

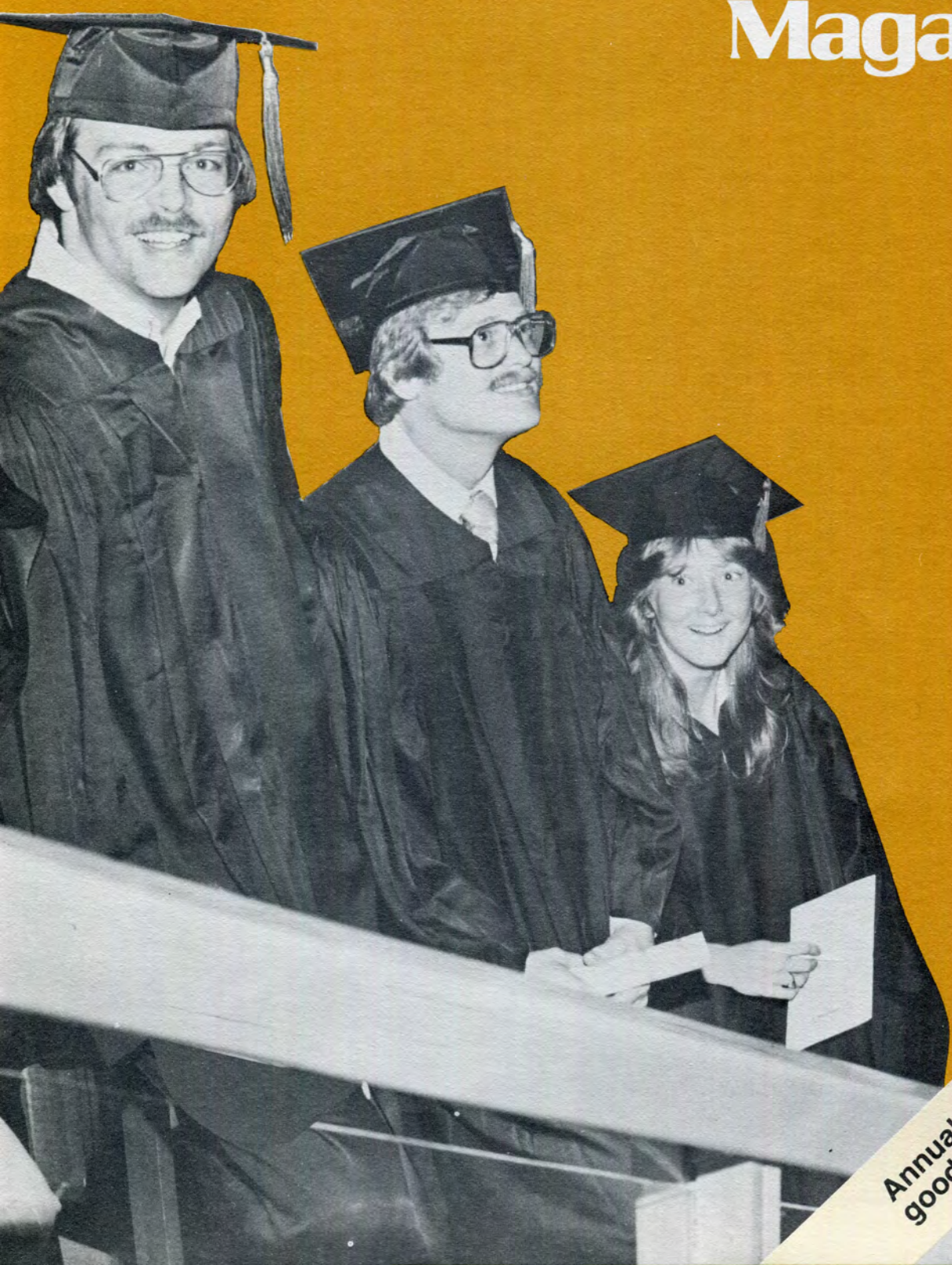
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Autumn 1978

Lawrence

INSTITUTE OF TECHNOLOGY

Magazine



Annual Giving: another
good year—page 11

On-campus

Lawrence Institute of Technology Magazine

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Eleanor S. Wright and others*

Notice of Nondiscriminatory Policy As To Students

Lawrence Institute of Technology admits students of any race, color, handicap, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded to or made available to students at the College. LIT does not discriminate on the basis of race, sex, color, handicap or national or ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs and athletic and other College-administered programs.

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



New course 'uncovers' the past

"To dig is to look at your textbook with a new eye," says LIT archaeology instructor Charles H. Martinez. "It punctuates the care and deliberation needed in field work. It underscores interpretation of evidence in developing a true story."

A dig can also be, as Matinez' students soon found out, an exercise in tedium and **sometimes frustration**. But, **how rewarding** the find!

Eleven students registered in Martinez' first class in archaeology in the School of Arts and Science in the spring agree that they learned the most by digging. They volunteered to help him develop a site he had researched in Farmington Township for the Michigan Archaeological Society. It was a "last chance" effort in an area slated to be bulldozed for a new subdivision.

"I found out why it is a patient science," says Carmine D'Agostino of Livonia. An electrical engineering sophomore, he took the course as a humanities elective and feels strongly that "digging should be a part of the course." Martinez is scheduled to teach the elective again this fall and digging will be part of the class experience "if an opportunity presents itself," he says.

"Once you dig and find something, you are bitten by the bug of archaeological excavation," says Richard Craw, Westland senior in humanities who also works for the Exxon Chemical Company, U.S.A. "I always admired the work of the discoverers of King Tut's Tomb, the City of Troy and early man," he continues. "I jumped at the chance to help Martinez. It was an opportunity to participate in the real thing."

Craw was one of two of Martinez' students helping this summer in the MAS cooperative project with Wayne State University's field program at Detroit's Fort Wayne. Southfield humanities senior Paula Stofer is the other. Her interest in archaeology and history has mushroomed since she took the course and helped at Fort Wayne. She is now looking for graduate schools at which she can combine both interests.

"The real thrill at the Farmington site came in actually finding something pre-



Elusive signs of generations past are sought by Paula Stofer and Richard Craw at historic Fort Wayne in Detroit.

historic," Stofer says. "You cannot visualize the techniques nor internalize what the professor is talking about until you dig."

The site chosen for the spring dig proved to be rugged and densely populated with bugs and poison ivy (three of the diggers contracted the latter). "It was chosen because it had many elements pertinent to prehistoric American Indian campsites," according to the experienced Martinez. He is a former president of the Michigan Archaeological Society and current chairman of its editorial board. He is writing a report of the LIT dig for its publication, *The Michigan Archaeologist*.

The location was on the downslope of a sandy bluff, "offering good drainage and shelter from prevailing winds," Martinez reports, "and at an elevation of 890 feet above mean sea level that overlooked a

small stream and pond necessary to sustain life. While not many prehistoric Indian sites have been discovered in Oakland County," he documents, "it was known that hunting parties were prone to camp away from their usual fishing sites along the Great Lakes during the autumn and winter months."

Student diggers were not disappointed. After they "borrowed" construction engineering student Hernando Ullola to survey the site (he is currently developing contour maps of the area), they dug test units in key areas selected by Martinez. Each test unit was checked for evidence and, when artifacts were found, enlarged to 5 x 5 foot squares with digging, sifting and recording done in 3 inch increments.

What the students found were four argillite projectiles (cut stone resembling shale used in tools and weapons). There also were flakes struck from core material suggesting that perhaps the site was a small workshop where prehistoric hunters made their weapons.

"Research has shown that these artifacts date from 3000 to 1000 B.C.," Martinez states. "In addition, the students turned up pottery fragments that are related to another group of Indians living there about 900 A.D.," he reports. "Analysis of the soil samples collected by students may tell of the type of trees, plants and general ground cover that afforded an ecological base for these people. Study of animal bone fragments may reveal the type of game present in the area at that time." □



Charles Martinez analyzes artifacts. Left: Paula Stofer and Carmine D'Agostino sift the Farmington site.

Commencement '78

More than 520 join alumni ranks

The largest senior class in the history of Lawrence Institute of Technology, more than 520 graduates, received diplomas at the College's 46th annual Commencement Exercises June 4.

Clear sunny skies and 70° temperatures welcomed students, relatives and friends first to the annual graduates' breakfast in the campus dining room, and later, at 3 p.m., to the ceremonies at the Detroit Civic Center's Ford Auditorium.

Stephen H. Fuller, General Motors vice president in charge of the personnel administration and development staff, presented the Commencement Address and received an honorary doctor of science degree in industrial management. Honorary degrees were also presented to Walker L. Cisler, chairman of the board of the Thomas Alva Edison Foundation and president of Overseas Advisory Associates, Inc., (doctor of humanities) and James G. Cook, president and chief operating officer of the Edison Foundation, (doctor of science). Seven alumni received special awards. (See related stories, this issue.)

Stephen H. Fuller, a former Harvard University professor who joined General Motors in 1971, has Corporate responsibilities for education and training, employee programs and publications, field relations, forward planning, organizational research and development, work force utilization, personnel communications, placement and college relations, and the General Motors Institute.

He received his A.B. degree from Ohio University and a I.A., M.B.A. and D.C.S. from the Harvard Business School. He is also an alumni achievement award winner and recipient of an honorary doctorate at Ohio University.

Active in a number of professional and educational organizations, Fuller is the recipient of the Presidential Medal of Merit of the Republic of the Philippines for his activities in overseas management development programs.

Walker Cisler and James Cook were honored by LIT for their outstanding work with the Thomas Alva Edison Foundation in advancing science and engineering education. The Foundation was founded

in 1946 by Charles F. Kettering, who also served as its first president. Mr. Cook is its third president, and succeeded Mr. Cisler.

Walker Cisler, chairman of the Foundation's board, is a past president of the Detroit Edison Company and retired as the utility's chairman in 1975. He is known internationally for his years of humanitarian service and accomplishment in the fields of energy and power—particularly as these relate to the economic and social development of nations.

