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INSTITUTE OF TECHNOLOGY
Magazine

Spring/
Summer 1981

ENERGY: progress and promise

Dollars for scholars

An 'international affair'

plus engineers, reunions, alumni features, and more!

Michigan
Sports Hall of Fame
taps LIT's Don Ridler



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ENERGY

PROGRESS & PROMISE

Two LIT alumni discuss solutions to Michigan's power problems

As Thomas Edison fired up the generator and the first electric lights went on in Sarah Jordan's boarding house, he was probably too elated to worry about the nation's dwindling natural resources. But, on that eventful evening, 101 years ago, Edison intensified a mad race between the world's

fuel supplies and its energy needs—a race which would affect his countrymen more than he could ever have imagined.

Where will future generations find the fuel to heat their homes, turn on their lights, and run their machines? According to two of LIT's alumni, today there is only one feasible answer—from a balanced usage of coal and nuclear energy. The *LIT Magazine* recently visited both Bill Pence, EE'52, an assistant vice president of Detroit Edison Company, and Jim Rang, ME'69, opera-

tions and maintenance superintendent for Consumers Power Company's Palisades (MI) nuclear plant. We found that, realistically, Americans will have to come to terms with both of these energy sources or face a future of darkness and cold.

Ever watchful in the control room of Consumers Power's Palisades nuclear plant near Benton Harbor, operators check the warning light system.



Bill Pence has watched the country's energy usage skyrocket. Unfortunately, most of the currently available sources of energy cannot come anywhere near meeting the projected power needs of this country and the rest of the world in the years to come. Nevertheless, now, as head of production at Detroit Edison, Bill has seen a lot of progress toward meeting energy needs since he joined the company in 1952 as an associate engineer.

"Right now, Detroit Edison is putting a lot of time and money into research," Bill states, "but there doesn't seem to be much choice when it comes to energy alternatives. We are looking at proposals to harness wind power as well as solar energy. On a small scale these work well. There is little chance, though, that current technology can meet the massive electrical needs which we have in America, even with energy conservation.

"For example," he continued, "there are studies being done on photovoltaic cells which convert sunlight into electricity. This is a highly efficient process but if we were to try and use them to supply energy to Michigan, for instance, we would have to cover the entire state with cells and that would mean no sunlight could get through to the ground. So, we keep looking for a breakthrough. Even when it comes, it would take 10-15 years before it could be commercially used."

Because there is really "not much new under the sun," the utility companies, according to Bill, are making future plans based on current resources. For Detroit Edison, that means building more efficient fossil fuel plants and expanding into nuclear energy. The electrical needs of most Edison customers are met by oil or coal burning plants. However, as the world's oil supplies dwindle, Americans will be relying more and more on the United States' own coal reserves.

"Right now in Michigan," Bill notes, "85 to 90 percent of our electricity is generated from coal. At current rates of use, we have enough coal to last for a few hundred years. There are some problems with burning it, but we are striving to lessen or eliminate them. For instance, we are blending deep and strip-mined coals to obtain a type of coal which is environmentally acceptable.

"Certain coals," he goes on, "are lower in sulphur than others. The coal from Montana, Kentucky, and southern



Alumnus Bill Pence (right) discusses plant operations with Stan Latone, assistant superintendent of Edison's Monroe generating plant.

part of West Virginia is of this type and that means it does not give off as much sulphur dioxide when it burns."

Sulphur dioxide is under careful scrutiny by scientists as they try to discern what happens when it enters the atmosphere.

"One of the things we are concerned with in the electrical industry is the phenomena of acid rain, which has the potential of destroying plant and animal life," Bill remarks. "It may have something to do with sulphur dioxide and if so, we want to take the necessary steps to control it. Coal with a low sulphur content is the first step but this is a newly recognized situation and it needs further study.

"Detroit Edison is a member of the Electrical Power Research Institute," he continues, "which is devoting much time to this problem. When we have the facts we will be able to come up with solutions, if they are necessary, much like we did to control the fly ash going into the atmosphere several years ago. We want to be good members of the community. After all, the public is made up of our customers and we want to

please them and see that their needs are met."

Coal also has other problems but, as Bill found out himself at Edison's Monroe power plant several years ago, many of them can be solved with a little research and cooperation.

"The plant burns approximately 6 million tons of coal a year," he notes, "and during the winter, the massive coal stockpile necessary to keep it running would become frozen. The coal would travel from wherever it was mined, in open railroad cars, picking up moisture as it passed through rain or snow storms. Then, as it moved north, the moisture would freeze and, by the time it reached Monroe, it would either come out in one lump or it wouldn't come out at all.

"Edison sent me to the plant to see if I could find a solution," he goes on, "but it took a lot of research, testing, and brainstorming by many of us to come up with an agent to stop future loads from freezing. However, that still left the problem of coal which was frozen in the yard. We finally solved that

by testing the center of a frozen pile of coal and finding that there were spaces in the interior where the coal was still warm. Then, it was a matter of mining for the warm coal and taking it out of the inside sections during the winter."

Bill notes, however, that it took many people working together to come up with the solutions, just as it will take a lot of cooperation to solve future energy problems. The utility companies are currently dealing with concerns together and are undertaking joint studies to help each other with such important projects as building nuclear plants.

"Edison feels that it will have to use more nuclear power in the future," Bill concludes, "but we are moving slowly because we want to gather all the data we can from any sources before putting another nuclear plant into operation. We intend to build safe plants. Probably by 1984 we will have the capability of supplying about 10 percent of our customers energy consumption through nuclear generation."

To Jim Rang, ME'69, nuclear power is not just a future solution, it is an alternative that has become reality. Jim is the operations and maintenance superintendent at the Consumers Power Company's Palisades nuclear plant near Benton Harbor. In his position, he is responsible for the upkeep and the safe operation of the entire facility, a job which requires a great deal of knowledge about every phase of nuclear power.

Jim originally became interested in the nuclear power field while he was interviewing in his senior year at LIT. Having first considered a career in the automobile industry, Jim was amazed to find that mechanical engineers rather than electrical or nuclear engineers were in great demand for positions in the utilities.

He began his career with Consumers in June of 1969 at the Big Rock nuclear power plant in a "position" quite unlike what he had been prepared for.

"I came in during a strike," he recalls, "and the supervisors were running the plant. I had a mechanical engineering degree from LIT, but because all of the assignments had already been made, I came in as a cook. Eventually I assumed my real position as an engineer."

Jim spent two and one-half years at Big Rock and during this time underwent training in nuclear engineering operations, maintenance, and radiation

health physics as well as acquiring his operator's license. He was then promoted to Consumer's corporate office in Jackson as a nuclear operations engineer, acting as the liaison between

'People fear things that they don't know much about.... What we really have to do is to refute the claims the public is accepting as truth.'

Big Rock and the company's main office. After four years, he transferred to the Palisades plant as senior engineer and then a short time later returned to Big Rock as the maintenance superintendent. A year later he was promoted

to operations and maintenance superintendent and, last September, he took the same position at the larger Palisades facility.

Over the years, Jim has noticed many changes in nuclear power plants. Restrictions and building requirements have gotten tighter and a plant that might have taken three years to build in the 1960s could now take as long as 3-5 years to plan with an additional 8-10 years before power production could begin. Security at the plants has become much more of a concern. Areas are accessible only to designated people by the use of special identification cards. All visitors are subject to extensive searches. Cameras and security guards continually monitor the area, and the perimeter fences are wired so that anyone trying to enter illegally will set off alarms.

"It's a lot different now than when I first started," Jim notes. "We have always had security guards at all of our power plants, both fossil and nuclear, but it used to be only 4 or 5. Now we have anywhere from 40 to 50 at the

Jim Rang, ME'69, oversees operations and maintenance at Consumers Power's Benton Harbor Palisades generating facility.



Amnett photo

nuclear plants. It's not that we have anything to hide but rather it is in reaction to terrorist activities in Europe which the Nuclear Regulatory Commission feels may eventually spread to this country. In addition, the Code of Federal Regulations are currently under review, in an effort to further tighten the security requirements."

One of the major occurrences in the past few years, which has also had an effect on the operation of nuclear plants, was the "scare" at Pennsylvania's Three Mile Island.

"What happened at that plant," he states, "was that operators received conflicting information causing them to misread their instruments. They did not realize that they were draining the reactor vessel through a stuck open relief valve which keeps water running past the fuel rods, thus keeping the fuel cool. A steam bubble had formed, and because of that, the operators believed that the vessel was full of water and an emergency back-up water system which had automatically activated, was shut off. It was just a few hours later that a consultant realized what was happening and directed that the pumps be turned on preventing any further degradation of the fuels.

"I would have to say," he continues, "that the Three Mile Island incident was beneficial to the nuclear power industry. We learned a great deal about the equipment and the necessary technical background for an operator. As a result, we are tightening considerably our requirements for operations employees and making improvements in equipment.

"In addition, we were encouraged by

Bill Pence (above) led a successful effort to keep coal supplies flowing smoothly into Edison's mammoth Monroe plant. Jim Rang (right) and Dr. Stephen Davis, LIT dean of engineering, discuss career opportunities in the energy field.



Edison photo

the findings and confirmed that the equipment and structures were properly designed to contain the radioactive materials following an accident. The TMI unit 2 plant sustained a partial loss of reactor coolant and yet nothing serious happened involving the health and safety of the public or personnel at the damaged plant. People were not injured and very small amounts of radioactivity were released and only during the aftermath period. It is unfortunate that it happened, but we did learn that there were no catastrophic results of the accident. The containment vessel held as it was supposed to and 99 percent of the equipment operated as it was designed to operate even though the operators did not perform the right functions."

Consumers Power and other utilities were on hand subsequent to the Three Mile Island emergency to aid the support activities and to learn from the situation so that occurrences like it



would not happen again. Simulation of such accidents have now been adopted to prepare operations personnel for anything that might happen.

"We send the operators through simulator training annually," Jim notes. "I went through it myself and the first feeling that you have before you get there is that it is make-believe and it will probably be like playing with a toy. But soon it is like the real thing and you get as tense as if you were really in the middle of an emergency. The control room and the equipment operates similar to ours at Palisades. Equipment failures and system transients can be programmed into the 'plant.' The operators go through all of the operations phases. They heat the plant up and put it 'on line.' All of a sudden, something happens and the instructor observes their reaction. If he sees that the operator is troubled or doesn't recognize the problem, he can freeze the action and go back and show the operator what is happening so that he

or she may benefit from the experience."

Jim sees nuclear power as a safe, clean alternative to other sources of energy and, in fact, finds problems associated with other alternatives as at least equal to or greater than those at a nuclear plant. Consumers is currently using both coal and nuclear power as primary sources of power generation but Jim believes that fossil fuels create situations which make them inferior to nuclear. However, Jim also recognizes that to meet our energy needs of the near-to-long term future we need an equal mix of both coal-fired and nuclear plants.

"If I were to analyze the safety of the plants from a probabilistic view," he states, "I would have to say, taking into consideration all aspects of both coal and nuclear power, that nuclear power is safer. I have been at fossil fuel plants and it can be very difficult at times to breathe because of some of the gases and coal dust that are given off. It can be a hazardous environment, at times, to work in. Here, we have the radiation and radioactive contamination to contend with but we control it through shielding and decontamination activities. There, they have the gases to contend with and they control it through use of respiratory masks. There is no doubt in my mind that nuclear power is safe, clean technology."

Why, then do people fear nuclear power? According to Jim, it's only because of the "unknown" element.

"People fear things that they don't know much about," he notes. "What we really have to do is to refute the claims the public is accepting as truth. For example, at our Big Rock plant in Charlevoix, the lake water that is coming out of the plant is slightly warmer than that which we take in. Because there are vapors rising from this water, people are under the impression that it is boiling and, therefore, dangerous.

"Actually, that water going out at this time of the year during the winter months is typically 49 to 50 degrees and one of the nicest features is that lake trout thrive at this temperature. As a result, they just love to sit in the discharge canal. Fishermen are there all winter taking amazing catches of trout. If we can just educate people and get rid of some of the myths, I'm sure they will realize nuclear power is the safest and best way to fill the massive energy needs of future generations." □



Cattermole photo

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He's in!

