley F. Harris Family
- Mr. and Mrs. Robert D. Hatch
- Sonia and Marvin Henckel
- Mr. and Mrs. James L. Hodges
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- Mr. and Mrs. Stanley Korenkiewicz
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- Lee and Julie Lahr
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- Mr. and Mrs. Samuel F. Lewis
- Juliana C. LeZotte
- Harold Linton
- Mr. and Mrs. Robert A. Liska
- Mr. and Mrs. David L. Littmann
- Mr. and Mrs. Kenneth M. Livingston
- Dr. George Mach
- Ben C. Maibach, Jr.
- Mr. and Mrs. Ernest L. Maier
- Gene Manis
- Dr. and Mrs. Richard E. Marburger
- Zaven and Gladys Margosian
- Albert Marnon
- Matthew Mashikian
- Richard S. Maslowski
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- Ronald and Paula Stofer
- Mr. and Mrs. Roy J. Strickfaden
- Michael P. Sweeney
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- Mr. and Mrs. Kurt O. Tech
- Mr. and Mrs. James O. Trew
- Richard J. Trippett
- Gary and Eleanor Vance
- Mr. and Mrs. Lewis C. Veraldi
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- Leonard J. Walle
- A. Joel Warren
- Mr. and Mrs. Thomas H. Warren
- Robert E. Weil
- Judith Weiner
- Mr. and Mrs. Richard R. Werry, Jr.
- Jay West
- Marvin E. Williams
- William O. Winchell
- Mr. and Mrs. Conrad Zemens

ANNETT PHOTO

These rosters include names on record for contributions received between July 1, 1982 and June 30, 1983. Omissions or corrections should be reported to the Office of Development.

Planning: the key to financial independence

Less than 5 percent of us succeed in our goals for financial independence. Lecturer Don Haas looks at financial planning: the process, the benefits, and the selection of qualified counsel

By Donald R. Haas

F

inancial planning is for everyone. Certainly one can see the need for planning by a successful executive, business owner, or professional. However, someone of modest means also needs planning to avoid loss of capital and to make a small nest egg as efficient as possible.

The older, more successful and busier we are, the more likely it is that we have not taken the time to step back and examine our financial structure as one coherent whole. A major destination in the journey of life is financial independence. Knowledge is power,

and armed with understanding, an informed individual can achieve financial independence. As a first step, it is necessary to recognize that a comprehensive financial plan must take into consideration three fundamental areas of concern: *protection, savings, and investments*.

Protection deals primarily with risks, for which our society has developed the risk-sharing concept of insurance. The five risk areas that can do the most harm to any well conceived financial plan are: *liability, death, disability, medical, and property*. A treatise could be written on each of these important areas, but suffice it to say, your financial plan will somehow be destroyed unless all five are properly insured.

The second fundamental area is a savings/emergency fund. Adequate liquid funds to meet unexpected events or opportunities are a must. The amount of reserve will vary, but usually it is between 25 percent and 50 percent

of annual take-home pay. With proper amounts of liquid assets an investor will not, for example, be forced off at the bottom of a stock market roller coaster ride. A reserve account can be used to meet the emergency — otherwise, irreparable harm could befall the investment program. Of course, the opportunity here is making purchases at the low point of the market, which can be done when liquid assets are available.

The third area is an investment program or wealth accumulation plan. This plan calls for investments in six categories:

CATEGORIES	TYPICAL BALANCED ALLOCATION
CASH	10 / 20%
EQUITY	15 / 25 %
REAL ESTATE	20 / 25%
HARD ASSETS	4 / 12%
TAX FAVORED	20 / 25%
COLLECTIBLES	5%

Naturally, this allocation will change based on individual circumstances and objectives, economic conditions, and risk taking propensity. Many investment vehicles are available in each category, which is both good and bad. It's important that proper diversification be maintained in each category, so with a wide variety of investments available we can be successful in that important endeavor. However, the confusion of multiple choices in the market place makes it extremely difficult for most people to select that which is proper for their plan.

Many obstacles other than a large assortment of alternative investments confront the investor. Outrageous taxation, shifting tax laws, debasement of currency, and erosion of purchasing power make life a rough road on the way to financial independence.

Most people want to cut taxes, maintain or expand their life style comforts, educate their children and



Pressures of inflation, taxation, and unexpected expenses make financial planning difficult and financial independence an often unrealized goal.

retire in security. However, *less than five percent* are successful in their goal of financial independence. Why do most people miss the goal? It's simple, they try to do it for themselves. It's the same old adage, "if a lawyer represents himself, he has a fool for a client." When people look at their own situation, they are viewing it from the wrong side — the inside.

Everyone needs the perspective of someone else viewing their situation from the outside. A well educated and experienced financial consultant can spot areas of concern, raise questions and coordinate the team efforts of the attorney, accountant, insurance agent, stock broker and trust officer.

This adviser can help determine the risks and rewards of the various insurance and investments available and the difference between investment and speculation. He or she can incorporate the specific planning techniques that fit an investor's temperament, level of income, and/or wealth. Income splitting devices, such as Clifford Trusts and interest free loans; diversification through mutual funds; professional management via limited partnerships in oil and gas, real estate, research and development

and equipment leasing; how and why to purchase hard assets, such as gold, silver and platinum; all require specialized knowledge which is kept continuously up-to-date.

How do you find a financial consultant qualified to be the "captain" of your financial planning team? Usually, the best you can do is to obtain a recommendation from someone you respect who has been satisfied with their adviser. However, certain criteria can be used to evaluate that individual's capacity.

First, look at academic credentials. Either a Certified Financial Planner (CFP) or Chartered Financial Consultant (ChFC), is a must. The CFP designation is issued by The College for Financial Planning after successful completion of six examinations, usually requiring about two years to complete. The ChFC designation is issued by The American College after ten examinations usually covering five years of study. The American College, an accredited institution, also awards the degree, Master of Science in Financial Services, which is the highest academic credential of a financial consultant.

Second, ask about the experience the individual has in financial planning and ask for recommendations from

present clients. Find out if this individual has one or more specializations, such as insurance, investments, accounting, or law. The more knowledge and experience, the better.

Third, find out if your potential consultant is active in one or more professional organizations. If so, how do his or her peers feel about this person?

Last, how do *you* feel about this person? Remember, he or she is the one with whom you will confide all of your confidential financial matters, and intrust the ultimate task of working with you to accomplish your goal — financial independence. □



Donald R. Haas is a Chartered Financial Consultant with a Master of Science degree in Financial Services. A lecturer at Lawrence Institute of Technology in financial services, Mr. Haas is a partner in the firm of Brode, Landsberg, Meisel & Haas, Southfield.

Robert Ellis named dean of engineering

LIT's largest school gets a change at the top

Robert W. Ellis, 44, has been named dean of Lawrence Institute of Technology's School of Engineering. His appointment is effective January 2, 1984.