Cisler received a masters degree in engineering from Cornell University, and has been honored by 17 foreign governments as well as the United States Government in recognition of his endeavors during and since World War II. He holds honorary degrees from 16 universities and colleges, and has been awarded special recognition by most of the nation's leading engineering and management societies. He is a past chairman of the World Energy Conference's governing body, and is a trustee of the Freedoms Foundation, the Michigan Colleges Foundation, Marietta College, and a director of the Economic Club of Detroit and four corporations. He is president of the Overseas Advisory Associates, Inc., a not-for-profit corpora-

tion he organized for furnishing energy development guidance to foreign countries.

James Cook, president and chief operating officer of the Edison Foundation, has been associated in various administrative positions with the Foundation since 1963. He has advised and served as a consultant on science and engineering education and public affairs to corporations, educational and governmental organizations throughout the United States and overseas. His educational background includes a masters degree in guidance and counseling psychology from Eastern Michigan University.

The Edison Foundation, based in Southfield, sponsors a variety of nationally important education conferences and science institutes for the improvement of science teaching at the secondary level. It also sponsors the Edison Science and Engineering Youth Day Programs throughout the United States and in 22 other nations. Cook will be directing all official programs commemorating the upcoming 100th anniversary of the invention of the incandescent lamp. The Foundation has recently been accorded international recognition in having been designated as the coordinator for the Centennial of Light. □





Top: Dr. Buell presents Dr. Cook with his degree. Center: Dr. Cisler is congratulated by Dr. Marburger (left) and Dr. Buell. Bottom: Graduates pause before filing into Ford Auditorium. The long journey is almost over!



Alumni achievement award winners are congratulated by Trustee John Harlan (center) who presented the awards. Left to right are: William H. Warfield, ET'76; Stanley J. Kukawka, ME'53; Ernest W. Peterkin, EE'43; Donald W. Date, AE'49; Kenneth A. Mason, IM'54; and Gerald J. Yurk, Ar'66.

Seven alumni receive special recognition

Seven distinguished alumni received special awards during LIT's 1978 Commencement Exercises, June 4. Selected by the board of trustees for alumni achievement awards were: **Donald W. Date**, AE'49, chief architect, Panama Canal Company, Canal Zone; **Stanley J. Kukawka**, ME'53, v.p. and general manager electronics division, Allen-Bradley Company, Milwaukee, WI; **Kenneth A. Mason**, IM'54, director of safety, National Steel Corporation, Weirton, WV; **Ernest W. Peterkin**, EE'43, satellite project manager (ret.), U.S. Naval Research Laboratory, Washington, DC; **William H. Warfield**, ET'76, associate director of engineering, Michael Reese Medical Center, Chicago, IL; and **Gerald J. Yurk**, Ar'66, project manager and director of business development,

Tomblinson, Harburn, Yurk & Associates, Inc., architects and planners, Flint, MI.

In addition, the LIT Alumni Association unanimously selected Dr. **Wayne H. Buell**, ChE'36 to receive a special "award for meritorious service." The unprecedented award, presented as a surprise, was made to recognize Dr. Buell's service and eminent distinction as College president from 1964 to 1977 and for his continued contributions to LIT as chairman of the board and chief executive officer.

Donald Date is responsible for all buildings and structures within the Canal Zone. He joined the Panama Canal Company in 1958, is a registered architect in both Michigan and the Canal Zone, and holds a certificate with the National Council of Architectural Registration

Boards (NCARB). He has served on the Canal Zone Board of Registration for Architects and Professional Engineers, as well as various NCARB boards. Date is also a member of the Canal Zone Postage Stamp Design Committee and is an officer of the Balboa Redeemer Lutheran Church. From 1944 to 1946 he served in the U.S. Navy.

Stan Kukawka is responsible for marketing, manufacturing, engineering, quality control, and accounting for the 2,500 employee, four plant Allen-Bradley electronics division, which has headquarters in Milwaukee. Active professionally and in his community, Kukawka is vice president of the Variable Resistive Components Institute, and serves on the finance committee of the Electronic

Industries Association. He is on the board of directors of the Milwaukee YMCA, and serves on the missions commission, youth fellowship, and pastor/parish committee of the Whitefish Bay Methodist Church.

Ken Mason has responsibilities for directing, recording, and evaluating corporate safety and for recommending and participating in the formulation of safety policies, programs, and procedures at National Steel.

He is a member of the executive committee of the West Virginia Safety Council and the safety committee of the WV Manufacturers Association. He is also a member of the American Society of Safety Engineers and American Iron and Steel Institute, and serves on the Institute's safety committee.

Ernest Peterkin served as project manager of the solar radiation satellite program from 1968 until this year. The program enables the Navy to monitor solar activity and forecast solar flares that often interrupt long range communication systems.

After his detachment from active Naval duty in 1947, he was responsible for installation and use of the Vanguard satellite's tracking radar at the Atlantic Missile Range. He later developed operating guides for NRL's Space Surveillance System stations, for which he received the Navy's Superior Civilian Service Award in 1960. During the Bicentennial, Peterkin, as a Captain in the Naval Reserve, was assigned to the U.S. Army's 3rd Infantry where he trained the recreated Commander-in-Chief's Guard. He was awarded the Army's Meritorious Service Medal for this activity.

He is now writing and conducting research in military history, including assisting various agencies in studies of the feasibility of recovering the sunken Civil War Iron Clad Ship *U.S.S. Monitor*. Peterkin is a registered engineer in the District of Columbia and is a member of a number of scientific and engineering societies.

William Warfield has responsibilities relating to physical plant operations, engineering, construction and maintenance at the 1,235-bed Reese institution—a teaching hospital. He supervises the activities of more than 100 employees.

Prior to assuming his post in Chicago this April, Warfield had been manager of physical plant services of Lansing General Hospital, Lansing, since 1971. He is active in many professional organizations and served in the U.S. Marine Corps as a corporal.

Gerald Yurk is president this year of the Flint Chapter of the American Institute of Architects, is a registered architect in both Michigan and Florida, and holds a certificate with the National Council of



Dr. Wayne H. Buell received an award for meritorious service from the Alumni Association for his years of service to the College as president and chairman of the board.

Architectural Registration Board. He was a member of the Flint City Council from 1970 to 1973 and served on the Flint Planning Commission, Genesee County Economic Development Commission, and as Chairman of the City Council's Government Operations Committee and Water and Sewer Committee during the same period. He served as chairman of the Flint Planning Commission during 1973 and was also selected that year as the Flint-area Jaycees Outstanding Young Man, based on his contributions to his community.

Yurk serves on the Governmental Affairs Committee of the Flint Chamber of Commerce, and is a member of the Flint Urban Coalition, Automotive Hall of Fame Committee, the Michigan Society of Architects, the Michigan Society of Planning Officials, the Flint Environmental Action Team and FEAT Foundation.

Wayne Buell's activities as president and chairman of the board were cited as marking a period of tremendous growth, progress, and prosperity for Lawrence Institute of Technology. Under his leadership, curricular advancements have included the formation of the School of Arts and Science, the adding of programs in business administration, construction engineering, and the fifth-year professional degree in architecture.

Enrollment at LIT has risen over 25 percent since 1964. The College physical plant nearly tripled in size—adding the Science Building, the Library and the recently-opened College Housing Center.

The College was granted full accreditation by the North Central Association of Colleges and Schools in 1967. In addition, the programs of the School of Engineering were also accredited by the Engineers Council for Professional Development and the fifth year bachelor of architecture program was accredited by the National Architectural Accrediting Board.

Dr. Buell's leadership has also marked a period of administrative efficiency and fiscal responsibility that has made LIT a model of sound college management for educational institutions nationwide.

A member of the College's first freshman class, after graduation Buell served on the faculty while also embarking on a successful career as a research chemist. He later served as executive vice president of the Aristo Corp. He was appointed to the College's Board of Trustees in 1950, and returned to head LIT August 1, 1964. □



'A wholeness of spirit'

*The 1978 Commencement Address by
Dr. Stephen H. Fuller, vice president in charge of the personnel
administration and development staff, General Motors Corporation.*

Commencement is a time for satisfaction in a job well done, for gratitude at the opportunity to have done it, and for happiness shared with those who have had a hand in making this day possible: family, faculty, friends. All of us here present today enjoy with you these very special sentiments and add our personal congratulations to you all and our good wishes for a full and productive future.

Commencement is also a time for questioning, for reviewing the questions you brought with you to Lawrence Tech, and for considering the new questions about the future which your time here has raised for you.

You may ask what exactly has my college education given me? Now that I have my training, how do I parlay what I have learned here into a gratifying career and a "good life?" In short, where do I go from here? And, how do I get there?

I am sure I am not telling you anything new when I say that an academic degree is not a complimentary ticket to fame and fortune in this life or to glory in the next. If formal education is not enough, what else is needed?

Let me explore some other important requirements for what we are accus-

tomed, for want of a better term, to call "success." Since my field is management, I shall be drawing on my experience in that field for the ideas and terminology I use. However, in my view, the same concepts are equally applicable in any field where *someone* must be responsible for the development and direction of his fellows in a human organization. For, it is by displaying superior talent in this kind of activity that able men and women rise above their peers and open new doors for both themselves and others.

This is not a talent that develops by itself. Talent must always be disciplined and cultivated. At Lawrence Tech, you have experienced a rigorous kind of discipline in your classrooms and your labs. You have learned to be specific and accurate to the "nth" degree in your observations and calculations. Your success from now on will depend to a large extent on how well you apply to the world outside not only the substantive knowledge you have acquired here but also the methods you learned to use here in attacking the broader problems you face.

Today we are kept constantly aware of such shortages or potential shortages as energy, food, living space, and jobs. We are *not* so aware, however, of another most critical shortage—that of managers, a shortage which is a serious deterrent to progress in every sector, in every country from the newest "developing" nation to the United States.



