

Lawrence

INSTITUTE OF TECHNOLOGY



Magazine

The colorful world of Prof. Harold Linton

The 'Spirit of Lawrence Tech' returns

Sushi and Chevrolet: Alumnus John Weber in Japan

Plus life at 'Larry Tech,' alumni news, and more!

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About the cover: Harold Linton, professor of architecture, is stressing the use of color as a means of adding interest, spatial dimension, and life to the built environment. His story begins on page 6. Photo by Walter Bizon, BA'77.

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Nearly 40 years after its inception, one of LIT's best known student projects comes home to campus.

Here's the story of the plucky little midget racer given a second chance to soar

The 'Spirit' returns!

Based on a story by Robert F. Pauley

World War II curtailed sport flying in the United States. But, as the war drew to a close and military personnel returned home, many of them were anxious to resume their aviation education and activities.

Lawrence Institute of Technology had ceased to offer an aeronautical engineering course after 1941. Most LIT students had joined the service and Randall Chapman, AeE'39, who had been head of the aeronautical engineering department at that time, left the College to join "Jack" Laister, AeE'38, and become chief engineer of Laister-Kauffmann, building military gliders patterned after the LIT *Yankee Doodle*. (See *LIT Magazine*, Spring 1985.)

By 1947, however, it was decided to again offer aeronautical engineering at LIT and George Martin was brought in to serve as acting head of the department. Martin was studying aeronautical engi-

neering at LIT under "Randy" Chapman but before graduating had joined Chapman at Laister-Kauffmann in St. Louis. Later, Martin returned to Detroit to complete his education and received his degree from Detroit Institute of Technology in 1945.

When Martin was hired to re-activate the LIT aeronautical engineering department he was relatively young, only 26 years old, but he had gained practical experience in the aircraft industry as well as experience teaching ground school courses to student pilots at Lawrence Tech.

The returning veterans who enrolled

as LIT students were anxious to form a new Aero Club and to resume the flying club activities as in the pre-war years. Martin proposed that the club members build a sailplane and continue the sport of glider flying that had earned the College such a good reputation before the War. Many of the students, however, were ex-military pilots or crew members and some felt that gliders were a bit too "tame" for them and wanted to work on something more exciting.

By coincidence, at about the same time the Professional Race Pilots Association had announced the creation of a new class of airplanes for air racing using stock 190 cubic inch engines with further rules limiting weight and wing area aimed at promoting safe design. Races for this "midget" class were initially sponsored by the Goodyear Tire and Rubber Company and hence the airplanes became known as "Goodyear Racers."

(continued)



In this 1947 photograph, (L to R) Jack Walden, ArE'49, Charles Vranian, ME'49, and Prof. George Martin work on the tail section of the Spirit of Lawrence Tech. The tail was the first aircraft part assembled by the student builders.



Clad in its original all-white paint scheme, the Spirit's twin boom, rear engine configuration made it unique among other planes competing in the 1949 Cleveland Air Races. To acquaint students with the basics of aircraft construction, sheet aluminum, tubular steel, and wood were used in building the plane. A large wing area assured safety but reduced air speed.

ROBERT PAULLEY COLLECTION

The small size and low cost of these racers allowed the "little guy" to participate in air racing and a number of the LIT students expressed a desire to build and race such an airplane. Thus it was that the LIT aeronautical engineering students embarked on a project to design, build, and race a midget Goodyear-type racing plane.

The first step in any design is to decide upon the general configuration to be followed and so the LIT students set about analyzing various ideas under the direction of George Martin. By making "trade-off" studies of several midget racer designs, they arrived at the twin-boom pusher arrangement which offered several advantages. The PRPA rules specified that all racing planes in that class must have a fixed two-wheel landing gear which, in most conventional designs, produced a considerable amount of drag. With a twin-boom configuration the two wheels could be located in tandem inside a keel under the short pod-like fuselage giving a semi-retracted effect which would reduce the frontal area drag. (Actually, only one wheel was needed with this layout since a tailwheel was located at

the end of each tail boom and the second main wheel was included in the design only to comply with the PRPA rules.)

Martin arranged the aero curriculum at LIT so that each design course worked on a major element of the new racer design. In the aerodynamic courses most of the performance and stability problems were involved with the racer. In the stress courses the load factors, the aerodynamic and landing load conditions, the load distribution on the wing and tail and other problems involving the racer were worked out by the students and the structure was sized and designed to take the various loads. These calculations were then proven by actual static tests in the stress lab

courses by applying sandbag loads to sample parts.

Detail design of the airplane was carried out in the aircraft design course and before long the students had compiled a very complete analysis and set of construction plans for the new design. Now all that remained to be done was to build the airplane.

Money to build the airplane, which was nicknamed the *Spirit of Lawrence Tech*, was obtained by collecting \$1 donations from LIT students. In this manner almost \$1500 was collected — which was about \$400 short of the actual construction costs. The difference was made up by a College grant from President George Lawrence and from money left over from the old glider club.

Construction was started during the Christmas holiday of 1947 by members

The 1949-50 aero class modified the plane by adding more conventional tricycle type landing wheels and repainted the plane in the College colors, blue and white.



GEORGE MARTIN COLLECTION

The Spirit rounds the course pylon during the 1949 Cleveland Air Races. The plane, still being fine-tuned by its student builders, was flown from Detroit to Cleveland and arrived to register for the races in the nick of time.



On display outside the original College building in Highland Park this 1950 era photo shows off the Spirit's sleek profile.

of the Aero Club as an extra-curricular activity starting with the tail surfaces and two tail booms. But by the time these items were completed, a new aero engineering class had started at LIT and many of the new students were anxious to build a glider so that they could do some flying. As a result the racer project was shelved during 1948 while the students built and flew a Midwest Utility glider.

In 1949 the Aero Club members returned to the racer project. By that time the original group of students had graduated and the new building group was composed of those who had gained experience building the glider.

During 1949 construction continued on the project without further interruption under Martin's direction, another faculty member, John Locklin, and about eight or ten active students. That group put in long evening hours and worked through the summer of 1949 aiming for entry in the Cleveland Air Races in September of that year. Jack Walden, AeE'49, an ex-Navy pilot, had originally been selected as the pilot. He graduated and another student was selected to fly the racer, Carleton ("Buz") Ambler, AeE'53, an experienced ex-P-51 fighter pilot.

On a Friday afternoon in August, just one week before the qualification runs were to be held in Cleveland, the racer was assembled at Wayne County Airport. It was painted all white and was assigned the FAA registration N-138C. Number 29, assigned by the Pilots Association, was painted on each side of the nose. The fuselage construction was

of welded steel tubing for the primary structure supporting the pilot, wing, tail booms, engine and landing gear with smaller diameter steel tube stringers used to give shape to the forward portion. The entire structure was fabric covered.

The tail booms were nine feet long monocoque aluminum tubes tapering from a 9 inch ellipse at the front end to a 4 inch diameter circular cross-section at the rear. The tail surfaces were of steel tube and aluminum sheet construction with fabric covering. The wings were of wooden construction, partially skinned in plywood and covered with fabric.

The wing span and length were each 20 feet and the wing area was 74 square feet, somewhat larger than the minimum 66 square feet specified in the PRPA rule book. The Spirit weighed 590 pounds empty and the power plant was an 85 hp Continental engine driving a pushing propeller.

Test flights were made at Wayne County Airport by pilot Ambler and the only problem encountered was overheating which was cured by adding baffles to improve the air flow over the cylinders. The flight characteristics proved to be excellent and so on Wednesday, August 31, Ambler flew the airplane to Cleveland to enter the races, arriving there just in time to beat the entry deadline.

The Spirit of Lawrence Tech qualified at Cleveland at a speed of 127.9 mph and on Saturday, September 3, 1949 was scheduled to enter its first

race. Ambler had earlier experienced some difficulty maintaining directional stability during take-off and so asked for two wing-men to guide his wing tips during the close race-horse take-off to insure that he would not veer over into another racer. This was not allowed since the rules permitted only one assistant to each airplane and so the Spirit was withdrawn from that race. It was later flown successfully in the Consolation Race on Monday and came in 8th, winning the grand sum of \$68. Following the races, Ambler flew the airplane back to Detroit where it was disassembled and returned to the LIT workshop.

During the 1949-50 academic year it was decided to modify the Spirit as a school project for that year's aeronautical engineering class. The most noticeable change was a switch to the more conventional tricycle landing gear. In addition, the airplane was re-painted in LIT's school colors, blue and white. At the same time the nickname was changed to Chappy in honor of "Randy" Chapman, who had been killed in 1945 while performing aerobatics in the Yankee Doodle glider.

In its new configuration the racer participated in the 1950 and 1951 National Air Races held at Wayne County Airport in Detroit. Although it was able to qualify, the airplane was no longer competitive with its large wing-area and drag producing tricycle landing gear and was only flown in the races for fun and experience.

In 1953 LIT phased out the aero-
(continued)



COLLEGE RELATIONS ARCHIVES PHOTO

Michigan Governor G. Mennen "Soapy" Williams tries out the Spirit's cockpit during the 1950 Open House at the old campus in Highland Park. Looking over Williams' shoulder is then-LIT President E. George Lawrence, who was an enthusiastic supporter of the student project.

nautical engineering department due to a decline in the number of aeronautical engineering students and George Martin moved to Huntsville, Alabama to work on the Redstone Missile Program for Chrysler Corporation. When he left the College, President Lawrence sold him the *Chappy* racer for "one dollar and other considerations" since Martin had actually spent a good deal of his own money converting to the tricycle landing gear and making the other modifications. The racer was then taken by truck to Alabama where Martin flew it regularly for a number of years.

In the early 1950's Dr. August Raspet of the Mississippi State University was conducting a series of experiments in an attempt to improve the aerodynamic efficiency of sailplanes and powered airplanes. George Martin was familiar with Raspet and his experimental program and so when he learned that Raspet wanted a pusher type airplane to study ducted propeller ideas, Martin sold the LIT racer to Mississippi State in 1957.

After putting the plane through the test program for which it was purchased, Dr. Raspet abandoned work on *Chappy* and the plane languished at Mississippi for more than a decade, stripped of its engine and rapidly deteriorating.

In 1971, Charles Stephens of Grandville, near Grand Rapids, read about the plane in a flying enthusiasts magazine. Checking around, he learned it was for sale.

"I sent in a bid for \$101," he recalls. "Soon thereafter, I got a call telling me that 'I owned an airplane,' and journeyed down to Mississippi to pick it up. It was in better shape than I thought."

"Better shape," is a relative term. The plane was in hundreds of pieces and was further disassembled by Stephens. A past president of Grand Rapid's Experimental Aircraft Association, Stephens stripped away the craft's rotted fabric "skin" in preparation for bringing the plane back to airworthy condition but job and family commitments kept him from completing the project.

In December last year, he donated the plane to LIT. Bruce Annett, director of college relations and alumni services, and Lee Keshishian, engineering laboratory technician, took a College truck to Grand Rapids in a January blizzard to bring the plane to campus after its more than 30 year absence.

Members of Metro Detroit EAA Chapter 13 have enthusiastically picked up where Stephens left off. Since February they have been cleaning, repairing, and testing the intricate steel and wood framework, applying fabric, and repainting the plane in its original colors. More than 20 members of the



The Spirit of Lawrence Tech and her original builders and flight crew assembled for this 1949 photo. Pictured (L to R) are Charles Vranian, ME'49; Thomas Campbell, AeE'51; Prof. John Locklin; Carleton B. Ambler, AeE'53; Prof. George Martin; Robert Lemon, ME'49; Russell Chambers; and Haig Zerouni, AeE'50.

Chapter, which draws aircraft enthusiasts from five counties in the metro area, have volunteered for service and have been working on the plane since it was returned to the LIT campus. Every piece of the plane is being carefully inspected, cleaned, and if necessary, repaired. An engine is being sought and will be installed if acquired, but no decision has been reached on whether the plane will actually fly again.

In any event, LIT plans to display the completed aircraft on campus, hanging it in the three story atrium of the Buell Building. There is also a possibility that the Experimental Aircraft Museum in Oshkosh, Wisconsin, would be interested in displaying the plane.

Although *Chappy* represents a part of LIT's past, Dr. Robert Ellis, dean of engineering, sees it as an important part of the College's educational heritage and worth preserving.

"While today's students are exploring new technologies in fields like robotics and computer-aided design, it shows us that past students were just as eager to

be on the cutting edge of new developments," adds Annett.

Funding for the restoration has come from the LIT Alumni Association, which provided a \$1500 grant, and from several aero graduates. Additional funding for materials is being solicited. Overall restoration costs, thanks to the EAA volunteer labor, will probably not exceed \$3000 if mechanical components are not replaced.

"The *Spirit of Lawrence Tech* was a tool — a learning tool," George Martin said during a recent visit to campus to see the rebirth of the plane. "Safety was a big concern." Today, Martin is associate director of technical studies for the School of Continuing Education at the University of Alabama-Huntsville.

"We used the plane to illustrate the three basic methods of aircraft construction during that period — sheet metal, tubular framing, and wood," added Martin. "The design process and testing we put the various components through were real life applications of textbook theory."

And theory and practice, as everyone knows, is the real "Spirit of Lawrence Tech." □ BJA



Working to restore the aircraft are EAA Chapter 13 members (L to R) Ken Garr; Al Chiaverotti, BA'51; Roger Perreault, and Chapter President Laurie Sherban. They could use your help!

You can help!

You can aid the continuing restoration of the *Spirit of Lawrence Tech*. Contribution checks, made payable to the College, should be earmarked for the "Spirit restoration" and sent to the LIT Alumni Office, 21000 West Ten Mile Road, Southfield, MI 48075-1058. Detroit area alumni interested in physically helping out can call Bruce Annett at LIT, 356-0200, ext. 2200.

Donors and volunteers will receive a complimentary patch indicating their role with the restoration team. □

Imagine the world in black and white. Drain the blue out of the sky, the green out of the trees, and the purple out of the mountain's majesty and what do you have?

Blah.

Harold Linton, professor of architecture, thinks so, too. He has spent most of his career as a professor and a painter studying and trying to perfect the use of color in art and architectural design. He believes that art and architecture should reflect the colorful world in which we live.

Linton has recently written a book about the subject, *Color Model Environments*, published by Van Nostrand Reinhold Company of New York and illustrated by Richard Rochon, a lecturer of architecture at LIT.

"There is a segment of design expression and discovery that is analogous to our real experiences. Our real experiences are in a world that has color, scale and depth," Linton explains. "A world that, in other words, is permeated by design elements."

Linton's book, which will be used by students at LIT, is an international

survey of student and professional work with "a heavy dose of LIT." *Color Model Environments* is a guide to show designers how to enhance their awareness of the spatial qualities of color and light in order to produce more attractive and functional three-dimensional architectural models.

Linton says that, traditionally, the use of color in three-dimensional education has been ignored.

"In the early stages of a designer's education, whether the designer is an architect or an interior, industrial, or graphic designer, color is taught as a two-dimensional experience," says Linton. "Students will study color interaction, transparency, and the effect colors have on each other in flat design compositions. And that's all they get in terms of theory and its application in traditionally taught basic courses.

"Until recently, the three-dimensional

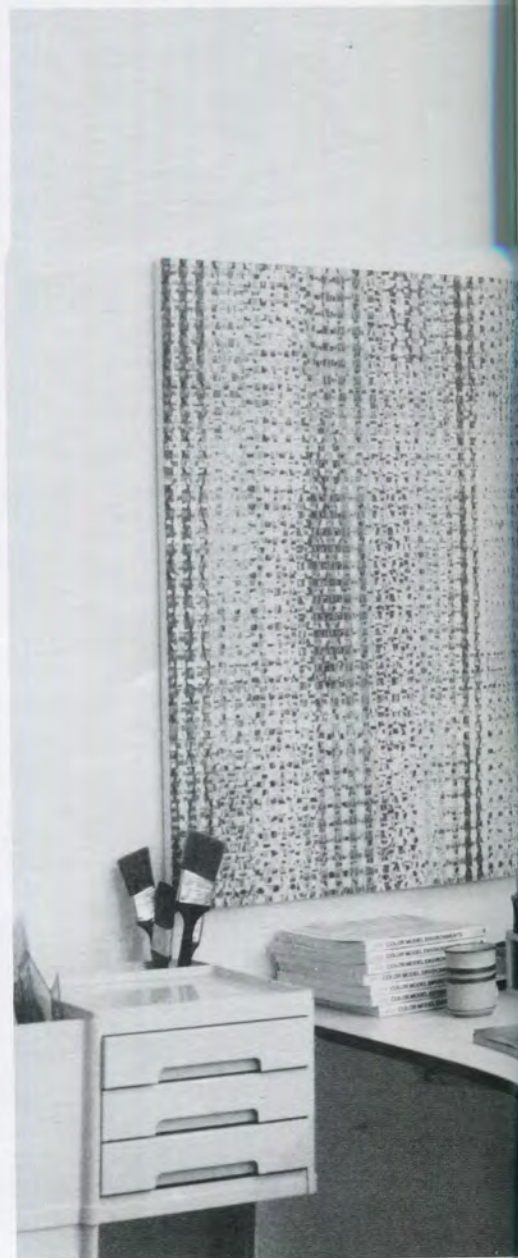


ANNETT PHOTO

The colorful world of

Prof. Harold Linton

**Professor of Architecture
Harold Linton says color can add
dimension to our lives**



design educational foundation has been a colorless experience. But in the past decade there has been a resurgence of interest in color in all of the design arts — graphics, fashion, painting, sculpture, and architecture," he continues.

"So with the book, I wanted to try to connect that interest in color to three-dimensional design," Linton adds.

Van Nostrand is the world leader in publishing books on the subject of color. Linton's book is being translated into German and Japanese and is being distributed in England as well as the U.S. It has the potential of being translated and distributed in more than 20 other countries in Europe, Asia, the Pacific, and Canada.

Linton received his bachelor of fine arts degree from Syracuse University and his master of fine arts in painting from Yale University. In his paintings, which are themselves studies in color,

Linton uses a combination of layering and staining processes — (a kind of watercolor).

"The brightness that comes through the layers and paint from the white canvas background and the way the colors are linked together will alter the sense of light across the entire surface," says Linton of his work.

"The expression I am exploring is called lyrical abstraction with an emphasis on color and pattern," he explains. "Certainly, patterning can be followed through history from the English arts and crafts movement to Cubism to Cezanne's layering of transparent brush strokes."

Linton's work is shown at the Hokin Galleries in Florida and Chicago, and most recently the I. Irving Feldman Gallery in West Bloomfield, where a one-artist show featuring paintings by Linton

will open on October 25. In recent years, his work has been part of two group exhibitions; "Michigan Artists 80/81," shown at the Flint Institute of Arts and organized by the Detroit Institute of Arts, and "Faculty in Arts," which has travelled to five U.S. universities and is presently being shown at LIT. His paintings are valued at several thousand dollars each.

In his paintings, Linton strives for the "maximum pictorial structure," which means the complexity of each facet that goes into all of his paintings is intentional.

Linton says that the way artists organize color in modern paintings — articulated by Hans Hofmann, an abstract expressionist, as a "pushing and pulling" of colors — has been a crucial lesson in abstract expressionist painting and the more recent development of color field painting in the 1970's.

"Color field painting, which is an important part of what I do," says Linton, "involves handling of paint medium whereby the canvas surface becomes the most important aspect of the painting in terms of color application. The canvas can be specially treated in order to achieve a particular surface effect.

"Hofmann's 'push and pull' concept involves the idea that colors set against other colors on the picture plane will create tension or vibrations and some will advance while others appear to recede," he explains. "His studies are pivotal to my work."

Color is Linton's passion and like anyone with a passion, he seizes every opportunity to spread his enthusiasm. Linton and Rochon are collaborating on a second book tentatively titled, *New Color Vision: Selective Realism in Architectural Illustration*. Through the printed page, Linton, as professor and painter, has seized another opportunity to express his passion — color. □ UQM

Harold Linton, professor of architecture, has been a member of the LIT faculty since 1974. In addition to his artistic, literary, and collegiate teaching activities, he started the School's Saturday Pre-College program for high school students and adults in 1977 and is director of freshman studies.



BICOM PHOTO

The insiders

LIT's interior architecture program, just five years old, is receiving kudos from both graduates and the design profession

There was a time when many building interiors were "decorated" by interior designers. But with the new wave of high technology and sophisticated automation at home and in the workplace, something more was needed — an architect's touch.