Dr. Ellis succeeds Dr. Stephen R. Davis who will leave LIT to become provost and dean of the faculty at GMI Engineering and Management Institute in Flint. Davis has been dean of engineering at LIT since 1973.

Dr. Ellis has been a lecturer in mechanical engineering at LIT and senior engineer at the U.S. Army Tank-Automotive Command since 1981. From 1978 to 1981 he was chief operating officer of Detroit Institute of Technology. Dr. Ellis was dean of the School of Technology at Florida International University (FIU) in Miami

from 1972 to 1978, part of the State University system of Florida, was provost of FIU's north Miami campus in 1977, and served concurrently as dean of FIU's School of Business from 1972-74. He has also served in academic and administrative positions at the University of South Florida, and his alma mater, Virginia Polytechnic Institute.

Dr. Ellis received three degrees from Virginia Tech: a B.S. with honors in metallurgical engineering (1962), an M.S. in engineering (1963), and Ph.D. in engineering (1966). He is a 1980 graduate of the Institute for Educational Management at the Harvard University Graduate School of Business.

In announcing the appointment, Dr. Richard E. Marburger, LIT president, praised Ellis' academic, technical,

and industrial background.

"We are pleased to welcome Bob Ellis. His outstanding record of service to industry, government, and the education of young men and women make him a great asset to LIT," said Marburger. "We expect that Dr. Ellis' leadership will enhance and continue to refine the strong programs which have been developed by Dr. Davis and our faculty."

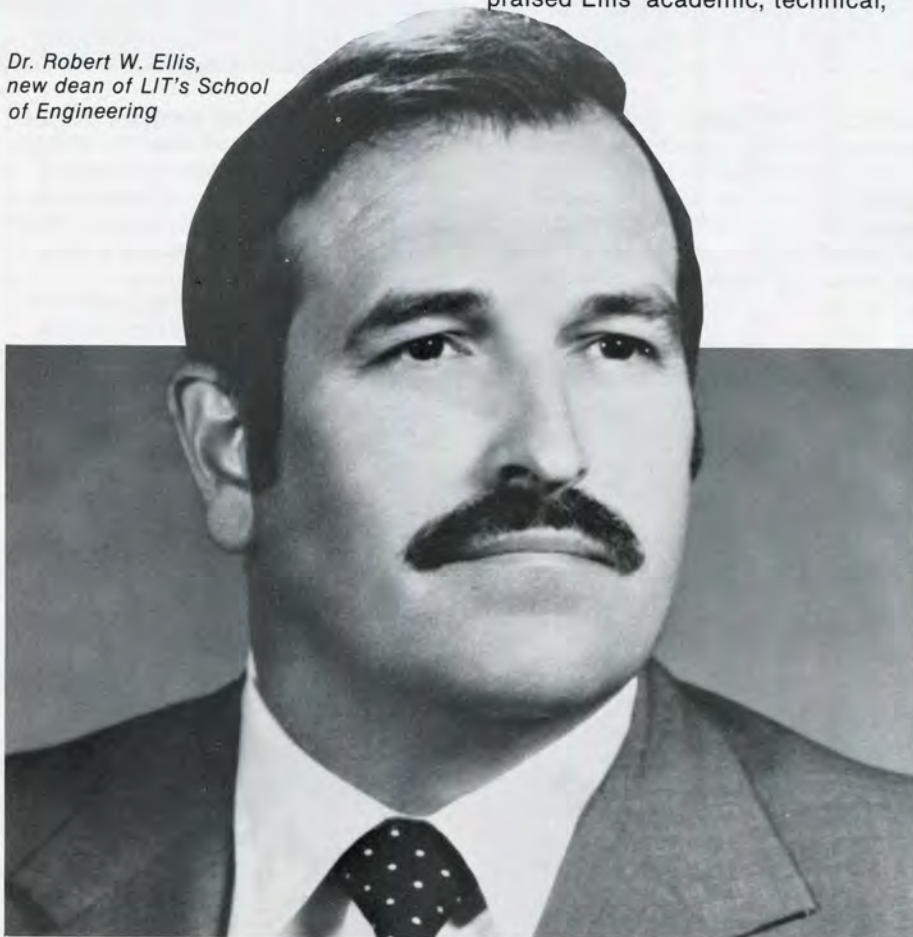
Lawrence Institute of Technology's School of Engineering, enrolling 3,085 students, is one of the largest undergraduate engineering programs in the nation. The oldest of LIT's five Schools, it was founded in 1932. Bachelor of science degrees are offered in mechanical, electrical, and construction engineering. LIT, enrolling 6,230 day and evening students, is Michigan's largest private undergraduate college.

Dr. Ellis has been professionally active in a number of leading national and state engineering organizations, including serving as national chairman of the American Society for Engineering Education's Relations with Industry Division. He was 1979-81 chairman of the Michigan Society of Professional Engineer's Registration and Qualification for Practice Committee, and serves on the accreditation visitors committee for the Accreditation Board for Engineering and Technology. He is a registered professional engineer (PE) in Michigan and Florida.

In 1978, he was named Florida International University's Outstanding Administrator, and he is a member of many honor societies, including Tau Beta Pi. He is an engineering consultant in the fields of materials and structures, metals, product liability, engineering research and development, and mechanical design.

Married, he and his wife, Donna, have four children. They reside in Farmington Hills. □ BJA

