

F.I.T. Update

on education • research • alumni

August 1983 • Volume 1 • Number 2

EPA backs search for cancer test

The Federal Environmental Protection Agency (EPA) has asked an F.I.T. researcher to develop a test system to determine which chemical compounds are potentially hazardous to man.

Dr. John C. Hozier, director of F.I.T.'s new Medical Genetics Laboratory, has been awarded a \$245,000 EPA contract for the three-year study aimed at developing such a test system.

The research project is being conducted in collaboration with scientists at the EPA Health Effects Research Laboratory in North Carolina.

The development of a test system to screen for chemical compounds potentially hazardous to man is not new to Hozier. Last year the EPA awarded Hozier a \$270,000 contract to develop a different test system for a similar purpose.

"We have already developed a system for testing cells grown in the laboratory which were exposed to potentially cancer-causing chemical compounds," said Hozier.

Unlike the previous test system, designed to test cells grown in the artificial environment of the laboratory, the present study will involve a system for testing cells in live animals," Hozier added.

The researcher explained that more than one such test system is needed to help make the results of animal studies more indicative

of the risk involved when humans are exposed to potentially hazardous chemicals in the environment. It is estimated that some 500 to 1,000 new chemicals are introduced into the environment each year.

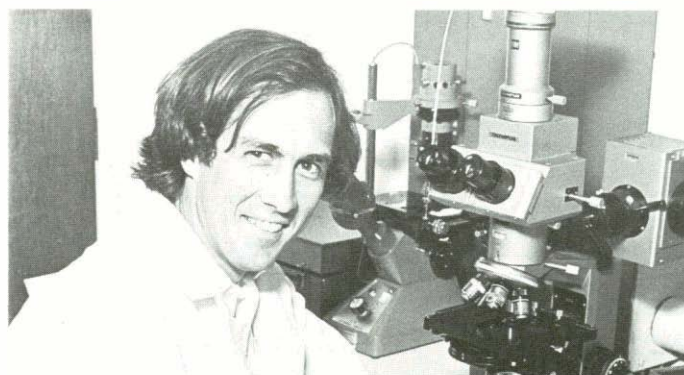
Hozier said that the first stage of the new research project will involve a study of the way chromosomes replicate during the cell cycle.

Chromosomes are the microscopic rod-shaped bodies in a cell which carry the genes that determine hereditary characteristics. In humans there are 46 chromosomes.

During the first stage of the study, a test system will be created to measure the exchange of genetic material between different chromosomes. That process is believed by scientists to be an important indicator of agents which damage chromosomes and can result in human disorders such as cancer or birth defects.

During a second stage, the test system itself will be tested, by exposing animals to various compounds to determine how closely their response relates to increased cancer risk in humans from those compounds.

The researcher noted that about 70 percent of the grant money will go toward salary support of scientists and technicians involved in the development of the test system. The remaining grant money will be used for supplies and equipment.



Dr. John Hozier



Going up

Work under the summer sun is allowing the rapid rise of a concrete and metal structure that will become F.I.T.'s Evans Library. The work by P.J. Goodwin Corp. of Merritt Island is expected to yield a useable, \$3.6 million structure by May.

Rowers return national trophies

Trophies symbolizing the national prominence of F.I.T.'s crew team were returned to the university following the Dad Vail Regatta at Philadelphia — the nation's small college rowing championship.

The Engineers finished a close-second in overall points despite first-place finishes in three rowing categories, leading Coach Bill Jurgens to commend his athletes on "a very good year."

The season finale was on the Schuylkill River, where 2,000-plus rowers were joined by more than 25,000 spectators.

In the history of F.I.T. rowing, the success of the 1983 squad has been surpassed only by last year's crew team — which managed to capture the national small college championship. That season, the coach said, was "a remarkable year."

The overall honors went this year to Georgetown University, which earned 46 points to F.I.T.'s 39. Third place went to

Connecticut College, and the Coast Guard Academy claimed fourth place out of 63 competing schools.

Winning boats for F.I.T. were the men's junior varsity eight (for the third year in a row), the men's lightweight varsity eight (the first win at the Dad Vail since 1975), and the men's lightweight varsity four (which held off a surge by Jacksonville University, a squad that beat them in Florida competition).

The men's varsity eight — the squad that competes for the "Dad Vail Trophy" which the Engineers captured in 1982 — fell in the finals to Temple University. "It was a nip and tuck fight, then they just outspinted us at the end," Jurgens said.