There are probably fewer than ten accredited colleges of architecture in the country that offer bachelor of science degree programs in interior architecture," says Leonard Else, director of LIT's interior architecture program. "LIT is one of them."

Else was instrumental in the establishment of LIT's interior architecture program in 1980. As director of interior design at Smith, Hinchman and Grylls Associates before joining the College in 1978, Else recalls how difficult it was to hire people who were knowledgeable in both architecture and interior design. It was especially difficult, he says, to find people knowledgeable in commercial or contract interior design which includes stores, offices, institutions, and churches.

"Most designers are trained to specialize primarily in residential or in a combination of residential and contract interior design," Else notes. "When formulating LIT's program, we wanted to focus primarily on contract or commercial interior design using LIT's existing architecture program as a foundation.

"This background is especially beneficial to people who want to get involved in renovation work — which is very popular now," Else continues. "Renovation requires a lot more familiarity with architectural concerns like partitions, ceiling systems, lighting, custom cabinetry or millwork, air conditioning, heating, and acoustics — all of the environmental considerations that go into the completed interior for commercial use."

Ken Nisch, a partner at Jon Greenberg & Associates, Inc., an architectural firm located in Berkley that specializes in store design, says he has hired quite a few LIT grads and that the alumni they've hired have been well qualified.

"In general, people from LIT are able to take on individual responsibility," says Nisch. "They come in already knowing a lot so they are not starting from zero like many others are. We don't have to teach them the basics like what a column line is — they already know. That skill is far more rare than it should be."

Else claims it is the technical base that makes LIT's program so unique.

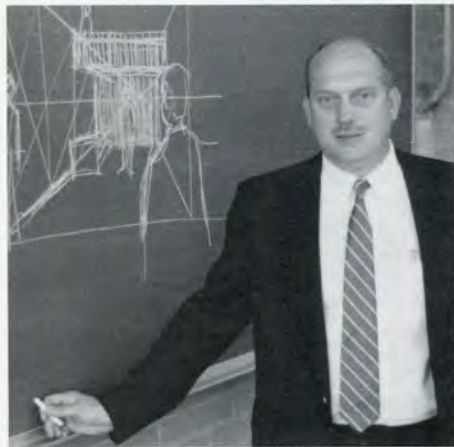
"The trend is that commercial interior design is moving more in the direction of being technically oriented because of the electronic revolution taking place in the office," Else says. "So we feel we are at the forefront of that trend and that we are giving students the background to become very competitive in the



BIZON/PHOTO



BIZON PHOTO



ANNETT PHOTO

Left: Michael Lueder's art marker drawing of a mall interior done for a class taught by Roy Strickfaden. Above, top: A dramatic rendering of Tel-Twelve Mall's "Restaurants on Main Street" concourse by B. Jeff Strebar for Prof. Strickfaden. Above: Leonard Else, director of LIT's interior architecture program.

years. Since graduation, Vanderklok has been a store planner, dealing primarily with interiors, at the Taubman Co. in Bloomfield Hills.

"LIT's interiors program is taught within the area of expertise known as architecture, whereas other universities have a home economics slant and aren't technically oriented like LIT's program is," says Vanderklok. "The program prepared me very well for what I'm doing now, both in the technical and the design aspects."

Nisch agrees that LIT students are well rounded in terms of possessing both technical and design skills.

"I don't know if it is the type of student LIT attracts or if it is LIT's emphasis on the practical, but it seems LIT students are willing to do all the elements of a job," says Nisch. "Some people just want to design — some just want to work with clients — others want to do only the technical board work. But people from LIT are capable of and willing to do it all. That's a plus."

When the interiors program was first initiated at LIT, Else says students competed regularly in state and national competitions in order to measure the capabilities of LIT students with those of students from other colleges.

"The first year, we took two out of four top prizes in the American Society of Interior Designers (ASID) state competition — the second year we took three out of four," Else boasts. "In the national ASID competition, we took first, second, and one of the runners up in the first year we entered. We basically wanted to see how we could do and we were pleased with the results."

LIT's interior architecture faculty and administration are in the process of generating literature needed for an accreditation evaluation by the Foundation of Interior Design Education Research (FIDER). The School expects to be evaluated this year.

"There is really a demand for our people. I get calls from firms on a regular basis — especially now because there is so much business activity both in architecture and interior architecture," Else smiles. "My biggest problem is that I don't have enough people who have graduated to fill those requests." The program has graduated 28 interior designers.

Nisch says that the son of one of Jon Greenberg's partners is a student at LIT and that "is a reflection of how we in the industry feel about LIT's program."

□ UQM

marketplace."

And, graduates seem to be discovering this to be true. Alice Selewonik, IA'83, has been with Catalo Associates, an interior architecture firm in Birmingham, for three years. She is up for promotion from junior designer to staff designer.

"The preparation I've had has been good because LIT's program mixed the design aspect with architectural basics like drafting, presentations, and sketching," says Selewonik. "There are a few other people here from Lawrence. In comparing us with people from other schools, our experience has been that we have stronger technical skills and they are a little stronger in designing — choosing furniture — picking colors — those areas."

Roger Vanderklok, IA, Ar'82, BA'83, took advantage of LIT's tri-degree opportunity and received three degrees in six years. Students can also opt for a dual-degree and receive a bachelor of science degree in architecture and interior architecture in as little as five



Baseball, hot dogs, sushi, and Chevrolet

Selling American cars in Japan is probably more difficult than selling refrigerators to Eskimos. But this international automotive fray suits alumnus John Weber just fine

American cars are not exactly hot items over in Japan. Of the 3.3 million cars and 2.1 million trucks sold in Japan each year, only 2,300 are American made. One of the reasons, according to John Weber, ME'73, manager of planning for the Japan Branch of General Motors Overseas Corporation (GMOC), is that, unfortunately, U.S. cars have an image problem. This is not helped by the fact that the Japanese underworld are known for driving U.S. cars and the average Japanese citizen, needless to say, would like to avoid that stigma.

There is hope on the horizon, however. Word has it that the Japanese "bad guys" have started using Mercedes Benzes. Germans, look out.

Image is not the only reason for low Japanese sales of U.S. cars, however. The biggest problem, Weber claims, is that American cars are too big and too expensive for the average Japanese consumer.

"Japanese neighborhood streets are just too narrow for American cars," he explains. "Young people do get very excited when they see a Firebird or a Corvette, but unfortunately, they are out of reach, financially, for most Japanese consumers."

"There has been a great deal of dialogue about the closed nature of the Japanese market which I believe has led to misunderstandings on both sides of the Pacific. For example, when the Japanese decided to enter the U.S. market, they did so by embracing tremendous challenges in vehicle modification and costs to meet U.S. standards. This was very costly and was by no means a short term payback. The U.S. mentality, on the other hand, requires that investments be recovered early by increases in sales. This is one of the basic differences between Japanese and Western practice."

"It may well be that the Japanese had encountered at least equal hurdles to the U.S. market as we now see for the Japanese market. It basically comes down to what you think is necessary for survival."

Weber, American born and bred, knows so much about Japan because he has spent the last two years living and working there. After being with GM for almost ten years, Weber decided it was time for a little adventure so he investigated possibilities for an overseas assignment.

"There was an opening in Japan for someone with my expertise and background. The only drawback was that they wanted someone a little older because the Japanese respect age. But GM acted in faith and sent me. I have since gained the confidence of the Japanese," Weber continues.

WEBER PHOTO

"I wanted an overseas assignment for two reasons. One reason was I sensed that future executives would have to be internationally minded and I knew that going overseas would be a plus for me in my career pursuits. The second reason was it just plain seemed exciting."

Weber, his wife, Linda, and three children "love living in Japan."

"We live in a Japanese neighborhood, not an American compound, so we really have gotten a feel for the culture. The people are nice. The streets are clean. And the environment is safe. Tokyo is crowded and exciting, full of adventure and opportunity," he beams as he describes his new home.

"The public transportation system is quite extensive and very safe and efficient — you could set your watch by it. I don't remember ever seeing graffiti in the trains or the train stations. People in Japan expect things to work properly — and things do," he concludes.

Japan produces 25 percent of all the vehicles in the world, according to Weber. Therefore, Japan remains vitally important to GM's long-term strategic planning. GM has equity in, and a working relationship with, both Izuzu Motors and Suzuki Motors. Part of Weber's job is to maintain existing projects between the three corporations and to identify new opportunities that might be mutually beneficial.

"Most of these opportunities are product related," Weber explains. "If GM has a product that Izuzu or Suzuki can make use of in order to avoid duplicating investments, we will suggest they make use of it and vice versa."

Weber claims that much of what Americans hear or read about Japan is incomplete or misleading. The only way to really learn about the culture is to live there, and Weber has learned quite a bit.

"The Japanese compete with each other differently from the way they compete with North America. U.S. auto makers need a complete understanding of that competitive process," Weber continues, "because there will soon be a number of Japanese managed plants in the U.S."

"For example, 70 percent of the cars purchased in Japan are sold door-to-door. A salesperson will 'farm' a particular neighborhood and get personally involved with the families so he or she knows when they need what. Before a sale is made, the salesperson may have visited the home 15 or 16 times." Weber clarifies, "Now, the U.S. won't start selling door-to-door because sales productivity is not nearly as high as when you sell from a showroom. But we do need to learn to be closer to the consumer."

"Another difference is that the Japan-

ese mentality constantly desires freshness and newness. If companies don't continuously come out with new products they have a difficult time advertising and selling their goods. This leads to the proliferation of new features and special versions. It also leads to a very high turn-over of products. The Japanese have to come out with a completely new product from the wheels up every three or four years. In the U.S. and Europe it is every six years."

Aside from contributing to the development of GM's knowledge about Japan, Weber has been fairly astute in developing a strategy for his own career.

Weber joined GM's Truck and Coach Division in 1974 as a process engineer. He later decided he wanted to be where the action is so he participated in a foreman training program and became a first line supervisor. He recalls over-

He received his masters degree in business administration from Oakland University. Weber left the floor in 1979 and joined GMC's Worldwide Product Planning Group in Detroit where he was involved in manufacturing facilities planning and product planning.

He claims that whenever he decided to make a change in his career, something unusual would happen. For example, the day he called a friend to investigate employment prospects happened to be the very day his friend had been talking to his supervisor about adding someone with Weber's background to the staff. Weber says his friends call him lucky, but he views it differently.

"I guess I have enough faith to believe that God deserves all the credit each step of the way and that He is responsible for my success — not luck. That might sound crazy to some people



Many Japanese residential streets are too narrow for automobile traffic. This one is passable but John Weber notes that a full size car would be unmanageable. Curb side parking is often not possible and many subdivisions have small "parking lots" for residents with cars.

hearing an executive involved with the program comment on Weber's career path decision.

"He said, 'It is really something for a young man to want to be out on the floor getting his shoes dirty. It's like an LIT grad to do that, though. You'd never see an engineer from Purdue on the floor,'" Weber laughs.

"Back then I felt that what happens on the plant floor determines a company's competitive advantage or disadvantage. I thought I could contribute more to the company by being closer to the final product. We are in the business of making a product a customer will buy. If we can't satisfy customers, we can't stay in business," he states.

but that's how I feel," he smiles.

Weber hopes to return stateside within the next three years and use his expertise in Japanese culture and business practices to further benefit GM. In what capacity, he does not know yet.

But whatever that might be, it is Weber's dream that in the future more Japanese consumers will be driving GM cars "made in America." □ UQM

'It's possible!'

LIT's Technical Business Clubs are helping Detroit youth define and achieve success

In 1977, when Dr. Oliver S. Coleman, special project administrator at LIT, formed Technical and Business (TAB) clubs, a program that offers Detroit high school students exposure to technical and business careers, he had a dream for Cooley High School student Luther Siebert.

Today, Siebert is an experimental engineer for General Motors' Buick-Oldsmobile-Cadillac Detroit Engineering.

Coleman had a dream for Redford High School student Toni King.

Today, Toni, MCS'85, is a computer programmer with Higgins, Madden & Associates, a data processing consulting firm.

Coleman had a dream for Cooley High School student Rosalind Ballard.

Today, Ballard is a computer science major at Marygrove College.

Coleman had a dream for Cass Tech High School student Shirlynn King.

Today, Shirlynn is a management information systems coordinator for GM's Chevrolet-Pontiac-Canada Group.

TAB clubs have one message for Detroit's youth who, without their participation in TAB may never hear it — it's the optimistic message that "it's possible."

"I remember my first summer when Dr. Coleman had us fill out questionnaires," Shirlynn smiles. "One of the questions was, 'what do you want to be?' I put down secretary. Dr. Coleman said, 'Oh, no, no, think about it.' So I thought about it and wrote down administrative secretary. But by the end of the summer I knew I wanted to own a business."

Shirlynn hopes to someday open a business that provides financial planning assistance to low income minorities. She says that too often, people with low incomes don't move up because they don't have the know how to responsibly manage the money they do earn.

Toni wants to help minorities, too, but not with a business. She has her eye on Coleman Young's spot.

"I'd like to someday run for mayor of Detroit," says Toni. "I think the present



administration has some priorities in the wrong places. More programs like TAB are needed. And minorities that make it shouldn't forget what a hard time they have had. Even if each of us helps just one child — let one child know that someone cares — it would make a difference. A lot of parent's don't even care. We just keep getting more poor people — more hungry people — because kids don't have anybody to turn to."

Ballard agrees that role models are an important part of any young person's education and she appreciates those professionals who took their time to talk to TAB participants during field trips and special presentations.

Clockwise from above: Shirlynn King, Robert Mitchell, Luther Siebert, Rosalind Ballard, and Oliver Coleman. Center: Toni King. Each gives the TAB program high marks for doing what it set out to do: provide an avenue for Detroit youth to explore career options.

"I'm going to do as much as I can in college to become a role model for the next generation," Ballard promises. "Any person who becomes something is a role model. They don't have to be musicians or athletes. They could be your next door neighbors."



MARINELLI PHOTO

ever, TAB is the kind of club that would attract high achievers. But Siebert claims that high achievers also can stray without the proper guidance.

"To a certain extent, students who get involved with TAB are those who would be achievers anyway. But even achievers don't always get the opportunity to see what's out there," Siebert continues. "They may do very well academically but without that exposure they can't make responsible decisions.

"Then, too, there are those people who aren't necessarily achievers who benefit quite a bit."

Siebert graduated with a degree in electrical engineering from GMI in Flint.

trains students to become TAB leaders in their own high schools; and TAB clubs, in operation September through June, which offer vocational exploration experiences through peer-group leadership.

"The Project is designed so that the principal motivation for achievement evolves from ethnocentrism within the teenage culture," says Dr. Coleman. "Project participants, led by trained peer-group leaders, acquire exploratory experiences, leadership and communication skills, group acceptance, assistance with college planning, and academic, vocational and personal counseling. Students are also given advice on resume preparation, interviewing, and job research skills."

Today, 19 of Detroit's 22 public high schools have TAB club chapters. Mitchell claims the schools are learning right along with the students.

"I think the schools need to do a little more in terms of better preparing kids. I'm finding out that to be a technician, students have to take some high level courses while still in high school. We have to pull kids out of general math sequences and put them in trigonometry and geometry courses. In addition, they should be taking technical courses such as drafting and machine shop, and high level science courses.

"The high schools have to build programs that will give students the technical experience they'll need to make it in these college programs," Mitchell continues, "But we're working hard. I think the TAB program is certainly very valuable to the school system in many ways."

On August 28, 1963, Martin Luther King, Jr. made his famous "I have a dream" speech before 200,000 people who participated in a "march for jobs and freedom." His dream was that his children would "not be judged by the color of their skin but by the content of their character."

While many would conclude that Black Americans have come a long way since that speech, according to the August 1985 issue of *Black Enterprise*, "No Black has ever reached the ultimate corporate pinnacle: chief executive officer of a Fortune 500 company."

But that goal may not be too far off. Men like Coleman and Mitchell and Siebert, and women like the King's and Ballard, are proving that all it takes is a dream — and a dreamer. □ UQM



MARINELLI PHOTO



TATUM PHOTO



BIZON PHOTO



MARINELLI PHOTO

But for most of TAB's participants, the chances of technical or business professionals living next door are slim, according to Robert Mitchell, a counselor at Cooley High School.

"TAB offers exposure to a whole new world for these kids. By and large, they don't get much of a chance to talk with people who are professionals in technical fields because — let's face it — not too many of them reside in their neighborhoods. And the professional role models on T.V. are usually doctors, lawyers, or teachers," notes Mitchell.

Dr. Coleman reports that 95 percent of all TAB participants enter college right out of high school. By its nature, how-

He chose electrical engineering and GMI as a result of touring that college with TAB.

Project TAB offers Detroit youth exploratory experiences, motivation, and assistance in pursuing careers in business administration, engineering, science, and other technical fields through on-campus presentations and field trips to places like Allied Corporation, the GM Tech Center, WXYZ-TV7, and Wayne State University. Participants tour LIT's labs and many do attend LIT after high school.

The Project consists of two phases: The Summer Careers and Leadership Institute, an eight-week program that



All smiles after receiving his diploma, new alumnus Robert R. Rabe, EE'85, pauses outside the State Fairgrounds Coliseum with his wife Diane and son Bobby. Robert was one of 830 graduates comprising the Class of '85.

BIZON PHOTO

The Class of '85 says goodbye

A record number of graduates join alumni ranks

A record number of graduates, more than 830 students, received diplomas during Lawrence Institute of Technology's 1985 Commencement Exercises, June 2.

The College's 53rd annual Commencement, held at the State Fairgrounds Coliseum, also honored Richard L. Leshner, president and chief operating officer of the United States Chamber of Commerce, who received the degree, Doctor of Business Administration; and A. Alfred Taubman, founder, chairman, and chief executive officer of The Taubman Company, Inc., who received the degree, Doctor of Architecture. Charles L. Knighton, a 1955 LIT mechanical engineering graduate who is vice president — small

and mid-size car engineering and planning, Ford Motor Company, received the College's Alumni Achievement Award.

Leshner, who has served as U.S. Chamber president since 1975, presented the Commencement Address.

"Charlie Brown in the cartoon once said while he was walking around gloomily, 'there's no heavier burden than great potential.' There's some truth in that, and when I was invited to come here I jumped at the chance, first of all to celebrate this great institution," said Leshner.

"My exposure to LIT comes through Ed Donley, who is the chairman of Air Products as you know. He is vice chairman of the U.S. Chamber and he is

one of LIT's most distinguished graduates. You're proud of him and so are we. I am also pleased to be here to celebrate Alfred Taubman, who is one of America's great entrepreneurs and that is something that we need more of, and to celebrate Charlie Knighton, a distinguished vice president of Ford Motor Company. Who says there are no role models anymore?

"Seniors, these are three of America's top business people and they were all once Lawrence Tech students. Think about that. One more reason that I am pleased to be here is to celebrate your president, Dr. Marburger. You may or may not know that he celebrates twenty years of service to this institution this year. I want to thank him and I hope that you will join me. . . .

"The media keeps telling us how bad things are. Five years ago, President Carter told us that our best days as a nation were behind us. He told us that you young people better learn to lower your sights, to make do with less. . . . Many others picked up that theme and went on and on with the doom and the gloom. "I am here to tell you a different story. For example: the University of Michigan pointed out a few months ago that consumer confidence is the highest it's been in twenty years. The

Conference Board told us that most Americans are satisfied with their lives, their careers and their country. And the Gallup poll a few months ago told us the spirit of America is the best that it's been in decades and, of course, we're now experiencing the strongest recovery with the strongest investment growth in forty years.