*Dr. Robert W. Ellis,
new dean of LIT's School
of Engineering*



Faculty PRO- FILES

Part of a series

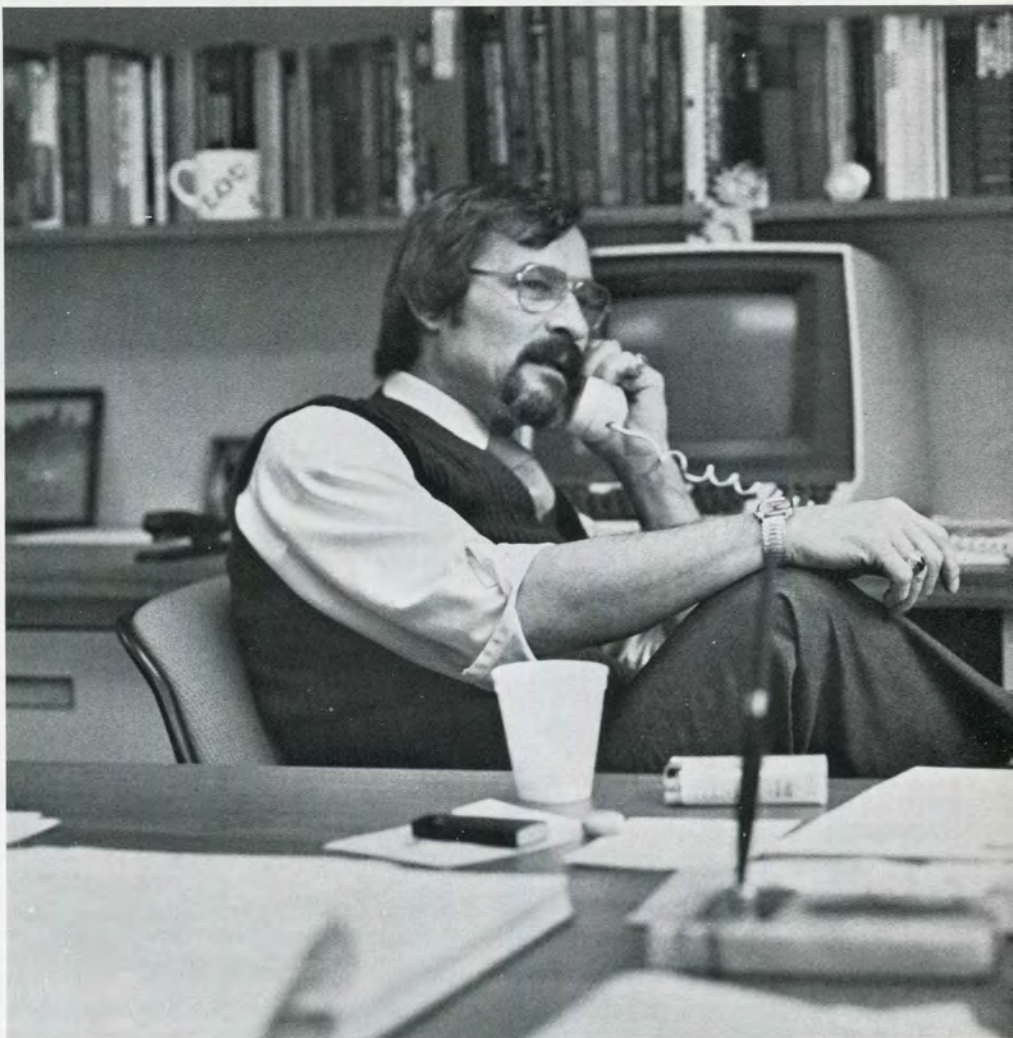
Only a Cubist painter with an ability to simultaneously express different viewpoints could capture the innumerable coexisting aspects of Dr. Louis W. Petro, dean of LIT's School of Management since 1979.

Certainly, a Renaissance painter with his perfect celestial images could not portray the recipient of a bachelors, masters, and doctoral degree who, as a young man, had joined the Air Force because he "didn't want to go to school."

A Rococo painter with his fluffy, playful themes would find it impossible to paint a man with a New York accent who good-heartedly reels off colorful jokes while smoking Kool cigarettes.

And, a Realist painter dedicated to exposing the cold, hard facts would lay down his palette when confronted with a man who believes a university's "job is to teach what should be, not what is."

Yes, only a Cubist painter could do justice to a man who in the 44 years of his life has been a farm hand, a ranch hand, an aircraft controller, an engineer, a professor, a CPA, a man-



agement consultant, and dean of a college — a man who did so much travelling as a management consultant that he "could drive without a map around more cities in the United States than anyone" — a man who has a pet king snake named

Jake, (alias Julius Squeezer,) but also has a picture of Garfield (the orange, lasagna-loving cartoon cat) resting atop his electronic mail terminal and another Garfield toy on his end table because he is, as he calls himself, a "cat fanatic."

"I started reading 'Garfield' when the strip first came out but I didn't realize that he was orange because the cartoon was in black and white," he laughs, "So, I went out and got a grey cat and named him Garfield."



MARINELLI PHOTO

Petro later did obtain an orange cat who became his fishing buddy.

"Gabriel, my fishing cat, is a Maine Coon cat — the kind they used to take on ships across the Atlantic to keep the mice off. He's the only cat I've been able to take on the boat with me because he's not afraid of water," he adds.

Petro is an avid fisherman. He has worn a small gold fish hook on his lapel since last year when it was

presented to him by philanthropist Stanley Kresge. Deeply religious, Kresge wore it to symbolize Jesus Christ's description of the Apostles as fishers of men. Although Petro moves it from one suit to the next, each and every day, he admits his fishing is generally limited to the finnier of God's creatures.

O.K. So he is not a "fisher of men," but he is an educator of men (and women) and he has some very definite ideas about what it means to educate and be educated.

"The function of a college education is not to train you to go out and do a particular job," Petro begins. "If it does that, that's fine, but that's not the objective. That attitude causes problems. Students tend to categorize courses and college experiences as either relevant or irrelevant without the background to do that.

"Many students think that they shouldn't have to study the liberal arts because they aren't relevant to their majors. Those courses are essential because they give students a perspective of the world that they need in order to do anything. I find it disheartening that this attitude is so prevalent because students are really short-changing themselves in terms of an education."

If "job training" is not the objective of a college or university, what is?

"That's a philosophical problem that universities face; that society faces," says Petro. "What is a university's function? Classically, a university is a community of scholars — students and faculty — working together to enhance the knowledge of the human race. Our primary function is to store and disseminate knowledge."

Petro believes that he was asked to be dean at LIT because of his engineering, accounting, industrial, and educational background, aside from previous connections with the College. If it was the technical background that LIT sought, how does Petro apply this "scholastic mentality" definition to programs in LIT's School of Management?

"We categorize our program as a good, solid liberal arts core — then a business core — and then a specialization. It's not the function of LIT's School of Management to merely teach narrow specializations. It's our job to teach principles and concepts, ideas, and ways of thinking."

While the dean indicates that the "relevant and irrelevant" attitude of students is a "national problem," as well as an LIT problem, Petro believes that within that framework LIT students are top notch.

"We have a good, solid, work-oriented, success-oriented student body. They seem to be imbued with the Puritan work ethic and that's healthy because that makes them interested in getting an education in order to become successful."

According to Petro, LIT students pursue higher education for the sake of becoming successful. Why did he eventually pursue higher education even though he admitted he joined the Air Force because "he didn't want to go to school"?

"I always did well in grade school and high school and when I graduated I was offered a couple of scholarships. But, I just didn't know what I wanted to do." Petro continues, "When I got out of the Air Force, I knew I didn't want to be an aircraft controller for the rest of my life so I went to GMI (General Motors Institute). I chose GMI because my twin brother and my younger brother had gone there, and my father was an engineer.

"But once I started college, I developed this insatiable appetite for learning. While I was working on my Ph.D. in information systems and accounting at the University of Michigan, I would spend 60 to 70 hours a week teaching and learning.

"My mother was a teacher and I can remember talking to her when I was in the sixth grade about an inkling I had to become a teacher; but I didn't do anything about it until after I got my M.B.A. (from U of M in 1968). That was when I first came to LIT as a part-time teacher. Although I left LIT in 1970, I kept in touch and it was my colleagues here who advised me to pursue a Ph.D. if I was serious about teaching. I was serious about it and I still am. I should have gone with that sixth grade inkling from the very beginning."