The developing nations, who often have so little, do not know how to manage what they *have* effectively. We of the "affluent society" are riddled with inefficiencies, duplications, and waste. We lack know-how in the management of scarcity—as in our energy situation; in the management of the consolidation of our resources as the era of limitless expansion comes to an end; and in the management of decline—the reality of getting our fair piece of a smaller total pie. We simply do not know yet how to put people and things together in time and space so that we can maximize the satisfaction of the individual, meet the goals of our particular organization, and do the greatest good for society as a whole. In short, except for prayer, we have not yet figured out how to make the "Kingdom Come."

Although opportunities for education are increasing in all societies, the shortage of leadership persists. In recent years, extensive studies have sought to determine what elements make for solid achievement in leadership or management. These studies have revealed no correlation between academic degrees, grades, or, indeed, formal education itself on the one hand and success in leadership on the other. In many instances, the more highly trained the individual, the less able he was to give effective leadership to others.

In the '60's, students across the country voiced their criticism—challenging the substance, methods and other aspects of the educational process. They claimed that much of it was not relevant. Thus, students sensed what scientific studies have now substantiated—that there is a lack of relationship or correlation between an outstanding college record and leadership in real life. Obviously, this is also a matter of deep concern to educational administrators and teachers. Many educational institutions are devoting extensive efforts to self-analysis and changes which, they hope, will remedy existing defects and increase the effectiveness of their contributions to society.

In attacking the problem as institutional, however, we may not have been asking the right questions. We may change, add, subtract, multiply, or divide our course offerings. We may diversify the student population to whom we make these offerings. But, the fact remains that we can have *no real breakthrough* until we find a way to make theory-and-practice, thought-and-action, lab-and-clinic a



Top: Amateur photographers abound at Commencement, and clicking camera shutters snap across the lawn. Bottom: Jo Ann Shaffer receives an LIT "Pushing Hubby Through" certificate from her graduating husband, James, MT, at the senior breakfast while sons Tom and Tim look on.

unified, meaningful, continuing whole—a continuum of living-learning not divided into segments of *formal education* and *life*.

We have long talked about “experience being the best teacher” and about “learning from experience.” But, we haven’t really known much about how this is done, let alone being able to teach others *how* to do it.

We do know some things. We know that all people do not learn the same things from what appears to be the same experience. Some seem to learn the “right” lesson and go on to greater and more creative experiences. We call these people successful. Some seem to learn the “wrong” lesson and remain stalemated at a given level of development until released by retirement or death. We call these people unsuccessful.

We know that given ten years of the same kind of exposure in an organization, one person will have ten years of experience and another person will have one year of experience repeated ten

times. These are individual responses to experience which do not correlate with formal education.

What do such observations tell us? How do they help us to make our formal education work for us throughout our lives, aiding us in learning the “right” lessons from our experiences as we go along?

As we look at a number of leaders who have demonstrated the capacity to manage their enterprises effectively and imaginatively with resulting advantages to many people, we are struck by the fact that they share certain common characteristics:

First, they have a strong desire, need, motivation—call it what you will—a persistent inner urge to do something about improving and advancing whatever endeavor they find themselves a part of at any given moment. It does not matter whether the operation is large or small, whether its importance is clear or obscure in the eyes of the world. Nor are the traditional symbols of success, such as wealth and status, necessarily important to them. These leaders march to the beat of their own inner drums.

Secondly, they possess an ability to define problems and seek solutions for themselves and not wait to have problems *defined for them* and solutions suggested by others; yet, they do not *act* unilaterally seeking only their own greater glory. Rather, they work with and through others, motivating these associates to perform, to learn, to grow with the organization, and to identify with its goals as they have done.

Thirdly, they exhibit a personal quality which some call *charisma*; some, *empathy*—but which was most simply (and perhaps most forcefully) described by Micki Grant in her hit Broadway show, *Don't Bother Me: I Can't Cope*, as “It takes a lot of human feelings.”

Whatever you call it, this quality seems to involve a predisposition to take people as you find them, to *like* them for what they are and not to despise them for what they are not, to have charitable feelings toward mankind in general. This philosophy is as old as God and as new as “Godspell.” It may sound easy, but, in reality, it is a way of thinking which is extraordinarily difficult. This attitude toward others requires exceptional emotional maturity; it requires a true freedom from fear of what others can or might do to you or your image. It demands a *wholeness of spirit*. For the effective leader, this way of relating to people illuminates his own inner urge to lead, puts it in tune with the needs of others. Thus, it helps him to achieve meaningful results where others cannot.

‘...given ten years of the same kind of exposure in an organization, one person will have ten years of experience and another person will have one year of experience repeated ten times.’

It is perhaps a weakness of our times that so much emphasis has been put upon *loving* and so little upon *liking*—or, perhaps, we misunderstand their meanings. *Perpetual* emotion may be debilitating. In the multi-relationships of our whirling world there is surely room for the relaxed, supportive warmth of liking without intense, passionate, ego-involvement. The successful leader recognizes the need for central heating—for personal warmth. But, he also sees the need for a degree of personal detachment and objectivity in order to make wise and just decisions.

A combination of these three characteristics—strong motivation, an ability to analyze problems, and sensitivity to others—tends to create in such leaders a fourth common characteristic; that is, a tremendous sense of personal satisfaction, feelings of real accomplishment, and rewarding self-realizations which revitalize the leaders and give them the energy



Thanks Dad. Kathryn Marburger, BA, accepts her diploma from LIT's president who also happens to be her father, Dr. Richard E. Marburger. Arts and Science Dean Zaven Margosian is at right.

and the stamina to do more and do it better than others. There is a great deal of truth in the saying that, "Nothing succeeds like success."

Let me summarize the key points I have attempted to convey.

The education you have received and the quality of your efforts at Lawrence Tech are indispensable parts of your future success—on or off the job. However, they will need to be supplemented for the rest of your lives by a continuous and growing capacity to learn effective lessons from your experience.

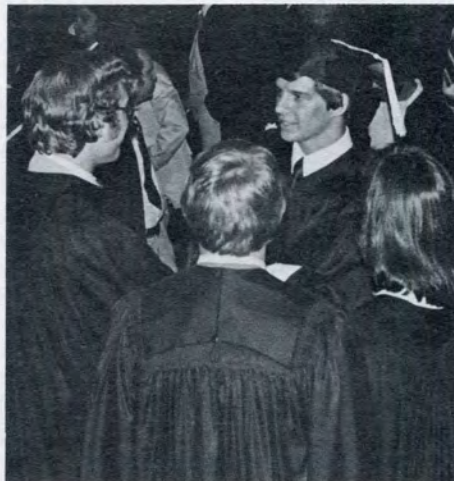
To learn such lessons you must have a basic *desire* to manage your own life effectively and to work through and with others to achieve common goals. As you acquire these additional qualities, you will be increasingly involved in productive and creative endeavors which will help to solve the problems of your time and will enhance your worth in your own eyes and those of others. This is, in a real sense, "the good life."

With life spans getting constantly longer, with the store of knowledge growing in quantity and variety at a speed that boggles the mind, it will be impossible to make any formal educational process last a lifetime. Man will make of his *whole* life a *learning*, not simply an *earning* process.

But—to successful leaders, life has always been just that.

My hope for you is that you will be successful leaders in your *chosen* professions. To be that, you will need to be a person: (1) who knows what he does not know and can ask the questions that need to be asked; (2) who has an honest perplexity and curiosity about his

personal experience and does not confuse it with universal truth; (3) who has a stop-look-and-listen attitude toward his own experience so that he is capable of re-evaluating it and learning from it; and (4) who has some skills in the direction of being able to receive communications *from* others, as well as to direct communications *toward* them.



And, what will you not be? You will not be a person (1) who has all the answers and never asks questions; (2) who knows absolutely right from wrong and what the "proper attitude" of everyone should be at all times; (3) who accepts the maxims of others as a substitute for reflection and re-examination of what experience can tell him about himself and others; and (4) who is insensitive to the opinions, feelings and attitudes of the people with whom he works.

In short, my picture of an educated person is a person with those mental attitudes which allow him to grow from his experience in the direction of learning how to live better with himself and others. By being such a person, you will be prepared to be of the greatest service to yourself and to others and the greatest credit to your college.

As I look at you today and think about the unprecedented challenges that you may face, I feel as I do when a player on one of my favorite basketball teams is standing at the free-throw line in the last 10 seconds of a game in which the score is tied, poised to make a shot that can win the game. As he shoots, I whisper the hope "be there!" That is my hope and prayer for you today—that you will win the games of life; that your efforts will "be there." □



Students, executives mix at 'Dialogue'

An assessment of the needs of business and perspectives for employment were explored at a College/Industry Dialogue held on campus June 8. More than 145 students and 30 prominent members of the Detroit business community gathered

for the morning event which focused on "Enterprise—How Free?", sponsored by the Business/Education Alliance, National Association of Manufacturers, and LIT.

Esther G. Edwards, senior vice

president, Motown Record Corp.; Alfred M. Entenman, Jr., president, Giffels Associates, architects; and John R. Hamann, president, Detroit Edison Co. were keynote panelists, discussing how the American economic system works and how big and small businesses operate. (The latter two are also an LIT trustee and LIT corporate member, respectively.) A fourth panel member, William M. Agee, chairman, president, and chief executive officer of the Bendix Corporation, was unexpectedly called away but prepared a statement that was presented by Leland A. Lahr, dean of LIT's School of Business and Industrial Management. G. Robert Harrington, vice president-development, served as moderator.

Other executives sat at tables of six to eight students and fielded questions before and after the panel discussion. Morning refreshments and lunch were provided through the courtesy of AMOCO Oil Co., Coopers and Lybrand, Ross Roy, Inc., The Taubman Co., and United Airlines.

This is the second College/Industry Dialogue hosted by the College—the first was in 1975. They were innovated by NAM in 1974 and have been presented to date on more than 170 college campuses nationwide.