Jurgens said other team points included those earned by the women's varsity eight with an eighth place finish, the women's junior varsity eight in third place, and the men's freshman four in sixth place.

F.I.T. graduate lands promising career

For one F.I.T. graduate, on-the-job training through F.I.T.'s Cooperative Education program has helped pave the way to a promising career.

"The job experience opened my eyes to what the working world is like for engineers," said Nancy Jean Walker. She explained that working engineers have duties beyond application of skills learned in the classroom.

"They have many supervisory responsibilities which go beyond working with electronic gadgets," said Walker.

Walker explained that her co-op experience helped her prepare. "Through my job, I knew exactly what I wanted to learn. So, I did not hesitate to ask questions in class," said Walker.

The Melbourne native must have both asked the right questions and provided her professors with the right answers.

She was the recipient of F.I.T.'s Faculty Scholarship Award during Winter Commencement. The award is presented at each commencement to bachelor's degree recipients with a 3.8 or greater grade point average. Walker earned her degree in electrical engineering with a 3.868 average out of a possible 4.0.

She also worked full-time for seven quarters with Harris Corp. as a junior engineer, and for NASA assisting design

engineers and scheduling cargo facilities in support of future Space Shuttle flights. She later worked part-time for Western Technology writing video games.

"Just as you got tired of school, you had

to go to work. And when you got tired of work, you would go back to school," she explained.

Although Walker had nine job offers upon graduation, she chose to work for

DBA Systems Inc. as an analyst programmer.

"I am working on a data base management system for all of DBA," said Walker. She explained that the system will contain personnel files on DBA employees to be used by corporate headquarters and project managers.

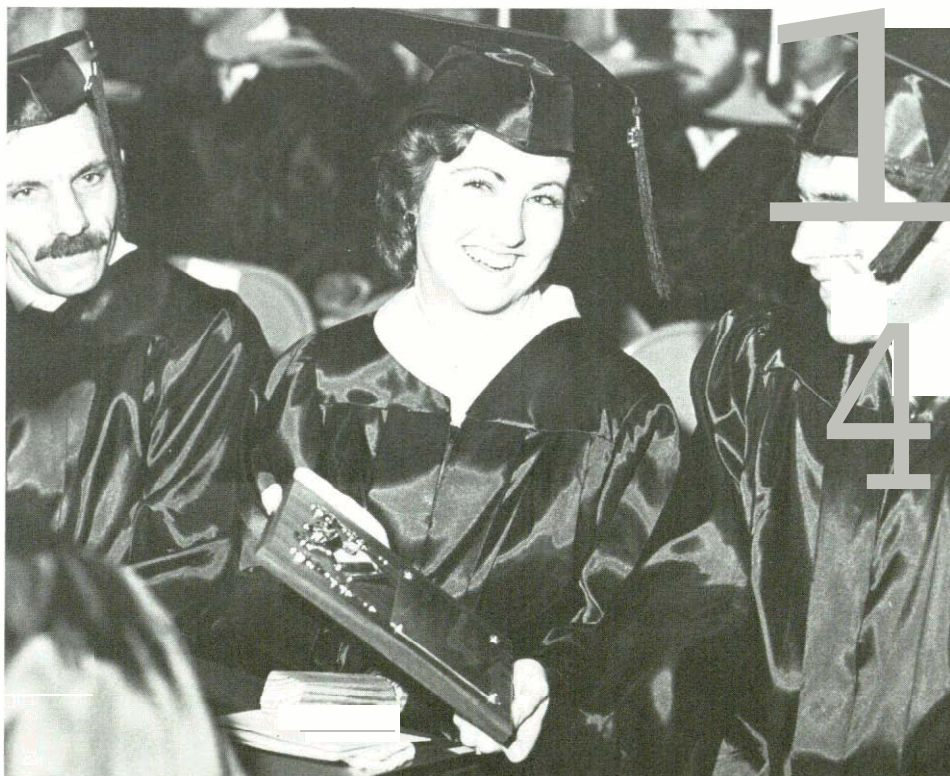
She plans to return to F.I.T. in the fall and pursue a master's degree in business administration.

"I would like to move into upper management and be president of a company some day," said Walker.

While attending F.I.T., she was active in several organizations. She was president of Eta Kappa Nu electrical engineering honorary society; president of Tau Beta Pi engineering honorary fraternity, and member of the Co-op Advisory Board.