But if he had gone with that inkling from the start, a Cubist painter would not be needed. And, Lou Petro's portrait would not be nearly as colorful. □ UM



On-campus

Fall enrollment up 6.1 percent

Autumn enrollment at LIT reached a record 6,230 in September, figures released by LIT's Office of Academic Affairs reveal. The total is 6.1 percent higher than 1982, itself a record year.

"A bright professional market for graduates, particularly in computer science, engineering, management, and other technical areas contributed to the increase," comments LIT President Richard E. Marburger. "Our modern facilities, excellent faculty, strategic location, and scheduling convenient for working students is helping our enrollment remain at high levels."

Even with the addition of more than 20 new classrooms in the Wayne H. Buell Building last year, Zaven Margosian, dean of Arts and Science, who schedules all classes, indicates that there are several periods each day when no additional classrooms are available on campus.

DAY BACCALAUREATE — FALL 1983

Architecture	665	
Engineering	2,066	
Arts and Science	295	
Management	481	
Special and Guest	74	3,581

EVENING BACCALAUREATE — FALL 1983

Architecture	122	
Engineering	1,019	
Arts and Science	144	
Management	502	
Special and Guest	112	1,899

EVENING ASSOCIATE 750

TOTAL 1983 — FALL ENROLLMENT 6,230

□ BJA

Wanted: alumni achievers

Each year at Commencement, LIT honors distinguished graduates who have made demonstrative, extraordinary contributions to their professions, field of interest, community, or Alma Mater.

If you're aware of a likely candidate, please submit his or her name, your

reasons for nominating, and any available biographical material to: Bruce Annett, Director of College Relations and Alumni Services, Lawrence Institute of Technology, 21000 West Ten Mile Road, Southfield, MI 48075. Nomination deadline is April 15. □

Industry outreach at Pontiac Division

LIT's School of Engineering began a two year computer-aided design (CAD) technology training and education program in September with the Pontiac Motor Division (PMD) of General Motors Corporation.

The program was initiated by Dr. Stephen Davis, dean of LIT's School of Engineering, and Dr. Wayne M. Brehob, chairman of mechanical engineering, after they were informed of a need PMD had to provide CAD technology skills to its detailers and designers. LIT student Fred Bane, of the product engineering group at Pontiac, is coordinating the project along with James L. Birdsey, assistant to the dean of engineering.

"Drafting boards are on their way out industry-wide. Our goal is to teach the Pontiac people to use the computer as an instrument of their imaginations," notes Brehob, adding, "We like to keep communication lines open with the community and working side by side with industry is a great way to do that."

Personal interviews conducted by LIT faculty to determine the special needs of employees resulted in the addition of mathematics and other specialized courses to the program.

Two courses run simultaneously every Tuesday and Thursday evening for three hours throughout six ten-week terms. No classes are scheduled for the summer. LIT faculty are presently teaching courses in mathematics and CAD technology in the PMD administration building in the City of Pontiac. □

Abused children aided by students

Rosalyn Bryant, age four, died last May after months of being brutally tortured by her father and his female companion. To Michael and Kay Eisbrenner, a Livonia couple, Rosalyn became a symbol of all children who suffer at the hands of abusers. They initiated the "Rosalyn Bryant Memorial Fund" to raise money for these helpless victims.

When Paul Pompilius and Mark Schmitt, LIT students, and Lew Moon, director of student activities at LIT, heard an appeal from Mr. Eisbrenner, they dubbed October 10-14 "Rosalyn Bryant Memorial Week" on LIT's campus. Their example in turn spurred Donald Fracassi, mayor of Southfield, to declare October 10-14 "Rosalyn Bryant Memorial Week" throughout the city.

Almost \$800 was collected on campus through food and bumper sticker sales, a cash raffle, and contributions from students, faculty, staff, and campus organizations. Also, an abundance of food, toys, and clothing was donated.

In addition, because of publicity generated by the LIT effort, \$4000 was donated to the fund that week alone and students at Dundee High School initiated fund raising activities in their area.

The funds raised through the LIT effort were used to purchase prescription drugs, food, clothing, and other items to comfort and heal abused children during "the transition stage," (from the time they are removed from their homes until they are placed in foster care). According to Mrs. Eisbrenner, very little is being done during this time period.

"Social workers had to take money out of their own pockets to get medicine for these kids. Provisions just aren't on hand during this crucial time period so someone's got to make them available." □ UM

On-campus

Physics chapter 'outstanding'

LIT's Chapter of the Society of Physics Students (SPS) was one of 31 student chapters nationally to receive the "Outstanding SPS Chapters for 1982-83" award from zone councilors representing the SPS National Council. There are 509 SPS Chapters in the U.S. and Canada.

LIT's Chapter was chosen on the basis of outstanding faculty and outside speakers, films, laboratory tours, chapter projects, social functions, and joint meetings with other chapters. Sandra Bartenbach, Utica senior, is president of LIT's chapter. □

Scholarships for unemployed

Lawrence Institute of Technology is working "side-by-side" with Focus-HOPE Machinist Training Institute in Detroit to provide college scholarships for unemployed Michigan residents.

LIT's School of Engineering has awarded one full scholarship and will award another to students from FHMTI for a four-year college program. The scholarship funds will be drawn from the National Fund for Minority Engineering Students. The recipients will be chosen on the basis of financial need, academic merit, and recommendations from FHMTI.

FHMTI re-trains unemployed area residents by providing them with new, more marketable skills. However, many of these students also have the capacity to further their academic educations and strengthen their technical backgrounds at the college-level.

Richard Maslowski, faculty chairman of electrical engineering at LIT, noted, "Quite a few of these students have the ability to become engineers. We are trying to help by getting them into degree programs at LIT."

Although LIT and FHMTI are two different kinds of institutions with varying goals and motives, they share a common goal in this endeavor according to Suzanne Young, dean of academic affairs at FHMTI.

"We are mutually trying to raise

standards of education. It's as simple as that." □ UM

Milestones

Bernard Carlen, lecturer in LIT's School for Associate Studies for 28 years, died August 20 as a result of a heart attack. Mr. Carlen taught mathematics and industrial engineering.

A 1938 graduate of the University of Dayton, he had been employed by the Burroughs Corporation, and retired from that firm in 1977. As a consultant, Mr. Carlen developed standards for the processing of steel. He is survived by his wife, Rosaline. □

Gregory Cheek has been promoted from assistant to associate professor in the School of Management. A member of the faculty at LIT since September of 1977, Cheek received a B.S. in industrial management and a masters degree in engineering technology from Western Michigan University. □

Dr. Perry E. Gresham, member of the LIT Corporation and president emeritus and distinguished professor of Bethany College, has been unanimously elected president pro tem of the Foundation for Economic Education at Irvington-on-Hudson, New York.