Left: James Karling, partner, Arthur Young and Co. makes a point during table discussions with students. Above: John R. Hamann, president, Detroit Edison and Esther G. Edwards, senior vice president, Motown Records, share their business insights.

ANNUAL GIVING REPORT



JULY 1, 1977 — JUNE 30, 1978

ANOTHER GOOD YEAR

Exclusive of gifts of real estate, gifts to LIT's Annual Giving Program increased to \$287,237—up from \$248,126 in 1976-77.

Continued inflationary pressures and an increasing cost of living has made offering a strong educational program at reasonable cost to students a progressively challenging activity. The College was, therefore, grateful to register new giving records for the fiscal year ending July 30, 1978.

The College this year was also the recipient of the Gregor S. and Elizabeth B. Affleck House, designed by Frank Lloyd Wright. The home will serve as a significant educational resource for LIT students.

THE PRESIDENTS CLUB

Established in 1974, the Club's first purpose was to stimulate an active interest and participation in the affairs of the College by alumni and friends. Another purpose was to establish a generous pattern of giving to the College by alumni and friends, and this was evidenced again in 1977-78.

Presidents Club members contributed \$39,355 to LIT during the year. This was made up of 150 gifts, up from 122 the year before.

Thirty-nine new members were welcomed to the Club at the annual meeting on October 22, 1977, bringing the total number of Presidents Club members to 197.

The members of the board of directors of the Club continue their efforts to extend invitations to interested alumni and friends. We look forward to welcoming another impressive number of new members at the Presidents Club dinner on October 21. The board includes C. Lee Zwally, EE'41, president; Arthur L. Kelley, ME'47, vice president; Stephen R. Davis, secretary/treasurer; and directors Francis E. Noggle, ME'70; Bruce R. Polkinghorne, ME'50; John Popovich, ME'40; Robert J. Schlaff, IM'62; and Roger F. Shtogrin, IM'61.



The Frank Lloyd Wright-designed Gregor S. and Elizabeth B. Affleck House, given to the College in 1978, is a significant academic resource to LIT students.

ALUMNI

Support from alumni continued to grow during the past year. The number of contributing alumni increased ten percent over the previous year to a new high of 377. These alumni made 417 gifts totaling \$41,485, an increase of 13 percent over last year.

The College, while heartened by this progress, is concerned about the relatively low level of support compared to that enjoyed by other private colleges. A higher level of involvement and support helps to assure the same high quality "affordable" education which yesterday's students enjoyed. The Alumni Association recently enlarged its board

of directors as a part of its overall effort to increase alumni interest and financial support.

Our honor roll of alumni supporters follows:

Mr. & Mrs. Timothy G. Agajeenian
 Mr. & Mrs. Daniel Agnello
 Mr. & Mrs. Robert A. Alcalá
 Mr. & Mrs. Donald G. Alcorn
 Mr. & Mrs. Paul S. Allmacher
 Mr. & Mrs. Alphonse Andrzejak
 Mr. & Mrs. Irving Appelblatt
 Mr. & Mrs. Edwyn Arnold
 Mr. & Mrs. Darrel S. Ashby
 Mr. & Mrs. Donald R. Ashton
 Mr. & Mrs. Roger E. Avie
 Mr. & Mrs. Charles V. Awe
 Mr. & Mrs. Melvin Bader
 Mr. & Mrs. Clayton O. Baker
 Mr. & Mrs. Edward J. Baker
 Mr. & Mrs. Kenneth Bakhaus
 Mr. & Mrs. Donald G. Bamford
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 Mr. & Mrs. William Bartolomeo
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Friends of the College continue to provide significant support. Gifts totaled \$9,044, exclusive of the value of the Frank Lloyd Wright house. We acknowledge with thanks gifts from the following:

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Don Brown, Ar'74, (second from R) president of Emerald Turf Engineered Sprinklers, Inc., presented the milestone 150th corporate check to the College for 1977-78. Accepting it are (L to R) G. Robert Harrington, v.p.-development, Dr. Wayne H. Buell, chairman, and Dr. Richard E. Marburger, president.

CORPORATIONS

Our most significant progress was made in the corporate sector. The number of corporate supporters rose from 105 to 170, well ahead of our goal of 150. Contributions from new supporters, along with increases from many of our ongoing corporate friends, resulted in a record \$180,960. This was up from \$115,000 the year before.

This expression of confidence in the College is deeply appreciated, and we take great pride in saluting the following:

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A. T. & G. Company, Inc.
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CORPORATIONS— MATCHING GIFTS

Many companies have matching gift programs. Under these programs, a gift to our College by a company employee is matched by the company. It encourages giving and provides extra income to LIT. We are pleased to list the following matching companies, many of whom are also listed among our regular corporate supporters.

These matching gifts added \$22,112 to our income, an impressive increase from the \$19,000 of the preceding fiscal year.

A.C.F. Foundation, Inc.
AMBAC Industries, Inc.
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ASSOCIATIONS

Support from associations declined considerably as a number of groups in the construction industry completed five-year commitments in the previous fiscal year. In spite of that, however, the College received \$14,461 from 16 associations. We are indebted to the following for their generous support:

American Plywood Association
Ann Arbor Home Economics in Homemaking
Bricklayers and Masons Union Local Number 2, Michigan
Detroit Amateur Radio Association
Detroit Mason Contractors Association
Detroit Metropolitan Masonry Joint Apprenticeship Committee
General Motors Girls Club of Detroit
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National Fund for Minority Engineering Students
Rotary Club of Southfield
The Scarab Club
Society of Automotive Engineers
Stonegate Homeowners Association, Inc.

FOUNDATIONS

Seven foundations and trusts made grants totaling \$13,168. These gifts helped us finance some important teaching programs, and we are grateful to the following for their assistance:

Acraft Foundation, Inc.
Carman Adams Foundation
The Cline Foundation
Fisher-Insley Foundation

A. W. Kutsche Trust
The Harry A. and Margaret D.
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Lula C. Wilson Trust

LAND & BUILDINGS

The College was extremely pleased to be the recipient of the Gregor S. and Elizabeth B. Affleck House—a gift of the late Affleck's children, Mrs. Mary (Karl F.) Lutomski and Gregor P. Affleck. This magnificent residence is considered by Frank Lloyd Wright scholars as one of his most significant works. Completed in 1941 and located in the nearby City of Bloom-

field Hills, the home has already proven itself as an outstanding resource to architecture students.

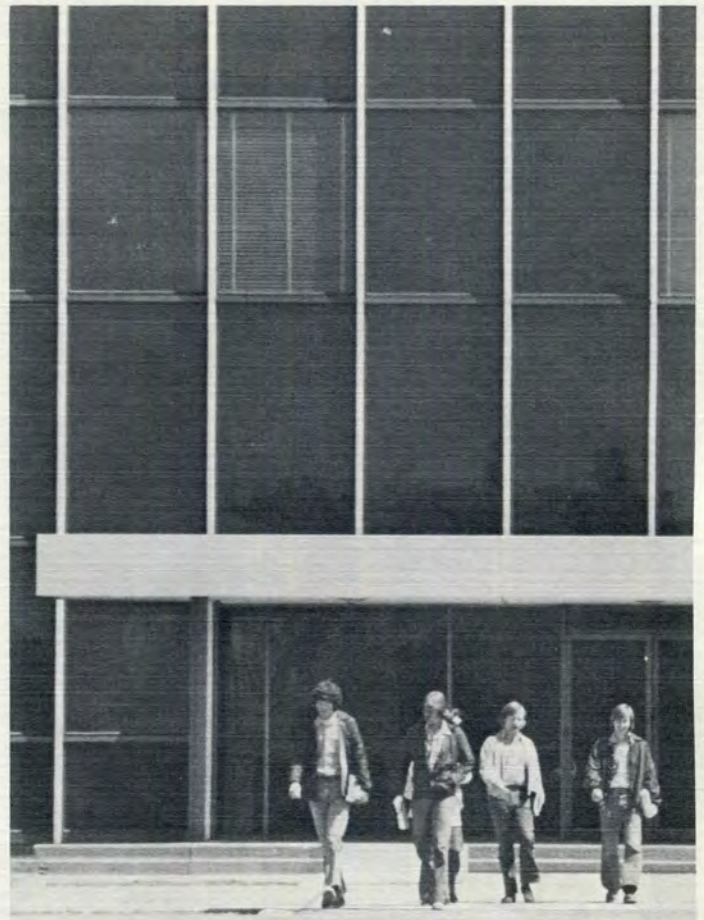
Efforts are underway to secure funding for restoring the home to its original condition. Interested investors may contact LIT's development office or the chairman of the board.

PERSONNEL

College employees once again made significant gifts to Lawrence Tech. In all, 49 gifts were received, and these totaled in excess of \$6,000. Dr. Richard E. Marburger, president, again headed up this activity. Our honor roll of employee contributors follows:

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A gift to Lawrence Institute of Technology is an investment in a higher education. Regardless of size, your gift is welcomed, appreciated, and wisely used.

Summer education pays dividends at LIT's Science Institute

The laws of physics can apply, even to a lost contact lens on a softball field. Some of the high school Summer Science Institute participants at Lawrence Institute of Technology made this discovery on a windy day this summer!

On hands and knees searching a general playing area for that minute bluetinted speck of plastic, enterprising young scientists applied their classroom learning, determined the wind velocity and direction relative to the height of the loss from a coed's fingertip, and pinpointed a more specific area. Miracle of miracles, one hunter found the lens suspended atop matted grass!

"We find that these Summer Science Institute participants gain all kinds of educational dividends," says Dean Zaven Margosian of LIT's School of Arts and Science, who both oversees the summer program for selected high school students and, as chairman of LIT's department of mathematics, is one of the institute's two regular lecturers in math. "They take back to their individual high schools an expanded awareness of the sciences and

mathematics, including a brief exposure to numerical methods for solving problems on the digital computer."