Michigan Sports Hall of Fame honors LIT great, the late Don Ridler

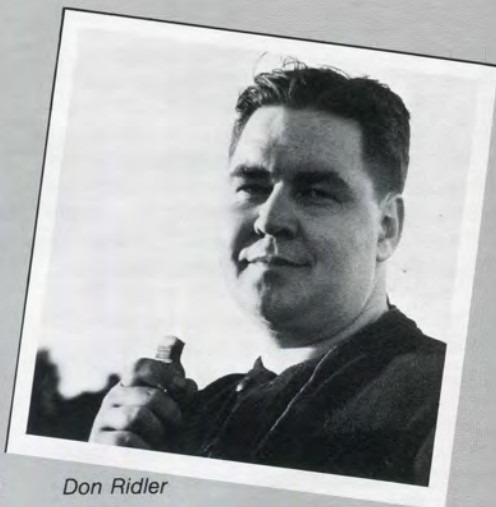
Donald G. Ridler, LIT's former athletic director and basketball coach, has been elected to the Michigan Sports Hall of Fame. Don was instrumental in bringing big-time college basketball to Detroit in the late 1940's and 50's. Several of his teams went to the National Invitational Tournament (N.I.T.) and the National Association for Intercollegiate Basketball (N.A.I.B.) tournament.

"In my opinion, Don was the greatest all-around sportsman in the state," says Walt Bazylewicz, BA'49, former LIT athlete and coach who spearheaded the effort to have Don's name placed in nomination. "He was a giant among sports celebrities who fostered interest

and enthusiasm in high school, college, and amateur sports." Many LIT alumni and staff supported Don's nomination through letters to the Hall of Fame.

Don is one of four 1981 honorees elected in a poll among Michigan's 139 sports editors and directors. The others are former Tiger pitcher Jim Bunning, and U of M athletes Willis Ward and Cliff Keen. The four will be honored at a Cobo Hall dinner May 21, to which all alumni and staff have been invited.

Don graduated from Detroit's Western High School where he received eight letters in football, baseball, and basketball. In his senior year, he was named to the All-City football team and



Don Ridler

then went on to play football and baseball at Michigan State University. Don played on and captained "Sleepy Jim" Crowley's "Iron Men" football team and won three college letters. He was mentioned on numerous All-American football teams and was selected by Knute Rochne for his All-Midwestern Team.

When he left Michigan State in 1931, Don began a four year involvement with semi- and professional football





Bottom left, Don Ridler is welcomed back by Dean George Hendrickson and an enthusiastic student body in 1946 as the College reactivates its athletic program following WWII. Left, Coach Ridler, former President E. George Lawrence, and a jubilant 1950 team prepare for the N.I.T.

Photos from LIT Public Relations Archives

in Cleveland and Detroit. He coached the Detroit Indians, the City's first professional football team, before leaving to take the head football coach's job at Annunciation High School.

In 1938, Don joined LIT as football coach and athletic director and led the College's teams to two victories in the Michigan-Ontario Collegiate Conference. He also coached baseball, golf, track, and swimming. In 1940 Don took over as LIT's basketball coach and began the tedious process, under the direction of then-president E. George Lawrence, of building a nationally-ranked team. His teams in 1942 and 1943 represented Michigan in the N.A.I.B. tournament.

World War II interrupted his efforts, however, as all LIT sports were discontinued from 1943-1946. Don came back to LIT in 1946 from the Catholic Youth Organization which he had directed during the three war years. His return was precipitated by student petitions and demonstrations asking President Lawrence that he be reinstated at LIT.

Don soon built the LIT team into a major national contender, bringing big-time basketball to Detroit by scheduling games against teams like Southern California, Wyoming, Utah, DePaul, Xavier, St. Bonaventure, Florida, and Penn State. His teams again represented the state in the N.A.I.B. tournaments in 1947, 1948, 1949, and 1952. In 1951 LIT became the first college in the Detroit area to play in the National Invitational Tournament in New York's Madison Square Garden.

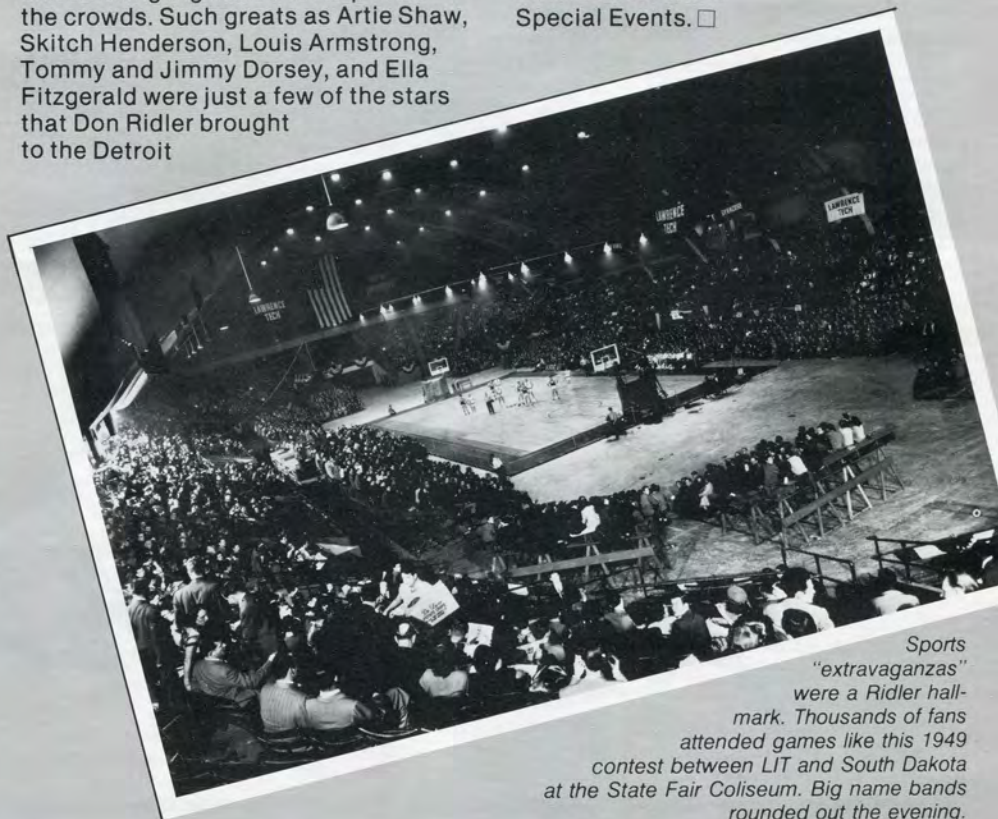
LIT was the smallest college ever to be represented in the N.I.T. and came to the tournament with an amazing season record of 21 wins and 1 loss.

During this time, Don began promotion of basketball "extravaganzas" at Olympia and the State Fairgrounds, bringing in triple header tournaments and booking big bands to help draw the crowds. Such greats as Artie Shaw, Skitch Henderson, Louis Armstrong, Tommy and Jimmy Dorsey, and Ella Fitzgerald were just a few of the stars that Don Ridler brought to the Detroit

area to play after LIT matches.

In 1952, Don resigned as head basketball coach, taking on a position as chairman of the building fund in addition to his duties as athletic director. He died on June 3, 1963 while still at LIT.

Don was a highly respected high school basketball and football official throughout his life and spent 12 years as a player, coach, and supporter of sandlot baseball. He also served as chairman of the Michigan Committee of the National Association for Intercollegiate Basketball and as the Michigan State Fair Director of Entertainment and Special Events. □



Sports "extravaganzas" were a Ridler hallmark. Thousands of fans attended games like this 1949 contest between LIT and South Dakota at the State Fair Coliseum. Big name bands rounded out the evening.

Faculty PRO- FILES

Part of a series

If you're ever planning a big event with Dick Maslowski, chairman of the electrical engineering program at LIT, don't be surprised if it's "snowed out."

Twice in his life, he has found important events greeted by record snowfalls. The first time was in 1961, when he arrived at the Michigan Bell Research Labs to begin an extensive 18-month training program in new developments in the communications field. Just as he got to New Jersey, the biggest snowfall ever to hit the east coast dumped 27½ inches of snow and completely closed down the major towns. Then, after he joined LIT, the famous blizzard of January 28, 1978 cancelled the first initiation of the Tau Beta Pi chapter which Dick had spent many years trying to organize. Ruined events like these might have dampened

any other man's spirits, but not Dick's—he just went ahead, made the best of things, and patiently waited for the snow to melt.

Whether he's dealing with a major problem or a class of eager freshmen, Dick's even temper and enthusiasm for his work have always reigned supreme. When he began his schooling in architecture at the University of Michigan, for instance, and suddenly realized that he had, in his own words "improperly identified my artistic interest," it was not a traumatic experience. Rather, the whole situation turned into a positive one with his decision to switch to electrical engineering.

A native of Hamtramck, Dick stayed in the Detroit area after receiving his engineering degree from UM, starting his career at Michigan Bell in June 1956. By April 1957, however, he was called up for military service and joined the Army's Transportation and Research Engineering Command (TRECOC).

"I had been a member of the ROTC at college so being called up was no surprise," Dick notes. "It wasn't much of a change for me, though, because I was still an electrical engineer while I was serving. The only difference was that I had to wear a uniform and work some funny hours."

Dick only served six months because the Army found that it had an overabundance of ROTCs and he was soon back at Michigan Bell where a most unique program awaited him. The company began an extensive examination of its employees who were college graduates, hoping to find out which ones would become the most successful. To do this, they took everyone hired

in 1956 and began a "hire to death" study. Although it sounded like a plot to kill off the employees by placing them in a new position each week, it really was the start of an almost never-ending probing of each person's "inner self."

"In the beginning, we were all taken to the St. Clair Inn for an extensive five-day examination," Dick recalls. "We were interviewed by psychologists and had to play little games so that they could get 'inside us' and see what made us 'tick.' Some of the guys resented the testing and I believe that one actually walked out, but I rather enjoyed it."

"Even though I've since left the System, I will periodically receive a phone call from some psychologist on the east or west coast asking how I'm doing," Dick relates, "so I guess when they said 'to death,' that's exactly what they meant."

Through the study, Michigan Bell hoped to identify those things in a college graduate that would predict success as a manager. Several articles and books have been written about the experiment.

"Yes," Dick laughs, "in one of the later articles they referred to 'the guy who left to become a college professor.' I guess that must be me because I can't think of anyone else who did."

While still at Michigan Bell, Dick had an opportunity to see many different departments. The microwave research group was one of his favorites and, in fact, it was from a "folklore" story about a project which this department undertook that he came to understand the importance of having good information before beginning anything.

"When we set up the early microwave





Cattermole photo

towers, which could transmit hundreds of calls in one beam, we had to be very careful about the terrain between the two towers," he recalls. "At that time, much of the upper peninsula had not been surveyed and one tree in the way of the beam could completely cut off the entire transmission."

"Well," he continues, "one time, Michigan Bell hired the only firm in the area which was available to make a

survey and their report turned out to be wrong, completely ruining all of the work they had done. I can tell you, that was the last time any of us at the company would ever trust Captain Eddie's Radar Service again."

It was during his years at Michigan Bell Dick became acquainted with what would soon become his new career. Detroit Institute of Technology asked Michigan Bell for someone to teach an

evening course in transmission lines.

"I took the job reluctantly," he recalls, "because I didn't know anything about teaching, but I enjoyed it so much that I kept going back each semester to teach again."

The "teaching bug" had struck by that time and Dick began to explore the chances of becoming a full-time professor. One of the hard facts of academic life, however, soon became evident.

"I had completed my master's degree by this time and I began looking around for opportunities to teach," he states. "What I didn't realize, though, was that I would have to take a tremendous pay cut to leave industry and enter academia."

In the end, the pull was too strong and, in 1966, Dick began as a full-time assistant professor at LIT and then acting chairman of the electrical engineering program in 1971. In 1973 he was named head of the department. During that time, he has seen how many varying ideas students have about the electrical engineering profession.

"There are a lot of misconceptions about what an electrical engineer does," Dick notes. "First of all, we can't fix TV sets! Secondly, there is a great deal of difference between an electrician and an electrical engineer. The engineer is a designer. That does not necessarily mean that he or she can fix or wire anything that is electrical. Their interest lies in making something better or more efficient, not in figuring out how it failed to work."

Dick has watched the enrollment in LIT's electrical engineering program grow to an all-time high of 887 last fall. He has several thoughts about why a student would choose electrical over mechanical or construction engineering.