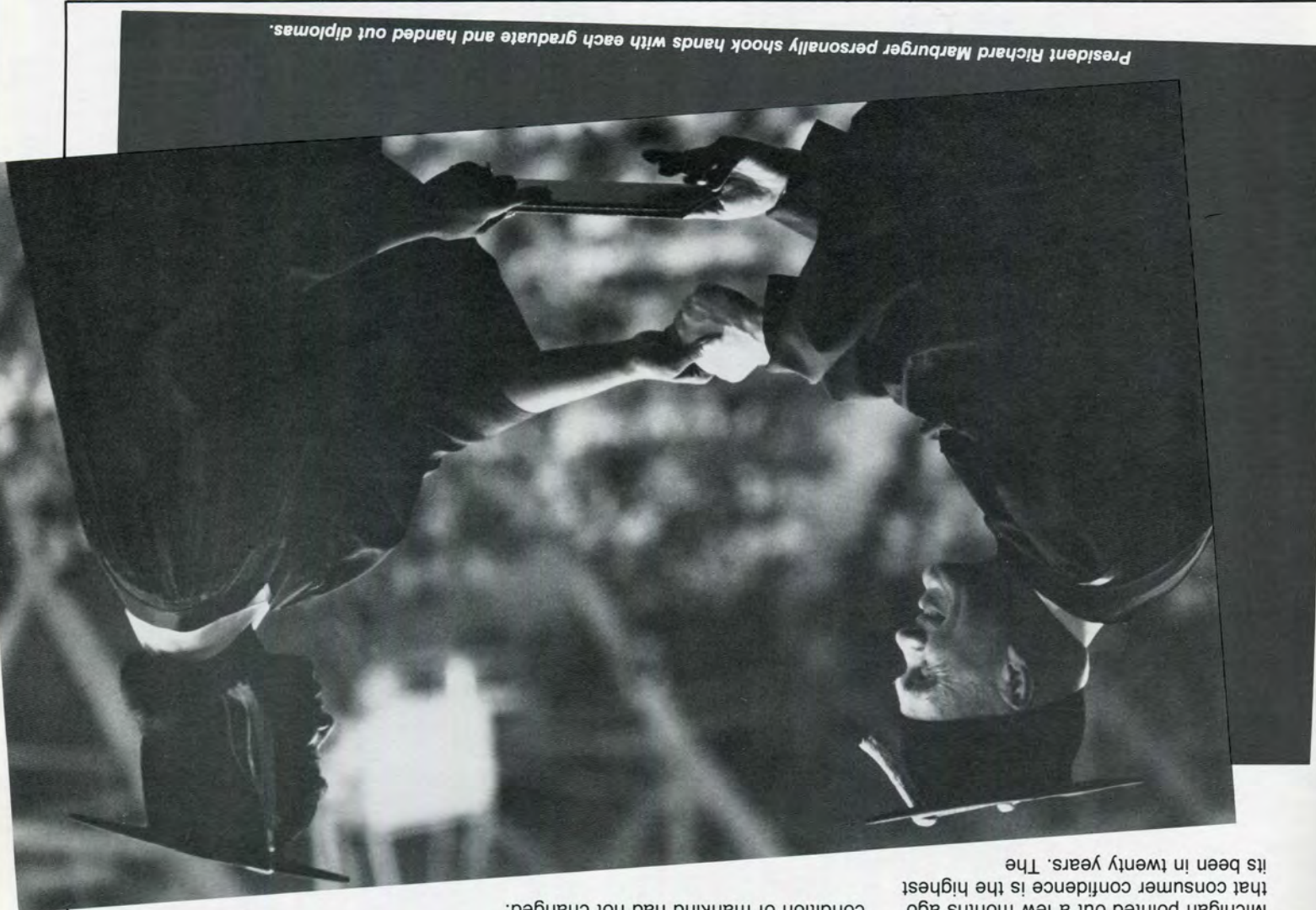
Nearly seven million new jobs have been created in the last two years. More people are at work than any time in the history of this great nation, both in absolute terms and percentage terms. . . .

"I really believe that if Thomas Edison were alive today and he announced the invention of electricity, the evening news tonight would begin with Dan Rather saying the candle making industry was dealt a severe blow today. . . . "Recently, London economists estimated that income per capita worldwide at the time Christ walked on earth was \$200 per person per year. 1776 years later when this nation was founded, income per capita worldwide was still \$200 per person per year. . . . The centuries had come and gone, but the condition of mankind had not changed.

And then something happened. Something new and exciting and dramatic. . . . America, America, a new experiment in human rights with a constitution designed to limit the growth of governments and to celebrate the rights of individuals. A nation where dreams could come true and did. A country where the builders with vision could build a better life and did. "Edison, and Carnegie, and Whitney, and Ford, and yes, Russell and George Lawrence — did make a difference. In the short period of 200 years, world per capita income multiplied 10-fold, in America a 100-fold. . . .

"The point I want to make is simple. Human progress in science, medicine, economic progress and economic education or in space depends on progress depends on a dynamic, strong private enterprise system. The good news to you graduating seniors is that the best years of our economy are ahead of us. Leaders like the Donleys, the Taubmans, the Knightons and the Marburgers are still arriving on the scene to make this country better. And Lawrence Institute of Technology is still producing builders, architects,

(continued)



President Richard Marburger personally shook hands with each graduate and handed out diplomas.

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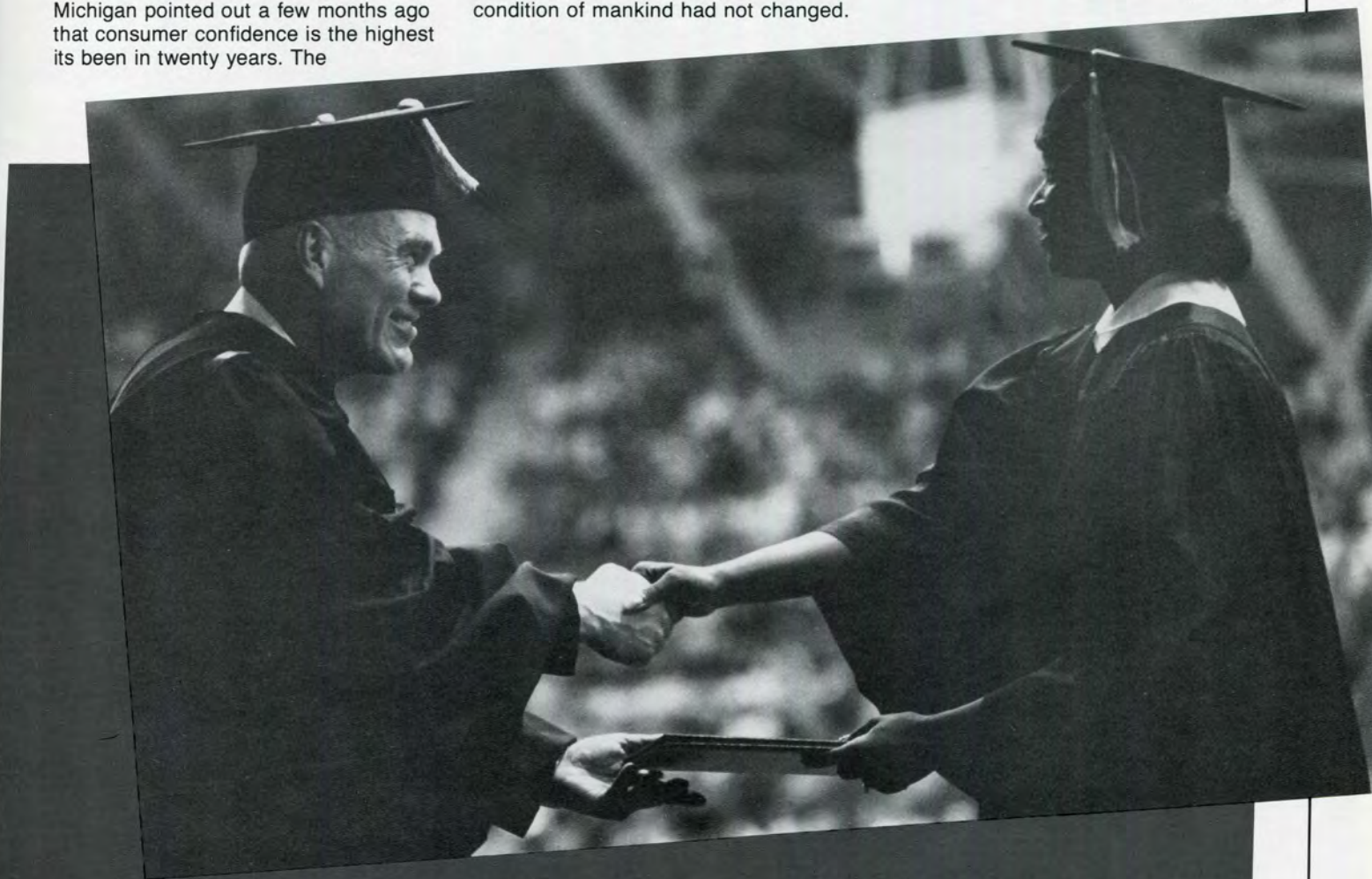
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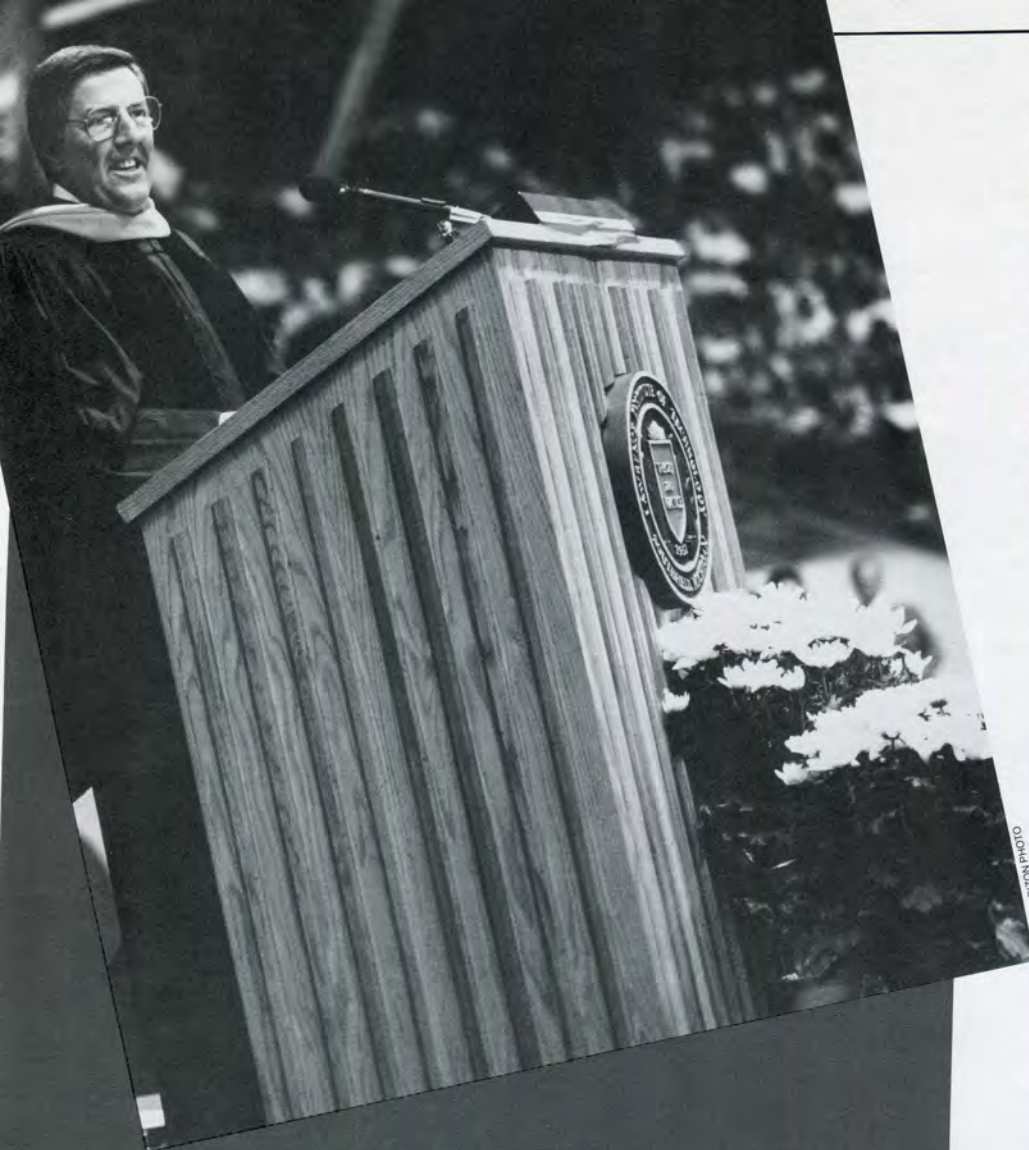
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President Richard Marburger personally shook hands with each graduate and handed out diplomas.



"Live your life in the LIT tradition," Commencement Speaker Richard L. Leshler, president of the U.S. Chamber of Commerce, told graduates. "Put something back and build."

engineers, computer scientists, managers, and accountants who know that private enterprise does indeed work. . .

"Sure, we are going to have some ups and downs but on balance our economy through the rest of this century and into the next will be strong. So you graduating seniors will experience opportunity, you'll live a life filled with exciting change where new horizons will open everyday. . .

“Whatever your field, my message for you is very simple — its taken from that award-winning T.V. commercial produced for the U.S. Army . . . *be all that you can be.*

“‘Be all that you can be’ is a very powerful message. What does it mean? It means first of all, be good at what you do whether you’re an architect or an accountant. It secondly means live your life in the LIT tradition; put something back and build. Make the world around

you just a little bit better than it was when you found it. Thirdly, believe that anything is possible in America with hard work. Know also that anything worthwhile is not easy. Know, too, that hard work is often its own reward but most of all, know that achievement is the ultimate high. . . Doing something for someone else, putting something back, is one of life’s very, very, special pleasures.

“So seniors, take one more look around this coliseum. These are the messages your family, your friends, the faculty and the college would like to convey to you today. Touch someone and make them better in the LIT way. I salute you, I wish you well and I thank you for letting me be a little part of this very special day.”

Leshler’s organization, the U.S. Chamber of Commerce, is the largest business federation in the nation. It includes in its membership rolls some 180,000 business organizations, 2,800

local and state chambers of commerce, 1,400 trade and professional organizations, and 53 American chambers of commerce overseas. The U.S. Chamber offers recommendations of the business community to government at all levels and also offers a wide variety of educational services to its members.

Leshler earned a B.B.A. at the University of Pittsburgh, an M.S. at Pennsylvania State, and a D.B.A. at Indiana University. He is a director of the American Chamber of Commerce Executives, First American Bank, U.S./U.S.S.R. Trade and Economic Council, Foundation for Economic Business Studies of Indiana University, and Citizens Choice. He received the Horatio Alger Award in 1980, and holds honorary degrees from Indiana University and Ferris State College.

A. Alfred Taubman is nationally recognized for his innovative leadership in real estate development. His company has developed or constructed more than 70 million square feet of real estate properties and currently manages 20 regional shopping centers coast to coast.

Educated at Lawrence Institute of Technology and the University of Michigan, Taubman is also the majority shareholder and chairman of the parent company of Sotheby’s, fine art auctioneers. He is also owner of Woodward and Lothrop, Inc. fashion department store chain in the Washington, D.C. area; and chairman of A & W Restaurants, Inc., which franchises and owns more than 650 restaurants in the U.S. and abroad.

Among his many civic, educational, and philanthropic activities, Taubman is national chairman and a trustee of the Smithsonian Institution’s Archives of American Art; trustee of the Whitney Museum of American Art in New York; trustee of the Founders Society of the Detroit Institute of Arts; director of the Detroit Symphony Orchestra; director of the Executive Committee of Detroit Renaissance; trustee of Harper-Grace Hospitals; national chairman of the University of Michigan’s Replacement Hospital Campaign; and trustee of the White House Preservation Fund, Washington, D.C.

Charles L. Knighton was appointed to his current post at Ford in 1983. His responsibilities include development and administration of 10 Ford and Mercury automobile lines, including the Escort, Tempo, Thunderbird, LTD, Mustang, their Mercury counterparts, and advanced vehicles.

Previously, he had been vice president of Ford’s small car engineering and planning, and earlier, vice president of car planning and engineering for Ford of Europe. He joined Ford in 1954. □ BJA

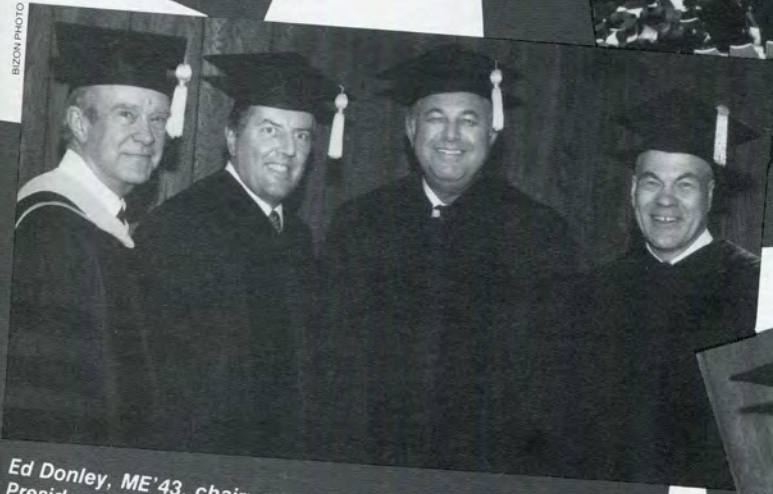


An unidentified grad gets a congratulatory hug.

BIZON PHOTO

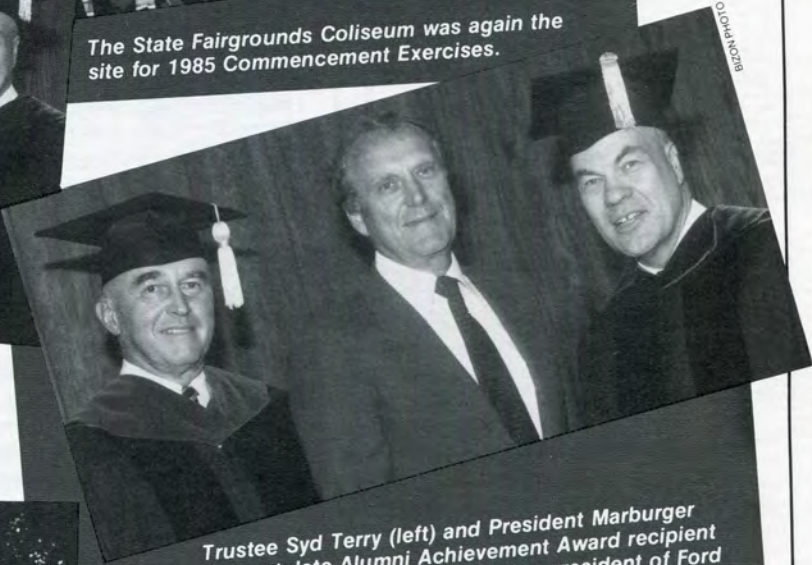


The State Fairgrounds Coliseum was again the site for 1985 Commencement Exercises.



BIZON PHOTO

Ed Donley, ME '43, chairman of the Members, joins President Richard Marburger (right), in congratulating doctoral degree recipients Richard Leshner, president of the U.S. Chamber of Commerce and Alfred Taubman, chairman of The Taubman Company.



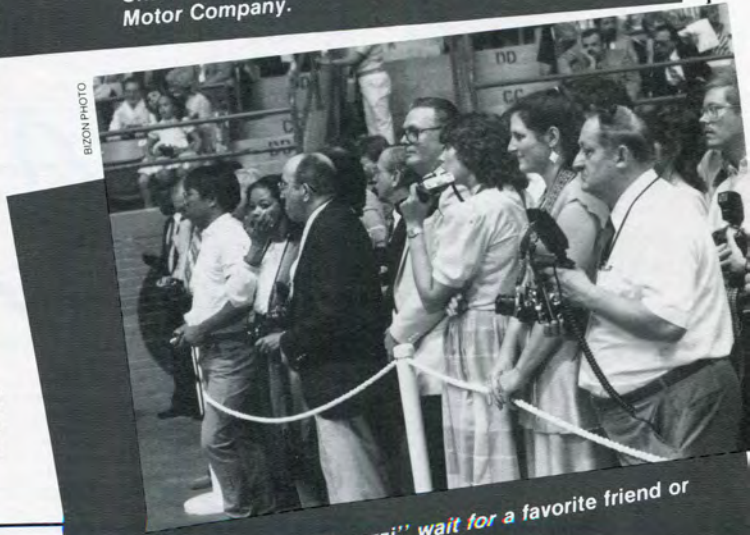
BIZON PHOTO

Trustee Syd Terry (left) and President Marburger congratulate Alumni Achievement Award recipient Charles L. Knighton, ME '55, vice president of Ford Motor Company.



TATUM PHOTO

Enthusiastic architecture grads celebrate with confetti.



BIZON PHOTO

LIT's own "paparazzi" wait for a favorite friend or walk across stage.

Faculty profile

**Jim Rodgers,
chairman
of LIT's humanities
department,
asks students
to question, analyze,
world around them**

**Another in a series of
closeups on LIT
faculty and staff**

“This is the most sickening paper I have ever heard,” is not the usual comment of approval you’d hope to hear from your professor.