The sixty high school juniors selected from among nearly 100 applicants opted for the six weeks (June 19 through July 28) of intensive study in LIT's 10th annual exploration of science and broad exposure to engineering. Their daily schedule included three hours of morning lectures by college professors in mathematics/computer science, physics and chemistry, followed (on three days) by afternoon laboratory sessions in each of the disciplines.

By term's end, when students received certificates of graduation at a ceremony to which their parents were invited, they learned the fundamentals of the Fortran computer language and shared hours at LIT's key punch and computer terminals running programs of their own conception. In physics, they completed several experiments designed to help them discover the physical principles leading to the operation of LIT's X-ray diffraction machine.



Twins Linda and Janet Herman (L to R, or, is it R to L?) spent a considerable amount of time in LIT's physics lab this summer, as part of the College's Summer Science Institute for talented high school juniors.



Neil Haven, Scott Parker, and Geoffrey Kurz (front to back) explored chemistry during LIT's six-week summer program.

In chemistry, they determined rates of reactions of selected chemicals and performed hydrolysis and titrations. They also will have mastered the principles of extraction, introducing them to the fields of chemical kinetics and thermodynamics.

Interspersed in their routine have been special lectures including talks by Dr. Stephen Fuller, vice president in charge of the personnel administration and development staff at General Motors; William Coleman, general manager of Eaton Corporation's Research Center; Dr. Richard E. Marburger, president of LIT who is also the director of the Summer Science Institute, and the deans of LIT's five Schools. Additionally, students made field trips to Eaton and the Bendix Research Laboratories hybrid computer laboratory.

Science Institute participants on LIT's Southfield campus this summer represented 35 Detroit-area public and parochial high schools, one from Anchor Bay and one from Decatur, Illinois. Applications for the 1979 Summer Science Institute will be available to next year's high school juniors with a "B" average or better after February 1. All applicants must be recommended by high school counselors or principals and science teachers. The only fee for the Institute is a non-refundable \$25 registration fee payable on student acceptance.



Glenn DeSimone and Doug McLean became the "hands of the professionals" as they completed drawings for members of R/UDAT's professional team. They are seniors in LIT's School of Architecture.

Students help meet Detroit planning challenges

If new directions evolve in the design of downtown Detroit, part of the effort can be credited to nine tired students from LIT's School of Architecture. They became the "hands of the professionals" in a marathon planning weekend during which they assisted the AIA-sponsored Regional/Urban Design Assistance Team (R/UDAT) invited to Detroit in June to study linkages between the Renaissance Center and other downtown activity areas.

The four-day experience included a tour of the target area, some 24-hour design sessions with the pros and even a meeting with the Mayor himself. By Monday afternoon, a 55-page report of recommendations had been compiled and was presented to city planners.

The Detroit Chapter of the American Institute of Architects suggested to city fathers in the spring that an eight-man team of professional urbanologists with diversified expertise might offer some new solutions to unify downtown Detroit

and pull together some of the many plans being proposed by other organizations. As is common in team visits to cities seeking help (a 10-year volunteer program of AIA), architectural students in area colleges were invited to be the professionals' assistants. LIT's School of Architecture Dean Karl H. Greimel was quick to respond to the call.

Chosen to fulfill the assignment were undergrads (it also was LIT's graduation weekend) in Professor Robert D. Champlin's urban planning classes. Diversity of talents (as that of the professionals) and graphic arts abilities were selection criteria.

The students' major role became that of interpreting rough sketches made by the professionals, conceptualizing and formulating permanent drawings for the final report.

Carole Matlen, assistant to Professor Champlin, was named coordinator of student participants (including three from the University of Detroit who joined the

weekend belatedly). Matlen holds two degrees from Wayne State University, one of which is in urban planning. As liaison between her "team of students"



Carole Matlen, left, coordinator of the student team, discusses the area mapped for redesign with R/UDAT's professional team chairman, Thomas Ventulett, Atlanta, GA. At right, student photographer Brian Foresta.

and the professional team, she described the scene of action in RenCen's Tower 100, where the two groups worked together, as "a highly pressurized intellectual experience and one in which the students can only benefit."

Brian Foresta of Southgate, whose special talent is photography, had perhaps the most unique experience. As official photographer of facades and alleyways, he also became the RenCen "roof man." Admittedly, he was "petrified" as he was escorted onto the 38th floor roof by security officers. His job there was to take basic pictures of the riverfront area to show the proposed changes in the entrance to the tunnel to Canada, already under construction, and to help put into perspective the team's suggested riverfront pedestrian and bicycle pathways and overpasses connecting Randolph Street and the RenCen to the riverfront areas.

Glenn DeSimone of Warren described the weekend "as a real learning experience for anyone interested in seeing how professional architects go about meshing plans for a city. It was especially important because it was 'our' city," he said.

John Jurkowski of Center Line noted that the professional team had no problem relating to the student help. "All of the members of the team were highly receptive to our ideas, too," he said.

Thomas Ventulett, Atlanta-based urban designer and chairman of the professional team, said LIT students "demonstrated strong capabilities and were able to relate enthusiastically to the task at hand, even when it required working all night." He added, "They were aware, had many talents and remarkable insight into urban solutions."

Other LIT students on the team included Ronald Rozanski, Allen Park; David S. Battle and Douglas McLean, Royal Oak; Jeff S. Levin, Southfield; and Lois Voepel, Birmingham. Other professional members were John Kriken, San Francisco architect and urban planner; David M. Dornbusch, San Francisco economist; Constance Perin, sociologist at the Radcliffe Institute, Cambridge, MA; Michael John Pittas, planning consultant, Winchester, MA; Nicholas Quennell, New York landscape architect; Don Stull, Boston large-scale housing designer; and Alan M. Voorhees, dean of the College of Architecture, Arts and Urban Sciences, University of Illinois.

'It's worth the effort'

In business or show business, talented Mel Janney fills many roles

"Jack in the Beanstalk" was his first production, when he was a fourth grader in a two-room school house in the coal fields of West Virginia. In "Half-a-Sixpence," presented this summer by Dearborn Repertory Theatre, he played the leading role of Kippis. One reviewer described him as "singing, dancing and acting with charm, wonderful effectiveness and loveable perfection."

Amateur theatrics is LIT's Assistant Director of Business Affairs, Mel Janney's year-round avocation. His campus following includes enthusiastic members of the LIT business office who rarely miss one of his performances. A good many other College personnel, who first attended a play in which he appeared out of curiosity, have learned through him the entertainment satisfaction achieved at performances in which amateurs do a thoroughly professional job.

Janney began his administrative job at LIT 14 years ago. His shared responsibilities with his superior, Mike Mitchell, follow the multi-hat syndrome that blend accounting, purchasing, personnel and money control into a cohesive "in the black" business operation.

When he is in theatre production, Mel burns the midnight oil for the 12 to 15 hours a week it takes to rehearse a role that requires 20 hours of time in production. His versatility in stagecraft includes acting, conducting an occasional workshop, learning make-up or stage design and sharpening his dancing skills. Within the last year, he produced his first play, "Cat on a Hot Tin Roof" for the Oak Park Theatre Company, of which he is a member. His last role for this group was as the pixieish leprechaun in "Finian's Rainbow" coordinate with St. Patrick's Day.

"I like musical comedy best," Janney says of his many stage roles. "If I can help someone have a light moment and an occasional laugh, it's worth the effort."

Janney has provided many light moments in "Carnival," "Guys and Dolls," "Mame," and other musicals produced by



the Stagecrafters, the group he first joined after moving to Detroit in the 1960's. He also has done straight dramatic roles for them in "The Caine Mutiny" and "Arsenic and Old Lace." Members of his family, who share his enthusiasm for the theatre, also are active with Stagecrafters—his wife Jacquelyn as one of three adult advisors to their Ragamuffin Players for 12 to 16 year olds; daughter, Sheryl, 16, as its former president, and son Greg, 12, as a new Players member. Daughter, Lisa, 9, will join when the time comes.

This summer's Dearborn production for which the cast of 19 mastered cockney dialect represents the philosophy of theatre which Mel espouses. "We're all volunteers," he says, "and when we work together toward a common goal, the real thrill comes when we acknowledge applause together. We know that what we have achieved has been done as one body, not just by a single star."

While always finding time in his life style for some phase of theatre, he earned his degree in business administration attending night classes at Wayne State University, where he is currently pursuing a law degree "that may take three or four more years." He began his business career as a hosiery knitter in North Carolina, mastering a 56-foot long machine which created 15 pair of hose simultaneously. After discovering "there was not much future in that," he joined the Marine Corps and was discharged as a staff sergeant after teaching Marine Supply School when he would have preferred "my share of the action in Korea."

He settled in Detroit "because it is my wife's home town." His community and family contributions are such that in the spring of 1978 he was named Berkley "Parent of the Year" (the district in which his children attend school), thanks to an essay his son Greg submitted to the annual Jaycette contest. "From reeling in a largemouth bass to braving the neighborhood bully, I can always rely on my Dad," Greg said. □

State winners in design contest are LIT students

Lawrence Institute of Technology architectural students have swept both first place awards in the contract (commercial) design division of the American Society of Interior Design's annual contest for Michigan colleges and universities. Arthur F. Smith of Westland received a \$125 cash award in the senior section and Glenn G. DeSimone of Warren, the \$100 cash award in the junior section. Sixty entries were received.

Leonard Else, assistant professor of architecture at LIT and the students' interior design instructor, said, "It is significant that our design students are able to compete successfully against Michigan's major universities which have established interior design departments." Else, a member of ASID, is chairman of ASID's education committee. Until becoming a full-time faculty member at LIT, he was director of interior design at Smith, Hinchman & Grylls, Detroit architects and engineers.



College gets loan. A \$3,812,000 loan has been awarded Lawrence Institute of Technology by the U.S. Department of Housing and Urban Development to finance construction of the College Housing Center. The 3 percent loan was welcomed by LIT officials who had originally planned to finance the 142-unit apartment building by issuing bonds.