Dr. Gresham said that he will devote as much time as possible to the Foundation until its selection committee has a successor for Dr. Leonard Read, founder of the economic educational institution who died in May.

Dr. Gresham's book, "With Wings as Eagles" (see *LIT Magazine* Autumn/Winter 1980, Vol. 4, No. 1) is now in its second edition. His lectures on a variety of topics have taken him across the nation and his most recent speaking engagements have concerned his special interests in economics and gerontology. □

G. Robert Harrington, vice president for development, has been named a Certified Fund Raising Executive by the National Society of Fund Raising Executives.

Harrington, who joined LIT in 1976, was certified on the basis of both his examination score and his application for candidacy.

The certification program was developed to recognize an individual's experience, accomplishments, and knowledge in the field of fund raising. It is also designed to encourage continued professional development and to urge individuals to bring professional status to the field. □

Stan Harris, director of admissions, has been elected to serve a four year term on the Board of Education for the School District of the City of Royal Oak.

Harris is also an assistant professor of management at LIT. A certified manufacturing engineer, Harris worked for General Motors before joining LIT in 1968.

A graduate of the General Motors Institute where he received a B.I.E. degree, Harris also holds an M.B.A. from Wayne State. In addition, he has completed course work for his doctorate in the WSU College of Education.

Harris is a member of the Wayne State Business Administration Alumni Association Board, the Engineering Society of Detroit, and the Joint High School/College Relations Committee of the Michigan Association of Collegiate Registrars and Admissions Officers, the Michigan Association of Secondary School Principals, and the Michigan Association of College Admissions Counselors. He is also chairman of the Endowment Committee at Cana Lutheran Church in Berkley. □

Timothy Kennedy, admissions counselor, was recently elected to a one year term as President of Oakland Community College's newly formed Alumni Association and was also presented with the first "Meritorious Alumni Award" at OCC.

Kennedy received the award for "having shown expertise as a part-time instructor at this institution (OCC) since 1974" and because he "has most readily played a valuable role in the development of a number of articulation agreements that will enable OCC graduates in pursuit of educational advancement to continue their studies at Lawrence Institute of Technology," according to Robert F. Roelofs, president of OCC.

Kennedy earned associate degrees in liberal arts and emergency medical technology at OCC as well as a B.S. in biological sciences at Michigan State University and an M.S. in the same at the University of Michigan. □

Douglass Koch has been promoted from assistant to associate professor in the School of Management. A member of the faculty at LIT since September of 1980, Koch received a B.S. from the University of Notre Dame, and an M.B.A. from the University of Nevada. He is also a doctoral student at the University of Michigan. □

Dr. Richard E. Marburger, LIT's chairman, president, and chief executive officer, is being honored December 15 when his alma mater, Wayne State University, presents him with the "Distinguished Alumni Award." Dr. Marburger holds three degrees from Wayne — a B.S., M.S., and Ph.D. — all in physics. □

On-campus

Celebrate! Presidents Club marks 10 years

LIT's Presidents Club marked a decade of service October 29 during a gala evening of dinner and dancing in the Wayne H. Buell Building on campus. In remembrance of the group's founding, the original dinner menu of 10 years previous was duplicated, right down to the \$5 tariff for a delicious multi-course, prime rib meal.

More than 300 members, the largest group to attend since the club's first dinner, were on hand to celebrate. The original speakers Dr. Ben F. Bregi, ME'37, Dr. Perry E. Gresham, member of the LIT Corporation, and Ray C. Kooi, retired executive director of the Ford Motor Company Fund were the featured speakers along with Dr. Richard E. Marburger, LIT president, who gave a State of the College address and G. Robert Harrington, vice president for development, who updated the group on LIT's funding projects.

In recognition for their outstanding efforts in recruiting new members, alumni Arthur L. Kelley, ME'47, and Victor L. Kochajda, EE'52, received special plaques from Presidents Club President Alvin R. Prevost, ArE'51.

President Prevost then recognized the 60 new members who joined the Club during the past year.

New members are: Mr. and Mrs. Alvin W. Alexandrowicz, Mrs. Frances A. Annett, Mr. and Mrs. Jack E. Armstrong, Mr. and Mrs. Richard Belecki, Mr. James L. Birdsey, Mr. and Mrs. Earl W. Blohm, Mr. and Mrs. George F. Bowden, Mr. and Mrs. William E. Butts, Mr. and Mrs. A. Keith Carpenter, Mr. Rex A. Casper, Mrs. Grace A. Chamberlin, Mr. and Mrs. Gary L. Christoson, Mr. and Mrs. Gerald Cuper, Mr. and Mrs. Richard F. Gracey, Mr. and Mrs. Nels L. Hansen, Mr. and Mrs. Irwin T. Holtzman, Mr. and Mrs. Anthony Horne, Mr. and Mrs. Paul M. Jocham, Mr. and Mrs. Aloysius J. Kochanski, Mr. and Mrs. Hal J. Koss, and Mr. Peter J. Kuchta.

Others are: Mr. and Mrs. Lawrence J. Lacey, Mr. and Mrs. William La Gosh, Mr. and Mrs. Lawrence A. Lenski, Mr. and Mrs. Roger V.

Leonard, Mr. and Mrs. Robert F. Luppino, Mr. and Mrs. George D. MacMunn, Mr. and Mrs. Ben C. Maibach, Jr., Mr. and Mrs. Alex Manoogian, Mr. and Mrs. Richard S. Maslowski, Mr. John A. Mayott, Mr. Ralph W. Michelson, Mr. and Mrs. Michael T. Minasian, Mr. and Mrs. Philip V. Mohan, Mr. and Mrs. Leslie Mollon, Mr. and Mrs. Joseph E. Muccioli, Mr. and Mrs. Larry Mumford, Mr. and Mrs. Erwin Mutnick, Mr. and Mrs. Dennis R. O'Connell, and Mr. and Mrs. Richard Ogletree.

New Presidents Club members also include: Mr. and Mrs. William K. Pence, Mr. and Mrs. Gerald W. Rein,

Mr. and Mrs. David S. Robinson, Mr. and Mrs. Donald W. Ruth, Mr. and Mrs. Harry Sakjas, Mr. and Mrs. Louis J. Santioni, Mr. and Mrs. Abbott K. Schlain, Mr. and Mrs. Donald J. Smith, Dr. and Mrs. Howard B. Sobel, Mr. and Mrs. Chris J. Spaseff, Mr. and Mrs. Larry E. Sundgren, Mr. and Mrs. Angelo Tata, Mr. and Mrs. Eugene A. Tauriainen, Mr. and Mrs. David C. Travis, Mr. and Mrs. Robert H. Van Allen, Mr. Thomas J. Varga, Mr. and Mrs. Clarence I. Vellner, Mr. and Mrs. James T. Wilson, Mr. and Mrs. Richard A. Yee, and Dr. and Mrs. Ralph E. Younkin. □ BJA



Top: The Sun Messengers band helped the LIT Presidents Club celebrate a decade of service to the College. **Above:** (L to R) Art Kelley, ME'47, and Vic Kochajda, EE'52, receive special recognition for their recruitment of new membership this past year. Presidents Club President Al Prevost, ArE'51, presented the awards.