But they are exactly the words a seminar director told Dr. James Rodgers, who had traveled to England to round out his academic experiences.

“While studying in England I presented a paper on how a character in the 18th century English novel, *Tristram Shandy*, had his wound treated. Medicine wasn’t pretty in the 18th century,” recalls Rodgers, 40, chairman of LIT’s Humanities Department. “I guess I got the audience’s attention.”

Dr. Rodgers joined LIT in 1968 as an instructor after graduating from the University of Michigan with a master’s degree in English literature. In 1973, he took a leave of absence from LIT to study at the University of East Anglia — about 100 miles northeast of London, England.

The dissertation Dr. Rodgers was working on in England is titled, *Ideas of “Life”: Tristram Shandy and Contemporary Medicine and Philosophy*. It is a study of how scientific discoveries shape the way a novelist might represent human beings. LIT played a part in developing his interest in the relationship between science and literature. As an instructor at LIT, he had to find ways to relate science and technology to literature in order to interest LIT students who are involved primarily in scientific and technological pursuits.

While researching correlations between these two disciplines is serious business, Dr. Rodgers did manage to extract a little comic relief.

“I was reading another paper on *Tristram Shandy* for a group of English scholars. The whole place was in stitches,” he laughs. “I thought it was because I was such a good reader and because my material was so funny. Only later did I realize that it sounded

ridiculous to them to hear an English novel read with an American accent. It would be like an Englishman reciting the Declaration of Independence.”

Both the differences and the similarities between the British and the Americans were what prompted Dr. Rodgers to choose Great Britain as the setting for the pursuit of his Ph.D.

“Studying in a different culture was part of a romantic dream I had had since childhood,” Dr. Rodgers explains. “Both my wife and I wanted to live in a culture that was somewhat different from our own yet familiar enough so that we wouldn’t spend a year floundering. England was a natural choice.

“Because of a mix up in communication, I didn’t find out I was accepted at East Anglia until September 1 and the



James R



MARINELLI PHOTO

Pennsylvania, where Dr. Rodgers received his bachelor's degree in English literature. He went on to become editor-in-chief for the College paper and a copy boy for the *Allentown Morning Call*.

As a copy boy, he ripped stories from the wire services and delivered them to the appropriate editors. As a result, Dr. Rodgers was one of the first Americans to find out about the Cuban Missile Crisis, among other things.

"Working for that paper, I felt like I was in one of those 1930s newspaper movies with crusty old editors chewing out smart aleck reporters," he laughs. "A lot of those reporters were virtually illiterate, but they really knew how to get good stories.

"Then there were the guys like me who were just writers. We would find out that some kid from Allentown had been killed in Vietnam and an editor would want me to go to the home of the family for an interview and pictures," he stops. "I didn't like visiting grieving families. I'd say, 'That's impolite; I can't ask people about that.' Then they said, 'Kid, you're not cut out for this kind of work.' I gracefully 'retired' from my position as a cub reporter and became a rewrite man."

Dr. Rodgers described himself during his reporter days as being "too sensitive at 19 to ask the tough questions." But he has never stopped asking the tough questions and digging for the answers when it comes to the humanities.

"Studying the humanities develops an individual's ability to analyze, criticize, and then synthesize everything in a way that moves other people to action," he explains. "It is a matter of questioning and not accepting everything that is handed to us by the media, or even by our humanities professors.

"Part of this process is done so that individuals can pass our cultural heritage to future generations. Part of it is to teach them to take control over their lives by developing their ability to think imaginatively and creatively," Rodgers says. "That's a tall order to fill in a few courses.

"When professors fail in these areas we are always tempted to blame the students. But at LIT, we have some excellent thinkers. If our message is not felt by the students it might mean that it is time for a little self-criticism. We must make students feel that the humanities classes are closely related to their own lives. We must show them things like how representative democracy grew out of an 18th century way of thinking about human beings.

"Our job is to stretch the thinking process," he pauses and looks satisfied. "And to make students read 'stuff' they would never read on their own." □ UQM

term began in October. We had about three days to decide whether or not to go," he remembers. "It meant transplanting our two year old child, breaking a lease, selling most of our possessions, and asking for a leave from LIT right before the term would begin," he smiles. "We went.

"We arrived in England at the end of September with no place to live, no transportation, and no employment prospects. But fortune favors the brave, I guess," he continues. "After discovering that finding a place to rent in East Anglia borders on impossible, we overheard a conversation in a restaurant about a

place to rent and we were able to acquire it. That house just happened to be next door to a man who worked in Cambridge — 60 miles away — where I later had to go to use the library. I hitched a ride with him and I didn't even have to pay for gas because his company reimbursed him," he adds.

While Rodgers labored through 18th century medical textbooks, his wife, Jane, helped to support the family as an information officer at the University's career center.

"For some unknown reason, Jane's passport wasn't stamped 'cannot be employed for compensation' as mine was," he says.

Academe has not always been the backdrop in the life and times of Dr. Rodgers. He met his wife while they were both reporters on the student newspaper at Muhlenberg College in

odgers

The Natural

The 'computer revolution' is drastically changing the role of libraries and how they do business. Happily, for library users, its a change for the better

It's a natural.

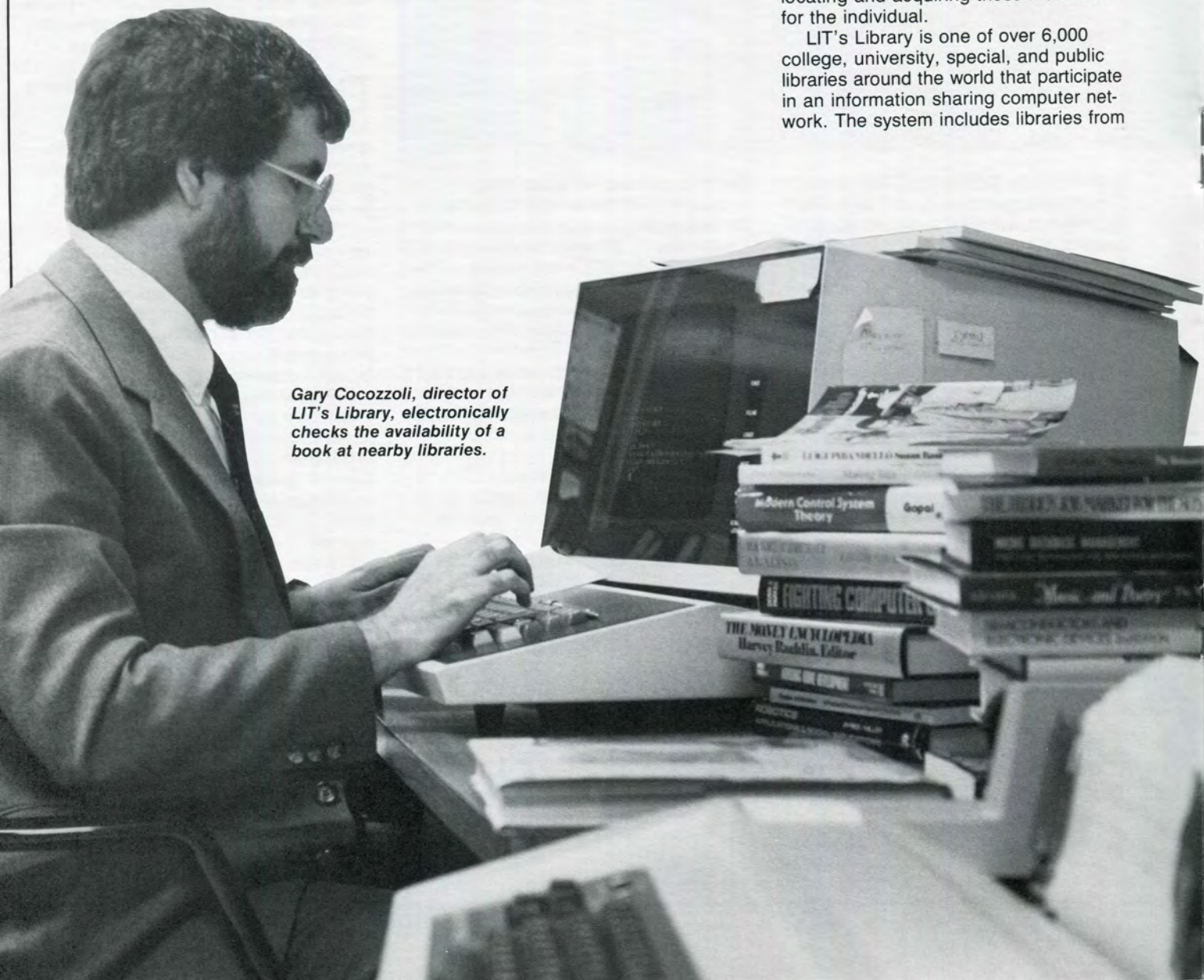
This is the information age. Libraries house information and computers facilitate the handling of information. They were meant to be together.

Computers are changing the way LIT's Library conducts the business of acquiring, organizing, and disseminating information.

For example, a bibliographic database search can be conducted by using the computer to create customized bibliographies. A database is a collection of information on the same subject. It is filed into a computer system and is accessible by using a computer terminal. The search system used most often at LIT is Lockheed's *Dialog Information System*, originating from Palo Alto, California.

The LIT terminal will scan the information available on a particular subject and print out the names of articles or books that have a key word or words in their titles or subject headings. Once the titles are known, if LIT's Library does not carry those particular works, Kathleen McBroom, interloan librarian, gets busy locating and acquiring those materials for the individual.

LIT's Library is one of over 6,000 college, university, special, and public libraries around the world that participate in an information sharing computer network. The system includes libraries from



Gary Cocozzoli, director of LIT's Library, electronically checks the availability of a book at nearby libraries.

the U.S., Europe, Australia, and the Virgin Islands. Each library has a terminal connected to a main computer in Dublin, Ohio.

When a book is added to the collection, Marianne Hipp, cataloging librarian, uses the system to order catalog cards, magnetic tape files, and adds LIT's name to the list of libraries holding that book so that the process of sharing the new book with other libraries can begin. At this point, a library can geographically locate a book or magazine article and electronically ask the library holding it to either send a photo copy or loan the book itself. LIT has requested materials from as far as Trinity University in Dublin, Ireland — so the long distance capabilities are utilized. Naturally, McBroom researches local libraries first.

Before these computer services were established at LIT, this type of research had to be done laboriously by hand. In many cases it could not be done at all because there are no printed versions of some databases.

The database search is an efficient research method, but it supplements, rather than replaces, more traditional research methods according to Gary Cocozzoli, director of the LIT Library.

"I don't think that knowing about these computer capabilities is ever a substitute for being familiar with other library information sources. Computers are an additional way of finding information and sometimes it is the only way to find it within a reasonable time frame. Other times it is totally inappropriate," says Cocozzoli. "For example, there are no listings dated before the late '60's in the computer. So if what you need is in a 1950 *Time* magazine, it will not show up in a database search.

"The database system has become very popular here at LIT. We've had it since January 1983 but it wasn't until faculty began requiring that students be exposed to database searches that they've really caught on. We charge an individual what it costs us to do the search but we don't add on additional fees for students like most libraries do," Cocozzoli explains. "The typical search runs between \$10 and \$15. We were fortunate to have a donation from the Chemical Marketing Research Association, which provided us with some money to be used by chemistry students and business students for advanced database searching which would be too expensive for student pocketbooks."

LIT's database search service is available to the community but it is primarily geared to students, faculty, and staff.

Computerization has also been particularly useful around the Library office.

Cocozzoli says that keeping library records is time consuming and chaotic because of the constant influx and temporary loaning of materials. Library personnel are now utilizing LIT's VAX mainframe computer in the development of record keeping and filing systems. In addition, they have been experimenting with a database of overdue materials on a personal computer which they hope to modify and expand to the VAX. Also in the works are a database of architectural and engineering projects produced by LIT students, and an acquisition system to streamline the process of ordering books. At some time in the future, most libraries including LIT's Library, will have one multi-purpose system, which people will have access to anywhere on campus to check the availability and status of an item: on-order, in-process, on the shelf, checked out, when due back, etc.

LIT's Library has greatly benefited from new information technology and Cocozzoli seems to be growing right along with it.

"I never thought I could learn so much about computers in such a short period of time," he says. "It has been professionally rewarding so far, but there is so much more to learn." He concedes that some librarians do not want to yield to the new technology that they will eventually be forced to accept.

"However," he says, "the majority of librarians are getting computer-literate and are joining the technology wave, including everyone on LIT's library staff.

"Computerization will never replace librarians in the organization of information because they are specialists in library science and we will always need specialists who can do this." Cocozzoli continues, "Most people can't just walk in cold into a library and successfully use these resources, whether in print or in the computer, without someone to guide them. On the other hand, librarians will have to continue to grow in order to keep up with the profession."

He pauses and shifts his eyes to a hefty stack of recently returned books waiting to be put away.

"Now if we could get some robotic arms to reshelve these books." □ UQM



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.



At home in LIT's College Housing Center, Kevin Zalenka chats with a friend on the phone while roommate Paul Ferrero studies.

Life at 'Larry Tech'

LIT's College Housing Center offers mix of academic, social options

By Neal Haldane

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I should have started to worry when the Lawrence Institute of Technology housing manager placed me in a room with four students and three piranhas.

But in the course of a Tuesday evening at the College Housing Center on Ten Mile Road in Southfield, I met and talked to numerous students who expressed both good and bad feelings about "Larry Tech," its social life,

academics, professors and campus life.

My roomies in number 406 for the evening were Scott Evans, Paul Ferrero, Matt Medwid and Kevin Zalenka, along with Medwid's aquatic friends Turbo, Duke and Brain.

LIT College Housing is not a dormitory. Students are placed in studio, and one- or two-bedroom units with kitchens and bathrooms. Two students live in one-bedroom units and four normally occupy a two-bedroom apartment.

The cost ranges from \$150 to \$207 per month, per student.

Room 406 contained the usual student accoutrements — a stereo, beer can wall and an assortment of posters and wall hangings purchased and purloined from various places.

In addition, Medwid just put up a new graffiti wall that afternoon. That evening, the large piece of white paper was nearly filled with signatures and sayings from people who stopped by for a visit.

Besides showing the reporter and photographer around, the 406 team spent the evening studying and avoiding studying, hanging up posters advertising their fraternity's (Sigma Phi Epsilon) upcoming party, visiting with other students in the building and holding a small birthday celebration for a neighbor.

The majority of the students spent the evening studying and the hallways were quiet except for the occasional blaring from a stereo. I was told things get a lot more lively when the weekend comes around.

The four students in 406 all tend to



SOUTHFIELD ECCENTRIC PHOTO BY JERRY ZOLYNSKY



BIZON PHOTO

Above: Kevin Zelenka tries to jump a double rope held by Marie Lezotte (left) and Jill Hottum in the hall of the College Housing Center. Nearly eight out of every 10 students are male at LIT. Below: LIT's Housing Center opened in 1977. The nine story building offers 142 one and two bedroom apartments on the south side of campus.

college.”

The commuting population and the lack of recreational facilities on campus give LIT the nothing-to-do image, an image that is not quite true, Zalenka said.

“When I first came down here from State (he transferred from Michigan State University) I thought there was nothing to do,” he said. “But there’s not much difference between the schools. LIT does not have the facilities, but the facilities are around. They are just not on campus.”

The central location in Southfield helps because ice skating, racquetball, bars, restaurants and theaters are a short drive away, he said.

“LIT has a better reputation in the business sector than it does in the private sector,” said Dennis Hayes, former student body president.

Another reason for the lack of an image at LIT could result from the lack of female students at the school. As of autumn of '84, men make up 79 percent of the 6,121 population.

However, the number of women has increased dramatically since 1974 when only 150 women attended the school.

“I thought I was going to have a guy for a roommate,” said Sue Messina.

“It was somewhat intimidating,” Marie Lezotte said. “There were three girls in my English class out of 20. But I’m used to it, I have nine brothers and sisters.”

“The social life isn’t great yet but its getting better,” Dan Carney said. “A lot more girls are enrolling and that helps.”

“I have the best of both worlds,” said Carney, who moved to the apartments from his home in Berkley. “I’m around people who are serious about studying, and I can get to visit friends from the old neighborhood.”

The more serious atmosphere in the apartments may not be everyone’s idea of how it should be done, Carney said.

“They treat this like an apartment for professional people. A lot of these people are 18 and 19 and they need to scream and shout but that’s not allowed.”

The mix of studying and social life suits Kevin Koutsillas just fine.

“I’m serious about my studying,” he said. “There’s just enough social life to keep me happy but not enough to distract me too much. It’s not wild and crazy around here. . . usually.”

That positive view of college housing is shared by most people. . . .

Zalenka summed up campus life at LIT when he said “I wish more people would get involved.”

“The stuff is there if you want to do it. It’s not as easily accessible as it is at other schools but it’s there. It’s up to the individual to get involved.” □

take a positive view of their school. They are active in the fraternity and student government and are working to improve the campus life at LIT.

“People have a misconception about LIT,” Evans said. “They think we are all egghheads and the social life is unacceptable.”

“It’s easy to get that attitude,” Zalenka said. “The stereotype fits because 90-percent of the people are only here to go to school. A small

population of students makes this a real college.”

Making more of a college atmosphere is something Zalenka and his room-mates would like to see. Through the fraternity and student government, they hope more students stick around campus.

“A lot of students come in here at 8 in the morning and leave at 2 and don’t do anything,” Ferrero said. “Somebody once asked me if LIT was a two-year

On-campus

State-of-art telecommunications system installed

Installation day was an adventure for everyone, but now that faculty and staff have mastered the intricacies of "link/release," call transfers, and conference calls, the verdict is in — LIT's new Northern Telecom PBX is a great improvement over the old phone system, and a giant step forward in the area of communications technology!

The comfortable familiarity of the old system, with buttons on the dial phones that lit up when lines were in use, is gone. In its place is a sophisticated computerized switch system called "Meridian" that gives LIT one of the most modern total communications systems at any college.

Today, phone systems are ordered "a la carte" with a vast menu of optional features from which to choose. Determining what LIT needed both now and in the future, detailing specifications, and soliciting competitive bids was a lengthy learning process, but several things were in the College's favor.

For more than a dozen years, Rosemary Hodges, executive assistant to LIT's president, Dr. Richard Marburger, had made careful notes of the comments from deans, department heads and faculty about needed improvements from a communications standpoint.

John Grden, director of the LIT Computer Center, detailed technical specifications, including the capability to transmit both voice and data over the telephone lines.

Melvin Janney, director of LIT's business affairs office, deftly managed bidding and bargaining, and trustee Jules Pallone arranged consultation with the telephone experts from Maccabees Mutual.

Improvements in telecommunications technology, particularly noteworthy in the last year or two, and fierce competition were other factors in LIT's favor.

After a careful comparison of bids, Northern Telecom was selected to provide a system that would meet LIT specifications at a reasonable cost. Estimates of savings over the present

system are expected to be at least \$40 to \$50 thousand per year and the system will pay for itself in three to five years.

The Northern Telecom system was purchased through and will be serviced by Michigan Bell, although some of the basic maintenance on the system, what is termed "first level maintenance," will now be handled in-house. This includes simple repairs and changes of extensions.

The 16 cord pair PBX that previously served LIT was a 1950-era board that had been in place for more than five years. (The board that it replaced was a circa-1932 12 cord pair PBX, complete with hand crank that is believed to have made the move from Highland Park to LIT's Southfield campus in 1955!) The



ANNETT PHOTO

switchboard was frequently overloaded, resulting in lost calls. To compensate, numerous local lines had been installed to serve the College's needs, and free up as many cords as possible for incoming calls. But the system was clearly inadequate.

By contrast, the new system has the capacity for 1300 extensions. About 400 are now in use. Internal calling is now direct dial and call transfers can be handled without an operator.

A unique "marriage" of the College's two year old electronic mail system to the new phone system also allows LIT operators to take messages and send them electronically to various departments via LIT's computer — thus avoiding lost messages when no one is available to answer the phone. An electronic directory is in place to support the operation. The directory has the capacity to

provide phone numbers alphabetically, by department and by title, indicating which extensions are assigned to specific personnel.

Another advantage of the new phone system is an auditing feature which will measure and print out calls made indicating the station, and the length of time for each call. Certain phones can be restricted to allow only local calls. Call forwarding, call "parking" (allowing a user to send calls to another phone,) and speed dialing are other new features.