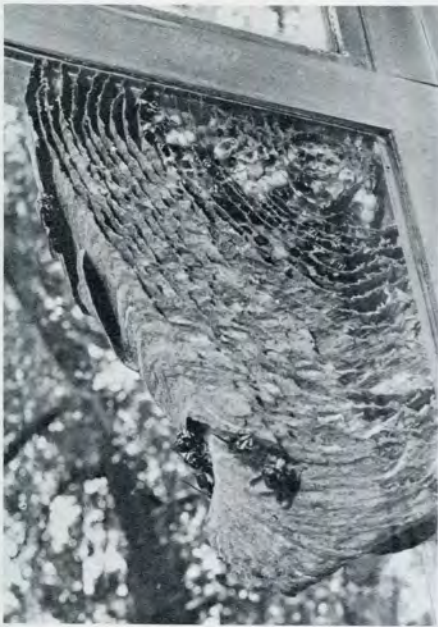
Pictured during recent inspection of the structure by HUD architect William J. Schroeder, Ar'70 (second from right) are L to R: G. Robert Harrington, v.p. development, Richard E. Marburger, president, and Wayne H. Buell, chairman of the board. The Center has proven extremely popular with local and out-of-area students, and has operated at capacity since it opened in August, 1977. Several hundred students are on a waiting list for rooms.



Officers of LIT's Student Government for 1978-79 flank President James M. Compton, IM, of Roseville. At left is Vice President Laurence Bernhardt, ME, of Livonia and at right, Treasurer J. G. Howard, ME, of Detroit, all elected in the spring by the student body.



Karl Greimel (center), dean of LIT's School of Architecture, Lawrence Institute of Technology, Southfield, congratulates his two winners of 1978-79 scholarships awarded by the Masonry Institute of Michigan. David T. Sobota (L), won the Robert F. Ebeling Scholarship, and Thomas C. Winkeljohn (R), of Redford, the J. R. Snyder Scholarship. The awards, each worth \$750, are named in honor of two prominent Detroit-area mason contractors who were among the founding trustees of the Masonry Institute.



Humming hornets hang home

Have you ever been inside a hornet's home? Did you ever care to be?

Registrar Beulah Buck had the opportunity in August when she pulled her administration building window drapes and discovered a working hornet's nest flush against the glass surface—giving her a perfect cutaway view.

No common wasps, these. Their unique home attracted the attention of local TV station WXYZ as well as the Detroit *Free Press* and the Detroit *News*.

"The hornets add a layer a day," reports Mrs. Buck. At press time, the nest was approximately 12 inches (31 millimeters) across.

LIT's library reports the insects are probably "bald-faced hornets" and construct their nests of papery material made by chewing wood and foliage. Worker wasps (males) do all the building and also forage for food to feed larvae hatched from eggs laid in the cells (upper right corner) by the queen.

Even with their convenient campus housing, no hornets reportedly registered for classes.

Rehabilitation clinic successful

Property rehabilitation—at the Federal, State, and local level—attracted approximately 500 developers, architects, government housing and planning personnel, builders and others from

around Michigan to campus May 22 and 23 for the second annual rehabilitation conference hosted by the Detroit office of the Department of Housing and Urban Development.

Urban, rural, suburban, commercial and residential programs in progress or planned were discussed by representatives of government and private entities. Carl Varadian, LIT lecturer in humanities and a HUD rehabilitation specialist, was conference coordinator. The event was sponsored by 23 agencies, building associations, municipal leagues, chambers of commerce, and HUD offices in Michigan.

Scholarships opened to evening students

Lawrence Institute of Technology Scholarships are available for the first time to evening college students, Dr. Wayne H. Buell, chairman, announces. The scholarships, for students enrolled for a minimum of 12 credit hours each term, will be awarded in stipends up to full tuition—dependent on a recipient's other scholarships or grants. Eligibility of evening college students is believed unusual among financial assistance programs—most of which limit funds to traditional day college students. Application must be made by March 1 for scholarships beginning in the autumn of 1979.

"Our opening of merit scholarships to evening students, who comprise nearly half our student body, recognizes that evening students maintaining good academic records often do so in the face of enormous obstacles—full time employment, dependent families, and professional activities," said Dr. Buell. "These scholars deserve special recognition and praise."

Twenty renewable LIT scholarships are available annually to students. They are administered by the College financial aids office and awarded by a joint faculty/administration scholarship committee.

Approximately two-thirds of Lawrence Institute of Technology's students receive some form of financial assistance in the form of scholarships, grants, loans or work-study opportunities. Basic tuition for the 1978-79 academic year is \$445 per term. For additional information on LIT's financial aid programs, contact Paul Kinder, director, at (313) 356-0200.

'No need' tuition grants offered

Up to \$600 a year is available to Michigan students attending private colleges like LIT, thanks to new legislation enacted by the State of Michigan.

The legislation provides for tuition differential grants, designed to help to "close the gap" between public and private institution tuitions. The actual grant amount is dependent upon the availability of State funds, but incoming freshmen can expect about \$600 this year, says Dr. Wayne H. Buell, LIT chairman of the board and representative to the Association of Independent Colleges and Universities of Michigan (AICUM). AICUM was instrumental in securing passage of the bill.

Need is not a consideration for grant eligibility, but students must be State residents for twelve months preceding matriculation and must also maintain satisfactory progress. They must also be at least a half-time student (minimum of six credit hours).

The tuition differential program will be phased in over a four-year period, with only freshmen eligible during 1978-79, then freshmen and sophomores in 1979-80, freshmen, sophomores, and juniors in 1980-81, and all four classes beginning in 1981-82.



Prof. Odle dies

Dr. Thomas D. Odle, professor of humanities, died July 27 of an aneurysm.

Dr. Odle, 57, joined the LIT faculty in 1961. Formerly he had served on the faculties of the New Mexico Institute of Mining and Technology and Michigan Technological University. He was a teaching fellow at the University of Michigan where he earned his A.B., M.A. and Ph.D. degrees.

He is survived by his wife, Jean, and daughter.



Brown named member

Parke B. Brown, manager of engineering, trade and technical services of Dow Chemical U.S.A., Michigan Division, has been named a member of the Lawrence Institute of Technology Corporation. Members of the Corporation choose the 4,750 student College's Board of Trustees.

Brown has division-wide responsibility for maintaining Dow's trade mix, and administration of its engineering department, purchasing department, stock and receiving department, instrument applications, communications, and capital construction projects. He has held a variety of successive executive positions since he joined Dow Chemical following his graduation from Kalamazoo College with a bachelor's degree in physics in 1952.

Brown, 48, is a senior member of the Instrument Society of America, a member of the Midland Hospital Association and an industrial representative for Explorer Scouts. He resides in Midland with his wife, Nancy, and four children.

Two named to new posts

F. Hal McDavid and James O. Trew have been named to new administrative posts at Lawrence Institute of Technology, College President Richard E. Marburger announces.

McDavid has been named director of placement while Trew is LIT's new director of student services. The new positions are part of a realignment of the office precipitated by the death of former director of student services and placement, William C. Burke, July 2. Both appointments are effective immediately.

Trew, 56, joined the College in 1968 as director of admissions and most recently

Long-time administrator William C. Burke dies following surgery

William C. Burke, 65, director of student services and placement, died July 2 at the Cleveland (OH) Clinic following heart surgery.

Burke, who would have been 66 years old August 12, had been with the College for 30 years. He taught courses in business administration in the late 1940's, was named director of veterans affairs after World War II, was director of the Industrial Technical Institute, (forerunner of the present School for Associate Studies) and then director of campus facilities and placement. He assumed responsibilities for both student placement and student services in 1972.

During his long tenure in placement, Burke helped hundreds of LIT students land their first jobs, often without their knowledge. A behind-the-scenes good word or strategic telephone call to corporate recruiters often turned the tide in a student's favor, resulting in a job offer that perhaps would otherwise not be forthcoming.

A 20-year resident of Southfield, Burke was a member of the Southfield Hi-Twelve Club (Masonic) and also belonged to the Moslem Shrine, Scottish Rite and Blue Lodge. He was a member of LIT's Presidents Club, the Southfield



Rotary Club and belonged to many national professional organizations.

A graduate of Wayne State University where he earned a bachelor of science degree in 1947 and a master's degree in educational administration in 1965, Burke was a member of Alpha Gamma Upsilon fraternity (which merged in 1967 with Alpha Sigma Phi fraternity.) He was, at one time, sponsor of the LIT chapter of that fraternity. He grew up on a farm in Marlette, MI.

Burke is survived by his wife, Ruth, an aunt and cousin, a sister-in-law, Mrs. Ellenore Kent, who is employed by LIT, her husband, their daughters, and his father-in-law.

Memorial scholarship contributions may be made in his name to Lawrence Institute of Technology.



Trew



McDavid

served as staff assistant to the president. Prior to his association with LIT, he was a teacher, coach, and athletic director with the Detroit Public Schools, and was also active in professional baseball. He retired in 1977 from the U.S. Air Force Reserve with the rank of lieutenant colonel.

Trew holds a B.S. degree from Michigan State University and a M.A.

from the University of Michigan. He resides in Farmington Hills with his wife, Dorothy. They have five children.

McDavid, 54, has been associated with LIT since 1976 when he was named assistant to the dean for the School for Associate Studies. He will retain those responsibilities along with his new position.

McDavid received his B.A. from Michigan State University and also studied at the University of New Hampshire and Wayne State University. He was previously president of his own consulting firm and had served as director of continuing education at Northwood Institute in Midland and as assistant director of applied management and technology at Wayne State University. He resides in Holly with his wife Nancy. They have three children.



Dr. and Mrs. William Mikulas admire the Founder's Medal presented by Dr. Wayne H. Buell, chairman of the board, at Mikulas' retirement party. Mikulas taught at LIT for 9 1/2 years. The medal is awarded to individuals who distinguish themselves in service to the College. In the background (L to R) are Engineering Dean Stephen Davis and President Richard Marburger.