"Many of the students pick electrical engineering because they have an interest in electrical and electronic phenomena," he states. "Also, I think that 'EEs' use more mathematics than the other two so anyone with an interest in that area would naturally gravitate toward the electrical engineering field."

Contrary to popular belief, all students who go into electrical engineering are not the type of young Tom Edisons who were constantly "tinkering" with their own radios or other electrical inventions.

"I would say about half of the stu-

dents were the "tinkering" kind when they were young," Dick notes, "and they continue to play around with electrical devices while they're in college. The rest are more 'book' types who prefer to study the theories and work the prob-

lems out on paper, getting their enjoyment from the mathematics and other exacting parts of the curriculum.

"I would say, however," Dick notes, "that there are more 'tinkerers' now than in the past because of the availability of

home electronics equipment. Some already have had experience with computers and they naturally are interested in more complex equipment than a student was a few years ago. Calculators and advanced communications techniques are now the 'playthings' of the electrically-minded whereas it used to be the 'wireless' or a ham radio outfit."

It is computer companies which hire many of LIT's electrical engineering graduates. Alumni are now located throughout the country because jobs are more readily available in other areas.

"We can just about guarantee placement for an electrical engineering student if he or she is willing to relocate," Dick notes. "It used to be that the car companies could hire most of our graduates, but now the great demand is in such companies as Texas Instruments, McDonnell-Douglas, National Semiconductor, or the Budd Company, all of which are located out-of-state.

"We're finding, though" he continues, "that this causes few problems for graduates because they are more inclined to relocate now than in the past. It used to be that everyone wanted to be hired in the 20,000 block of Telegraph Road. That is no longer realistic and the students understand that as they begin interviewing."

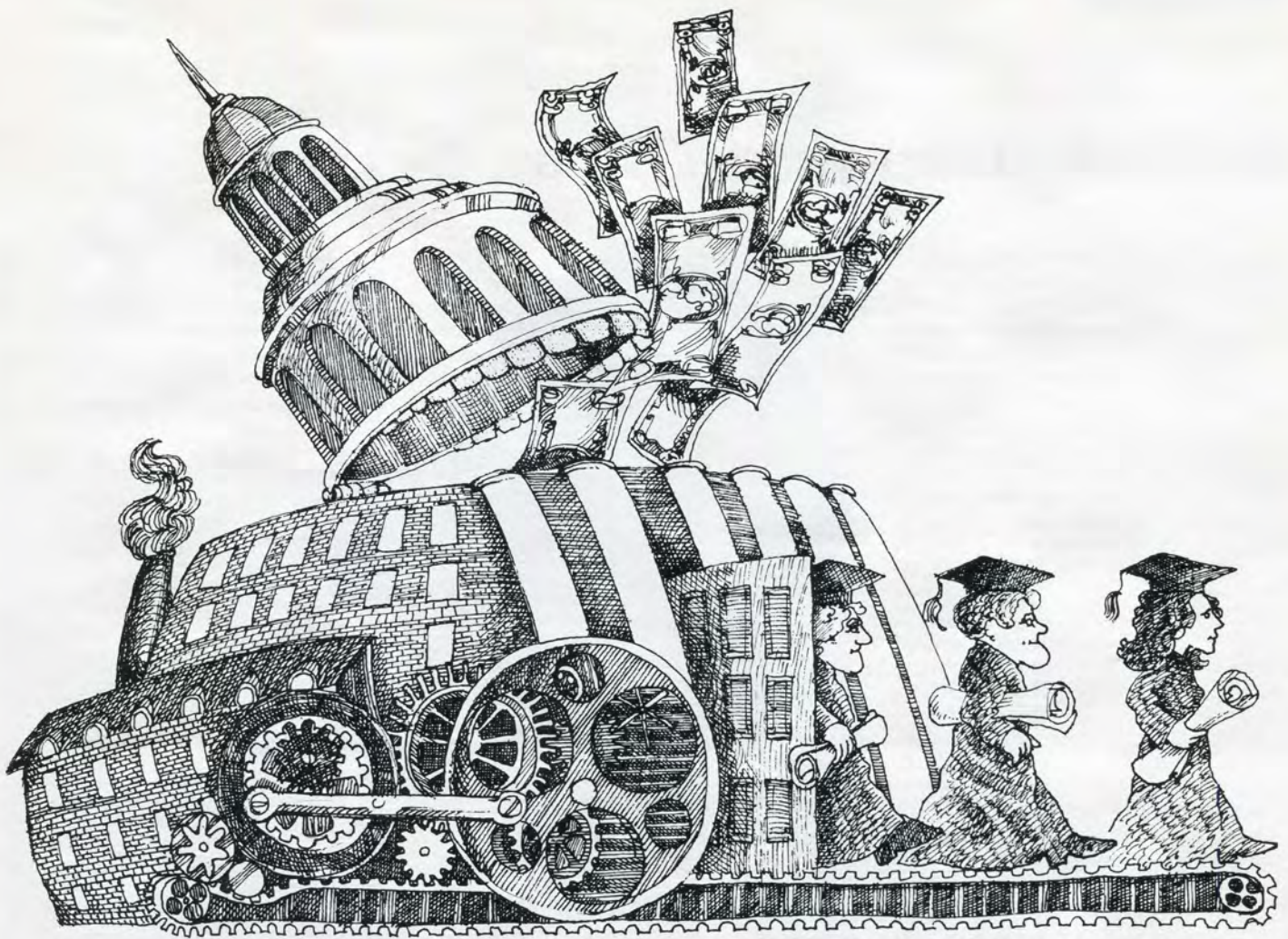
As for Dick, he plans to stay at LIT "as long as it's here" because he enjoys working with the students and the whole "real world approach" that the College takes. The "guy who went on to be a college professor," currently is not only a teacher but also an advisor for the LIT Institute of Electrical and Electronic Engineers (IEEE) student chapter as well as the College's chapter of Tau Beta Pi national engineering honor society.

A favorite among the students, "Professor Mas," as he is affectionately called, is always on call to explain some equation or other, or to double check the wiring on a completed project. The organizations which he advises are among the most active on campus, due in great part to his ability to organize students and plan meaningful experiences for them. Still—the next time he coordinates a big event with one of his student groups—they probably will want to schedule it for July—just in case! □



Annett photo

Popular "Professor Mas" takes the "shock" out of many electrical engineering problems.



Dollars for scholars

Privately funded scholarships
help perpetuate academic excellence at LIT

Every year, LIT students attend LIT through the generosity of people they have often never met. Approximately two-thirds of the College's student body receives some form of financial assistance and, for many of them, this assistance is provided through scholarships from benevolent donors.

Scholarships are vitally important for attracting and retaining scholastically-talented students, some of whom would be unable to attend LIT without such assistance.

Several major scholarships are named in memory of or to honor individuals, while others, notably the LIT Merit

Scholarships, are funded from the College's general fund and from the smaller gifts of individuals, foundations, or corporations who have expressed a desire to support scholarships.

The scholarships described in the next few pages are by no means the only ones offered at the College. They are included as a sampling. If you would like a brochure detailing all of the College's financial assistance programs available, contact the LIT Office of Student Financial Aid. If you are interested in funding a scholarship, the LIT Development Office would be happy to answer any of your questions.

Arthur F. Underwood



General Motors photo

Arthur F. Underwood

Long before the automobile became an integral part of American life, Art Underwood had begun a career which would span over 60 years in the industry. In 1908, Underwood helped his father clean out an old barn in Washington, D.C. so that they could open up a garage to fix cars. At that time, only the elite—business leaders, senators, representatives, and Supreme Court justices—could afford to own an automobile.

Some years after that, Underwood entered Massachusetts Institute of

Technology and, in 1927, became the first summer student to intern at the General Motors Research Laboratories in Detroit. He began full time at the Labs in 1928, after graduation from MIT, as a project engineer and just under 30 years later, became the head of the department.

Underwood served as director of the GM Research Labs until 1969 when he retired from the company. During his many years at the helm, he saw the number of researchers expand from 300 to 1500, representing a multitude of disciplines from physics to engineering. It was also under him that the high compression ratio engine was designed, an innovation which would soon go a long way in saving the world's gasoline supply.

Two years ago, because of a continuing interest in the supply of engineers entering the automotive field, Underwood began funding two scholarships at LIT which are awarded each year by the School of Engineering. The students who are chosen must have an interest in automotive engineering.

"There are very few schools which teach anything about engines at the undergraduate level," Underwood notes, "maybe only four or five in the entire country and LIT is one of them. Also I feel that LIT is really doing a bang-up job in educating young engineers and I wanted to do something to help out." □

Dave Selfridge and Wayne Mitan

For this year's recipients of the Arthur F. Underwood scholarships, Dave Selfridge, 24, and Wayne Mitan, 25, a future goal of working in the automotive field is not unrealistic, even though the industry is currently undergoing severe economic setbacks.

"I think that the automotive industry will bounce back," says Dave, an LIT mechanical engineering student. "A lot of the problems which the industry is experiencing have been brought on by mismanagement. The American companies missed the boat a few years

back but they should be on their feet again soon. I worked at Volkswagen last summer and I could see that there will always be opportunities for young engineers in both auto plants and in automotive related companies."

Wayne, an electrical engineering student, agrees.

"When a person is in an engineering job for a long time, the new technology passes them by. Often a company likes to bring in new people with new ideas. Anyone who is willing actively to pursue a career in the field should be able to find a position."

Dave is in his senior year at LIT, hoping to graduate this June. He previously attended the College of DuPage in Illinois. He has always wanted to be an engineer and has been tinkering with cars and other mechanical devices ever since he was in junior high school.

Wayne, a junior, attended Macomb County Community College, Oakland University, and Michigan State University before transferring to LIT. He had once entertained the possibility of becoming a veterinarian but after some study and part-time work in the field, he decided that his greatest career potential would be in engineering.

Both of the students have been maintaining an excellent academic record at LIT and being awarded the Underwood scholarships has helped them to continue their studies. Perhaps, it might be just the first step in a career which follows Art Underwood's own, up the ladder of success in the automotive industry. □



Annett photo

Wayne Mitan and Dave Selfridge (L to R) have found their college studies more affordable thanks to the Underwood Scholarship.

Minoru Yamasaki



Taro Yamasaki photo

Minoru Yamasaki

As a student of architecture in the 1930s, Minoru Yamasaki met with difficulties caused not only by discrimination because of his Japanese background, but also by the effects of the Depression on his family's finances. He worked in Alaskan salmon canneries during the summers, enduring unbelievably miserable conditions, to earn enough money to continue his education through the next school year. Because of this, Yamasaki came to understand the value of an education as well as the need to pursue a "higher course" in life. As he states, "...when I looked at the older men around me in the canneries, destined to live out their lives in such uncompromising and personally degrading circumstances, I became all the more determined not to let that be the pattern into which my life would fall. I

had been blessed with certain natural gifts, but I knew that it would take hard work and steady application if I were to develop and use these in a way that would make my life meaningful to both me and those around me."

Yamasaki now heads one of the most successful architectural firms in the country, but he has never forgotten those years of struggle. To help aspiring architects, his company now funds a full year scholarship for a student enrolled in the fifth-year program in LIT's School of Architecture. The scholarships are given annually to outstanding students so they can complete the vigorous one year professional degree curriculum designed to comprehensively prepare them for a place in the architectural world. □

Jean LaMarche

“Not just an architect, but also an architectural philosopher” is what Jean LaMarche hopes to become someday. Being awarded the Minoru Yamasaki & Associates scholarship this year will go far toward helping him accomplish this goal.

Jean is in the fifth-year professional degree program after graduating summa cum laude from the four year program in June. At 35, he is a little older than most of his fellow students, but he has found that this has not been a handicap either in or out of the classroom.

In 1962, Jean began his architecture education at the University of Houston. Already an avid painter and designer, he found that he was not ready at that time for the discipline that architecture demands of an artist. He left school and joined the service, but four years later he returned to U of H as an art major. It was not until several years after, when he moved with his wife to St. Clair, Michigan, that he began, once again, to seriously consider formal architecture training.

Enrolling at LIT in 1978, Jean began an outstanding career of academic achievement, maintaining a perfect 4.0 average. He worked with professors as an assistant, then took over some basic design classes of his own. In the fifth-year program, Jean will undertake a thesis project on “Contemporary Theories in Architecture and the Idea of Alienation.” Most of all, he wants to come to some conclusions about design ideas and philosophy and how they affect our world.