An uninterruptible power supply (UPS) has also been installed, which is a battery pack with associated electronics which serve to maintain operation of the PBX and its "digital switch." Actually a minicomputer located in LIT's Computer Center, UPS has sufficient capacity to keep both the PBX and the mainframe computers running during momentary power failures. LIT's computers had been "crashing" regularly because of short power interruptions. UPS will maintain power for a period of up to seven minutes, allowing enough time for an orderly shut down that will safeguard critical data.

The full benefits of the entire \$230,000 telecommunications system will be fully realized as faculty and staff learn to use the "menu" of options in the months ahead. If the Northern Telecom Meridian PBX lasts as long as its predecessors, it should still be in service in the year 2030.

The selection process and subsequent purchase also serves as an example of the art of the "pay as you go," "do it right the first time" and "optimal utilization of resources," philosophies that have historically guided the college, according to LIT President Marburger.

"It certainly seems that the discussions which took place in the conference room under the watchful eyes of the Lawrence brothers and Dr. Buell concerning the important purchase of a telecommunications system, were guided by their principles and example," Marburger muses.

"The new system places Lawrence Tech in the forefront of communications technology," he concludes, "and it is an essential component of the advanced instructional equipment LIT needs to maintain a leadership role in technological education." □ HCL

On-campus

Surveys rank tuition among nation's lowest

Recent surveys conducted by the College Board and appearing in the August 14 edition of the *Chronicle of Higher Education* show that 94 percent of the nation's private colleges are charging higher tuition rates than Lawrence Institute of Technology.

Nationally, private colleges have raised 1985-86 tuitions 8 percent over 1984-85. LIT has increased tuition to \$68 per credit hour, up \$4 from 1984-85. The average increase at LIT for bachelor of science programs, based on a student's course load, coincidentally echos the 8 percent national average, with increases ranging from 6.1 to 9.8 percent.

A Lawrence Tech student taking a full 12 hour course load will pay \$2,448 per year, assuming three terms of classes are taken. In contrast, the *average* tuition among the nation's private colleges is \$5,418, more than 200 percent higher than LIT.

The College has been able to maintain modest tuitions, thanks in great part to shared day and evening use of facilities. In addition, the region's wealth of technological experts has allowed LIT to tap successful corporate and industry leaders as adjunct faculty. The resulting savings have been passed on to students.

"We continue to do all we can to assure that LIT maintains its tradition of offering sound, technologically-based education programs at the lowest possible cost," says Dr. Richard E. Marburger, LIT president. "However, sophisticated robotic, computer, and other technological equipment students require is expensive to acquire and maintain. For us to keep students current with what's going on in industry, such equipment and other modern teaching tools must continually be acquired.

"It is not in the best interest of students for us to keep tuitions unrealistically low by the false economy of deferring the purchase of needed educational equipment, or by reducing necessary faculty support," Dr. Marburger added. BJA



Mel Janney, director of business affairs, shows off some of the student work on display in his office.

Student talent profits from Business display

The LIT Business Affairs Office may seem like an unlikely place for students to show off their talent — but none-the-less — that's where it's happening.

Mel Janney, director of business affairs, decided that since his office receives a lot of visitors who might not visit other parts of campus, his office should be used as a space for exhibiting student work.

Nine pieces from freshman and sophomore visual communications classes are now on display and visitors have expressed interest in purchasing three of them. Sales, however, are not the purpose of the project.

"Eventually I would like to see this develop into a revolving art board. Pieces displayed could be graphics, sculpture — anything tasteful," says Janney. "Work could be displayed for a term or so and then new work could go up. I'd also like to see the idea spill over into other offices on campus. We have a lot of ideas for expanding the displays, including displays of alumni work, but we have to see what kind of interest is out there," Janney concludes.

The impact students have had on the look of the Business Affairs Office extends beyond the art wall, however.

Joni Strickfaden, Ar, IA'83, BA'84, designed the original plans for the Office's recent renovation during her fifth year at LIT.

"Joni came in to talk to me about something and we got to talking about our upcoming renovation plans. She offered her services and we accepted," says Janney.

"Judy Milosic, assistant director of business affairs, and I worked with her after she did the initial drawings. This is what came of it," he smiles, referring to his surroundings.

Janney offered an open invitation to anyone interested in seeing the office or the art wall. So, feel free to stop by the Business Affairs Office and check out what students can do at LIT. UQM

SME Chapter cited

Lawrence Institute of Technology's student chapter of the Society of Manufacturing Engineers (SME) has received the regional award for having the highest percentage of increase in membership during the 1984-85 membership year.

LIT's chapter is one of 125 chapters that make up seven regions across the country. SME student chapters expose students to the manufacturing engineering profession and its leaders. LIT's chapter experienced an increase of over 65 percent.

Stan Harris is the group's faculty advisor. BJA



Law dean is new trustee

John S. Abbott, dean and chief administrative officer of the Detroit College of Law, has been elected a trustee of Lawrence Institute of Technology.

"John Abbott's experience in college administration and law makes him an excellent addition to our board," commented Dr. Richard E. Marburger, LIT president and chairman of the College's Board of Trustees, in announcing the appointment.

Abbott received a bachelor of arts degree from Kalamazoo College, a law degree from the Detroit College of Law (DCL), and a master's degree from the University of Michigan. A practicing attorney since 1953, Abbott joined the DCL faculty in 1954. He resides in Farmington Hills.

He is chairman of the Association of Independent Colleges and Universities of Michigan, vice chairman of the State of Michigan Judicial Tenure Commission, and Commissioner of the State Bar of Michigan. He is the author of "Organizing Michigan Small Business Enterprises." □ BJA



Kennedy named admissions head

Timothy Kennedy has been named director of admissions. He will administer admission and recruitment of high school age "traditional" students, transfer students from 2 and 4 year colleges,

and adult students entering LIT.

Kennedy, 33, joined LIT in 1979 as an admissions counselor. He continued in that capacity until his recent appointment. Prior to joining LIT, he served as a laboratory manager in the biology department at Oakland Community College and has also taught at Henry Ford and Oakland Community Colleges.

Kennedy holds two associate degrees, one in liberal arts and one in applied science, from OCC, a bachelor's degree in biological science from Michigan State University, and a master's degree in biological science from the University of Michigan. He is currently enrolled in Central Michigan University's masters in business administration program.

The founding president of OCC's alumni board, Kennedy received their first Meritorious Alumnus Award in 1983. His father, Robert, is a 1949 architectural engineering graduate of LIT. □ UQM



Ivabell Harlan volunteer-of-year

Ivabell Harlan was honored by Lawrence Institute of Technology at the annual "Outstanding Volunteers of Michigan" luncheon sponsored by the Michigan Chapter of the National Society of Fund-Raising Executives.

The College honored Harlan on May 9 for her outstanding service as volunteer chairperson of the Friends of Frank Lloyd Wright • Affleck House. The group is interested in the rich history of the LIT-owned Affleck House and dedicated to raising funds for its restoration.

"The restoration is meant to enhance the college that is making an outstanding contribution to society. It is not meant only to sustain a house or to sustain an architect's reputation, but rather Lawrence Institute as a complete institution," says Harlan.

Harlan has been chairperson since March 1982. She has also volunteered

her time and energy to the Cranbrook Writers Guild, Cranbrook Academy of Art Museum, Children's Aid Society, Michigan Foundation for the Arts, Oakway Symphony, Oakland Youth Symphony, and Bethany College in West Virginia.

LIT's 1984 honoree was Lewis C. Veraldi, ME'68. □ UQM

Coming events

Addresses by visiting speakers are open to students, alumni, friends, and guests without charge. However, because lectures must occasionally be rescheduled, visitors are encouraged to call the College Relations Office, (313) 356-0200 (ext. 2200) to confirm the appearance.

October 26 Presidents Club 12th Annual Dinner.

October 31 ArchiLECTURE, Raoul Proche and Manfred Hofferter, architects from Vienna, Austria. Arch. Aud.; 7:30 p.m.

November 7 ArchiLECTURE, Diane Legge-Lohan, Chicago architect. Arch. Aud.; 7:30 p.m.

December 2 Classes begin for winter term day baccalaureate programs.

December 5 ArchiLECTURE, Tom Beeby, Chicago architect. Arch. Aud.; 7:30 p.m.

December 26-30 College closed for winter break.

January 9 ArchiLECTURE, Michael Hough, architect from Newington, Connecticut. Arch. Aud.; 7:30 p.m.

January 16 ArchiLECTURE, Edward Larrabee Barnes, New York architect. Co-sponsored with the Detroit Institute of Arts. Presented at the DIA. Call for time.

January 20 Classes begin for winter term evening baccalaureate programs.

January 23 Classes begin for winter associate studies programs.

March 17-21 and 24-28 Annual Alumni Phonathon.

April 26 Alumni Association Reunion Dinner-Dance.

April 26, 27 All-Campus Open House. □

On-campus

Career resource Center opens

LIT's new Career Resource Center is now open in the Library to serve students and alumni who need information on career opportunities and job openings. The Placement Office and the Library staff worked together to establish the center that is designed to make job search information more accessible.

Dr. Eugenie Beall, director of placement, reports that the Dow Chemical Company recently made a contribution in memory of the late Blanche Wilson, who served as the assistant director of Placement until 1984, in recognition of the important work she did to help students and alumni achieve their career objectives.

"The Career Resource Center is really an extension of career placement services," said Beall. "Blanche Wilson's vision inspired us to bring these resources together in one central location where students and alumni would have better access to the information, and a professional staff available at all times to provide assistance," she added.

Center resources include current annual reports published by local, national, and international corporations, career information and updated listings of job opportunities. Indexes including Predicast's F&S Index of Corporations and Industries, Standard and Poor's Corporation Records and the *New York Times* index are available to research additional information and published articles in various media sources. On-line database searching capabilities may be accessed for special research purposes and the VAX system will be used to keep all information updated.

LIT librarians will work intensively with students to help them use these resources. Kathleen McBroom, bibliographic librarian, will also provide class instruction as requested by faculty members to train students to effectively use these materials. Additionally, a placement packet with information on the Career Resource Center will soon be distributed to students.

Currently, LIT graduates are also being recruited to participate in a Networking Directory. Students in the human resources program in LIT's School of Management are contacting

JUDGING BY YOUR UNDERGRAD RECORDS AND YOUR APTITUDE TESTS.. I'D SAY GRADUATION WOULD BE A BAD CAREER MOVE FOR YOU.



graduates asking them to serve as informational sources for students researching career paths and alumni seeking career changes. The purpose is to provide general information on a particular place of employment, not specific job opportunities. This effort is a senior research project conducted under the direction of Douglass Koch, associate professor of management. Access to the Networking Directory will be through the Career Resource Center.

Gary Cocozzoli, Library director, noted that the Library, located on the first level of the Buell Building is open from 8:30 a.m. to 9:30 p.m. Monday through Friday, Saturday from 10:30 a.m. to 4:30 p.m. and Sunday from 12:30 to 4:30 p.m.

"Our goal," said Cocozzoli, "is to help students learn how to conduct the research and find the information they need to assist them in making important career decisions both now and in the future." □ HCL



New placement director named

Dr. Eugenie Beall has been named director of placement. As director, she

will oversee part-time employment and full-time career placement activities designed to aid LIT students and alumni in their job pursuits.

Dr. Beall joined LIT in 1982 as a special projects administrator. Her former responsibilities included administration of the Chartered Property and Casualty Underwriters (CPCU)/Chartered Life Underwriters (CLU) insurance programs and the "Lets Read" program at LIT.

Before joining LIT, Dr. Beall was academic program coordinator for the Wayne State University/University of Michigan-sponsored University Courses in Adult Education. She holds a B.A. degree from U of M, an M.A. degree from the University of Detroit, and a Ph.D. from Wayne State. □ UQM



National ASME award goes to Marburger

Dr. Richard E. Marburger, president of Lawrence Institute of Technology, received an Outstanding Leadership Award from the Metropolitan Section of the American Society of Mechanical Engineers, May 21 in New York City.

Previous honorees include Dr. Werner von Braun, William E. Simon, and the chairman of Westinghouse, Donald C. Burnham.

Dr. Marburger has served as LIT's president since 1977. He holds three degrees from Wayne State University, including the Ph.D. in physics. □ BJA



Death takes John Hamann, longtime member

John R. Hamann, member of the LIT Corporation and former trustee, passed away September 4.

Mr. Hamann, who retired in 1980 as vice chairman of the Detroit Edison Company, served as a member of the LIT Corporation since 1974. In 1982, LIT awarded him the honorary degree, Doctor of Engineering.

A registered professional engineer, Mr. Hamann joined Edison in 1937, and held a number of engineering and management positions, including president. He received his B.S.M.E. and an honorary Doctor of Science degree from Michigan State University. He served as a member of a number of civic and professional organizations. He was a director of Bon Secours Hospital and the National Bank of Detroit, the Greater Detroit Chamber of Commerce, the Engineering Society of Detroit, and the Economic Club of Detroit.

Mr. Hamann was past president of Grosse Pointe Unitarian Church and a Grosse Pointe city councilman from 1967-70.

He is survived by his wife and four children. □ BJA

Co-op program off to good start

Making the transition from classroom to corporate environment has always been a challenge. The right job takes more than theoretical training. Practical experience and the confidence that comes from knowing how to apply classroom training to real life situations can make all the difference. This is the idea behind co-operative education — giving students a chance to gain valuable on

the job experience before they graduate.

In fall, 1985, LIT is officially launching a Co-op program for mechanical engineering students. It is a practical academic program that will give students on the job experience. Periods of study will alternate with periods of employment and work assignments will be carefully monitored by LIT faculty. Students completing their second year of schooling are eligible to apply.

Although some students have been involved with informal co-op arrangements for years, this new ME program is believed to be the first organized effort the College has engaged in since the early 1950's.

Students accepted in the program will be able to develop a progression of skills and gain on the job experience that will help them be off to a running start in the job market. They will receive both academic credit and compensation for the work performed.

Professor George Schneider, newly appointed assistant to the dean in the School of Engineering, has responsibility for the Co-op program.

"It's economics that make it work", says Schneider. "The economic advantages for employers and students are substantial. Employers find an employee that can perform quality work at reasonable cost — one that they can mold and groom without making the large financial investment required to train a new employee.

"The students," Schneider adds, "learn to associate the work that they do with what they are learning in the classroom and the textbook. They get a handle on what they want or don't want in terms of a career, and they learn how to use their theoretical training to get a job done."

It takes longer to complete degree requirements in a Co-op program. Twelve weeks of study alternating with twelve weeks of classroom training add approximately one year to a degree program. Often however, corporations offer Co-op students permanent jobs when they graduate in positions higher than entry level.

Schneider is working to build a network of corporate participation in Michigan and other states, and to develop job assignments that mesh with the academic program. Avonelle Slagle will assist, coordinating placement and working to match students to the right job assignments.

Special training for Co-op students in writing a resume, conducting a job search and interviewing skills will be offered, according to Slagle. □ HCL



Retiring director Roger Shtogrin, IM'61; secretary-treasurer Robert Ellis; and director Richard Kowalske, ME'61; were among those honored at the Presidents Club Spring meeting by 1984-85 Chairman Vic Kochajda, EE'52.

Presidents Club visits Cranbrook

Cranbrook Institute of Science in Bloomfield Hills was the site of the LIT Presidents Club spring meeting on May 5. The visit featured an after-hours tour of the science museum and a laser light concert in the planetarium. More than 90 members attended, and were treated to hors d'oeuvres and refreshments as they explored the museum's extensive exhibits.

Victor L. Kochajda, EE'52, the club's 1984-85 chairman, led a brief meeting highlighted by remarks by LIT president, Dr. Richard E. Marburger. Retiring secretary-treasurer, Dr. Robert W. Ellis, and retiring directors, Sam Dukes, ME'59, Richard C. Kowalske, ME'61, and Roger F. Shtogrin, IM'61, received plaques recognizing their service to the Club.

Officers and directors for the 1985-86 year were announced: chairman, Marlyn K. Lisk, MT'69, IT'70, IM'73; vice chair, Barbara C. Staniszewski, Ma'77; secretary-treasurer, Dr. Louis W. Petro; and continuing as directors, Arthur L. Kelley, ME'47; Victor L. Kochajda, EE'52; G. Donald Pierce, ME'48; and Alvin R. Prevost, ArE'51. Three new directors were elected at the meeting: Carl W. Cowan, ME'40; Eugene A. Tauriainen, EE'68; and Michael G. Zulinski, IM'74. □ EM

On-campus



Dr. Amnon Sitchen, (left) a technical specialist with Ford's Light Truck Suspension Design and Development department, Dr. Richard Lundstrom, (center) professor of engineering, and student Marc Sarkissian inspect the spot lasers used to measure wheel alignment in a research project at LIT's new vehicle dynamics lab. The lasers were provided by Selcom, Inc., a company based in Sweden.

New vehicle dynamics lab opens

To keep pace with the rapid changes in scientific and engineering research, LIT has opened a new Vehicle Dynamics Laboratory (VDL) that provides the equipment and resources needed to address specific problems, as well as research and development needs of industry and engineering education. The facility is located in LIT's recently acquired Campus Affairs and Activities Center-East.

LIT mechanical engineering students are now able to gain practical experience and become involved in research activities as a part of their educational experience using the VDL facilities. The lab has the capability to support academic programs in vehicle dynamics, to provide resources needed for student

projects and to bring to the campus sponsored research and development projects in automotive engineering.

Corporate contributions of equipment and services have helped to expand the labs capabilities. Facilities include a computer aided vehicle engineering lab, a noise and vibrations lab, three chassis and powertrain development vehicles, a surface place for chassis measurement, and a laser wheel alignment measuring device. A chassis dynamometer will soon be installed enhancing the labs ability for power and brake system development.

The labs first research and development project was initiated by Ford Motor Company in response to a contact made by LIT alumnus, Fred Drotar, ME'61.

Ford is providing funding and technical assistance to investigate the feasibility of using lasers to measure wheel alignment on the assembly line. Selcom, Inc., a company based in Sweden, provided the lasers.

Dr. Amnon Sitchen, a technical specialist with Ford's Light Truck Suspension Design and Development department, and Dr. Richard Lundstrom, professor of engineering, are working with LIT seniors Marc Sarkissian and Tom Rhodes, using this state-of-the-art equipment for the experiments. Phase II of the project will test scanning versus spot lasers to perform the same tasks.

"Working with the best people from industry, who expect nothing but the best from you, has been an invaluable experience," says Sarkissian. "You learn to be organized and responsible, to use what you have learned in the classroom, and make the connection between theory and practice.

"Where else could I get this kind of training?" Sarkissian asks. "I would volunteer or even pay to have this experience — and I am paid to do it — can you imagine that?"

Since it was first established several years ago, the VDL has evolved from a simple Honda stationed in the parking lot, to a vital laboratory with precision instrumentation capable of sophisticated research. The 3000 square foot facility is under the direction of Dr. Lundstrom.

"It's very gratifying to see students like Marc develop their abilities, learning to deal with people in industry, and testing their theoretical training," Lundstrom says. "They learn how to make it work, to take a project from start to finish, to think on their feet and manage that important commodity, time."

Lundstrom says that other industrial sponsors for projects are being added to expand the areas of research and development.

"Aerodyne Dallas, Inc. is sponsoring a project that will investigate the effects of vibration on variable geometry turbochargers using a Chrysler 2.2 liter engine," he continues. "Projects like these help to finance the lab through private enterprise and also produce income. It is an excellent example of the American free enterprise system in action," Lundstrom concludes. □ HCL

LANESE PHOTO



ANNETT PHOTO

Kris Gumper (center) winner of the 1985 Metropolitan Spelling Bee, receives congratulations from LIT President Richard Marburger and Detroit News Editor Lionel Linder. Kris bested a field of 30 challengers from regional Bees across Michigan. LIT co-sponsors the Bee with The Detroit News to stress the importance of scholastic excellence.

1985 Spelling Bee Champ crowned on campus

"I guess I'm a pretty good speller," Kris Gumper told a *Detroit News* reporter after winning the 1985 Michigan Spelling Bee, April 17 on campus. The Michigan Bee is co-sponsored each year by LIT and *The Detroit News*.

Gumper, an 8th grader from the Kalamazoo suburb of Parchment, became the champ after successfully spelling "bacciferous" (a berry-producing plant) and "hematogenous" (the body's ability to produce blood) — words misspelled by runner-up Chinyere Dike, a student from Detroit's Richard Middle School. Gumper, who attends Parchment Middle School, won a trip to the Scripps-Howard national contest in Washington, D.C., a new edition of the Encyclopaedia Britannica, a 13-inch Zenith color T.V., and other prizes.