Faculty and staff update

Betty-Lee Francis, lecturer in architecture, was a guest on the Mark Mead talk show, radio station WHMI, in June. She was interviewed about the Howell historic preservation project for which her students prepared a plan last summer. The plans were also the subject of an extensive picture feature in the *Livingston County Press* in April.

Barbara C. Gram, associate professor of humanities, was a guest speaker for the "Images of Aging in America" series at the Bloomfield Township Public Library in May. She discussed the poetry of Robert Frost and Lewis Carroll.

Dr. Warren R. Hill of Union Lake has been named an associate professor in the School of Engineering. He is assigned by Dean Stephen R. Davis to the department of electrical engineering, in which he has been a part-time lecturer since 1973. He will teach digital circuits and micro-processors.

Dr. Hill was formerly senior project engineer at Eaton Corporation, Engineering and Research Center, Southfield. He had served in that capacity since 1968. From 1964 to 1968 he was an assistant engineer in the engineering research department at the Detroit Edison Company.

A native of Nebraska, Dr. Hill received his B.S. degree in electrical engineering in 1963 at the University of Nebraska. He attained his M.S. at Wayne State University in 1968 and a doctor of engineering at the University of Detroit in 1975. He is a member of the Institute of Electrical and Electronic Engineers (IEEE) and the Society of Automotive Engineers (SAE) and is a Mason.

Last spring, Dr. Hill was chairman of a session for the Engineers Society of Detroit seminar on micro-processors: new products and applications. He recently gave a paper at the IEEE Vehicular Technology conference in Colorado. He is co-author of three patents and a registered professional engineer in Michigan.

Dr. John D. Hromi, associate professor of

mechanical engineering, has been elected treasurer, American Society for Quality Control, for the second year. ASQC has more than 30,000 members.

Kathleen Jacobson, a former counselor at Brandon High School in Ortonville and New Haven High School, has been named an admissions counselor. She received both her bachelor of science and master of arts degrees at Wayne State University, the latter in guidance and counseling.

Dr. Fritz Kramrisch, P.E., a 33-year instructor in LIT's School of Architecture, Evening College, retired from teaching at the end of the spring term, simultaneous with his retirement June 30 from his job as a civil engineer for 37 1/2 years with Albert Kahn Associates, Detroit. He and his sister, Grete, with whom he lives, moved this summer to Mesa, AZ.

Dr. Kramrisch, 68, was born in Vienna, Austria, where he received both his civil engineering diploma (1933) and his doctor of engineering from the Technical University (1935). He came to the United States in 1940 and began his career as a structural engineer for Kahn. In 1966, he was named the firm's chief civil engineer.

He is a Fellow of the American Society of Civil Engineers and the American Concrete Institute, being on its Standard Building Code Requirements Committee as well as other committees. He is a member of the Michigan Society of Professional Engineers.

Dr. Kramrisch holds a patent in long span structures. He co-authored the *Handbook of Concrete Engineering*, was chairman of the ACI committee which prepared the *Strength Design Handbook* and co-authored *The Canadian Metric Design Handbook*. He also has written many technical articles.

Accepting a teaching appointment at LIT in 1945, he most recently taught structural design classes for seniors. Dr. Kramrisch says he "will miss" both his students and his life-time career at Kahn, but is looking forward to his new life in Arizona.

Kenneth M. Livingston and **Gary A. Kecskes** have been named assistants to Dean Karl H. Greimel, School of Architecture. Livingston, who received his B.S. in architectural engineering at LIT in 1965 and his masters of architecture at Cranbrook Academy of Art in 1971, has taught the last five years at Indiana University-Purdue University, Fort Wayne. From 1968 to 1972, he was a part-time lecturer in construction systems at LIT while working for Detroit architectural firms. Kecskes received his bachelor of architecture degree cum laude June 4. **Gary Jelin**, B of Ar '76, who was Dean Greimel's assistant for two years, joined Yamasaki and Associates, Troy, July 5 as a designer.

Dr. Richard E. Marburger, president, has been elected treasurer of the Engineering Society of Detroit. ESD has nearly 7,000 members and is considered the world's largest regional technical society.

Bruce McAfee, associate professor of business and industrial management, is the co-author of a 250-page book entitled, *Guidelines for Writing Personnel Policies*. The book was written for the International Laborers—Associated General Contractors Education and Training Fund located in Washington, DC. This organization conducts training programs for laborers in the construction industry and has affiliates throughout the United States and Canada. Richard N. Feinberg, a former lecturer at LIT, was also a co-author of the book.

"The quality of engineering has improved and changed from the traditional type of mandated education to greater flexibility for students in the choice of electives," comments **Dr. William Mikulas** of Farmington, retiring professor of mechanical engineering.

Mikulas, who had served LIT's School of Engineering since January, 1969, attended the College's 46th annual commencement June 4 prior to departing for Iran, where he is consulting in the design and manufacture of home appliances. He and his wife, Muriel, also visited Spain over the summer.

Dr. Mikulas is a former president of the Michigan section of the American Society of Metals and is a member of the American Society of Heating, Refrigeration and Air Conditioning Engineers and the Engineering Society of Detroit. A graduate of the University of Michigan (B.S. in engineering, 1932, M.S., 1933, and Sc.D., 1936), he began his business career at Kelvinator in 1936 and was chief engineer when he left there in 1957 to join Curtiss-Wright in South Bend, IN, as chief engineer. He returned to Kelvinator International, a division of American Motors Corp., in 1959 and was director of engineering when he joined the College.

Visits with their daughter and three grandchildren in Minneapolis, and a son who is an associate professor of psychology at the University of Western Florida, rank high on Dr. Mikulas' and his wife's list of retirement plans. Another son, Roger, is an automotive engineer at GM's Buick Division, Ortonville.

Judith M. Weiner, lecturer in humanities, received a grant from the National Endowment for the Humanities to participate in a summer seminar at Johns Hopkins University. She was one of 12 participants who studied character development in 18th Century fiction and 20th Century film.

Cuba lures accounting alumna

Photograph and excerpts from a story appearing in the **Farmington (MI) Forum**, June 22, 1978. Reprinted with permission.

Navy Ensign Jill Werschin is the disbursing officer for more than 2,000 Navy people living and working at the U.S. Naval Base, Guantanamo Bay, Cuba—the only U.S. military base on Communist soil.

A 1971 graduate of Farmington high school, she joined the Navy in January 1976, shortly after receiving her bachelor of science degree in accounting from Lawrence Institute of Technology.

"I asked to come to Gitmo (as it is known) because I had never been to the Caribbean. I love it here! There are no traffic jams; we have clean air to breathe

and the place has a friendly small-town atmosphere."

The native Michiganite has lived and worked in this community of some 6,200 military and civilians—including wives and children—since January, 1977.

Werschin, who has 12 Navy disbursing clerks and three civilian employees under her supervision, takes her fiscal responsibilities very seriously.

"As the paymaster here, I am primarily responsible for ensuring that over 2,000 Navy people are paid promptly and correctly twice a month. My payroll amounts to over \$1 million a month. Here at Gitmo, payday plays an important part in the high morale of our people."

High morale is a significant factor in this tropic-like community as the people stationed here work toward a common goal—support of the operating ships that train here.

From her bachelor officers' quarters high atop a hill, Ens. Werschin can see some of the ships as they daily steam out of the bay into the Caribbean Sea.

"For an outdoors sportsman, this is really ideal duty, year 'round. We have fishing, snorkeling, scuba diving, tennis,



Quality Control Workshop. Dr. Hans Bajaria, associate professor of engineering, lectures during a three day workshop on establishing design quality which the College co-sponsored in June with the Automotive Division and Greater Detroit Chapter of the American Society for Quality Control. More than 40 individuals from throughout the midwest attended. Bajaria served on the workshop's planning committee with Dr. John Hromi, associate professor of engineering and also a speaker, and Bruce Annett, director of public and alumni relations and workshop registrar. Engineering Dean Steve Davis initiated the ASQC liaison.



Ensign Jill Werschin, BA'75

horseback riding and swimming.

"Most of my free time is spent on outdoor sports such as swimming, scuba diving, tennis and bike riding. I also enjoy needlepoint and reading."

While Guantanamo Bay may not offer every day-to-day necessity or luxury Jill enjoyed while living back in Farmington Hills, she's not living in total isolation.

The base has a modern, fully-equipped hospital, dental services, a color television station, AM and FM radio stations, a bowling center, several free movies daily, restaurants, one commissary (supermarket) and two base exchanges (retail stores).

Rest and relaxation (R & R) flights are available to base residents who might like to spend a weekend in Jamaica, Puerto Rico or Haiti. Passengers are charged a nominal fee for these flights to cover fuel and maintenance expenses for the aircraft.

Alumni Association News

Alumni elect officers; update corporate articles

Four amendments to the Alumni Association's Articles of Incorporation were adopted at the Annual Business Meeting and Dinner June 8 at Plum Hollow Golf Club, Southfield. New officers for the year, elected by mailed ballot by the general membership, were also announced. More than 40 alumni and guests attended the meeting.

The proposed amendments were distributed to current members in May. Amendments to Article II and Article X were adopted to reinforce the Association's stature as a non-profit corporation in alignment with Internal Revenue Department regulations. Article VIII changed the term of the Association's corporate existence from 30 years to perpetuity. Article IX increased the number of directors from 12 to 15, in an effort to increase member participation in Association activities.