Alumni Notes

1933-69

Emmett J. Horton, AeE'42, has returned to the U.S. after a five year assignment as the director of Ford Motor's North American Research Liaison Office. He is director of Ford's Technical Staff and resides in Dearborn.

Steve M. Slaby, ME'43, was presented the 1983 "Distinguished Service Award" by the Division of Engineering Design Graphics of the American Society for Engineering Education. A leader in the division for 30 years, Steve has been, said the division, "an active scholar and author in the area of three and four dimensional descriptive geometry. . . He is probably the leading authority in four dimensional geometry." He is a professor and former chairman of graphics at Princeton University. Congratulations, Steve!

Richard W. Hogan, EE'48, has retired as staff engineer with Commonwealth Associates Inc., Jackson. He is studying yacht design and continuing radio amateur activities.

Larry Vincent, EE'50, visited the campus in August to say "hello". He's product engineering manager for I-T-E Electrical Products of Spartanburg, SC. His firm is a division of Siemens-Allis, Inc.

Alvin R. Prevost, ArE'51, has been elected president-elect of the Detroit Chapter of Construction Specifications Institute. The Detroit chapter has more than 300 members representing engineering, architectural, contracting, and manufacturing firms. Al is also president of LIT's Presidents Club.

Emile Mortier, P.E., ArE'53, has a practice of civil, structural, and fire protection engineering and architecture in Eugene, OR. His firm has seven employees.

Two holes-in-one were made this past summer by **Paul M. Jocham**, IE'54. Stonycroft Golf Club was the site of the rare events. Happily, Paul's been in such a great mood that he's funding a scholarship at LIT. Way to go, Paul!

Thomas N. Easterday, IM'57, is marketing and new business development manager in Ford Tractor's business department. He previously has held various marketing positions at Ford Tractor and North American sales operations, and joined Ford Tractor in 1963 as a financial analyst. He and his family reside in Rochester.

Henry Selewonik, IM'57, proudly notes the

June graduation of his daughter, *Alice*, IA'83, who is now studying at LIT for her BA degree. Hank is an Alumni Association director and chairs the Reunion Dinner-Dance committee.

Anthony J. Polisano, IM'58, has been promoted to vice president, Bank Investments Division, with responsibilities for wire transfers at Manufacturers National Bank of Detroit. He joined the Consumer Loan Department at Manufacturers Bank in 1963 and transferred to the Wire Transfer Division in 1972, where he was named an officer in 1974. Anthony and his family reside in Farmington Hills.

Allan D. Breyer, IM'62, has been elected first vice president of First Federal of Michigan. He was previously a vice president and acting controller, and manager of computer systems. He's been with First Federal since 1964.

Xerox Corp. has named **William A. Drawe**, ME'62, vice president and general manager of the mid-volume business unit of the Corporation's Reprographic Business Group. Bill, who joined Xerox in 1962, will relocate from London, CT, to Rochester, NY, with his wife and two of his five children.

Carl Ballard, ME'68, is chief engineer at Kelsey-Hayes Corp.

Thomas E. Hansz, AIA, Ar'68, is employed with CRS/Caudill Rowlett Scott, Houston, TX. The firm is involved in projects which range from automated manufacturing facilities, to micro-chip factories of the future, to sophisticated hi-tech offices and laboratories.

Bruce W. Wallace, ET'68, has been promoted to product manager, manual products, of Micro Switch division of Honeywell. Since 1979, he has been branch sales manager in New York.

Chrysler Corp. has announced the appointment of **S. J. (Sam) Bonanno**, ME'69, as plant manager of the company's Belvidere, IL, Assembly Plant. The Belvidere plant assembles the front-wheel-drive passenger cars Plymouth Horizon, Plymouth Turismo, Dodge Omni, Dodge Charger hatchback and Shelby Charger, as well as the Dodge Rampage and Plymouth Scamp front-wheel-drive pickup trucks. Prior to his present position, Sam was production manager of the Belvidere plant. He joined Chrysler in 1965 and has held positions in process control, produc-

News for Alumni Notes

Use the space below to send us news about you or your LIT friends. Tell us about honors, promotions, marriages, appointments and other activities. Moving? Send us your new address. Check here if this is a new address.

Name _____ Major and Class year _____

Street _____

City _____ State _____ Zip Code _____

Slaby
'43Polisano
'58Breyer
'62

tion control, quality control, product design, and corporate quality. Before going to Belvidere in January, 1982, he was plant manager of truck assembly in Chrysler de Mexico Operations.

Ward W. Sparks, EE'69, of Farmington Hills has been named winner of Detroit Edison's highest employee honor — the Alex Dow Award — presented for outstanding contributions to the company and community. His award was based on his development of a device with the potential of detecting equipment defects which could cost Edison up to \$1 million to repair. He is a senior engineer in Edison's Electrical System Dept. Good work, Ward!

1970-79

Gary J. Binienda, ME'70, completed requirements for an M.B.A. degree in June from Wayne State. Gary is a supervisor at Chrysler Corp. and is responsible for the design, development, and release of production front wheel drive automatic transaxles.

John Dzurman, AIA, AR'70, president of Rochester-based Dzurman Associates, Inc., architects/planners, has been appointed an adjunct instructor at Michigan State University. His responsibilities include advising and lecturing graduate students enrolled in the College of Education about architecture in general as well as the role of architecture and the architect in education-related careers.

David A. Sepesi, ME'70, is Michigan District sales manager for Thompson Industries, Inc., of Port Washington, NY. He works in Rochester.

James R. Storfer, IM'70, has been named assistant treasurer of ANG Coal Gasification Co. in Detroit. Jim is a director of the LIT Alumni Association and resides in Troy.

Tim O'Connor, ME'71, is in his third year of providing consulting services to architects and engineers on computers and computer graphics. He presented a manual and spoke at the American Consulting Engineers Council's CADD seminar on October 6 in Williamsburg, VA. His company is O'Connor Consulting, Inc., in Union Lake.

James D. Wiggins, ME'71, has been appointed plant manager of Richmond Gear, the Richmond, IN, facility of the newly-formed Gear Products Division of Household Manufacturing. He holds an M.B.A. from Ball State University. He, his

wife, Connie, and four children reside in Richmond.

Jon LeBlanc, IM'72, president of Fenton Machine Tool, recently moved his firm to expanded facilities in Holly Township. His 55-employee company manufactures automotive suspension parts.