“I believe that there is too much emphasis placed on models in architecture and not enough on creative design,” Jean notes. “I would like to put the art back into architecture because art in any form is related to the creative human experience. It’s something that we can all share. You can teach technique, but creativity should be the mark of a great architect—not whether he or she can follow accepted norms for design. I hope someday to change the current perceptions about design and to open up the strict guidelines which we placed on it in modern architecture.” □

Student Jean LaMarche seeks to put art and creativity back into architecture, thanks to his Yamasaki Scholarship.



Masonry Institute of Michigan



Robert F. Ebeling



James R. Snyder

Masonry Institute photos

A founding trustee of the Masonry Institute of Michigan, Robert F. Ebeling is best known for his pioneering work in the education of bricklayer apprentices. As the first chairman of the Board of Trustees of the International Masonry Apprenticeship Trust, he spearheaded the development of the industry's first standardized textbooks for the training of apprentices and journeymen. He has also advocated architectural education for people with backgrounds in the masonry industry.

The Ebeling Scholarship was set up by the Masonry Institute to honor this life-long Detroit-area mason contractor for his untiring efforts on behalf of the industry and its young people. The scholarship is awarded to an outstanding architecture student but special preference is given to those who have family members who are masonry contractors, bricklayers, or are employed in other architectural or construction related professions.

Recipients of the scholarship are chosen by a special committee which includes the executive director of the Masonry Institute, a trustee of the Institute, the dean of LIT's School of Architecture, and representatives from the LIT Scholarship Committee. Each year, a benefit golf outing is held to raise funds for the scholarship. □

James R. Snyder established his masonry construction company in 1949 and since that time has personally advanced many innovative techniques and designs for the industry.

One of his fondest desires, however, was to provide an opportunity for young people to pursue an education in architecture. He was particularly interested in helping those already involved in the masonry industry to become involved in the design decisions involved in construction. It was because of this that the friends and associates of J. R. Snyder established a scholarship in his name, through the Masonry Institute of Michigan.

Snyder was a founding trustee of the Masonry Institute and was also a life-long member of the Detroit Mason Contractors Association. The Masonry Institute golf outing which funds the Ebeling and one other scholarship, also provides funds for the Snyder Scholarship. □

For Kevin Gerald, fifth year architecture student at LIT and the winner of this year's J. R. Snyder Scholarship, his education and years of study at the College have been a time of increased awareness of everything for which he is grateful. First, he is thankful that a career decision he made several years ago has turned out to be a right one; second, that Kim, his wife of almost three years, has always been supportive even when times were difficult.

Kevin began his college program at Western Michigan University and Grand Valley State College where he studied art and music, focusing on talents which had emerged in earlier years. He soon found, however, that he had some adjusting of goals to do.

"At that time, I realized that sculpture, which I was most involved with, was not really practical," he notes, "and because I had just reconfirmed my Christian faith, I felt that the right choice of an alternate area of study could only be made through continued contemplation and prayer.

"I left school for nine months and, during that time, I strove to reach the right decision, one that utilized my talents but was also a goal that was attainable," he continues. "I talked to others and architecture kept coming up so I asked God for a confirmation that this was the right path. I was convinced He showed me several times that it was, so I came back to college and started at LIT."

The "signs" have turned out to be right because even while juggling work, classes day and night, and a new marriage, Kevin has always found some strength to continue on through the undergraduate program and then on for the fifth year professional degree. He attributes his exceptionally high grade point average, as well as his ability to press on, to his dependency on, and the dependability of, God in addition to the support of his wife.

"Without them, I could not have made it," he states, "and now that I am almost done, I want to keep my responsibilities to them uppermost in my mind."

Kevin also hopes to gain the three more years of practical experience needed for his architectural registration and to go back to some pursuits which have had to take a back seat for

Kevin Gerald and Gerald Poye



Cattermole photo

Kevin Gerald did some searching before he found his niche in architecture.

the last several years — art and music.

“I have never lost the desire to sketch and compose music,” he relates “but I could never devote the time to much besides school and work. Now, I would like to begin both in earnest and perhaps get a piano of my own. Then, I won’t have to drive everyone in the LIT cafeteria crazy with my repetitious practicing on the College’s piano between classes.” □

“I love education and I love school,” are words that are not often heard these days. However, for Gerald Poye, this year’s winner of the Robert F. Ebeling scholarship, they are absolutely true.

He is currently in his last year of LIT’s four year architecture program and, by his own count, two semesters away from a bachelor of science degree in interior architecture, and 30-35 hours away from a construction engineering degree. Gerald has studied at Western Michigan University, the University of Michigan and the University of Michigan-Dearborn as well as at LIT, and he doesn’t intend to stop there.

After he graduates with his degree in architecture this year and interior architecture next March, Gerald plans to begin work on a master’s degree. Then, he hopes to study and teach in Europe for several years. As he has always done, he will earn his own way, enjoying every moment of education no matter what the subject.

The background which Gerald has in

engineering has helped him in his architecture classes.

“Unlike many of the students, I have a better feeling of what can and can’t be done,” he notes. Five years of construction experience has helped me to know what is structurally feasible as well as what is actually done by the construction companies once they get the architect’s drawings.”

Currently, he is tutoring one day a week for students from junior high to college level. He believes that this is his “fair share” in the exchange of ideas.

“Knowledge is something that is free,” he states. “You give it and you take it but everyone must be involved in both exchanges.”

Gerald’s thirst for knowledge does not stop at architecture and engineering, however. He wants to study sociology, psychology, linguistics, and every part of many different cultures to immerse himself in the study of human existence.

“Architecture is a worldly job,” he states. “It’s all the professions in one

because you must understand everything about people before you can best design for them. The more I can find out and the more I learn about people in general, the better job I will be able to do.

“An architect must be open to other ideas,” he continues, “and not be tied down by his own personal tastes or impressions. I want to get exposure to everything possible, including conflicting as well as concurring ideas. I feel that by being able to see all sides of an issue, I will have done all I can to become the best architect I can be.” □

Gerald Poye tutors students from junior high to college level as he seeks to fulfill his fair share in the exchange of ideas. He feels a need to be exposed to all areas of human endeavor in his quest to design buildings best suited to their users and function.



Bizon photo



Annett photo

Frank de Hesselle, director of international student affairs, finds he sometimes wears many hats to serve the needs of LIT foreign students.

An 'international affair'

For nearly 400 LIT students from foreign nations, Frank de Hesselle is counselor, buffer, chider, father-confessor, and friend

While Director of International Student Affairs might sound like an official state department position, in reality it is the personal counselor, parent, friend, banker, and academic advisor for the nearly 400 international students at LIT.

Frank de Hesselle, who has held the position full-time in the admissions office

since 1972, must handle far different cases than the typical college admissions counselor. The international students who come to him often have very little idea about the customs of America, don't understand the way things must be done here, and expect something entirely different than what greets them when they get off the plane. Many of them are thousands of miles away from homes, friends, and families and have no one to turn to. A former LIT international student, himself, Frank understands their needs but also must be firm in seeing that they adhere to standards.

"The students often arrive here believing that America is the one they've seen in motion pictures—all milk and honey," he states. "They're not ready to deal with the tremendously fast pace of life here or with the overwhelming fact that, often in America, God is for everyone but everybody is for themselves. Distances are vast, public transportation is not readily available and rules and regulations cannot be bent.

"Sometimes, students will leave home without having made proper arrangements for a place to live or transportation. They expect that everything will be done for them," Frank continues. "I help them all I can but I also let them know that they have sole responsibility for

their actions while in this country. If they get into trouble, the authorities will not accept ignorance of the law as an excuse."

Frank has often been roused late at night to help students who really need assistance but he also is aware of the tricks they may try to get out of having

to live up to their own responsibilities.

"Some students will actually overdo their accents, hoping that someone will take pity on the 'poor little fellow' who's so far away from home," he laughs. "Some professors are too lenient with them because of this but I'm used to it. They get no special considerations from

me because they're not in their home country."

Frank is currently advisor to students from 62 different countries, some of whom are resident aliens who have not yet taken out American citizenship. The bulk of his work, however, involves the F-1 students.

Cooling a hot topic

Disasters, whether man-made or acts of God, have a way of overshadowing the everyday hostilities between nations. Such was the case when Gholamhossein (Hossein) Razmi, an LIT F-1 student from Iran, entered a burning apartment in Southfield to rescue neighbor William MacDonald from sure death.

Hossein, 30, who has been in the LIT mechanical engineering program for about four years, was studying in his bedroom when a neighbor banged on his door and informed him that there was a fire in the building. Hossein rushed into the seventh floor hallway from the apartment which he shares with two other foreign students and found himself faced with choking clouds of smoke.

"I heard that a man was trapped in the apartment where the fire started," Hossein relates, "and so I ran to the door to see if I could help. Just then I saw someone crawling out of the door and I thought it was the man they had told me about. He pointed back into the apartment and let me know that he had been trying to rescue the trapped man but had been overcome with smoke.

"I rushed into the apartment and called to him, using every word I knew in English," he continues, "but the fire and smoke were too strong and I had to leave after about five minutes. I went back to my apartment, grabbed some Kleenex, put it over my face and went back in. This time I saw him lying under a burning mattress with his clothes on fire. I pulled them off, wrapped my jacket around him and carried him to the

elevator where the fire department had just arrived."

During this time, Hossein's two roommates, LIT student Bassan Alonajjar from Iraq and another Iranian student from Detroit Institute of Technology, had grabbed the extinguishers and were fighting the fire. It was too intense however, to be contained and it took the Southfield Fire Department to finally put it out.

The man who was rescued by Hossein was burned on over 45 percent of his body but he is recuperating well and is expected to make a full recovery. Hossein sees

nothing unusual about his act of heroism, even though he received a special citation from the fire department, nor does he give any thought to the problems which have occurred between his country and that of his Iraqi roommate or with America.

"I just take people as they are and I hope that they will do the same," he notes.

And, though he has not seen nor heard from the man he rescued that night, Hossein is not looking for thanks or any special treatment. "But, I'd like to see him," he smiles, "because I would like to get my jacket back." □



Hossein Razmi disregarded national politics to save the life of a fellow human being.

An exodus for opportunity

Having parents who escaped the "holocaust," serving 18 months in the Israeli army, having lived through two wars close to home, and finding herself a "stranger in a strange land" has not embittered Sarah Hillman. On the contrary, she finds life a "joy" and as an international student at Lawrence Institute of Technology, her insights on Israeli and American life have made her a most interesting college addition.

Sarah, an accounting student at LIT, was born in Tel Aviv, the middle child in a family of "mixed" nationality. Her father, a Pole, and her mother, a Greek, both fled their native countries during WWII, settling in Israel just before it became a state.

Sarah attended school in Israel and at age 18 was drafted into the Israeli army. "Women do not fight in Israel anymore," she notes, "but they still must learn how to operate and clean a gun. At that time, everyone had to serve in the army unless they were married (women only) or were excluded for religious reasons."

In a country which is generally thought of as a religious state, it seems strange that some can be deferred from military service for religious reasons, even to Sarah. "Jewish history is very sad and wars are very destructive but we must protect ourselves," she notes. "I couldn't help resenting, though, the fact that often those who talked the loudest about waging wars were also the ones who's sons were not serving because orthodox Judaism does not allow men to fight."

There is a great deal which Sarah misses in her home country, but she still enjoys America and its way of life. "In Israel," she states, "there



Sarah Hillman

Annett photo

seems to be more warmth between people, probably because they are all working for a common cause. Still, I don't believe in generalizations and you can find cold, mean, or warm people in every society. I know that it is America that made it possible for me to go to college because in Israel there were few places where one could go for an education and I am very thankful that I was given the opportunity."

Sarah will graduate from LIT in June of this year. Having recently married an American and being a resident alien and not an F-1 student, she will be staying in this country, hopefully finding a job in New York City with her husband. Her memories of home will remain with her, though, as well as her hope that Israel will someday be free from the threat of war and able to exist as a free and independent state. □

"An F-1 student is a student who has convinced the Department of State that he or she wishes to study in America on a temporary basis and received an F-1 classification," Frank notes. "They must assure consular officials that they will return to their native country after the termination of their studies and prove that they have the funds necessary for their education. The money for their first year must be readily available when they apply.

"F-1 students cannot work in this country unless there are extenuating circumstances which were not foreseeable at their time of entry," he continues. "Then they can petition and may be granted the right to part-time employment by the Immigration and Naturalization Service (INS).