The 1978-79 alumni officers and directors were announced. They are: **Marlyn K. Lisk** IM'73, president; **Charles A. Koury** MA'73, vice president; **Roger E. Avie** IM'68, treasurer; **Nicholas Sarzynski** IM'64, recording secretary; **Dennis R. O'Connell** IM'70, corresponding secretary; **Roger F. Shtogrin** IM'61, director; **Arthur W. Fischer** IM'65,



Present at the Alumni Association's business meeting June 8 were 1978-79 officers or directors (L to R) Sam Dukes, Henry Tamagne, Dennis O'Connell, Ted Milek, Marlyn Lisk, Nick Sarzynski, Chuck Koury, Roger Avie, Roger Shtogrin, and Art Fischer. Not pictured but in attendance also was John Fawcett.

director; **Sam E. Dukes** ME'59, director; **John R. Fawcett** ME'43, director; **Gordon L. Spaulding** ME'75, director; **Henry J. Tamagne** ME'51, director; and **Theodore Milek** ME'51, director.

A nomination committee under the chairmanship of **John Fawcett** ME'43, has been formed to present a slate of individuals to fill the three new directorships. Names of possible candidates should be referred to the Alumni Relations Office.

The Association's Frank Sinatra Concert August 29 was quickly sold out. A Detroit Lions Safari is planned for the late fall and Association members will receive a mailing with details in October.



Above: This smiling table of spouses or friends of Association members adjourned to a nearby room during balloting. Center: President Lisk (R) congratulates his new vice president, Charles Koury. Lower right: Wayne Buell, ChE'36, Carl Cowan, ME'40, and Robert Williams, ME'53, ponder issues prior to voting.



Alumni Notes

Tau Beta Pi initiates

Michigan Eta Chapter of Tau Beta Pi, national engineering honor society, has initiated the following eminent engineers and alumni of the former Sigma Pi honor society at LIT in its first charter year. All are residents of Michigan unless otherwise noted.

Eminent engineers: **Industrialists** — **Kenneth Cook**, EE'64, director of electronic research, the Valeron Corp.; **Edward Donley**, ME'43, chairman of the board, Air Products & Chemicals, Inc., Allentown, PA; **Sam E. Dukes**, ME'59, chief engineer, Rockwell International; **Anthony C. Fortunski**, Ch E'39, president, Fargo Machine & Tool Co.; **Emmett Horton**, AeroE'42, director-North American research liaison, Ford Motor Co. of Europe, Essex, G.B.; **Jack L. Korb**, CivE'54, executive vice president of Etkin, Johnson & Korb, Inc. (just elected president of the Engineers Club of Detroit); **Robert W. Miltzer**, ME'42, vice president of Ex-Cell-O Corp.; **William K. Pence**, EE'52, assistant manager of engineering, Detroit Edison Co.; **Steve Slaby**, ME'43, professor, Princeton University; and **C. Lee Zwally**, EE'41, vice president, Jervis B. Webb Co.; LIT staff — **Dr. Wayne H. Buell**, ChE'36, chairman of the board and chief executive officer; **Dr. Richard E. Marburger**, president; **George F. Bowden**, chairman of the department of construction engineering; **Robert D. Hatch**, professor of electrical engineering; and **Richard Lundstrom**, associate professor of mechanical engineering.

Alumni of Sigma Pi: **Kenneth A. Adams**, ME'76; **Dennis S. Bammel**, ME'74; **Robert**

Barduca, EE'71; **Thomas M. Bialek**, EE'71; **Leonard Boger**, EE'74; **Keith G. Booth**, EE'77; **Richard A. Bresso**, CE'76; **James D. Collins**, EE'75; **Dean V. DeGalan**, EE'74; **Thomas G. Dunn**, EE'77; **David L. Easton**, EE'73; **David E. Fillion**, EE'76; **Philip C. Good**, EE'71; **John I. Goodman**, ME'72; **Jeffrey B. Grupp**, ME'74;

Oran Lee Herberger, ME'77; **Ernest R. Hickson**, EE'71; **Bruce D. Hoenle**, ME'75; **Kenneth B. Hollis**, EE'76; **Ardath L. Holmes**, EE'75; **Jody Marie Hrymak**, EE'77; **Frank A. Koltuniak**, ME'77; **Kevin A. Konczak**, ME'77; **Michael A. Kurmas**, CE'73; **Edward F. Leib**, EE'77; **Thomas J. LaVere**, ME'72; **Henry Jack Levine**, EE'75 (Fort Worth, TX); **Thomas A. Mandry**, ME'75 (Allentown, PA); **Roger N. Marshall**, EE'72; **Joseph S. Matusz**, EE'77; **David L. Messenger**, EE'77; **Mark L. Miller**, EE'71;

Edward J. Noga, ME'75 (Allentown, PA); **Gary T. Obudzinski**, EE'76; **Jack W. Olmstead**, CE'77; **Gregg H. Penn**, CE'76; **William G. Polom**, CE'76; **Terrence D. Prestel**, EE'77; **Charles A. Rasko**, ME'77; **Bruce R. Reed**, ME'75 (Pittsburgh, PA); **Timothy I. Rice**, ME'76; **Frederick J. Rosiak**, EE'71; **John S. Schaberg**, EE'72; **James M. Shamaly**, ME'73; **Douglas P. Slattery**, EE'74; **Lawrence A. Torretta**, ME'77; **David H. Trombley**, ME'74; **William W. Vukonich**, EE'74; **Thomas J. Waraksa**, EE'76; **Henry W. Ware**, EE'72; **David A. Wickman**, EE'75; **Tim S. Wukie**, ME'74, and **Henry G. Zatorski**, ME'71.

1933-39

George P. Pollefeyt, ME'38, reports that he is enjoying his retirement from Chrysler Corp. Defense Engineering Division. He is secretary of the Fedhaven, FL, Volunteer Fire Department and is traveling extensively.

Dr. Henry S. Mika, EE'39, has been named Head of the Electrical and Electronics Department at Ferris State College, Big Rapids. He was formerly associate professor of electrical engineering at Washington State University's Joint Center for Graduate Study.

Henry's new responsibilities place him in charge of Ferris' programs in avionics, broadcast electronics, technology, electrical power technology, industrial electronics technology, and radio-television service. He earned an M.S.E. at the University of Michigan and his Ph.D. from Michigan State.

1940-49

Frederick L. Hilton, EE'41, has been named chairman of the Broward County, FL, Industrial Board's Committee of One Hundred. The committee works with the County's 16 chambers of commerce, as well as county commissioners, and municipal governments in providing industrial expertise for matters affecting the region's industrial growth and expansion.

Fred is manager of facility planning for Motorola Inc. Communication Products Division, Plantation, FL. His responsibilities include the forecast of facility requirements and worldwide site selection for Motorola.

Emmett J. Horton, AeroE'42, has been appointed director - North American research liaison of Ford Motor Company of Europe, Essex, Great Britain. Formerly he had been director - new powertrain concepts research at Ford USA. He is a member of the LIT Presidents Club and received an alumni achievement award in 1954.

The 1978-79 president of the 47,000-member Society of Manufacturing Engineers is **Robert W. Miltzer**, ME'42, vice president and general manager of the Micromatic Division of Ex-Cell-O Corporation, Holland, MI. He was installed in May at SME's 1978 International Tool and Manufacturing Engineering Conference and Exposition at Philadelphia.

In assuming the SME gavel, Robert said it is the responsibility of the manufacturing engineering profession to apply its creativity to the complex problems facing today's society in order to improve productivity, prosperity, and the quality of life throughout the world.

An SME member since 1960, he has chaired four national committees of the Society and has been on its board of directors since 1971. He received an LIT alumni achievement award in 1973 and is a member of Tau Beta Pi and the Presidents Club.

He has headed Ex-Cell-O's Micromatic Division since 1972. He holds many machine tool patents, has written numerous technical papers, and has lectured frequently before

News for Alumni Notes

Use the space below to send us news about you or your L.I.T. 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/Alumni Relations, Lawrence Institute of Technology, 21000 West Ten Mile Road, Southfield, Michigan 48075.

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Coming up!



Addresses by the speakers listed below are open to students, alumni and friends of the College without charge. However, because speakers occasionally must be rescheduled, visitors are encouraged to call the Public and Alumni Relations Office to confirm attendance, (313) 356-0200.

October 4 Architecture Design Lecture Series: Ted Ramsay, professor, University of Michigan. "Papermaking Design," 6 p.m., Arch. aud.

October 5 Arts and Science Annual Lecture: W. Dale Compton, vice president-research, Ford Motor Co., 7:30 p.m., Sci. aud.

October 10 Architecture Design Series: Dr. Richard Ahern, LIT lecturer. "Natural Law and Order." Noon, Arch. aud.

October 12 Architecture, Second Thursday Lecture: Oscar Newman, Institute for Community Design Analysis, New York. 7:30 p.m., Arch. aud.

October 17 Architecture Design Lecture Series: Lothar Hoffman, Center for Creative Studies. "Graphic Design and Reproduction Techniques," Noon, Arch. aud.

October 21 LIT Presidents Club Dinner: By invitation, 6:30 p.m., Dining room.

October 24 Architecture Design Lecture Series: Edward Francis, Kessler & Associates, Detroit architects. "Works in Progress," Noon, Arch. aud.

October 31 Architecture Design Lecture Series: Joseph B. Olivieri, associate professor, "Comfort and Energy Conservation; Are They Both Compatible?" Noon, Arch. aud.

November LIT Alumni Association football safari to Pontiac Silverdome. Call Public and Alumni Relations Office for details.

November 7 Business and Industrial Management Annual Lecture: Thomas A. Murphy, chairman, General Motors Corp. 7:30 p.m., Sci. aud.

November 18 Architecture Design Series: Kenneth Neumann, Rossen-Neumann Associates, Southfield architects. "Architecture: Evolution of Design," 6 p.m., Arch. aud.

November 20, 21, 22 Registration, Day College second term baccalaureate classes. Classes begin November 27.

November 23, 24 Thanksgiving Recess. College closed.



G.M. chairman speaks

Thomas A. Murphy, chairman of the board and chief executive officer, General Motors Corporation, will present a special address on campus November 7. Alumni and friends are welcome to hear Murphy's remarks, which begin at 7:30 p.m. in the Science Building Auditorium. Please reserve seats by calling LIT President Richard E. Marburger's office: (313) 356-0200.