She was also a member of Blue Key National Honor Society, the Institute of Electrical and Electronic Engineers, and the Society of Women Engineers. She was selected for inclusion in the publication "Who's Who among Students in American Universities," for 1982-83.

Currently, Walker is a registered engineer in training in the state of Florida. She plans to apply for her professional engineer's license after she has acquired five years experience in the field.



Nancy Walker took the prize at graduation.

Story by Mary Deese

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Henry (Hank) **Hadley** (B.S.-Physics) has obtained his doctorate and now resides in **Elkton, MD**. He is employed by Solar Energy Systems, Inc. of Newark, DE.

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Frederic C. **Schwartz** (BS-SpaceScience) who received an MS from Ohio State University in 1973, is one of 54 mid-career executives from the U.S. and abroad selected as Alfred P. Sloan Fellows by the Massachusetts Institute of Technology. He currently is chief, Systems Engineering/Integration Division, Deputy for B-1B, Aeronautical Systems Div. Department of the Air Force, Wright-Patterson Air Force Base, OH. (See story on Mr. Schwartz in this Update.)

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James W. M. **Pryde** (BS-Mgmt. Sci.) is a senior field engineer with Data General Services, Inc. of Columbus, OH. He moved from Colorado in 1979 and now lives in Worthington with his wife and four children, Rachel (12) Janice (4), and twins Abigail and Sarah (2).

75

Russell E. Dronne (BS-Sci. Ed.) lives and works in Bakersfield, CA, where he is a safety engineer for Fireman's Fund Insurance Co.

George T. **Nicholas** (MS-Cont. & Proc.) lives in Davenport, IA, and serves as supervising procurement analyst, Hdq. U.S. Army Armament Materiel Readiness Command, Rock Island, IL. He is assigned as chief, Review and Compliance Division of Policy and Plans Office and was selected by National Contract Management Association as a Fellow. He is considered a national expert on military disability retirement benefits, has assisted Congressman Fred Schwengel, and has served for six years on the Iowa Governor's Committee for Employment of the Handicapped.

Birendra Sahijwani (BS-EE) in May of this year received an M.B.A. degree from Widener University, Chester PA.

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Kenneth B. Taylor (BS-Air Comm./Flt. Tech.) who received his AS-Flt. Tech degree in 1973, received his MBA from Western New England College in May 1983.

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Lt. Col. John (Jack) **Carl Houlihan**, USA (MS-Trans. Mgmt.) we regret to report passed away on March 28, 1983 and is interred in Arlington National Cemetery.

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Steven E. Johnson (BS-Air Comm.) is an "all weather attack bombardier/navigator" currently flying AG's, assigned to VA-85 aboard the aircraft carrier USS John F. Kennedy operating off the coast of France in a NATO exercise.

Joseph **Lombardi** (BS-OE) works for Exxon Company USA in New Orleans as senior engineer on Exxon's guyed tower project. He received his MSOE from M.I.T., is married and has two children, Joey (3) and Sara (6 months).

Kenneth R. Potts (AS-Flt. Tech.) is an airline pilot for Piedmont Airlines at Smith Reynolds Airport, Winston-Salem, NC. Kenneth and his wife Susan live in Advance, NC, and proudly announce the birth of their first child, Rebecca, on July 1.

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Maj. John A. **Compisi**, USA (MBA) is stationed at the Presidio of San Francisco, and is assigned as organizational effectiveness consultant for Army Reserves and National Guard in northern California and Nevada.

Whit **Cotten** (MBA) recently moved from Washington, D.C., to Winter Park, FL, to accept a new position as director of engineering with Stromberg-Carlson in Longwood.

Capt. Craig J. **McCormack**, USA (MBA) who is assigned as ILS coordinator at ARRAD Command, Dover, N.J., announ-

ces the birth of daughter Kristina last December 21.

Beth An **McGriff-Leaf** (BS-Psych.) lives in Moline, IL, and announces the birth of son Carl Alexander on January 8.

Curtis E. Sayles (BS-OE) has returned to the family farm, Sayles Wheat Farms, in Seibert, CO, as agricultural technician after two years employment in the research and development department of Brown and Root, Houston.

Stephen W. Syken (BS-Bio. Sci.) received his MS-Bio. Sci. from Drexel University at Philadelphia in 1982. He and wife Naomi live in Chester, PA, where he is in second year of University of Pennsylvania School of Veterinary Medicine, and also serving as veterinary assistant at Media Veterinary Hospital.