Thirty students, representing 23 area bees in 65 counties stretching from

Cheboygen to Monroe, travelled to LIT's campus to vie for the chance to compete in the national competition in Washington, D.C. The contestants — 5th, 6th, 7th and 8th graders — represented the best spellers of some 500,000 spelling bee participants from 550 Michigan schools. □ UQM

Campus parking woes solved

One test of an LIT student's ingenuity and intelligence has frequently been the challenge of finding a parking spot. Spaces have been at a premium for many years due to burgeoning enrollment.

Now that the extension of the north parking lot, (lot "C") has been completed, however, some new measure of personal creativity will have to surface. More than 1,500 new or refurbished spaces are now available to meet student parking needs as the result of a recent capital improvement project.

The project is part of the recent

Campus Affairs and Activities Center development program, funded in part by the contributions of alumni and friends, and a challenge grant from the Kresge Foundation. Construction, including resurfacing, paving, and installation of drainage and lighting systems, will be completed this fall. Landscaping will be finished next year.

The expanded lot will also serve the College's new Athletic Building being constructed as part of the Campus Affairs and Activities Center on Civic Center Drive.

Improvements, according to Jack Armstrong, director of campus facilities, also include an upgraded surface that will serve the needs of the annual "Solo I Driving Competition" sponsored jointly by LIT and the Sports Car Club of America that takes place in parking lot "C." Faculty and handicapped parking adjacent to the lot has also been redesigned to help students recognize that these are reserved spaces.

"Parking facilities are now expected to meet LIT needs for the foreseeable future," Armstrong concluded, "and since many students will continue to share rides for economic reasons, demand for parking spaces is further eased." □ HCL

Milestones

Appointed — **Jack Armstrong**, director of campus facilities, has been appointed to the Southfield Building Authority. The Authority owns the City's municipal properties and buildings, sells and retires construction bonds, approves repairs and maintenance on city properties, obtains bids and awards contracts.

The Authority is a 5 member body appointed by the city council. Authority members serve five years and meet monthly. Armstrong joined LIT in 1981 and previously served Southfield as director of facilities and construction project coordinator for the Southfield Civic Center project.

Elected — **Gary R. Cocozzoli** has been elected to the position of member-at-large of the Board of the Academic Libraries division of the Michigan Library Association.

Appointed — **Donald Condit** has been named an assistant professor of management. Before joining LIT, Condit was an assistant professor at the University of Detroit and a lecturer at Wayne State University. Condit also held the positions of assistant to the president at Cargill Detroit Corp. and

On-campus

manager of production and material control at Bendix Corp. Condit received a bachelor's degree in business administration from Notre Dame and a master's degree in business administration from the University of Michigan. He is a member of the American Production and Inventory Control Society.

Elected — **Richard H. Cummings**, trustee and member of the LIT Corporation, has been elected senior vice chairman of National Bank of Detroit and NBD Bancorp. He will continue to supervise NBD's operating and credit administration divisions and will also oversee a number of strategic planning issues. He joined the bank in 1948.

Elected — **Dr. Robert W. Ellis** has been elected a director of the Detroit Chapter of the Michigan Society of Professional Engineers (MSPE). Ellis has been dean of Lawrence Institute of Technology's School of Engineering since January 1984. During his three year term as MSPE director, Ellis will assist in establishing programs for the Detroit Chapter of the MSPE and will represent Detroit's professional engineers as needed. 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.

Selected — **Karl H. Greimel**, FAIA, has been selected by the National Council of Architectural Registration Boards (NCARB) to be one of 18 Master Jurors in the nationwide architectural licensing process.

Greimel has been the dean of LIT's School of Architecture since 1974. He was chosen from a group of 700 architects who were screened on the basis of their past performance as jurors. As a Master Juror, Greimel is responsible for overseeing the grading of more than 6,000 architecture license applicants and for training other jurors in the grading procedure. He is also responsible for efforts aimed at the standardization of architectural licensing nationwide.

The NCARB is a council comprised of representatives from each state and is responsible for the entire architectural licensing process across the country.

Appointed — **Rosemary Hodges**, executive assistant to the president at LIT, has been appointed to the Oakland County Community Growth Alliance (CGA) by Daniel T. Murphy, Oakland County executive. He has asked her to represent the interests of higher education in Oakland County.

The Michigan Department of Commerce has encouraged regional areas of the state to form CGA's to consolidate the efforts of the hundreds of local economic development organizations in Michigan. The purpose of the Oakland County CGA is to provide communication and coordination for these

organizations. Hodges is one of 39 members representing local committees and development organizations, private industries, higher education, labor, and utilities and railroads.

Honored — **Harold Josephs**, P.E., has been presented the 1985 "Engineer of the Year Award" by the Michigan Society of Professional Engineers (MSPE).

Josephs, associate professor of mechanical engineering, was presented the award in recognition of demonstrated leadership in education, his efforts on behalf of the National Society of Professional Engineers and MSPE student programs, and his continuing interest and efforts to enhance the engineering profession. Josephs is also president of Kehilla Associates, Inc., an engineering consulting firm in Berkley. He holds a bachelor's degree from the University of Pennsylvania and a master's degree in mechanical engineering from Villanova University.

Appointed — **Gary Kecskes**, Assistant to the dean of architecture at LIT, has accepted an invitation to serve on the Architectural Curriculum Advisory Committee of Oakland Community College. As a member of this committee, Kecskes will be offering his insights on curriculum review issues, suggestions for improvements and refinements within the current architectural program, and commentary on related matters.

Selected — **Douglass Koch** has been selected to serve in two top level positions in the Detroit Personnel Management Association (DPMA). Koch, an associate professor of management, has been selected to serve on the executive board of the DPMA and has been asked to assume duties as vice president — membership. The DPMA is the largest organization of personnel professionals in metropolitan Detroit.

Selected — **Dr. Leland A. Lahr**, professor of management, has been selected to receive the Valley Forge Honor Certificate in the category of economic education by the Freedom Foundation at Valley Forge.

Elected — **Kathleen McBroom** has been elected to chair the Reference Caucus of the Michigan Library Association for 1985-86.

Publishes — **Josselyn Moore** recently had an article published by the National Park Service. Moore, a lecturer of humanities, wrote the article based on her findings during a recent archeological excavation in Georgia and South Carolina. She was contracted to analyze prehistoric plant remains recovered from a series of excavations which came about because a dam was being built that would eventually flood a number of culturally significant archeological sites.

Appointed — **M. J. Morell** has joined LIT's Development Office. He will play an active role in LIT's new three year, five million dollar fund raising effort — "A Campaign for Lawrence," focusing primarily on corporate "in-house" campaigns and on the solicitation of small and medium size corporations, according to G. Robert Harrington, vice president for development.

Morell recently retired from AT&T Information Systems, where he was zone manager for metro area Phone Center Stores. Prior to that he held a variety of sales, personnel administration, and management positions over 30 years with Michigan Bell Telephone Company. He holds a B.S. in economics and business administration from Michigan State University.

Certified — **Dr. Louis W. Petro** has passed the Certified Information Systems Auditors Examination administered by the EDP Auditors Foundation. In addition, he has been awarded a certificate of excellence for outstanding performance on the Certified Internal Auditor Examination. Petro has been dean of Lawrence Institute of Technology's School of Management since 1979. Passing the ISA examination makes him eligible to apply for certification as an Information Systems Auditor. Petro is a Certified Public Accountant, a Certified Energy Manager, a Registered Professional Engineer, and has a certificate in Management Accounting.

Exhibits — "Adam's Race," an exhibit of drawings and collages by **Thomas Regenbogen**, was recently shown at the Art Gallery of Windsor.

"Adam's Race" is an exhibition of collages in which the artist focuses on human form and explores human values and relationships. Regenbogen is an assistant professor of architecture. His work has been shown at the Detroit Artist Market and one of his pieces is among the Detroit Institute of Arts' permanent collection.

Named — **George Schneider, Jr.**, DT'73, has been named an eminent engineer by Tau Beta Pi engineering honor society. The award is based on professional competence and career accomplishment.

Schneider received a bachelor's degree from Kent State University, and a M.B.A. from Case-Western Reserve. He was recently promoted to associate prof. of mechanical engineering and assistant to the dean.

Funded — **Frances Vallely**, instructor of mathematics and computer science, was part of a five-person team from Oakland University to receive a \$40,000 grant from the United States Air Force to research artificial intelligence in computers. She spent the summer conducting research at Lowry Air Force Base in Denver, Colorado. □



Robert Burger, G.M. vice president and general manager of the Chevrolet Division presents the keys to a new IROC Camaro to Dr. Robert Ellis, dean of LIT's School of Engineering.

GM donates Camaro

A 1985 IROC Camaro has been donated to LIT's School of Engineering by the Chevrolet Motor Division of General Motors Corporation.

"The IROC will be used exclusively for demonstration and laboratory evaluation by our mechanical and electrical engineering students," says Dr. Robert W. Ellis, dean of engineering. "Testing will be done in conjunction with our vehicle dynamics and internal combustion laboratories by students in various classes and by senior project groups working extracurricularly.

"We are continuing the development of our vehicle dynamics, acoustics, and internal combustion labs in order to strengthen our academic programs in these areas. Our students will benefit a great deal from having the IROC available to them," Ellis concludes. □ UQM

SME scholarships

LIT has received a grant of \$4,000 from the Society of Manufacturing Engineers (SME) to establish a scholarship program for mechanical engineering students in the manufacturing concentration. The gift was made through SME's Education Foundation. The funds will be matched by LIT to launch the program for the 1985-1986 academic year.

Four \$2,000 scholarships will be

awarded providing \$1,000 a year for two years. Awards will be based on merit with considerations given to financial need.

To be eligible, students must be at the junior level concentrating in manufacturing engineering.

According to George Schneider, associate professor of engineering, SME has given more than \$50,000 to LIT to support manufacturing engineering programs.

SME is a national organization, with more than 75,000 members in 68 countries, dedicated to advancing the education of manufacturing engineers. The student SME chapter at LIT has 100 members. □ HCL

New show choir plans to 'jazz up' campus life

"Technojazz" or "Stage Connection" are possible stage names for LIT's newly formed show choir — a flashy group of 16 guys and gals who combine their singing and dancing talent to perform half hour arrangements of pop and soft rock tunes.

The show choir debuted during LIT's 1985 Open House and is the students' first attempt to form a collegiate musical group in more than a decade.

According to the show choir's founders and organizers, John Sammut, a freshman in electrical engineering, and

Mike Powaser, a sophomore in mechanical engineering, the possibilities for growth are endless.

Both Sammut and Powaser were members of an award winning show choir at Divine Child High School in Dearborn.

"It was tough to be optimistic at first," says Sammut, "because we were starting with nothing. We had to assemble at least 16 talented people who were willing to work together to put on a show. We had to go off campus to find a director since there isn't anyone with a suitable background on campus. We couldn't find an instrumental director for the jazz band so we had to rely on the band's dedication — and they pulled through for us. The LIT auditorium has all the basics but it didn't have appropriate lighting and sound equipment for our needs."

Powaser laughs, "The two of us did everything the first year but teach the music. It was a rough start to say the least. But now that we've got the first show behind us, we are extremely hopeful for the future."

Sammut and Powaser say they would like to do a winter and spring show this year with a troupe of 24 performers. They also are hoping to build an hour and a half program with individual duets and quartets. Their dream is to produce a show professional enough to compete with other colleges and universities.

"Competitions take a lot of money and a lot of professionalism," says Sammut. "But it was through competitions that our group at Divine Child really took off. We got a lot of great ideas by watching other performers."

LIT's show choir was hired to do two fundraising shows off campus last spring. Powaser and Sammut believe that once LIT's show choir is established, it will become financially self sufficient.

"Mr. Moon (director of student activities) and the faculty from arts and science have been a great help. We really appreciate the College's support and we know that once we prove ourselves there will be even more support," says Powaser.

The pair has long term dreams of establishing a credit program for show choir participants, but for now they're busying themselves preparing for this year. Their immediate concern?

"Shooting for a flasher show."

□ UQM

On-campus

Phonathon volunteers raise \$53,500

Enthusiastic volunteers and generous alumni made this year's LIT Alumni Phonathon an unqualified success. The event, held March 18-21 & 25-28 and April 23-24, raised \$53,500 in pledges and matching gifts from 721 alumni around the country, up significantly from the \$39,000 raised during the 1984 Alumni Phonathon. The final total will be higher, since new pledges are arriving daily from alumni who were "undecided" when phoned.

The Alumni Phonathon is an important part of *A Campaign for Lawrence*, the major fund raising effort the College now has underway. The money raised will help fund: outfitting of the new Athletic Facility; a major addition to the Engineering Building; ongoing programs, including the Library; restoration of the Frank Lloyd Wright/Affleck House; and special needs in each of the five Schools.

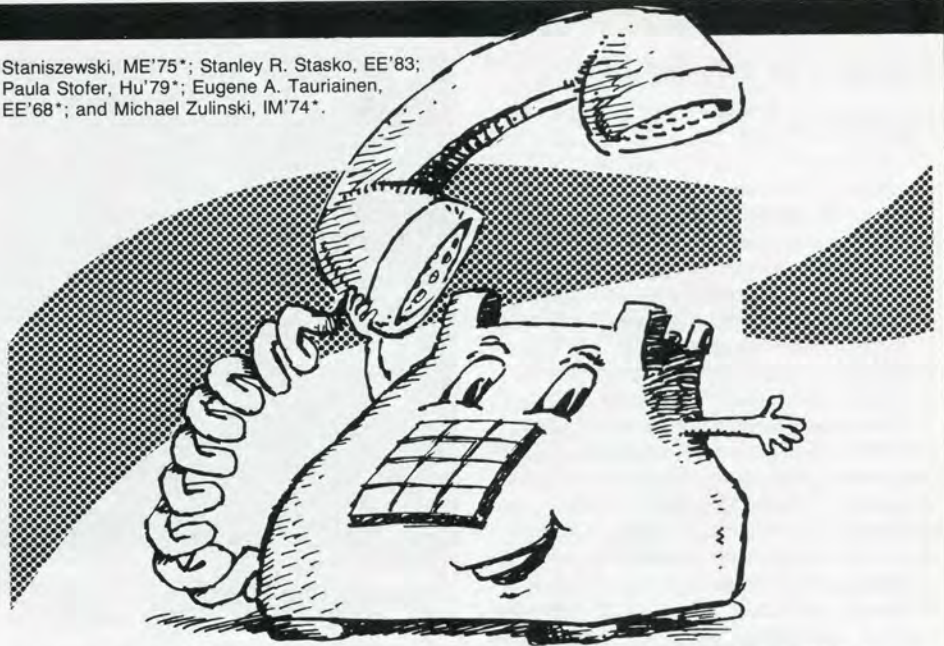
This year's team of 135 volunteer callers — alumni, students, faculty, staff and friends — did an outstanding job. During the ten nights of the event, they spoke with 2,352 alumni, and wrote personal notes to hundreds of other alumni who could not be reached by phone. Also important to the success of the Phonathon was the assistance provided by College staff and campus organizations, who helped with volunteer recruitment, publicity and logistics.

Thanks and congratulations are extended to all who participated in the 1985 Alumni Phonathon.

LIT alumni who volunteered are:

Roger Avie, IM'68*; Frank Bell, ME'54*; Cynthia Blank, Ar'83; A. Robert Bliven, ArE'51*; Carl Cowan, ME'40*; Robert F. Dedoe, ME'48*; Joseph Dyki, ME'62*; Peter S. Egidian, BA'84, Accounting Club; John R. Fawcett, ME'43*; Robert E. Hannon, IM'83; Robert E. Heintz, ME'51, EE'61*; Roy Hoenle RAC'58, IM'76*; Arthur L. Kelley, ME'47*; Victor L. Kochajda, EE'52*; Charles A. Koury, MA'73; Henry Kovalsky, ME'62*; Marilyn K. Lisk, MT'69, IT'70, IM'73*; Ken Livingston, ArE'65*; Dana Markey, ME'69*; James S. Masalskis, CE'83; Leslie Mollon, ME'56*; Francis E. Noggle, ME'70*; Calvin Opperthausen, EE'51*; G. Donald Pierce, ME'48*; Bruce Polkinghorne, ME'50*; Alvin R. Prevost, ArE'51*; George Rinaldi ET'61, IM'76; Leo Sanker ME'49*; Alice Selewonik, Ar'83; Henry Selewonik, IM'57*; Roger F. Shtogrin, IM'61*; Donald J. Smith, EE'55*; Tony Spadafore, IT'56; Barbara C. Staniszewski, Ma'77*; Gary P.

Staniszewski, ME'75*; Stanley R. Stasko, EE'83; Paula Stofer, Hu'79*; Eugene A. Tauriainen, EE'68*; and Michael Zulinski, IM'74*.



LIT faculty and staff who served as volunteers are:

Alice Avedisian; Daniel Bozak; Cleophas Buck*; Norman Burkhardt; David Canavasio; Patty Cogan; Dr. Oliver S. Coleman; John Connors; George Cousins; Edward Darling*; Barbara Davidson; Dr. Robert W. Ellis*; H. Robert Farrah; G. Robert Harrington*; Stanley Harris*; Marianne Hipp; Elizabeth Hood; David R. Hubbs*; Grace Hood Huber; Melvin Janney*; Keith Kesling*; Dr. Lucy King; Douglass Koch; Soter "Art" Liberty; Zaven Margosian*; Richard S. Maslowski*; Kathleen McBroom; F. Hal McDavid*; Margaret Mulholland; Stanley Mullin; Larry Mumford*; Corinne K. Opitack; Louis W. Petro*; Salim Saleh; William Sheehy; Avonelle Slagle; John S. Sweda; Michael Sweeney; James O. Trew*; and Leonard J. Walle.

Student volunteers and the organizations they represent included:

Steve Andridge, A.G.C.; Donna Barazsu, Chi Omega Rho; Robert J. Bennatts; Keith Bradley, Phi Kappa Upsilon; Gilbert D. Bredow, Eta Kappa Nu; David J. Brunette, Ham Club; Brian Christy, Phi Kappa Upsilon; Thomas G. Coral, Alpha Sigma Phi; Scott P. Crowell, Alpha Sigma Phi; David Darbyshire, Phi Kappa Upsilon; Gregory P. Denomy, School of Engineering; Sloan M. Dibert; Ray H. Elder; Brian Elzerman, Alpha Sigma Phi; Gary Evans, Phi Kappa Upsilon; Scott Evans, Sigma Phi Epsilon, Student Government; Gary (Mike) Grigg, School of Arts & Science; Robert J. Grden, Computer Center; Ted Grigoriou, Sigma Phi Epsilon; Jill Hottum, Chi Omega Rho; Matthew J. Hubbard, SC-AIA; Anthony Jackson, Phi Beta Sigma; Todd Alan Jager, Alpha Sigma Phi; Sue Jimenez, Chi Omega Rho; Toni King, BESA; Phillip N. Kline, School of Architecture; Anne Lezotte, Sigma Phi Epsilon; Marie Lezotte, Chi Omega Rho; Joseph Luellen III, Sigma Phi Epsilon; Todd Maciejewski, Phi Kappa Upsilon; Melissa Macks, MSPE; Patti L. Mahoney, Chi Omega Rho; Mark Mamassian, Accounting Club; Tom Margosian; William McCormick, Phi Kappa Upsilon; Vincent

Marshall McDowell, SC-AIA, Freshman Class President, Student Government, Alpha Sigma Phi; John Paul Minear, Alpha Sigma Phi, SC-AIA, Student Government; Mallory T. Mitchell, Jr., BESA, IEEE-Computer Society; Tim Mullins, Sigma Phi Epsilon, Pi Tau Sigma; Joe Petrosky, ASME, Pi Tau Sigma, Tau Beta Pi; Stacy Prewitt, BESA; Jeff Reinhold, Sigma Phi Epsilon, Eta Kappa Nu; Jessica I. Roache, SWE; Steve Shahinian, Alpha Sigma Phi, *Tech News*; Gregory Smith, ASCE; Kevin M. Smith, Alpha Sigma Phi; Lisa A. Stacey; Daniel J. Styles; Janet Terbrack, Accounting Club; Byron Todman, Phi Beta Sigma; Bruce Trojanowski, SPS, Phi Kappa Upsilon; and Barbara L. Weaver, Chi Omega Rho.