"An F-1 student must maintain an acceptable grade point average while carrying a full-time course load," Frank relates. "Otherwise, they lose their eligibility for F-1 status and may be liable for seizure and deportation by the INS."

Because of the many rules and regulations and also because of their native country's sometimes brutal police system, the students are often afraid of the immigration authorities. Frank, on occasion, serves as a buffer between the two.

"There have been only two or three deportations and very little trouble with the international students at LIT," he states, "because most of the students who are here are eager to study once they understand the ground rules."

A total of 393 international students enrolled at LIT in the fall of 1980, 215 of which were F-1 visa holders. The largest group, 107, came from Lebanon. Large numbers of students also came from other middle eastern nations as well as from such "far away places" as the Philippines, Nigeria, Greece, India, Bangladesh, and Yugoslavia.

Of the 393 students, 249 enrolled in engineering programs, 70 in architecture, 26 in management, 18 in arts and science and 13 in associate studies. The others were given special or guest status.

Why would a foreign student choose LIT out of all the other colleges and universities in the United States? Perhaps for the same reasons Frank, himself, did several years ago.

"I wanted a smaller college with more of a personal touch," he remembers. Also, I found the tuition more within my means and the programs very career-



Annett photo

cent of the F-1 students stay in this country permanently after graduation," Frank states. "You may hear many unusual stories about convenience marriages and such but the restrictions are much too tight to make it possible for many students to convince the authorities that they have good reason to stay.

"In order to live and work here after graduation," he continues, "anyone on a F-1 visa must prove to the Labor Department that they are going to be doing a job for which no U.S. citizen or resident is available—and that is not easy. Right now, there are many positions open in the skilled trades but not in the professional areas."

So—while most of the students find

Frank de Hesselle (center) strives to help students from other nations understand and succeed in the College's competitive educational programs.

'Students often arrive here believing that America is the one they've seen in motion pictures—all milk and honey.'



Cattermole photo

oriented. Currently, the highest enrollment of foreign students is in construction engineering. They are preparing for a career in which there is a dire need for trained professionals in their countries."

Although Frank has adopted the customs and ways of life in America (even while remaining fluent in his own native Dutch language as well as German, French, and English), he is disappointed that other international students do not choose to become more involved.

"There could be more intermingling between the international students and

the American students," he notes. "Each group keeps pretty much to itself, which means a minimum of difficulties but also that they are missing other ideas and other points of view. Still, I do believe that international students cannot help but take back to their own countries a better understanding of the American way of life and I think that's very important."

And—home they do go—contrary to what many people believe.

"I believe that only about 10-15 per-

themselves returning home to Kenya or Cameroon or Thailand or wherever they have their roots, they take back with them much more than a college degree and suitcases full of belongings and memorabilia. They also carry back the memory of a college which, from its very beginnings, fulfilled the essence of the American dream—education for everyone—no matter what race, color, creed, social status—or national origin. □

Dooley 'registers' big impression for recent grad

Few people at LIT are as fondly remembered as the College's first registrar, Genevieve Dooley. She joined LIT at its founding in 1932 and worked with exceptional dedication until her retirement in 1963. The dedication in that yearbook probably best sums up her years of service to the students at Lawrence:

Miss Genevieve G. Dooley, registrar at Lawrence Institute of Technology since Lawrence Tech's founding, will retire in June of 1963.

Miss Dooley had been the secretary of the late Russell E. Lawrence, founder of the college in 1932, for 14 years prior to joining the staff. Lawrence Tech's enrollment has grown from less than 300 in 1932 to an excess of 3300 in 1963. In the words of Dean E. O. Graefe, "It can truly be said that Lawrence Institute of Technology could not have prospered and progressed the way it did without the help, loyalty, and endless hard work contributed by Miss Dooley. For without her courage, confidence and guidance there might not be a Lawrence Tech in existence today." To Miss Dooley, whose presence in the Registrar's Office will long be remembered, the 1963 staff dedicates the 1963 *L-Book*.

Last year, an alumna who owes her entire college career to Miss Dooley, Linda Christine (Chris) Blackwell, Hu'79, funded an annual award to be named after the former registrar and presented to each year's outstanding humanities student. Chris lived near Miss Dooley and, at first, had no intention of attending college. "Miss Dooley was always very concerned about my education," states Chris. "She finally convinced me that it was important for me to go to college and, of course, she 'suggested' LIT. She thought it was the greatest college on earth."

The 1980 winner of the award was Adriana Vasile, an international student from Romania, who maintained the highest grade point average in the humanities program.

Recently, the *LIT Magazine* contacted



As the College celebrated its Silver Anniversary in 1957, Registrar Genevieve Dooley received a watch from then-President E. George Lawrence to commemorate her quarter century of service. She retired in 1963.

Miss Dooley to reminisce with her about the "early days." She is now 82 years of age and living during the winter in Pompano Beach, Florida with her twin sister, Gertrude Steltenpohl. In summer, they share an apartment in New York City near Mrs. Steltenpohl's daughters.

Miss Dooley is still as charming and enthusiastic as ever and shares these memories with *LIT Magazine* readers.

"Beginning in the late 1920's I was employed as a secretary to the faculty of the engineering school at the University of Detroit where Russell Lawrence was dean. As I recall, Mr. Lawrence had the idea for some time of starting his own college of engineering before he took the actual step of opening Lawrence Tech in September, 1932. He particularly wanted to provide an educational opportunity for working students by offering an evening engineering school. When he made the decision to open LIT, he invited me to join the staff in the position of registrar and bursar. I accepted and was with the College from the beginning. Although the financial problems were very severe in opening a college in the midst of a depression, several factors helped make it possible. The Henry Ford Trade School, which was the original site of the College on Woodward Avenue in Highland Park, was made available to us for classes fully furnished and rent-free in the

beginning. The College enjoyed good credit from the beginning because of Russell Lawrence's fine reputation, especially in industry.

"A number of colleagues of Mr. Lawrence's from the U of D joined the LIT faculty at the outset and worked at first without pay. I too worked initially without pay. As our finances improved, our back salaries were made up.

"It was a difficult time in the beginning for students too, in terms of their ability to pay tuition. We extended credit to every student who needed it and my recollection is that none of them disappointed us in eventually paying what they owed. Among our first students, of course, was Wayne Buell. I remember him working in the cafeteria while he was going to school, doing the dishes and getting his meals there.

"Russell Lawrence's untimely death, only eighteen months after the College opened, was a severe blow. I believe the fact that LIT survived this great difficulty demonstrates how well organized and staffed the College had become in a very short time. As I think back on my thirty years at LIT from 1932 until my retirement in 1963, the very pleasant memories I have of the faculty, staff, and students I came to know over the years far outshine my recollection of the difficult times we had in the beginning." □



Cattermole photo

Fit to a Tee. What's the most difficult and dreaded subject at LIT? If the new T-shirts students like Mark Weidle are sporting are any indication, it's that most insidious of all requirements—calculus. The "I Survived Calculus at LIT" T-shirts were the brainchild of bookstore manager Gail Nastwold. She says the shirts are selling very well, raising the suspicion that either calculus isn't really all that tough—or some victims are trying to pass as victors. (From the Southfield Eccentric.)

Applications, tuition up

It looks like 1981 could be another banner year for Lawrence Institute of Technology, as the number of new students accepted for admission next fall is already far above that of 1980, itself a record year.

As of March 1 of this year, 716 new students had been accepted for LIT's day baccalaureate programs beginning next fall. Last year at the same time, 581 were accepted and, by the fall term, a record 5,260 students had registered for classes. This year's largest increase, once again, is in engineering where 333 applicants have already been accepted into electrical, mechanical, and construction engineering, compared to last year's March 1 total of 290.

According to Stan Harris, director of admissions at LIT, the increase may require the College to become more selective by raising admissions standards or closing admission early to some programs.

"We are finding that students are enrolling at LIT in record numbers, in these hard economic times, for several reasons," Harris notes. "First, we offer programs which are oriented toward today's career market while maintaining a competitive tuition level which is often lower than that of state supported colleges. In addition, our convenient loca-

tion in Southfield and the availability of regularly scheduled evening programs appeal to students who must commute and/or work full-time while attending college."

Basic tuition for full-time students enrolled in bachelor of science programs will be \$555 per term in 1981-82, up \$45 or 8.8 percent over the current academic year. Even with the increase, LIT tuition remains among the lowest of any private technological college in the nation. □



Bizon photo

Facilities director named

Jack Armstrong of Southfield has been named director of campus facilities at Lawrence Institute of Technology.

A graduate of Northwestern High School in Detroit, Armstrong began working in the building trades as an apprentice carpenter in 1951. He graduated from the Building Trades Carpenter Apprenticeship program in 1955 and worked for many years as a construction superintendent and project manager with several metropolitan area construction contractors. He began working for the City of Southfield in 1976 as director of facilities and construction project coordinator for the City's civic center project.

Armstrong replaces Jewell Egger as campus facilities director at LIT. Egger retired in February after 11 years of service to the College. □

Coming events

May 21 Downtown is Looking Up, Edmund Bacon, planner and urban designer and 1981 visiting professor in the School of Architecture. LIT Arch. Aud.; 7:30 p.m.

May 21 Honorary dinner to induct Don Ridler, former LIT basketball coach and athletic director, into Michigan Sports Hall of Fame. Cobo Hall. All alumni and LIT staff invited. Tickets must be purchased in advance.

May 22, 26 Registration, Day College, summer session. Classes begin May 27.

May 28, June 5 Registration, Associate Programs, summer session. Classes begin June 8.

June 3, 5 Registration, Evening College, summer session. Classes begin June 8.

June 7 Graduates Breakfast. LIT cafeteria; 8-10 a.m.

June 7 Commencement. Ford Auditorium; 2:30 p.m.

June 16 Annual Business Meeting of the LIT Alumni Association. Plum Hollow Golf Club. RSVP Alumni Office by June 9.

August 25, 27 Registration, Associate Programs, first term. Classes begin September 1.

August 26, 28 Registration, Evening College, first term. Classes begin August 31.

September 3, 4 Registration, Day College, first term. Classes begin September 8. □

Faculty and staff notes

Dr. **Victor Angelescu**, chairman of the humanities department, was the editor of the Romanian section of the *Columbia Dictionary*, printed in late December. Victor was also the editor of the section on Romanian literature for the *Michigan Language Association International Bibliography*, a post which he has held for 14 years.

Bruce Annett, director of public and alumni relations, has been elected to a three year term as director of the Oakland County Pioneer and Historical Society and appointed head of the Society's public relations committee.

Dr. **Hans Bajarja**, associate professor of mechanical engineering, presented a paper in Paris, France at the 8th Automotive Section Conference of the European Organization for Quality Control (EOQC) on November 18. His paper was entitled, "Some Frustrations in Quality Training." Approximately 350 people from the automotive industries in Europe were *in attendance*.

George Bowden, chairman of the construction engineering department, swam in the regional AAU Masters Competition on December 13 at Oakland Community College. George, who was on the Purdue University varsity swim team, took first place in the 50, 100, and 200 yard freestyle events and recorded a 50 yard time which was only 5 seconds off his best time in college. The next step in the competition is the state event which will be held in May at Michigan State University.

Louis De Gennaro, associate professor of management, has been appointed to a panel of labor arbitrators for the Michigan Employment Relations Commission. The panel of arbitrators has jurisdiction over all labor disputes involving public employees in Michigan.

Dr. **John D. Hromi**, chairman of the mechanical engineering department, has been appointed to the Board of Governors of the American Association of Engineering Societies.

Kari Isaacson, associate director of development, has been appointed to be on the new Legislative Concerns Committee of the Michigan Chapter, National Society of Fund-Raising Executives. The aim of the committee is to translate Michigan legislation and regulations, as they relate to charitable institutions and fund-raisers, from the "legalese" to layman's English. Future plans include drafting legislation and regulations for submittal to the Attorney General's Office.



Jewell Egger retired February 13 after 11 years of service as campus facilities director. He was bid farewell at a faculty and staff reception in his honor. Here, he and his wife, Ruth, hold up the cake prepared for the occasion. It reads "Mr. Egger—you have indeed been a jewel." A vacation in the south was Jewell's next order of business.

Paul F. Kinder, director of financial aid, has been elected treasurer of the Michigan Association of Collegiate Registrars and Admissions Officers (MACRAO). MACRAO has a membership of over 1500 admissions officers, registrars, financial aid officers, and other collegiate personnel. Paul's term runs through the 1981-82 academic year.