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Roy **Joseph Almeida** (MS-Sys. Mgmt.) in May 1980 received an MS in microbiology from the University of Texas Health Science Center in San Antonio.

John V. Madden (MBA) who has resided at Poquoson, VA, has been promoted to senior operations improvement analyst by CONRAIL and transferred to the industrial engineering department (capital programs section) in Philadelphia.

James P. Willey (MBA) recently accepted the position of regional vice president of Micalase, a division of the Management Improvement Corp. of America (MICA) in Durham, NC. MICA provides financing for government, and Micalase insures all of its leases and sales as risk-free instruments.

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Roy E. **Aungst** (BS-Comp. Eng.) and Lori Lee (Dunn) Aungst (BS-Comp. Eng. 1982) were married in Palm Bay, FL, in January and now live in Vernon, CT. Both are employed as software engineers at Pratt and Whitney Aircraft, East Hartford, CT.

1st Lt. David P. **Holmgren**, USMC (BS-Air Comm.) is a student naval aviator stationed at VT-4, Pensacola, FL, flying the T-26 twin engine jet trainer. He will "carrier qualify" in August. David is the proud owner of a 1946 J-3 Piper Cub.

Mary F. Osborne (BS-Bio. Ocean.) lives in Redlands, CA. She is locally employed (non-professional) and striving to find something associated with her education.

1st Lt. Michael J. Schiller, USA (BS-OE) is operations officer for 73rd Trans. Co. (FC), Fort Eustis, VA. He recently spent five months in Philadelphia on Army business, and a month in England.

Ensign John E. Schwering Jr., USN (BS-Air Comm./Flt. Tech.) gives his home as Chalfont, PA. He just finished A.O.C. at Pensacola, FL, and is waiting to enter Flight School. Until that time he has recruiting duty — officer procurement

Lynda K. Topping (BS-Bio.) has just resigned from position as research technician at the University of Texas Medical Branch in Galveston to attend 12 months of medical technology school in Oklahoma City, OK.

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Lori Lee (Dunn) Aungst (BS-Comp. Sci.) see 1981.

Kevin M. **McLaughlin** (BS-Bio. Sci.) lives in Warwick, RI, and is employed as quality assurance chemist at Peterson Puritan Inc. in Cumberland, RI.

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Richard Francis Scott (MS-Trans. Mgmt.) and his wife Deborah Lee live in Newport News, VA. He is serving as aide-de-camp to the commanding general at Fort Eustis, VA.

Schwartz designated Sloan Fellow

An F.I.T. graduate is one of 57 mid-career executives from around the world selected to participate in the prestigious Sloan Fellows Program.

The executives recently began classes in a one-year study program leading to a master's degree in management at Massachusetts Institute of Technology's Alfred P. Sloan School of Management.

Frederic C. Schwartz, the (civilian) chief of systems engineering at Wright-Patterson Air Force Base in Dayton, OH, was one of 45 men and nine women selected for the honor by officials at M.I.T. He is one of 1,000 executives nominated for the Sloan Fellows Program by organizations worldwide.

Started in 1931, the Sloan Fellows Program is the first executive education program of its kind. The program was initiated by the late Alfred P. Sloan, Jr., former Chairman of the Board of General Motors Corporation, and the late Professor Erwin Schell of M.I.T.

"It is a great honor to be a Sloan Fellow," said Schwartz. He added that M.I.T. officials used strict criteria to select award recipients.

"They look for mid-career executives who have rapidly progressed up their organization's ladder and have a broad background in management with some engineering expertise," said Schwartz.

Schwartz was nominated for the award by the Air Force, which will pay full-tuition costs plus his regular salary while he attends school. He worked as a civilian employee of the Aeronautical Systems Division at Wright-Patterson Air Force Base. There, he served as chief of systems engineering for the development, production and deployment of the B-1 bomber aircraft.

Schwartz holds a bachelor's degree in space technology from F.I.T. While attending F.I.T. he was active in several organizations including the Blue Key National Honor Society, Pi Kappa Alpha Fraternity. He was also recognized as the "Most Outstanding Sophomore of the Year" for 1968 and selected for inclusion in the publication "Who's Who Among Students in American Universities," for 1970 and 1971.

Upon completion of the degree program in June of 1984, Schwartz will be promoted to a higher level staff position by the Air Force.