David A. Petke, IM'72, married Mary Crawford in August. They reside in Dearborn.

William Simmons, IM'72, CE'83, has been promoted to staff engineer, assistant, at American Geotechnical and Hydrologic Engineers (division of Construction Testing and Inspection, Inc.). He lives in Madison Heights.

Campbell-Ewald advertising agency has promoted **James J. Ahee**, IM'74, to vice president. He resides in Harper Woods.

Joseph L. Little, IM'74, has been appointed manager of the Saline A & P Supermarket.

Danny Murray, P.E., CE'74, is president of D.W. Murray Building Contractors in Wyandotte. The firm handles construction, and commercial and industrial engineering. He resides on Grosse Ile.

Michael Hansel, MT'75, IM'80, of Canton Township has been named manufacturing manager of Hoover-NSK Bearing Co.

Congratulations to **Derek W. Marshall**, IM'75, who won the "Purchasing Agent of the Year" award for his employer, Hygrade Food Products, Corp.

Lyle Reibling, Ma'75, a senior engineer with Lear Siegler Instrument Division in Grand Rapids, has been awarded an M.S. in computer science from Western Michigan. In addition to software project engineering responsibilities at LSI, Lyle is also working on the Ph.D. in computer science from Michigan State. His research interests are in the area of artificial intelligence.

M. Syamak Shafi-Nia, EE'75, has been awarded a Juris Doctor degree from Western State University College of Law in Orange County, CA. Syamak also received a master's degree in computer engineering from the University of Michigan in 1978.

Michael C. Meldrum, AIA, Ar'76, a principal of MMA Associates, Inc., has announced his firm's selection as consultants for the coordination of retail design and construction for New Center One, a new office center in Detroit. His office is

in the Fisher Building.

Lynn M. Silkworth, AIA, Ar'76, BA'76, is vice president of James E. Gibson, architectural associates in Florida. He is a registered architect in Florida and is certified by N.C.A.R.B. Currently, he is project manager on a \$9.5 million condominium complex. He lives in Vero Beach.

Alan Fendt, IM'77, is the third generation of his family to run Fendt Builders Supply, Inc. in Farmington. The concrete and masonry supply company has been in operation nearly 60 years.

Jack W. Olmstead, CE'77, is a project manager with Apartment Contracting Corporation in East Lansing. APTCO is a division of First Centrum Corporation and builds apartment projects in Michigan and Georgia.

Kenneth Stewart, CE'77, has passed state licensing tests to become a registered professional engineer. He is a civil engineer for the Detroit Water and Sewer Department.

A. Mark Sutton, MT'77, IM'81, has been named Michigan's resident area technical liaison for Data Instruments and E and E Engineering, Inc. His activities will include application engineering, analysis of industrial requirements, installation supervision, troubleshooting, and coordination of marketing. His employers manufacturer and distribute press room controls and monitoring equipment.

John S. Sweda, CE'77, recently became a registered engineer in the State of Michigan. He is also licensed as a residential builder, and received an M.S. degree in civil engineering from Michigan Technological University in 1979. He is employed as a design engineer in the Bulk Systems Division of the Jervis B. Webb Co., headquartered in Farmington Hills.

Larry S. Boyd, BA'78, has accepted a position with Burroughs Corp. as senior financial analyst of the Business Information Group at the firm's world headquarters in Detroit. He is also a C.P.A. Larry writes that he is "proud to be a part of the ever-increasing alumni body of LIT and that he promotes the College whenever the opportunity arises." Thanks, Larry!

Mark A. Oppenhuizen, AIA, Ar'78, has been named vice president and a partner in the firm of Reid and Associates, Architects, P.C. Reid and Associates has offices in Grand Rapids and Vero Beach, FL. Mark resides in Grand Rapids.

Wallace
'68Bonanno
'69Larys
'83

Lawrence J. Ponka, IM'78, has been named a manufacturing engineer at GM's new Lake Orion plant. He graduated from Central Michigan in May with an M.A. in industrial management, and appears in *Who's Who in the Midwest* and *Who's Who in Finance and Industry*. He resides in Rochester.

Stephen J. Drake, BA'79, has received an M.B.A. from University of Illinois' Executive Program. He resides in Champaign.

David T. Sobota, Ar'79, BA'79, has been named a partner and vice president in the firm of Reid and Associates, Architects, P.C. The firm has offices in Grand Rapids and Vero Beach, FL. He is a registered architect in both Michigan and Florida and is N.C.A.R.B. certified.

James B. Webster, III, ME'79, has graduated from Michigan State with an M.B.A.

1980-83

Mark C. Abanatha, Ar'80, BA'82, is an associate with Alexander V. Bogaerts and Associates, P.C., architects and planners of Birmingham.

John S. Enkemann, Jr., AIA, Ar'80, has been named an associate at Albert Kahn Associates, Inc., architects and engineers. John, a registered architect, joined the firm in 1978. A member of Kahn's architectural development department, he is serving as project architect for the Datsun light truck manufacturing plant, Smyrna, TN, for Nissan. John and his wife, Wendy, and their son, reside in West Bloomfield.

Gary Epstein, ME'80, married Joan Pless in June. The couple reside in New Orleans where Gary works on the Space Shuttle's external tank for Martin-Marietta Aerospace.

David M. Horschig, Ar'80, has been promoted to technical service and development architect of the construction products department at Dow Corning Corp. in Midland. He joined their facilities engineering staff in 1980 and married his wife, Jill, in December 1980. Involved in the intern architect program, additional job responsibilities include curtainwall consulting, structural silicone grazing consulting, technical seminars, attending project mock-ups and job site inspections across the U.S.A. Dave and Jill moved to Bay City in August.

Jeffrey T. Mast, BT'80, and Catherine Samosik were married in October, 1982. The couple reside in Northville. Jeff works

for the City of Royal Oak.

Gregory A. Skynar, ME'80, married Kim Ladzinski on October 24, 1981. The couple resides in Livonia. Gregg is employed by the Japanese firm, American Yazaki, Corp., as an engineer in its instrumentation division.

Robert Waldenmeyer, AR'80, and Carol Cusmano were married in September. He works for H.H. Robertson Co., in Connersville, IN. The couple reside in Newcastle.

Lynn Connor, BA'81, has been promoted to east central region manager in the Sales Division of the Advanced Care Products Division of Ortho Pharmaceutical Corp. Since 1980, he served as area manager for east central. Lynn joined Ortho in 1979 as an account manager in the Consumer Products Division. He is a resident of Canton.

Venoy McAndrew, Ar'81, married Kathleen Bullard on June 25. He is employed by Abonmarche Consultants of Benton Harbor and resides in St. Joseph.

James McVicar, ME'81, of Novi has been named to the "Million Dollar Club" at Detroit Diesel Allison division of G.M. in recognition of achieving \$1 million in cost savings for the division. He is a senior project engineer.