Doug Koch, assistant professor of management, has been asked to serve as the college relations coordinator for District 5 (Wayne, Oakland, Macomb, and St. Clair counties) of Region X (Michigan) of the American Society for Personnel Administration. ASPA is an organization of over 24,000 professionals whose interests are the many aspects of human resources management.

Ed Mielock, assistant to the dean for associate studies, has been approved as a Certified Engineering Technologist. His application was approved by the Engineering Technological Certification Institute in Washington which is sponsored by the National Society of Professional Engineers.

Joe Olivieri, professor of architecture, is becoming an international author as one of his articles on "Sexual Harrassment" has been translated for a German magazine. In addition, the *Air Conditioning Heating & Refrigeration News* recently ran another of Joe's articles, "A Consultant Looks at... Ventilation and Energy Conservation."

Dr. **Louis Petro**, dean of management, was busy during October as he conducted three workshops and presented a paper on "Cost Accounting in an Inflationary Period" at the annual Michigan Association of CPA's Management Advisory Services Conference. The three workshops included: "Statistical Sampling in Auditing" for the Oakland University Continuing Professional Education Program; "Shop Floor Control" for the American Production and Inventory Control Society; and "Financial Management in the Medical Office" to the Orthopedic Office Managers Group.

Mike Sweeney, assistant professor of management, recently received his license to practice as a certified public accountant and has also been accepted as a member of the Michigan Association of Public Accountants.

Capital Campaign passes \$8 million

Pledges and contributions to LIT's five-year \$12.5 million Capital Campaign passed the \$8 million mark in February. As of March 31, 1981, the Campaign had raised \$8,134,438, accounting for 65 percent of the goal.

Pacesetter gifts to the Campaign from October 1, 1980 through March 31, 1981 include: Sage Foundation \$50,000, J. L. Hudson Company \$25,000, Barton-Malow Company \$20,000, Charles B. DeVlieg Foundation \$20,000, Amax Foundation \$15,000, Champion Spark Plug Company \$15,000, George I. Alden Trust \$10,000, Commercial Contracting Corporation \$10,000, Fishbach-Natkin Company \$10,000, O. Germany, Inc. \$10,000, and Maccabees Mutual Life Insurance Company \$10,000. □



Cattermole photo

Edison Campaign. LIT alumni at Detroit Edison contributed over \$69,000 to the College's Capital Campaign during a recent in-house fund-raising effort coordinated by Bill Pence, EE'52. Of the 199 alumni working at Edison, 54% or 107 donated a total of \$34,590 toward a new energy systems lab, part of the renovation of engineering facilities called for in the Capital Campaign. Volunteers who worked on the Campaign at Edison were (left to right): Frank Plizga, ME'61; Larry Sundgren, EE'61; Eugene Bosetti, EE'55; Bill Pence; Jim Kelly, ME'49; and Ray Berta, ME'43. Not pictured but also a Campaign volunteer was Maurice Vermeulen, EE'60.



Free enterprise. Nine students from Lawrence Institute of Technology were in Lansing recently to witness the signing of a proclamation by Gov. William Milliken designating March 16 as "Free Enterprise Day." The students are members of the College's Students in Free Enterprise (S.I.F.E.) organization which seeks to promote the American economic system through various projects. Included in the group were: (L to R) Steven Voorheis of Pontiac, Anne Innes of Canton, Pat Keeley of Southfield, Peggy Samulski of Sterling Heights, Keith Ulrich of Detroit, Kevin Wood of Southfield, Cathy Reed of Royal Oak, Bob Hall of Detroit, and Bob Foess of Southfield.

Clock running on Kresge Challenge

Time is running out for alumni to help secure a \$500,000 challenge grant from the Kresge Foundation.

The grant was awarded to the College for the construction of the Management Building, phase one of the Capital Campaign. To qualify for the grant, LIT must raise the \$2,500,000 needed to complete construction of the building by June 30, 1981. As of March 31, approximately \$1,500,000 had been raised.

Lewis C. Veraldi, ME'68, campaign general chairman, said the Kresge grant "provides us with considerable incentive to wrap the campaign up at the earliest possible date. It has a profound impact."

Alumni wishing to "help meet the challenge" or to increase their level of support to the College in light of the Kresge challenge can send their contributions to the LIT Development Office, 21000 West Ten Mile Road, Southfield, MI 48075. □



Annett photo

Tau Beta Pi. Contrary to its name, the "Bent Key" monument isn't an advertisement for the graphite industry — it's the symbol of national engineering honor society Tau Beta Pi. Students and alumni members of the Society gathered April 11 to dedicate their campus monument, located outside the Administration/Engineering Building. Pictured are (L to R) 1979 Tau Beta Pi President Jim Webster, III; 1979 Vice President Wayne Shintaku; Dr. Stephen Davis, dean of engineering; Dr. Wayne Buell, LIT chairman; Richard Maslowski, department chairman, electrical engineering, and Tau Beta Pi faculty advisor; 1981 Tau Beta Pi President Gregg Lefstad; and Deborah Dohring, 1978 Tau Beta Pi president.

Another good one!

Hundreds of guests attended Open House '81, LIT's annual all-campus extravaganza for prospective students, alumni, community and professional friends, and other visitors. LIT students and faculty again prepared plenty of interesting displays, fascinating demonstrations, and entertaining distractions for the two day event, held this year on April 11 and 12.

Urban planner, author, and educator, Edmund Bacon was the keynote speaker. Other highlights included the second annual "Run for Excellence" 10 kilometer fun run, dedication of Tau Beta Pi's campus monument, and the annual alumni reunion dinner-dance. (See page 30 of this issue.) □



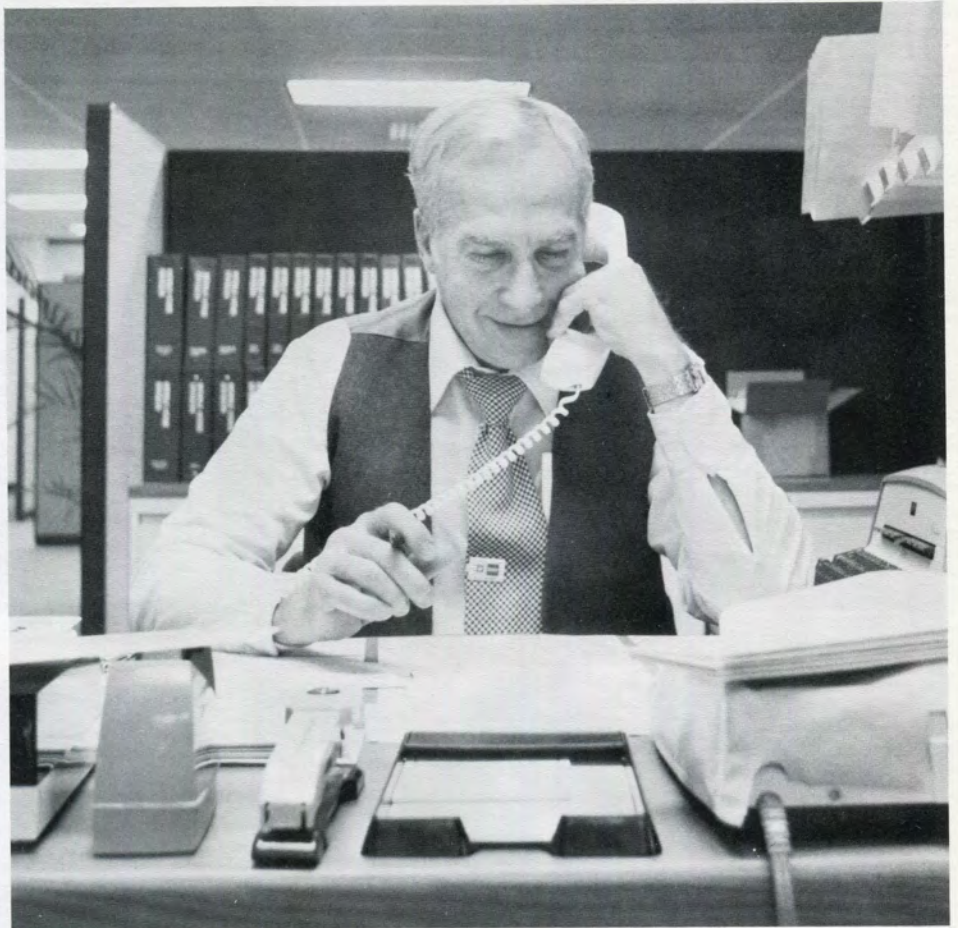
Above, Open House visitors examine concepts for the "Southfield of Tomorrow" in the School of Architecture while (right) Walter Schoneck shows guests an engineering lab.



Run for Excellence. A thundering head of running enthusiasts sprint over the starting line to begin LIT's second annual Run for Excellence, sponsored by the Student Chapter of the American Institute of Architects (SC/AIA). Winners of the race for the second year in a row were brothers Ed and John Grabowski, who later participated in the Boston Marathon.



Sue Gralinski, student



Robert Heintz, ME'51, EE'61

Alumni pledge nearly \$90,000 during winter phonathons

LIT's 1980 Phonathons, held November 10-20 and December 3, brought pledges of \$64,154 from 615 alumni, nearly 2.5 times the original goal of \$25,000.

The November Phonathon was the most extensive ever mounted by the College and the first in recent memory. More than 100 alumni, student, and staff volunteers contacted 2,195 alumni who had not previously been personally approached to support the College's Capital Campaign.

Phonathon offices and phones for the November and December efforts were generously donated by Bob Schlaff, IM'62, and Citicorp.

In February, 1981, a special Phonathon was conducted to reach former scholarship recipients and Alumni Achievement Award winners. Forty graduates pledged a total of \$22,945, including corporate matching gifts.



Bob Buccellato, ME'79

Volunteer alumni callers for the phonathons included Ron Adams, Roger Avie, Jim Battle, Frank Bell, Marshall Bloom, Betty Boschma, Allan Breyer, Ian Bromley, Bob Buccellato, Wayne Buell, Richard Darbyshire, Bob DiPonio, Joe Dyki, John Fawcett, Dave Fillion, Doug Fisher, John Flood, Gil Gatchell, Jeff Gendron, Bob Heintz, George Hutzel, Frank James, Charles Jones, Jr., Brian Judge, Art Kelley, Paul Kolanek, Chuck Koury, Henry Kovalsky, John Lahti, Marlyn Lisk, Dennis Marburger, Ted Milek, Bob Nowicke, Sue Nowicke, Dennis O'Connell, Cal Opperthausen, Frank Parcella, Al Prevost, George Rinaldi, Al Rouse, Jack Rouser, Ron Sanders, Nick Sarzynski, Bob Schlaff, Wayne Shintaku, Roger Shtogrin, Gerrit Stemmer, Paula Stofer, Marvin Strzyzewski, Henry Tamagne,



Dennis Marburger, BA'76

Mike Ugorcak, Jim Webster, Herman White, Hurst Wulf, Loren Yaros, and Michael Zulinski.

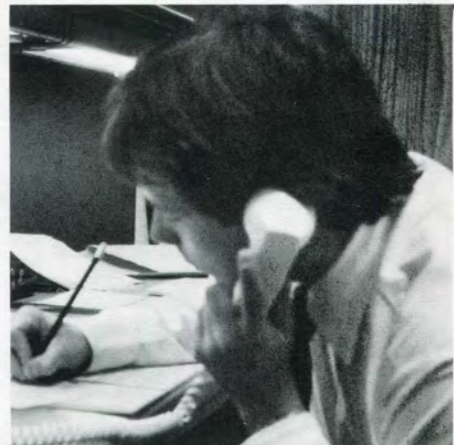
Student volunteer callers included Carlos Allison, Carolyn Andrek, John Berbiglia, John Dombrowski, Florian Duchin, Andy Freeburn, Sue Gralinski, Tom Hadjimarkos, Daniel Heise, Clark Hoppel, Kevin Johnson, Lisa Krusiewicz, Greg Lefstad, Denise Martin, Bill McDonough, Al Moen, Bill Morrow, Anita Mouradian, Ramona Penzien, Dave Perye, Jack Price, Mark Schmitt, Tom Shea, Tim Theriault, Janice Torosian, Cindy Weiland, and Mark Young.