Alumni Association members welcome



Dr. Art Kimball

F.I.T. Alumni Association
P.O. Box 1150
Melbourne, FL 32901

I/we hereby submit \$10.00 each to renew my/our membership(s) in the Alumni Association of Florida Institute of Technology for the Fiscal year ending June 30, 1984.

Amount enclosed:

\$ _____

Name _____ Class _____

Name _____ Class _____

Address _____
(Street)

(City, State, Zip)

Arthur A. Kimball

Learning Center helps students help themselves

More than 250 students per week take advantage of the "free" tutorial services offered at F.I.T.'s Individualized Learning Center (ILC).

"We grew out of a general concern to aid in the retention of freshman students on campus in 1978," said Mary B. Mullins, director of the ILC. She added that the university's FRESH (Freshman Retention by Evaluation and Systematic Help) program was also started at the same time and for

similar reasons.

Mullins said that the ILC is open during the day and evenings and employs 22 tutors as well as three faculty members besides herself. The tutors provide help for any student needing further instruction in basic undergraduate courses including math, physics, chemistry, English and computer science.

In addition, "self-help" materials are also available for the students to use.

"We have both audio tapes and workbooks for undergraduate-level math and English courses approved by F.I.T. faculty for the students to use," said Mullins.

Mullins noted that the major reason students are attracted to the ILC is that the services offered are free. Tutorial services are also immediately available to the students.

"Many students just walk in and request help in the basic math, English or science courses. We are able to match them immediately with one of our tutors, all of whom hold a 3.3 or better grade-point-average," said Mullins.

She also noted that students are very appreciative of the help they receive from their tutors and often return after exams to personally thank them.

Mullins has 15 years prior teaching experience as an English instructor for undergraduate-level courses. She holds both bachelor's and master's degrees in speech and drama from Louisiana State and Memphis State Universities respectively. Prior to her recent appointment as direc-



Mary Mullins

tor of the ILC, she served for three years as an English and speech instructor for F.I.T.'s Humanities Department.

A number of alumni have accepted our invitation to utilize F.I.T. Southgate Apartments as a base for a summer vacation. From here they have easy access to Disney World, EPCOT, Sea World, Kennedy Space Center and other attractions in the area.

As of this writing we will be welcoming the following alumni and families.:

Name & Address	Number in party	Class	Arriving
James C. Byrd Madison, AL	2 adults 2 children	'80	July 16
Edward J. Jamieson Bettendorf, IA	3 adults	'80	July 16
Daniel J. Lagosky Allentown, PA	2 adults	'74	July 16
Christine Nowicki Rochester, MN	2 adults	'81	July 16
Richard E. Poyer Ithaca, NY	2 adults	'73	July 16
Richard A. Marino Chester, VA	4 adults 2 children	'76	July 23
Patrick J. Browne Lexington Park, MD	2 adults 3 children	'79	July 23
Richard Relue Defiance, OH	2 adults	'72	July 30
Terrance R. Lyon Rye Beach, NH	2 adults 2 children	'71/'74	July 30
Royce A. Keller Columbia, MD	2 adults	'81	July 30
James E. Peel Sewickley, PA	1 adult	'79	July 30
Leroy C. Jester Alexandria, VA	3 adults 1 child	'74	Aug. 6
Raymond D. Wollek Orlando Park, IL	2 adults	'78	Aug. 6
Frederick R. McGuirk White Sands Missile Range, NM	4 adults	'69	Aug. 4
Pierce W. Tolson Ft. Lee, VA	4 adults	'77	Aug. 6
Louis J. Boston Clinton, MD	5 adults 1 child	'74	Aug. 9

Grad merges art, therapy

(Reprinted from "The Trentonian" newspaper.)

While an art education major at the Moore College of Art in Philadelphia, Marcia F. Taylor became aware of using art to change troubled children.

Since then, she has continued in the field of art therapy and is on the faculty at Trenton State College. She has also served as an adjunct assistant professor at Moore College of Art, Philadelphia, since 1976.

Taylor received her master of science degree in mental health sciences with a major in art therapy from Hahnemann Medical College in Philadelphia, where she said the first degree was given in art therapy.

Art therapy is a human service profession which offers an opportunity to explore personal problems and potentials through verbal and nonverbal expression, and to develop physical, emotional and learning skills through therapeutic art experiences.