Friends of LIT who volunteered are:

Janet Forgione*; Mary Kesling*; Suzanne Lezotte, Sigma Phi Epsilon; and Edward S. Papelian*

(*Members of the LIT Presidents Club)

The following people and organizations deserve special thanks for their help in making the event possible:

Maccabees Mutual Life Insurance Company, for providing the Phonathon site; The LIT Alumni Association and the LIT Presidents Club for their assistance with recruiting volunteer callers; Dennis Hayes (LIT Student Government), Neil Ruff (*Tech News*), Jennie Casai (School of Management) and Patty Cogan (School of Engineering) for their special efforts to publicize the Phonathon; Judy Milosic (LIT Business Office) and Gary Sachs (LIT Computer Center) for providing computerized alumni profiles; Jack Armstrong (Campus Facilities), David Payne and Joe LaLonde for help with the day-to-day details of transporting equipment and supplies; Debbie Faulkner and the Servomation staff for arranging each night's dinner and refreshments; Jim Valentine and Metro Blue Print, Inc. for technical assistance with publicity posters; Bruce Annett (College Relations) and Cally Tatum for designing the printed materials used during the Phonathon. □ EM

On-campus

Newcomen Society honors LIT

Lawrence Institute of Technology's thirty years in Southfield were recognized by the Newcomen Society of the United States when the group held their 1985 Michigan dinner June 6 on campus.

The Society, headquartered in Exton, Pennsylvania, was founded in 1923 to study and recognize achievement in American business and society.

Several hundred civic, political, and corporate leaders heard remarks presented by guest of honor and speaker Dr. Richard E. Marburger, president of the College. He was introduced by Newcomen member and LIT member of the corporation Dr. Perry E. Gresham, president emeritus of Bethany College. Presiding officer of the dinner was David K. Easlick, chairman of Michigan's Newcomen Committee and retired chairman of Michigan Bell.

The Newcomen Society perpetuates the life and work of Thomas Newcomen, 1663-1729, whose invention in 1712 of the first practical atmospheric steam engine heralded the beginning of the Industrial Revolution. □ BJA

Alumni discount

The Alumni Association's merchandise and service discount program, free to Association members, has expanded again this year with the addition of a full service contracting firm.

The popular member benefit, now in its 11th year, offers Alumni Association members reduced prices on items ranging from automobiles, home appliances, jewelry, and office supplies to photography, furnace repairs, paint, linoleum, and masonry and construction contracting. Car leasing, LIT bookstore items, marine products, video taping, and formal wear rental are also included.

To join the Association and receive member benefits, including the Discount Program, graduates simply need to make a gift of any size and for any purpose to the College. For more information, call either Bruce Annett, director of college relations and alumni services, or Bob Harrington, vice president for development, at (313) 356-0200. □ BJA



Dr. Richard E. Marburger shares a thought during an address he gave before the Newcomen Society on campus. The Society, founded in 1923, convened at LIT June 6 to recognize LIT's 30th anniversary in Southfield.



"You are mistaken, Evelyn, I am not trying to play 'kneesies' with you! I am an Eagle Scout, a graduate of Lawrence Tech, a member in good stead of the Economic Club of Detroit, and I have not played 'kneesies' with anyone since my days at Redford High!"

Wirth cartoon from *The Detroit News*, September 16, 1985. Reprinted with permission.

Alumni Association News

Past year 'especially productive' says Alumni prexy

The 1984-85 period has been especially productive for the LIT Alumni Association. After many years of hard work, fund raising campaigns, planning delays, etc., the long awaited Campus Affairs and Activities Center has finally become a reality. Ground breaking for the third component — a gymnasium — was held November 28, 1984 at the north end of the campus, with the actual construction scheduled to begin later this year.

With the subsidy that LIT allocates to the Association in lieu of us requiring dues, we have been able to offer a greater variety of programs than ever before. Our biggest annual event, the Alumni Dinner Dance, was a smashing success this year with a near capacity crowd (300 people) attending. Other events which the Association sponsored and subsidized were: the Detroit Lions Safari in the fall, theater night at the Fisher or Masonic Temple, a family roller skating outing, Henry Ford Museum trip, a trip to Stratford, Ontario, and a baseball game at Tiger stadium.

Each of these activities has been coordinated by members of your Board of Directors, who deserve special commendation and appreciation for a job well done. Throughout my first year as president, the dedication and hard work of the board and other officers in activities planning and fund raising has been both a *source of pride and enormous satisfaction*.

The Board has also, during the past year, re-written sections of the Association Bylaws, and helped conduct another successful "phonathon" in March to support the CAAC and the addition to the engineering building. The Association is also a major contributor to the restoration of the "Spirit of Lawrence Tech" airplane, recently returned to campus, and has funded many of the necessary materials to restore the plane to its original condition.

The Association is committed to enhancing the high degree of LIT's academic excellence and also continuing campus improvements. The Board worked toward these goals by funding such projects as the Detroit Science

Fair, Wilson Daugherty Essay Contest, books for the College library, and restoration of historical photographs from LIT.

I have been proud to be a part of the organization during the last year and share in the many accomplishments achieved by the Board.

Thank you for your encouragement, support, and involvement. We look forward to your participation.

Charles A. Koury Ma'73
1984-86 President
LIT Alumni Association

Alumni elect three

Three graduates have been elected by the general membership to three year terms as directors of the LIT Alumni Association. The new directors, whose election was certified at the Association's annual business meeting held June 11 on campus, are Roy Hoenle, RAC'58, IM'76; and Judith S. Milosic, Ma'76. Incumbent Roger Shtogrin, IM'61, was re-elected.

Hoenle is supervisor of facility engineering for General Dynamics Land Systems. He was appointed as director to fill an unexpired term in 1985, has

served on the Association's Dinner-Dance/Reunion Committee for three years and served as chairman of the 1985 Dinner-Dance/Reunion Committee. He is a member of the LIT Presidents Club.

Milosic is assistant director of business affairs for Lawrence Institute of Technology. She has served on the Association's 1985 Dinner-Dance/Reunion Committee, the 1982 and 1984 Stratford Theatre Committee, the 1982 Michigan Winery Tour Committee, and 1982 Founders Day Committee.

Shtogrin is benefits administrator for General Dynamics Land Systems. An Association director since 1973, he was Association vice president, 1974-75, and president, 1975-77. He also served the LIT Presidents Club as director 1977 to 1985, and was chairman of that group in 1980-81.

Alumni Association leadership includes 10 directors, including the Association's immediate past president, and five officers. Three directors are elected each year in rotation and officers serve two year terms. The Board, led by Charles Koury, Ma'73, president, meets at 7 p.m. on campus the second Tuesday of each month during the academic year. Alumni are welcome to attend the meetings. □ BJA



The 1985-86 Alumni Association Board of Directors includes (first row L to R) Richard Darbyshire, ME'54, EE'61, treasurer; Henry Selewonik, IM'57, vice president; Charles Koury, Ma'73, president; Henry Kovalsky, ME'62, recording secretary; and Robert Heintz, ME'51, EE'61, corresponding secretary. In the second row are directors Tony Spadafore, IT'56; Paula Stofor, Hu'79; Roy Hoenle, RAC'58, IM'76; John Fawcett, ME'43; Roger Avie, IM'68; Ted Milek, ME'51; Dennis O'Connell, IM'70; Henry Tamagne, ME'51; Judy Milosic, Ma'76; and Roger Shtogrin, IM'61.

Alumni Association News



Class of '35 (From top L to R) Ray Urban, Leonard Singer, Earl Volz, Phillip Muller, Michael Bifano, Vincent Kaye, and William Shade.



Class of '75 (From top, L to R) Wayne Brock, Ron Sanders, Gary Balog, David Richards, Richard Kostrzewski, Gary Rotter, Robert Kulczycki, Joseph Manninen, Thomas Bailey, Gary Staniszewski, Jory Brooks, Howard Whitston, Mark Bill, Michael Lapkewich, Frank Rice, Thomas Ladoski, Brian Karaska, and Stephen Tomsick.



Class of '60 (From top, L to R) Arthur Van Stelandt, James Boeberitz, Floyd White, Coda Edwards, Richard Sobiechowski, Noel Smith, Harry Lund, Kendall Brooks, David Morrison, Clark Ewing, Kenneth Wuepper, and Donald Rusas.



Sigma Phi Epsilon Sig Eps combined their reunion with the Alumni Association. Attendees included (from top, L to R) Alan Croll, Suzanne Croll, John Rouser, Mark Bedell, Debra Schneemann, Kathleen Rouser, Ed Seidl, Gail Seidl, Paul Wilhelm, Tony Meyer, Tom O'Brien, Nancy Wilhelm, Anne Lezotte, Jackie Wiedman O'Brien, Randall Brooks, Diana Brooks, Bill Zwack, Jane Holloway, Jim Lezotte, Bob Goffeney, Robertta Goffeney, and Kellee Lezotte.

Alumni reunion brings 300 'home again'

A near capacity group of 300 alumni and guests crowded into the Buell Building atrium and dining room April 27 for the Alumni Association's Annual Dinner-Dance and Reunion.

Honored guests included the Anniversary Classes of 1975, 1960, and 1935.

Presenting the tribute to the Golden Anniversary Class, Vincent Kaye, representing his class, recounted some of the difficulties he and his classmates faced in obtaining a degree during the Great Depression.

In addition to the expected reminiscing and reflection between friends and colleagues, the group also enjoyed the premiere performance of LIT's new student "Show Choir," gourmet hors d'oeuvres, and a feast of beef Wellington and seafood Newburg. Four hours of dancing rounded out the evening's activities, which took place during LIT's Open House Weekend.

"Things were rough, but we survived," Kaye said. "We didn't enjoy

(the difficulties) but we did continue with our education, we did help our families and we did graduate — we survived!

"Fifty years later, having gone through several depressions, wars of global impact, and numerous personal setbacks, trials and tribulations, some of us are still here, stubbornly surviving. I, for one, would like to attribute some of this tenaciousness for surviving to the wonderful teachings of the Lawrence family and the dedicated faculty they gathered to start Lawrence Institute of Technology."

Reunion committee members assuring the day's success were Roy Hoenle, RAC'58, IM'76, chairman; Ron Sanders, BA'75; Floyd White, ME'60; Vincent Kaye, EE'35; Ray Urban, ME'35; Karl Whitston, ET'77; Howard Whitston, MA'75, Ch'75; Tom O'Brien, Ar'79, CE'84; and Tim Pawl, ME'73.

The 1986 Reunion has been set for April 26. Mark your calendars now!

□ BJA

Alumni Notes

Have a new job, spouse, off-spring or other announcement for your LIT friends? Keep them informed by using the news form elsewhere in this section.

1933-69

Arthur L. Kelley, ME'47, retired from his position as an automotive engineer with Ford Motor Co. in August, after 25 years of service. Art is a resident of Bloomfield Hills and a past president of the LIT Presidents Club.

William A. Dryburgh, ME'48, CivE'49, has been elected to the Olivet College Board of Trustees. Bill has been vice president of Barton-Malow Construction Co. in Detroit since 1976. In that capacity he served as construction executive for the \$60 million Hubert H. Humphrey Metrodome in Minneapolis, and a number of multi-million dollar projects including hospitals, clinics, office buildings and a women's correctional facility for the state of Michigan. He joined Barton-Malow in 1964 and also served as project manager for the construction of the \$42 million Pontiac Silverdome. He is a member of a number of Detroit engineering and contracting associations and has earned numerous building awards.

Kurt O. Tech, ME'48, an LIT trustee, was honored as volunteer of the year by the Judson Center of Detroit.

Lee E. Cromwell, ME'51, has been appointed chief engineer with responsibility for trim operations for the Inland Division of General Motors. Lee was formerly the senior engineer in charge of Fisher Body Product Engineering where he was responsible for interior trim and exterior ornamentation. He has had a broad range of experience at GM with Fisher Body as senior designer and engineer-in-charge of the interior trim section. Since 1980 he has been responsible for the "P" car body as senior engineer-in-charge.

Robert E. Heintz, ME'51, EE'61, recently received an award and congratulations for 30 years of service at General Motors.

Arthur C. Wasek, CivE'52, has been appointed senior administrator of the building systems section in C-P-C Facilities Planning for General Motors. He is a registered engineer in both Michigan and Ohio and previously served as an architectural project manager for Fisher Body's Works Engineering. With four of the Wasek children in college at the same time, Art has learned the art of financial management well. This year, the 3rd child will graduate, leaving the youngest to finish in another year. It seems that Dad has kept his sense of humor through it all by

honing his skills as a cartoonist. A recent effort appeared in LIT's *Tech News*.

Stanley J. Kukawka, ME'53, has moved to Vista, CA, located near San Diego, from his former residence in Milwaukee. Stan now heads his own management consulting firm specializing in "Management for Results".

Robert L. Eck, BT'58, a vice president of Albert Kahn Associates, Inc., architects and engineers, has been named chief of project management for the firm. In his new position, Bob will be responsible for overseeing the assignments of all project managers in the firm. He has been a member of the Kahn organization since 1963 and was named senior associate in 1970. In 1978 he was elected a director of the firm and vice-president. In 1979 he was the recipient of LIT's Alumni Achievement Award. Professionally active, he is a member of the Engineering Society of Detroit and the Michigan Association of the Professions. A resident of Berkley with a deep commitment to the community, he is a former mayor of that city.

Walter G. Crosby, Jr., EE'60, is a part of the newly formed Boldyreff, Crosby & Forgiel, Inc., consulting engineers in related fields of energy, electrical and mechanical engineering. The firm assists clients in gaining maximum benefit from existing energy sources and promoting cost effectiveness of electrical and mechanical systems. Walt's expertise is in energy, plant engineering, design and construction for industrial, commercial and institutional areas.

David F. Hoyle, IM'60, has been re-elected an officer of the National Exchange Carrier Association, Inc. He serves as NECA's corporate secretary and director of administration. NECA prepares and files access charges and collects and distributes revenues for the nation's more than 1500 telephone companies. Prior to joining NECA in 1983, Dave was associated for 23 years with AT&T and the Michigan Bell Telephone Company. He and his wife reside in New Providence, NJ.

John Wells, IM'61, has been appointed vice-president of First Federal Savings and Loan Association of Kalamazoo. John joined the savings and loan in 1976 as staff attorney.

James P. Laughlin, EE'62, has been promoted to vice-president of engineering for the Vought Missiles and Advanced Programs Division of LTV Aerospace and Defense Co. Jim will have overall responsibility for the division's engineering projects, facilities, and 1,100 departmental personnel. A veteran of 20 years with LTV, he served for the past two years as director of electronic systems, overseeing work in electronics, optics and

guidance systems. He helped establish the company's new 60,000 square-foot electronics laboratory and state-of-the-art simulation and measurement facilities. The electronics staff was expanded to nearly 500 under his management. Current major programs that he is involved with include the Multiple Launch Rocket System for the U.S. Army, and the Anti-Satellite (ASAT) weapon for the U.S. Air Force and components for the NASA space shuttle. Jim resides in Dallas, TX.

Thomas T. Tuttle, ME'63, recently made an extended trip from his home in Highland, CA. He spent seven months touring the south, up the east coast to Newfoundland, stopping briefly at LIT. Tom was with TRW for 20 years.

Robert Wegryn, IM'64, holds the rank of Navy Commander and serves on the operational control staff at Third Fleet Headquarters at Ford Island, Hawaii. Bob recently participated in an exercise designed to test plans and procedures for control and protection of merchant shipping that involved more than 500 naval reservists operating in the Pacific and Indian Ocean areas. The U.S. Naval Control and Protection of Shipping Organization is set up for use in times of world crisis and can be called upon to help allied fleets move strategic goods from one port to another. Bob joined the Navy in 1960.

John S. Wilkie, AE'65, of Yops & Wilkie, Architects, and Jack W. Yops, recently celebrated the 30th anniversary of their firm. Yops founded the firm, located in Wyandotte, in 1955. John joined the firm in 1965 and marks 20 years of association with Yops this year. The firm is involved with several commercial, institutional and industrial projects, including the wave pool, bathhouse, food service building and visitors center for the new Lake Erie Metropark in Brownstown Township.

Raymond S. Bozoian, IM'66, has been appointed Eastern Region Cost Supervisor for Varian Associates, Inc. in Woburn, MA. Ray is responsible for all cost accounting for the SEG Service Division. He resides in Hampton, NH.

David G. Gale, ET'66, who holds the rank of marine gunnery sergeant, U.S. Marine Corps, was awarded the U.S. Marine Corps Good Conduct Medal. Dave received the award for good behavior and conduct over a three year period. He joined the Marines in 1966. He is stationed in Bayonet Point, FL.

John D. Whitehead, EE'66, has joined the firm of Tomblinson, Harburn Associates, Architects and Planners, Inc., of Flint. John previously worked for several major firms in Detroit, Chicago and California and served as director of electrical engineering for Rose

Alumni Notes

Engineering from 1977 to 1982. Current projects include the Carriage Town historical redevelopment for the City of Flint, Prime Coatings, Inc.'s industrial plant in Grand Blanc and numerous energy conservation programs for local school districts.

Carl E. Ballard, ME'68, has been named eminent engineer by Tau Beta Pi engineering honor society at LIT. The award is based on professional competence and career accomplishment. Carl is chief engineer at Kelsey-Hayes Co. in Romulus.

Lane A. Hautau, IM'68, has been named sales manager, North American Vehicle Operations at GMF Robotics Corp. in Troy.

Stephen D. Hudak, IM'68, has joined Citizens Insurance Co. as a staff trial attorney for Birmingham Legal. Before joining the new firm, Steve worked for the law firm of Mitseff and Baril, P.C. in Detroit. He received his Juris Doctor from the University of Detroit in 1978.

Thomas D. Smyth, IM'68 was recently named vice-president of operations at ISI Fluid Power, Inc. in Fraser, MI. ISI is a manufacturer of air valves and other related pneumatic products. He has been with the company since 1974. Tom lives in Bloomfield Hills with his wife and two children.

Larry J. Wilson, IM'68, has been named partner in charge of Seidman & Seidman's Kalamazoo office. Larry joined the national accounting firm last year after a merger with his Kalamazoo CPA firm. He is a member of

the Michigan Association of Certified Public Accountants and the American Institute of CPAs. He is also past president of the Kalamazoo Accounting Association and serves on the board of directors of the Kalamazoo Y.M.C.A. and the board of Family and Children Services.

Seidman & Seidman is among the 15 largest public accounting firms, with offices in 39 cities and more than 200 partners.

1970-79

Kenneth E. Pawlowski, Ar'70, is now vice-president/quality assurance for Pierce, Dorsey, Rohrdanz, Architects, Inc. in Winter Park, FL. Ken is a registered architect and is a member of the Construction Specifications Institute.

Daniel F. Christensen, Ar'71, has joined the firm of Giffels-Hoyem Basso, Inc. as vice-president/architecture and will be actively involved in project administration. Dan is a registered architect in the states of Michigan, Texas, Ohio, Illinois, New York and California. He is also a member of the American Institute of Architects, the Michigan Society of Architects and the Construction Specification Institute. Formerly, he was a partner in the firm of Jason-Christensen Associates, architects.

Robert J. Gilmer, IM'71, has been appointed chief, quality review staff with the Internal Revenue Service. Bob has responsibility for the quality of examinations in the Exami-

nation Division supervising a staff of 18 reviewers. He reports that Greensboro, NC, which he now calls home, is beautiful. The weather, he claims, is fantastic and comments that he does not miss the snow storms at all.

Alvin S. Levett, IM'71, has been appointed director of budget management in the University Planning, Budgeting and Analysis Office at Eastern Michigan University. Al holds a master's degree in public administration from Wayne State and has also taken postgraduate work at Michigan State University and Wayne in addition to his LIT degree. He will direct the University's budget development support, budget monitoring, and control operations, and also coordinate the supporting information systems and analysis activities.

Thomas M. Montroy, IM'72, now lives in Seal Beach, CA., and reports that his daughter attends Los Alamitos High School where the cheerleading team won the national championship, appearing on ABC Television's 20/20 in March. Tom is vice-president of Ervin Industries.

James J. Timmerman, IM'72, has been transferred to the Atlanta District office of Protection Mutual where he holds the title of senior district engineer. Protection Mutual is a commercial property insurer. Jim will serve as account engineer and provide loss prevention consulting service to 75 accounts. Jim and his wife **Deborah (Waider)**, IM'72) together with their son, Matthew, reside near Stone Mountain, GA.

Ronald J. Gagnon, CE'73, has been named vice president-operations of Ford Motor Land Development Corp., the real estate arm and a wholly owned subsidiary of Ford Motor Co. Ron is a resident of Farmington Hills and until recently was manager of Renaissance Center operations and had charge of Ford Land's construction and properties management — responsibilities that he will continue in his new position. He has been with Ford since 1957 and has served in a variety of construction engineering positions with steel division and manufacturing staff before joining Ford Land in 1974 as Fairlane program manager.