Staff volunteer callers included Bruce Annett, Wayne Buell, Anne Cattermole, Stephen Davis, Jewell Egger, John Flood, G. Robert Harrington, Stan Harris, Ron Huizenga, Kari Isaacson, Mel Janney, Mona Kolanek, Modelle Lee, Ernie Maier, Richard Marburger, Richard Michel, John Miller, Ed Nagel, Lou Petro, and Roberta Wisler.

Friends who volunteered included Vita Buell, Shirley Curran, Dorothy Harrington, Allan Levy, Pat Petro, Rita Stano and Jill Toft. □

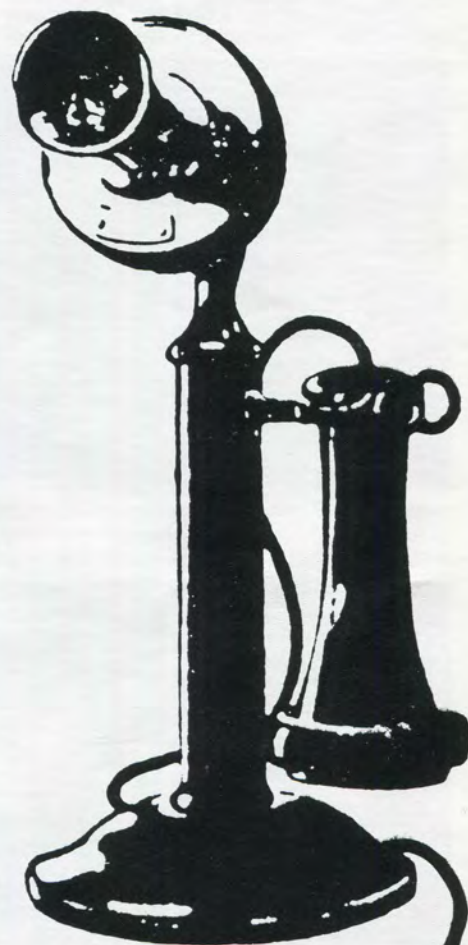


Joseph Dyki, ME'62



David Fillion, EE'76

Bruce Annett photos



Alumni Association News

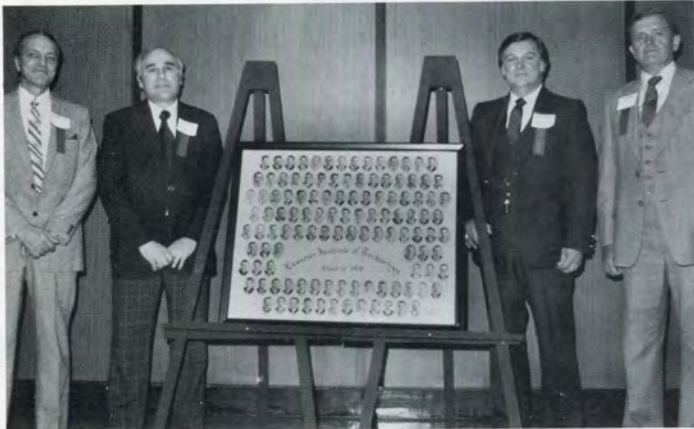
The beat goes on . . .

The annual LIT reunion dinner-dance April 11 attracted a full house to the College dining room. Alumni and their spouses or guests reminisced over a remarkably delicious belt-popping dinner, chuckled during a short program honoring anniversary classes, and then enjoyed four hours of music presented by alumnus Mike DeKimpe's Blue Mist Orchestra. Judging by the number of grads who stayed around until 1 a.m. — the event was an unqualified success.

Among the door prizes awarded, honors went to the oldest alumnus, Reino Meining; the earliest class represented, Wayne Buell; the alumnus coming the greatest distance, Richard Czubaj; and the youngest alumnus, Mark Kovalsky. □



LIT Board Chairman Dr. Wayne Buell, ChE'36 (second from left), was the recipient of the "light bulb" award for his enlightened leadership of the College. LIT President Richard Marburger (left), and LIT's top administrators presented the gift, an Edison light bulb skillfully reproduced by Edisionia expert Bob Koolakian of Greenfield Village (fourth from left).



Class of '56. Twenty-five years goes by mighty quickly, agree (L to R) Andy Kszych, Tony Spadafore, Thomas Braun, and Adrian Boswell, gathered here around their class graduation photo.



Class of '46. The Class of '46 had the highest percentage of grads show up for the festivities — five out of a possible 13 — thanks to the efforts of calls or letters from John Flood. Pictured (L to R) are Reino Meining, John Flood, Al Harmon, Roland Krupp, and Joseph Muccioli.



Class of '71. The Class of '71 returned in force as evidenced by their group photo. Pictured (Back Row L to R) are Tom Pallas, Richard Czubaj, William MacMunn, Fred Rosiak, James Nichols, and William Baldner. (Front Row L to R) Terry Bilovus, Rich Gibbons, Charles Smith, Michael Bailey, Irek Imirowicz, and Joseph Carolin.



They could have danced all night . . .

Alumni Notes

Information appearing in this section is gathered from media sources which mention that an alumnus is an LIT graduate, from corporate news releases, from alumni correspondence or use of the alumni notes form which appears in each issue.

1933-59

Harold V. Christensen, ME'39, writes that he is the senior engineer at Boeing Commercial Aircraft's new plant in Macon, GA. He says that the firm is looking for experienced people for tool design, inspectors, tool makers, and computer operators.

"Having had good training at LIT, I have held good positions at Michigan Tool, Ex-Cell-O, Martin-Marietta Balistic Missile, and now at Boeing. I was 74 last April and am still going strong—praise the Lord! Greetings to old friends at LIT and Pi Kappa Phi."

National Bank of Detroit has announced the appointment of **R. Paul Engle**, ArE'50, of Farmington Hills as vice president in its property management and purchasing division.

In his new position, Paul is responsible for the design and construction of NBD and National Detroit Corporation banking facilities. He previously served as second vice president and manager of the bank's design and construction department. He is certified by NCARB, and is a member of the Michigan Society of Architects, AIA, and the American

Arbitration Association. In 1973, he received an alumni achievement award from LIT.

The architectural firms of Richard J. Hapley Associates of Dearborn and **E. David Reitzel** Associates of Saline, completed a merger recently which brought two long standing architectural firms together. The new firm will be known as Hapley/Reitzel Associates, Inc., Architects A.I.A. with offices located in Dearborn.

Dave, ArE'55, and his family reside in Westland. He is a former member of the Westland Planning Commission. Richard attended LIT.

1960-69

William L. Surbrook, IM'60, has been named a production administrator at GM's Fisher Body plant in Trenton, NJ. He resides in New Town, PA.

Maurice L. Vermeulen, EE'60, has been named manager of Detroit Edison Company's Wayne Division, a post giving him responsibility for electric service to 249,000 customers in 42 western Wayne and Monroe County communities. The Wayne Division includes an area of roughly 782 square miles and its 440 employees are located primarily in a new headquarters building in Van Buren Township.

Maurice joined the firm in 1949 immediately following graduation from high school. He

served in the Army for two years and then rejoined the company, working full-time while earning his degree at LIT. He filled a variety of engineering, marketing, and customer service posts in Port Huron, Detroit, and Birmingham before being named manager of the firm's Ann Arbor Division in 1976.

He is a registered professional engineer and member of ESD and IEEE. He and his wife, Jean, live in Plymouth Township.

West Bloomfield's planning director, **Frank Reynolds**, ArE'62, recently received national certification from the American Institute of Certified Planners, an institute of the American Planning Association. He completed the national institute's testing on physical, economic and social planning, urban design, historical planning, and transportation and circulation planning in November. Reynolds has been planning director since 1973. Frank is working on his Ph.D. in planning at U. of M. He holds a master's of urban planning degree from Wayne State.

Arthur E. Maass, CivE'63, has been appointed to the newly created position of director of utilities for the City of Midland. The new position is the result of combining the Water Department and the Waste Water Treatment Department. Art had served as waste water superintendent since 1963. He will be responsible for the operation of the waste water treatment plant and two water treatment plants, including Midland's \$26.5 million water plant expansion. He is a registered professional engineer.

Taylor resident **Patrick J. Scullion**, ME'63, IM'76, has been named vice president, marketing and district operations, for the Michigan Consolidated Gas Company.

Pat is responsible for all gas marketing functions for Michigan Consolidated as well as the operations in the company's outstate districts, including Grand Rapids, Muskegon and some 430 other communities in the northern portion of the State's Lower Peninsula and the Upper Peninsula. Pat joined Michigan Consolidated in 1955 as a meter reader. In 1961 he moved into the company's engineering operations and two years later moved into the marketing activity. In 1975 he was appointed director of regulatory affairs, a position he held until 1978 when he was named director of market services.

In 1969 he received his juris doctorate from the Detroit College of Law. Pat and his wife, Nancy, have three children.

The judges of the 41A District Court have elected **Kenneth J. Kosnic**, IM'64, chief judge. The 41A District serves the communities of Utica, Sterling Heights, and Shelby and Macomb Townships. Ken received an alumni achievement award in 1979.

W. Barry Bitzer, IM'65, of Orchard Lake earned a master of arts degree from Central Michigan University. While attending CMU, he was president of the Twin Beach

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 activities. Moving? Please send us your new address.

Name _____ Major _____ Class Year _____

Street _____

City _____ State _____ Zip Code _____

Check here if this is a new address

News notes:

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

School Parents-Teachers Association, treasurer and Webelos leader of Pack 107 and president of the Twin Beach Civic Association.

Richard Adelson, ArE'67, has joined the Rados Partnership Architects Inc., of Tampa, FL, as partner in charge of technical management. Richard was previously with Smith, Hinchman and Grylls Associates, Inc.

Gary R. Maule, EE'67, was recently promoted to manager of instrumentation and control engineering at Gilbert/Commonwealth Associates in Jackson. He earned his M.B.A. from Loyola in 1973 and was professionally registered as an engineer in 1975. He lives in Cement City.

Thomas E. Hansz, A.I.A., Ar'68, addressed the annual meeting of the Michigan Chapter of the American Institute of Kitchen Designers in Lansing in December.

The topic of his speech and slide presentation was "Kitchen Design - An Architect's View," and dealt with not only this perspective but with mutual professional cooperation as well. Kitchen design has many times been neglected as a consulting service in residential architecture. The A.I.K.D. members are seeking ways to work closer with architects and Tom illustrated ways this can be accomplished.

Tom is owner of an architectural office in Birmingham and currently is working with LIT's Development Office and other graduates to increase professional participation in the College's Capital Campaign.

Ronald M. Muccioli, IM'69, has been promoted to advanced car product planning manager for Ford Motor Company's Ford Brazil division. He joined Ford in 1969 as a product design engineer.

1970-80

Kmart Corporation has named **Leo L. Maniago**, IM'71, general manager of the new Kmart department store in Alma. Leo comes to his new assignment after serving as co-manager of a Kmart store in Taylor. Previously, he managed Kresge variety units in Detroit, Grosse Pointe, and Fostoria, OH.

David H. Wulff, Ar'71, a partner in the firm of Wulff, Nichols Architects of Cheboygan has been accepted to the American Arbitration Association's Commercial Panel.

The American Arbitration Association maintains a National Panel of Arbitrators, consisting of experts in all trades and professions. Arbitration is the voluntary submission of a dispute to a disinterested person or persons for final determination. In his appointment as a member of the panel, Dave has been recognized as an individual competent to hear and determine disputes administered

under the construction industry arbitration rules.

Dave has taken graduate training in urban planning at Wayne State. In addition to teaching architecture at the University of Detroit, he was principal of his own firm, David Wulff Architect in Troy.

John Peterson, Jr., Ar'72, has transferred from Memphis, TN, to Rochester, NY, as area real estate manager of Abko Properties, Inc. of Wichita, KS. He is a member of the National Association of Corporate Real Estate Executives.

William A. Ervasti, IM'73, of Warren has been named second vice president and personnel officer at Manufacturers Bank of Detroit. Bill joined the bank in 1973 and was named personnel officer in 1974.

Larry S. Gillespie, MT'73, has been appointed vice president-project management for the Midwest Mechanical Contractors division of R. E. Dailey & Co. Larry joined the Detroit-based general contractor and construction management firm in 1978 following service with other construction companies.

Lawrence A. Pachla, Ch'73, has joined Warner-Lambert in Ann Arbor as senior scientist of the pharmacology department's drug metabolism group.