Catherine F. Reed, BA'81, and **Steven M. Voorheis**, BA'81 have married and reside in Union Lake. Catherine works as a computer programmer for Ford Tractor and Steve is a sales representative for J. L. Hudson.

Michael Sucharski, ME'81, is an operations engineer with Columbia Gas of Ohio, Inc. He resides in Columbus, OH, with his new wife, Barbara.

John F. Watton, ME'81, received his M.S. in metallurgy from the Massachusetts Institute of Technology in June and is now a candidate for the Doctor of Science degree in the materials science and engineering department at MIT. He resides in Belmont, MA.

Donald J. Andreski, Ar'82, BA'83, has joined the staff of John Dziurman Associates, Inc., architects/planners in Rochester.

Rickey J. Archer, Ar'82, married Deborah Bellew in April. They reside in Midland.

Dean M. Cichock, ME'83, has accepted a position with Sperry Flight Systems of Phoenix, AZ.

Richard Larys, EE'83, has been promoted to sales and marketing department account manager at Kelsey-Hayes Company. Associated with the company since 1974, Richard will be responsible for sales of electronic products. He, his wife, Janice, and their three children reside in Dearborn.

Randall L. Murphy, Ma'83, of Lake Katrine, NY, married Sandra Ramsey, May 28. He works for IBM in Kingston, NY.

In memoriam

James F. Gilliam, Cert'34, of Detroit, February 3, 1983.

David W. Ormes, Cert'34, of Southfield, July 18, 1983. Survived by his wife, Vivian, two sons, and a daughter. David also studied engineering at the Detroit Institute of Technology, Wilbur Wright Trade School, and Wayne State University. He worked at the U.S. Army's Detroit Arsenal in Warren for 25 years before joining Chrysler Corp. as a refrigeration engineer in 1965. He retired in 1970.

William L. Eskuri, EE'41, of St. Louis.

Othello Hillman, ME'47, of Daytona Beach, FL, June 22, 1983.

Burton P. Harrison, Jr., ME'48, of Plymouth, September 15, 1982.

Michael Durella, ME'49, of East Detroit, April 3, 1983.

John Krammerer, ME'50, of Randolph, NJ, June 12, 1982. He was supervisor, ordinance design engineering, assigned to the Picatinny Arsenal in Dover.

Albin H. Tunia, CivE'50, of Oceanside, CA, August 6, 1983.

Richard Castle, CivE'54, of Drayton Plains.

Joseph R. Franchi, ME'59, of Dearborn, May 13, 1983. He was a manager for Ford Motor at the time of his death. He is survived by his wife and two children.

Donald R. Monroe, IT'60, of Tulsa, OK, May 17, 1983.

John H. Diamond, IM'72, of West Bloomfield, April 4, 1983.

Timothy W. South, EE'74, of Ferndale, March 5, 1983. He was a sales representative for IMF Foundry. Tim is survived by his wife and son.

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ADDRESS CORRECTION REQUESTED

Coming up!

Addresses by visiting speakers are open to students, alumni, and friends without charge. However, because lectures must occasionally be rescheduled, visitors are encouraged to call the College Relations Office, (313) 356-5051, to confirm attendance.

First Thursday of every month through May, Detroit Metropolitan High School Mathematics and Computer Club (DMHSMC²). Sponsored by the School of Arts and Science. Sci. Aud.; 7 p.m.

December 8 Tau Beta Pi and Eta Kappa Nu Initiation/Dinner at Petruzzellos.

December 8 Historic Preservation: Curatorial Management of the Built World, James Marston Fitch, New York architect. LIT Arch. Aud.; 7:30 p.m.

December 14 Constructing Efficient Fireplaces, Santa Claus, Masonry Institute of Michigan. LIT Arch. Aud.; noon.

December 26-30 College closed for winter break

January 3, 1984-February 23 Lumbermen's Short course. School for Associate Studies.

January 18 Residential Insulation Systems, William Waterston, Owens/Corning Fiberglas, speaks on the coldest day of the year. LIT Arch. Aud.; noon.

January 18, 20 Registration, Evening College baccalaureate programs, second term. Classes begin January 23.

January 19 Recent Works, Barton Myers, Toronto architect. Arch. Aud.; 7:30 p.m.

January 24, 26 Registration, Evening College associate programs, second term. Classes begin January 31.

January 25 Window Insulation Products-Interior and Exterior, Bill Powell, Appropriate Technology Corp., and Michael Falahee, American Reflexa Shutter Corp. Arch. Aud.; noon.



The LIT tie

Perfect for holiday gift giving, birthdays, and other special occasions — official Lawrence Institute of Technology neckties sporting the College seal in white on a navy blue background. These high quality silk/polyester ties, in a classic club pattern, are available by mail from the LIT Bookstore for just \$10.50, including postage and handling.

Send check or money order (made payable to "Lawrence Tech Bookstore") to LIT Bookstore, 21000 West Ten Mile Road, Southfield, MI 48075. Allow 3 weeks for delivery. Visit the bookstore personally and view the wide variety of other gift items available. A 10% discount on many items is offered to Alumni Association members presenting current membership cards.

January 26 American Society of Civil Engineers Student Night, alumni, professionals, and area university students welcome. LIT Campus Affairs and Activities Center; 5:30 p.m.

February 1-April 19 Applications for 16th Annual Summer Science Institute for high school juniors will be accepted. SSI runs June 18-July 27. Contact School of Arts and Science.

February 2 New Directions in Architecture, San Francisco architect John Carl Warnecke. LIT Arch. Aud.; 7:30 p.m.

February 28, 29 Registration, Day College baccalaureate programs, third term. Classes begin March 1.

March 15 Lecture by visiting professor, Ken Frampton from New York. Arch. Aud.; 7:30 p.m.

March 21 Codes and Ordinances concerning fire and accessibility, Robert Williams, code consultant. Arch. Aud.; noon.

March 29 Design by Creative Ideas, Los Angeles architect, James Luckman. Arch. Aud.; 7:30 p.m.

April 4 Alternative Roofing Systems, Buzz Thorpe, Ben T. Young Co. Arch. Aud.; noon.

April 5 Lecture by visiting professor, Ken Frampton from New York. Arch. Aud.; 7:30 p.m.

April 11 Michigan Spelling Bee Regional Championship sponsored by *The Detroit News* and LIT. Fifth through eighth grade students from throughout eastern and northern Michigan will compete. Sci. Aud.

May 5 Alumni Reunion Dinner-Dance. Details to come.

May 5, 6 All-Campus Open House. 11 a.m.-5 p.m. Saturday, 12 noon-5 p.m. Sunday.

May 6 Fourteenth Annual Mathematics Competition for High School Students, sponsored by the School of Arts and Science. Sci. Aud.; 1:00 p.m.