E. Timothy Pawl, ME'73, was a workshop leader at Schoolcraft College in a special program held for the purpose of bringing together inventors, entrepreneurs and organizations to exchange information on "Making Invention Work". The process of invention was explored by speakers with practical experience in the field. Tim is with Pawl Invention Corp.

Dennis R. Polak, Ar'73, has established a new firm, Dennis R. Polak & Associates,

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 _____

Send to: Director of College Relations and Alumni Services, Lawrence Institute of Technology, 21000 West Ten Mile Road, Southfield, Michigan 48075.



Eck '58

Laughlin '62

Gagnon '73

Schmidt '76

Grice '77

Kies '78

Architects, Engineers and Planners in Saginaw. Dennis is the newly elected treasurer of the Saginaw Valley Chapter of the American Institute of Architects and has recently been with local firms in Saginaw and Flint.

Thomas M. Trupkovich, IM'73, has been named director of purchasing for the Great Lakes Steel Division of National Steel. Previously Tom served as manager, purchasing-maintenance and repair operations and other purchasing positions during the twelve years that he has been with Great Lakes Steel.

Gary J. Grobson, Ar'74, has been named director of store planning and design for the Taubman Company, Inc. in Bloomfield Hills. Gary joined the company as a tenant coordinator in 1974 and most recently served as manager of store design. Previously he practiced architecture with Wah Yee Associates, Southfield. He is a member of the American Institute of Architects, and resides with his wife and three children in Rochester Hills.

Daniel W. Winey, Ar'74, has been appointed director of interior architecture for Whisler-Patri Architects in San Francisco, CA. Dan will be responsible for the administration, marketing and design of all interior architecture activities. This appointment comes after spending the last seven years in architecture, engineering, and construction for General Motors Corp. as a senior project architect and systems administrator.

Randy S. Dawley, ME'75, received a Master of Science in Administration (M.S.A.) from Central Michigan University in June. His major was in general administration and industrial management. Randy is an engineering supervisor at the Land Systems Division of General Dynamics Corp. His work is in the producibility engineering department where he is involved in the engineering development of America's main battle tanks. Randy, his wife, and two sons reside in Westland.

Lyle A. Reibling, Ma'75, has been promoted to group staff engineer in the Military Systems Division of Lear Siegler, Instrument Division in Grand Rapids. Lyle is principle investigator for Lear Siegler's efforts to use artificial intelligence to generate trajectories in military flight management systems. He is also working toward the completion of a Ph.D. in computer science at Michigan State.

James R. Clark, Ar'76, and **Debra D. Clark, IM'75**, now live in Salt Lake City, UT. Jim has just been promoted to vice-president and general manager of the Utah branch of Unistrut, a company dealing with space frames, rolled channels and structural steel roofing systems. He is a registered architect in Michigan with NCRB. Debra (Thum) is

planning on resuming practice as a public accountant in Utah. They met at LIT and now have two children, Shannon, age five, and Brian, age three.

Robert J. DiPonio, Ar'76, has been named sales manager for the Gunitite Division of Kelsey-Hayes Co. Before joining Gunitite, Bob held sales and account management positions with major OEM suppliers to the heavy truck industry. Now he will be responsible for overseeing the aftermarket distribution of Gunitite heavy duty products.

Richard W. Mitchell, Ar'76, has formed his own architectural firm, Poley/Mitchell, Architects, located in Ann Arbor. The firm also has a branch office in Marquette.

David W. Perkins, Ar'76, has been named an associate director at Albert Kahn Associates, Inc. David is a registered architect. He joined the firm in 1981 as a member of the architectural design department. One of the major projects he is currently involved with as project designer is the Dodge City complex for Chrysler Corporation. He and his wife, Flora, and daughter make their home in Inkster.

Richard M. Schmidt, BA'76, has been named second vice-president and account officer in the Commercial Real Estate Division at Manufacturers National Bank of Detroit. Richard joined Manufacturers in 1977 as an assistant branch manager and also worked in the credit department. He and his wife and son now reside in New Baltimore.

Jeffrey J. Grice, Ma'77, has been elected a vice president at D'Arcy, Masius, Benton and Bowles in Bloomfield Hills. He is manager of systems development reporting to the director of management information services (MIS). Jeff joined DMB&B in 1978 as a programmer/analyst. In 1979, he was promoted to assistant project manager and a year later to project manager. In 1982, he was promoted to manager of media systems. Prior to joining D'Arcy, he was a programmer with Fruehauf Corp. and Michigan Wisconsin Pipeline. Jeff, his wife Sharon, and two sons, live in St. Clair Shores.

William E. Mazzara, Ar'77 has been named construction project manager in the facilities department of Providence Hospital, Southfield. He is a registered architect with both the State of Michigan and the National Council of Architectural Registration Boards. Formerly, Bill was with the architectural firm of Giffels Associates, Inc.

Henry M. Kies, Jr., BA'78, has been named branch officer at Manufacturers National Bank of Detroit. Henry joined the bank as a management trainee in 1977 and has extensive branch banking experience. He is

currently in charge of the Eighteen Mile Road-Dequindre branch. The Kies reside in St. Clair Shores.

Ronald McClelland, CE'78, recently joined Gilbane Building Co. in Pontiac, as a project engineer. Ron previously lived in Baltimore, MD and will now return to the Detroit area.

Michael J. Sweeney, ME'78, is now senior engineer with Tenneco, Inc. of Houston, TX. As the senior safety and health specialist for mechanical engineering, he reports to the manager of safety reviews for Tenneco's subsidiary divisions and manufacturing facilities. Michael, his wife, Cindy, and son reside in Katy, TX.

James Alan Zachow, Ar'78, has been named an associate of the firm for GBKB Associates. Jim has been with GBKB since 1978 and attained registration as an architect in 1982. His experience includes project management of Cherry Capital Airport Expansion, the Bay City Army Reserve Center for the Corps of Engineers and Commercial State Savings Bank in Greenville. He resides in the Traverse City area.

Donn B. Roberts, Ar'79, BAR'80, has joined the architectural firm of George Covalle in Jackson.

1980-85

Mark L. Duane, BA'80, has been named senior account manager for Merit Systems, Inc., a data processing firm. Mark joined Merit in 1980. Previously he served in data processing positions at LIT.

John E. Enkemann, Ar'80, has been named a senior associate at Albert Kahn Associates, Inc., Architects and Engineers. John is a registered architect. He first joined the firm in 1978 and was named an associate in 1983. As a member of the firm's architectural development department, he currently serves as project architect on two commissions for Whirlpool Corp. He and his wife, Wendy, and two children make their home in West Bloomfield.

Patrick E. Mullen, Ar'80, has been promoted in the U.S. Air Force to the rank of first lieutenant. Pat is an architect with the 354th Civil Engineering Squadron at Myrtle Beach Air Force Base in South Carolina.

Mark A. Farlow, Ar'81, BAR'82, completed graduate studies at the University of Cincinnati and accepted a position as assistant professor of architecture at the School of Architecture at Mississippi State University for the 1984-1985 academic year. He also did some teaching in Europe during the summer

Alumni Notes

and will return to Mississippi for another year beginning this September to teach an advanced history/theory seminar and a design studio.

Kurt E. Maki, CE'81, earned an M.B.A. in project and construction management from Golden Gate University in California. Kurt recently accepted a position as facilities design engineer for Rockwell International at their Defense Electronics Operation in Anaheim, CA. While working towards his M.B.A., he was with Martin Marietta Corp. under their management development program attending Golden Gate's extension school at Vandenberg Air Force Base.

Keith A. Ulrich, BA'81, has been promoted to account executive on the Cadillac Motor Car Division account at D'Arcy, Masius, Benton and Bowles in Bloomfield Hills. Keith is a member of the Adcraft Club of Detroit and resides in Redford.

Paul R. Urbanek, Ar'81, BA'82, has been promoted to the position of "associate" for Straub Associates/Architects. Paul will continue to play a major role in the firm's design department in addition to his new responsibilities as an associate. He and his wife, Mary, reside in Royal Oak.

Paul G. Cramer, IM'82, received an M.B.A. with concentration in finance and marketing from the University of Detroit in December, 1984. Paul is employed by Detroit Edison and works with the Nuclear Quality Assurance Department at the Enrico Fermi II Nuclear Power Plant. He resides in Livonia.

Brian T. Holtz, IM'82 and Shawn Martin were married in October, 1984. Following a trip to Florida for their honeymoon, the couple now reside in Tecumseh.

J. Homero Ulloa Verduga, IM'82, is now E.D.P. manager for "Aymesa", an automotive assembly plant for General Motors based in Quito, Ecuador. Homero and Fernanda Naveda were married on November 17, 1984.

Thomas H. Wrenbeck, EE'82, and Dianne Lyskawa were married in October, 1984 in Dearborn. Following a honeymoon trip to the Caribbean, the couple now reside in Livonia.

Richard Musto, Ar'83, is a project architect for Richard K. Brooks & Associates in Irvine, CA. Richard plans to take the registration exam this year and reports that southern California is treating him well.

Mark D. Wrona, IM'83, is a candidate for the school board in Howell, MI. Mark and his family live in Howell where he has two children attending school and one soon to start. He is an administrative assistant and senior development engineer with Ford Motor Co.

Scott E. Apple, IM'84, and Lori-Ann Corsi were married in March, 1985. After a Hawaiian honeymoon the couple now reside in Plymouth.

Thomas L. Cookson, ME'84, is employed as a senior engineer in the mechanical properties laboratory at General Dynamics Corp., Convair Division. He resides in Santee, CA.

Charles T. Keller, CE'84, and Nancy Marie Piche were wed on August 10, 1984.

David P. Lamanen, IM'84, and his bride, Kimberly Jane Kurswa, were married in June at St. Colette Catholic Church in Livonia. David is a sales representative for the Dannon Co.

Kathleen Marie Nemeth, ME'84, was married to Richard Schulz on June 21st in Dearborn.

Ann M. Spitz (Iovaldi), IA'84, has joined the Birmingham-based office design firm of S.J. Maddalena, Inc.

Marvin P. Atlas, BA'85, was honored by the Detroit Chapter of the Financial Executives Institute. Marvin was cited as an outstanding graduate from LIT in the field of business administration and accounting and presented with a commemorative plaque during a ceremony at the Detroit Athletic Club.

In memoriam

Information from this section is provided by family members, friends of the deceased, and newspaper accounts. To assure inclusion, please send notices to the Director of Alumni Services, LIT, 21000 West Ten Mile Road, Southfield, MI 48075-1058.

Francis L. Evans, AeE'33, of Sun City, AZ, March 24, 1985.

Roland N. Seel, Industrial Executive School '39, of Chesapeake, VA.

Carl J. Renswick, ChE'41, February, 24, 1985. Carl was retired from his position as manager for Uniroyal where he had served for 44 years. He was a past president of the Uniroyal Men's Club and a past president of Detroit Rubber Federal Credit Union. Surviving are his wife, and son.

Nathan Scott, EE'43, of Van Nuys, CA.

Gilbert Amotte, ME'45, of Marysville, GA.

Francis J. Sullivan, ChE'47, of Allen Park, July 16, 1985. He worked on the atomic bomb while with the Army Corps of Engineers

in World War II at Oak Ridge, TN. Francis was a research associate at Amax, Inc. in Ann Arbor where he helped develop patents. Before joining Amax, he worked in various plant laboratories including those at Ford Motor Co. and Chrysler Corp. Survivors include his wife, a daughter, and a son.

Robert L. Thomas, ME'48, of Jackson.

John C. Bunker, CE'49, of Mt. Clemens.

Karl V. Holm, ME'50, July 15, 1985, in Florida. Karl was a retired mechanical engineer from the Ford Motor Co. and a member of LIT's Presidents Club. In recent years he lived in the Miami area. Surviving is a son.

Alex Hucul, IE'50, of Ann Arbor.

Joseph Forgione, ME'51, January 9, 1985, in Bloomfield Hills. He was director of quality assurance at Ford Motor Co., where he has been employed since 1955. He was a member of the Engineering Society of Detroit; Society of Automotive Engineers; the Presidents Club of LIT, and Alpha Gamma Epsilon fraternity. He formerly had been a night school instructor in statistical analysis at Wayne State University and the University of Detroit. Surviving are his wife, Janet, a son and daughter.

Dennis E. Healy, ME'52, of Dearborn.

Robert W. Chaplen, RAC'53, of Warren, November, 1984.

George H. Hanovich, ME'53, of Dearborn Heights, April 1983.

Richard Nowak, CE'55, of Wayne.

Martin Schelhaas, MT'55, of Livonia.

Joseph H. Wagner, RAC'57, January 18, 1985 of Houghton Lake. He was employed as a refrigeration engineer at Mercy Hospital, Grayling at the time of his death. He is survived by his wife and two sons.

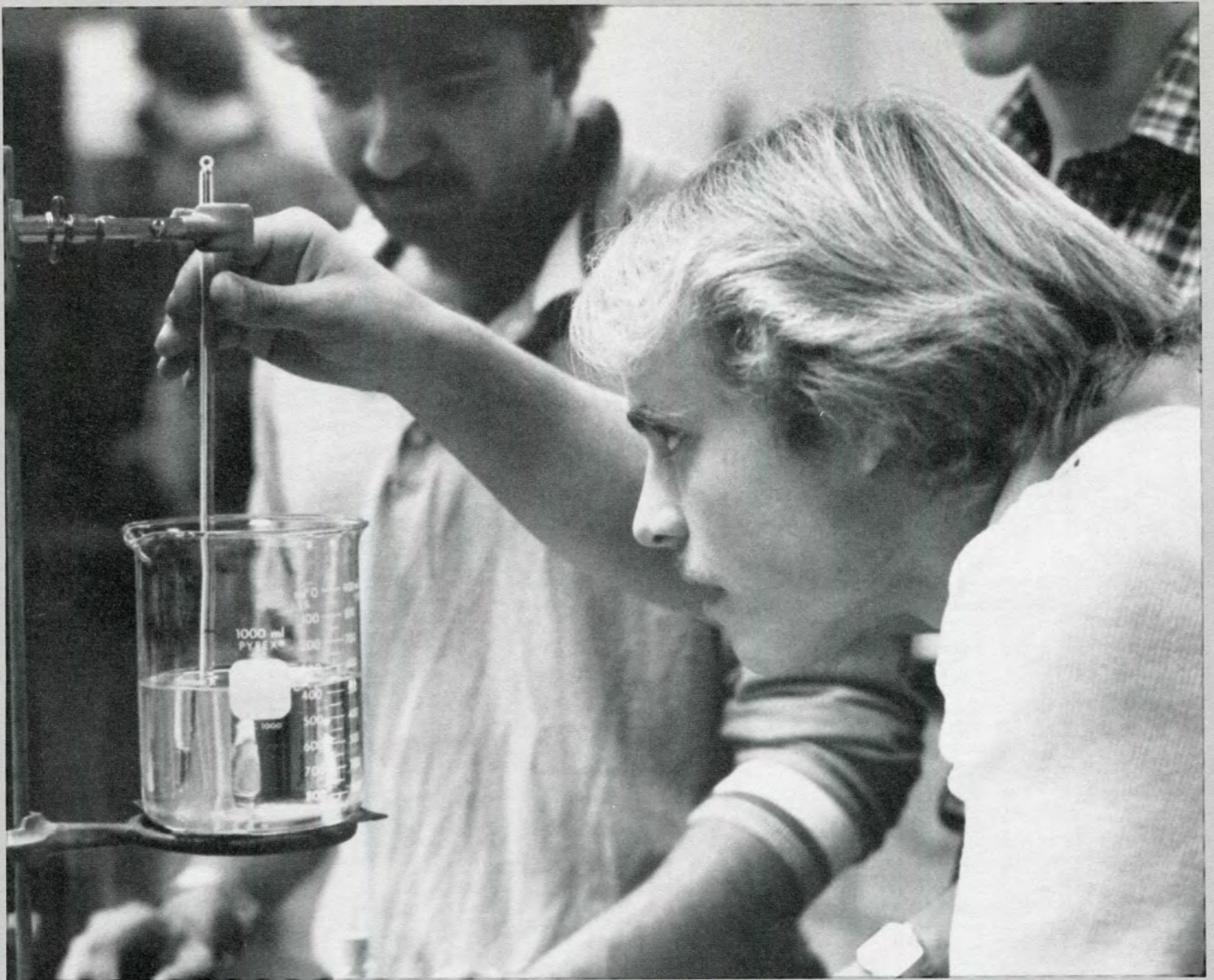
Gary E. Bullock, MT'60, of Munroe Falls, OH.

James L. Granger, ME'60, of St. Helen, January 12, 1985.

Arthur C. Ziemann, BT'60, of Dearborn Heights, November, 1984.

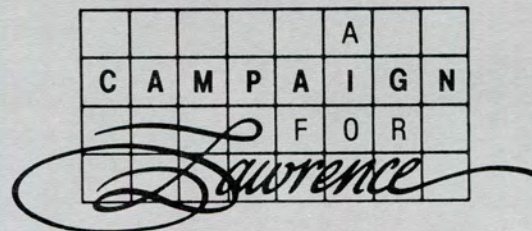
Ross E. Kauppila, EE'63, March 23, 1985, in San Anselmo, CA. He was employed by Ford Motor Co. prior to his death. Surviving are his wife, daughters, and his brother **Bruce Kauppila**, EE'68.

Stephen J. Downey, Ch'78, of Rochester.



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ADDRESS CORRECTION REQUESTED

Grad builds new life on foundation of optimism

*Randy Wilson, CE'85,
hasn't let an accident
diminish his goals*

Randy Wilson, son of Nina Pearce of Howell, filed across the platform at the Michigan State Fairgrounds Coliseum on June 2 to receive his degree and a handshake from the president of Lawrence Institute of Technology along with more than 800 other graduates.

But unlike his peers, Wilson maneuvered a wheelchair across the stage, just as he has maneuvered it across LIT's campus for the last three years.

As the result of an accident at home five years ago, Wilson was confined to a wheelchair and, needless to say, his life

was changed.

A red beard and moustache frame his bright smile, and distinct laugh lines set off his hazel eyes. He is tall in stature and looks typically like the rugged carpenter he was for the nine years before his fall.

His first year out of Fowlerville High School, Wilson attended Ferris State College but "bombed out" because he "had no direction."

Today, the construction engineering degree graduate, 32, is a member of Tau Beta Pi, national engineering honor society and Lambda Iota Tau, LIT's scholastic honor society. He has accepted a teaching assistantship to pursue a masters degree in structural design at the University of Cincinnati. Obviously, the changes in his life have not been all bad.

After a three month stay in the hospital, Wilson liquidated his construction firm because of Detroit's economic doldrums. Also, he felt that if he had to work in an office, he would prefer engineering to bookkeeping.

So he returned to college, but this time with a plan. After one year at Washtenaw Community College, Wilson transferred to LIT because of recommendations from his colleagues in the construction profession. There are

always adjustments to be made when entering a new college and Wilson made his share. But he claims that the added adjustment of changing from having full use of his body to being in a wheelchair is "not as difficult as people think."

"It would be difficult if you had a choice and were able to switch back and forth. But once you make the mental adjustment to your situation, which is the most difficult adjustment to make, then you work with what you have," Wilson explains. "I am continually finding out the things I can do rather than dwelling on the things I can't."

There is one thing, however, that poses a problem for Wilson simply because it is out of his control.

"Winter," he says without hesitation. "I have to depend on other people to clean the sidewalks and if they don't, it's difficult for me to get around. Fortunately, everything at LIT is close together, so mobility-wise, it has been easier on me."

LIT's engineering building, where most of Wilson's classes were held, was built before handicapped accessibility codes were established. That means among other things, no wheelchair ramps or elevators to the second floor. The entrance ramps were installed easily enough (at Wilson's request) but, for now, the second floor is off limits to students in Wilson's situation.

"The heads of the engineering departments made it clear from the start that if I needed a class that was being held on the second floor to let them know and they'd move it downstairs. And they always did. I don't know, though," he smiles and says suspiciously. "I think the second floor is where they have the open bar and all the dancing girls."

He many never know — for sure.

□ UQM

Randy Wilson, CE'85, shares a chuckle with R. James Diegel, assistant professor of construction engineering. Randy is now pursuing a masters degree at the University of Cincinnati.



MARINELLI PHOTO