Larry, formerly with McNeil Pharmaceutical, attended Michigan State's graduate program before earning his Ph.D. at Purdue University in 1978. His scientific articles have appeared in 12 publications. His most recent appears in the April issue of *Analytical Chemistry*, "Pharmaceutical Analysis Review."

Frederick H. Printiss, IM'73, is a sales engineer with Nelson Muffler, a division of Nelson Industries, Inc. in Stoughton, WI.

Daniel H. Lafferty, Ar'74, of Troy, an architect with Ellis/Naeyaert/Genheimer Associates, Inc., has received his professional registration from the State of Michigan. Dan has been working on several shopping center projects for the Taubman Company and on the renovation of the Detroit-Canada Tunnel Plaza.

Mark A. McPherson, Ar'74, BA'75, is a registered architect employed as a Project Designer at CRS Architects in Houston, TX. Mark's work includes projects in the U.S. and Saudi Arabia.

James R. Wangler, IM'74, has been named manager of agency services for Dravo Mechling Company of Pittsburgh, PA. He is involved in planning, marketing, and sales for all of Mechling's sales offices in the United States.

Dennis R. Marburger, BA'76, has been named an account executive with Kidder Peabody. He received his M.B.A. from U. of M.

M. Eugene Moore, BA'76, has been named systems analyst within the business systems development department of the Management Information Systems area of Hobart Brothers Company. Gene will be concerned primarily with developing user procedures as well as with training users in the applications of the new manufacturing control system. After this system is fully implemented, Gene will be involved with the development of new financial systems.

Gene has worked as service publications writer and senior cost estimator for the Fruehauf Corp., as senior cost accountant for the Northern Engineering Corp., and most recently as cost accounting supervisor and senior operations analyst for the F. Joseph Lamb Co. Hobart manufactures arc welding equipment, industrial battery chargers, and aircraft ground power systems. Gene, his wife and son live in Troy, OH.

William R. Roy, Ar'76, has recently assumed ownership of the architectural firm known as Pettys & Roys - Associated Architects. The new firm has been renamed Roy & Associates - Architects. The office is located in Ludington.

Garret K. Krishan, Ar'77, has earned a master of architecture degree at Washington University in St. Louis. Garret, who did postgraduate work in urban planning at Wayne State, lives in Tulsa, OK.

Jeffery C. Lane, ME'77, is a research assistant at Colorado State University, where he is pursuing a master's degree. He has had a paper published through A.S.M.E. at the National Heat Transfer Symposium.

Patricia A. McLaughlin, IM'77, has been named assistant vice president of center operations for The Taubman Company, Inc. In this post, Patricia is responsible to the vice president of center operations in the direction and administration of management activity and daily operations of the Taubman regional retail centers. She joined The Taubman Company in 1974 and has served in a number of posts including assistant manager at Lakeforest, the company's center at Gaithersburg, MD, manager of the company's Twelve Oaks Mall in Novi, and special projects manager responsible to the vice president of center operations.

David F. Rea, BA'77, has passed the C.P.A. examination and was licensed in April. He resides in Livonia.

Deborah N. Dohring, ME'78, received a master of science in engineering degree from the University of Michigan in August of 1980. She is presently studying business administration on the graduate level at the same university.

Debbie has recently completed the Chrysler Institute of Engineering Management Training Program, and has been promoted to a pro-



Vermeulen '60



Ervasti '73



Gillespie '73



Wangler '74



McLaughlin '77



Dohring '78

duct development engineer in the engine performance development department at Chrysler.

Michael R. Hartley, Ph'78, is working at General Electric Space Division in Daytona Beach, FL.

Caroline (Fitzgerald) Berard, Ar'79, is employed by Winebrenner and Ebejer, architects, in Farmington Hills. Last fall, she was featured, along with Dean Karl Greimel, in a *Detroit News* article discussing opportunities for women in architecture.

Vincent G. Dow, EE'79, was married in September. He and his new bride, Frances, live in Detroit.

Robert J. Faust, Ar'79, of Berkley has been appointed manager of sales for Hoad Engineers, Inc. of Ypsilanti. He will be responsible for business development of architectural and engineering services.

A new architectural design and illustration firm, Presentation Design Associates, has opened in Lansing. A partner is **Thom Greene**, Ar'79, of East Lansing. He is a part-time instructor at Lansing Community College and has worked on local building projects. The firm's current projects include the restoration and renovation of the Hollister Building and design work on a proposed riverboat restaurant.

Timothy J. Jeffrey, BA'79, completed his M.B.A. at Baylor in May, 1980 and is now a financial analyst with The Royal Bank of Canada, the fourth largest bank in North America.

Frank J. Pudysz, Jr., Ar'79, BA'80, is working for Henry M. Whitehead Associates in Decatur, GA.

Mark S. Roos, IM'79, is an industrial engineer for Edwards Brothers, Inc. He received his master's degree in industrial technology from Western Michigan last August. He resides in Ann Arbor with his wife, Joan.

The R. A. DeMattia Company, a Livonia design/build general contracting firm, has named **Kelly Mixon**, Hu'80, coordinator of marketing services with responsibility for marketing research, promotion, and advertising. The first woman to hold a managerial position at the firm, Kelly had been a marketing intern at the company.

Robert F. Waldenmeyer, Jr., Ar'80, has accepted a position with the H. H. Robertson Co., architects, of Birmingham.

Joseph A. Woerdeman, Ma'80, has joined Martin-Marietta Aerospace as an associate software quality engineer in the quality assurance department. He resides in Lakewood, CO.

In memoriam

Laurence Tegler, ME'33, of Oklahoma City, OK, December, 1979.

Alexander L. MacDonald, ME'34, of Farmington Hills.

William T. MacDonald, ME'35, of Cleveland, OH.

Thomas G. Fitzgerald, ME'36, of Decatur, IL, May 8, 1979. Survived by his wife.

James Alfred Mansfield, ChE'36, of Detroit.

Anthony C. Fortunski, P.E., ChE'39, of Grosse Pointe Park, November 28, 1980. He was a former president of the Michigan Society of Professional Engineers, and also served the organization as president of its Detroit Chapter, chairman of the M.S.P.E. Insurance Trust, national director, organizer of the M.S.P.E. Scholarship Fund, and chairman of the Michigan Professional Education Foundation.

He was also a director of the LIT Presidents Club, ESD, past president of the Michigan Association of Professions, and past director of Liberty State Bank and Trust.

He is survived by his wife, Bernice, a son and two daughters. An M.S.P.E./LIT Scholarship has been established in his memory. Contributions may be sent to M.S.P.E. Headquarters, P.O. Box 10214, Lansing, MI 48901.

Simon Slutsky, ME'39, of Southfield.

John Popovich, ME'40, of Troy, January 13, 1981. He retired in 1974 from General Motors after 29 years of service. He was a director of the LIT Presidents Club, a former member of the Troy Planning Commission, and a past vice president of the St. George Romanian Orthodox Cathedral. He is survived by his wife, Victoria, a son and daughter.

Chester H. Garbacz, ME'42, of Detroit.

Samuel M. Renfrew, ME'43, of Royal Oak, October 18, 1980.

Paul O. Kosbab, ChE'44, of Saukville, WI.

Myron Greenman, ME'46, Presidents Club Member, of Tilbury, Ontario, September 16, 1980. Survived by his wife, Helen.

Walter H. Ahland, CivE'49, of Taylor.

Nick Macewka, EE'49, of Detroit.

T. Arthur Dahlke, EE'50, of Dearborn, October 26, 1980.

Walter M. Holm, ME'50, of Birmingham.

John C. Kilbourne, EE'52, of Orchard Lake.

Harry O'Dell, EE'52, of Berkley.

Paul Marberg, P.E., EE'53, of Farmington Hills, January 3, 1981. He was superintendent of Detroit Edison's North Division Construction department and had worked for the company 29 years. Survived by his wife, Rachel, a son and daughter.

Anthony N. Arker, ET'54, of St. Clair Shores.

Oscar Anderson, ChE'55, of Taylor.

John R. Postlethwaite, MT'56, of Royal Oak.

Clayton Arvison, ET'57, of Pine Island, MN.

Carl E. Patterson, EE'57, of Riverview.

George J. Smith, RAC'57, of Tucson, AZ.

Daniel M. Schajter, RAC'58, of Detroit.

Edward L. Gren, MT'59, of Howell.

Nicholas Taylor, EE'59, of Ypsilanti.

John A. McMann, MT'61, of Northville, January 25, 1981. He was president of Holcroft, a division of Thermo Electron Corp.

In addition, Mr. McMann was also senior vice president and group executive of Thermo Electron, president of Holcroft & Company (Canada) Ltd., and president of Thermo Electron, S.A. de C.V. (Mexico). He had been with Holcroft since 1946.

John received an alumni achievement award in 1972. He was a member of the ESD and the American Society for Metals, and was past president of the Industrial Heating Equipment Association.

Survived by his wife, Carol, and four sons.

Roy R. Gyger, ME'60, of Detroit.

John J. Hamill, ET'60, of Livonia.

Francis T. Heron, IT'61, of Livonia.

Leo G. Kowalski, ET'61, of Detroit. Survived by his wife, Mary Ann.

Neil H. Miller, IM'61, of Sterling Heights.

John S. McCoy, IM'65, of Royal Oak.

Charles O. Pierce, MT'65, of Livonia.

Roger L. Middleton, IM'67, of Detroit, September 3, 1980.

Norman H. Herrmann, IM'70, of Belleville.

Douglas W. Osterhout, IM'72, of Southfield.

Chris M. DeStefanis, Ma'76, of St. Clair Shores.

ADDRESS CORRECTION REQUESTED

A 'one man Peace Corps'

Each December, while everyone else is busily preparing for the holidays, Richard Murie, lecturer in chemistry at LIT, is over 1000 miles from home spreading his own kind of Christmas cheer. Almost every year since 1972, Richard has donated several weeks of his time and often paid his own way to bring American technology and know-how to the Mexican people.

Richard spends his time in Mexico teaching at such universities as the University of Guadalajara, University of Americas, the Technological Institute of Monterrey, and the University of Guanajuato. Recently, he helped to inaugurate a joint master's program between the biomedical research center of the Mexican Social Security Institute and the University of Guadalajara. The Institute conducts practical research in solving nutritional and medical problems relevant to the area.

The idea of donating his time to the universities was entirely Richard's and reflected a long-time interest in the area.

"I have always been concerned with the culture and people of Mexico," he notes, "and I saw a unique opportunity to immerse myself in the society by teaching a badly needed course in analytical instrumentation."

In the earlier years, equipment, books, and other supplies were extremely limited, so Richard made arrangements to obtain the necessary materials through loans and later, donations.

"I like to think of it as a one man peace corps," he continued, "though I would really like other American professors to join with me. Unfortunately, few are interested in teaching without pay, even for a few weeks."

Richard, who has had only one year



Murie/Cattermole photo

Lecturer Richard Murie has dedicated himself to helping others on both sides of the Rio Grande.

of formal study in Spanish, is now fluent in the language and lectures to students in their native tongue.

"By reading Spanish newspapers and chemical textbooks as well as listening to Spanish-speaking people on my short-wave radio, I quickly picked up a working knowledge of the language," he remembers.

Because Richard works full-time at the General Motors Research Labs as a senior research scientist, he is only able to travel to Mexico during the Christmas breaks. He has paid for most of his trips because the universities have had little money with which to work and it was always a "great experience" for him personally.

"The universities are so grateful for anything I do," he notes, "and the students themselves are unbelievably industrious and eager to learn. They don't pay attention to hours and many days we would hold class from 9:00 a.m. until 7 or 8:30 at night with only two short breaks and an hour for lunch.

"And, I am always being invited to fiestas or to visit Mexican families," he continues, "so I get to learn about their history and culture."

Hopefully, he will be able to interest others to join him in several years. After retirement, Richard is considering working full-time in Mexico and administering an entire program to sponsor visiting professors on a regular basis.

Unfortunately, Mexico's gain would be LIT's loss because his enthusiasm for teaching and people in general is not just directed at Central America. According to colleagues, he also devotes a great deal of unpaid time to LIT students. He has single-handedly arranged for donations of equipment to the College's labs and can often be found in the LIT Science Building on Saturdays fixing some instrument or other which has gone amiss. Dedication such as this is a rare commodity in today's world. Perhaps that is why he is such a favorite above and below the border. □