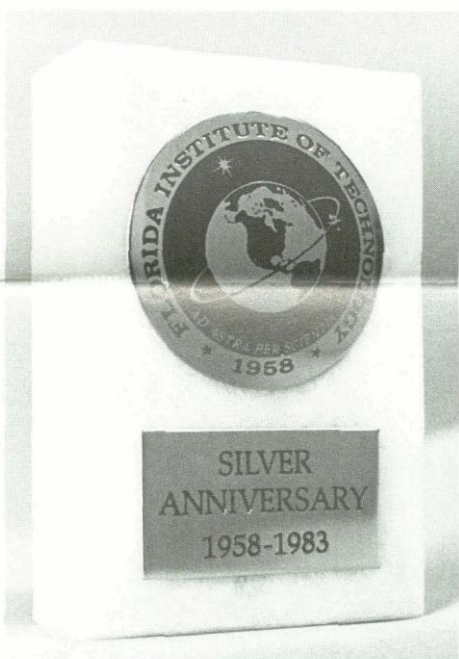
Ma. Taylor now has her doctorate in behavioral science from the Florida Institute of Technology ('82), after studying in Switzerland. She has worked in private and public schools as well as mental hospitals for clinical experience.

A branch of the mental health sciences, art therapy is also used "with artists who have developed creative blocks — helping them to get back to their work," said Ms. Taylor who enjoys teaching as well as working with clients.

Working with clients makes you a better teacher, and being a teacher keeps you on your toes," she said, adding that she would like to get back to doing some of her own art work, which is watercolors.

Originally from Reading, Pa., Ms. Taylor lives in Brooklyn with her husband Harry Skrzek whom she met in Poland while taking a summer course in art. He was there on a research grant. He is pursuing a doctoral degree in East European history.

Pictured is the attractive paperweight (white marble adorned in maroon and silver color) which is being given to each individual who donates \$25 or more to the university this 25th anniversary year. We have had to place our third order for these special and prized mementos. For those who have not yet made their donations, a copy of the gift card is printed below.



Paperweights mark giving

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Plastic reefs draw food for Caribbean islanders

Small man-made reefs located in Bahamian inshore waters are attracting large numbers of fish, and could soon provide an economical food source to supplement the diet of local islanders, an F.I.T. researcher has found.

Over the past year, Dr. William S. Alevizon has directed a team of F.I.T. biologists who have installed and monitored 14 artificial reefs at various locations near Deep Water Cay. The study site is located at the east end of Grand Bahama Island, about 60 miles east of Freeport.

The study tested the feasibility of establishing artificial reefs throughout the Caribbean region to provide a high protein food source in locations convenient for islanders.

The research effort marked the first study in which artificial reefs were used as a means of concentrating and harvesting specific species of fish — grunts and snappers.

The reefs, constructed of PVC pipe and concrete blocks, were of varying shapes and installed in different types of nearshore habitats. Reef size also varied from a single unit to several units.

"Reef size, shape or location, did not appear to greatly affect the recruitment of the targeted fish. Each reef attracted large numbers of grunts and snappers," said Alevizon. Other marine life attracted to the reefs included over 30 species of fish and spiny lobster.

Alevizon said that the reefs have already paid for themselves. The reef materials for each unit cost only about \$60. Each reef unit has already yielded about 35 to 50 pounds of fish at an estimated wholesale value of \$70 to \$100.

"Large numbers of these reefs installed in selected inshore habitats in the Caribbean could yield hundreds of tons of fish per year," said Alevizon. He noted that this could help provide an economical, high protein food source for Bahamians and other in-



Dr. William Alevizon

creasing island populations of the Caribbean region.

Alevizon said more work is needed to complete his study, and he is seeking further research funding. The first year of the research effort was made possible through a

\$23,000 private research grant.

"The main thing we need to do now is determine the best harvesting method that will yield the maximum number of fish per

reef unit," Alevizon said. "We also plan to slightly modify the design of the reefs to make them more durable and productive," said Alevizon.



Reef is attraction

A reef built of concrete and PVC (plastic) pipe draws food fish to a fishable spot in the Caribbean.

Shipbuilders provide 'real world' classes at F.I.T.

Ingalls Shipbuilding Division of Litton Industries in Pascagoula, MS, offered during the Spring Quarter a series of seminars on the "Methodology of Shipbuilding Design" to graduate and undergraduate students enrolled in ocean engineering. The seminars are to continue in the fall.

The seminars were presented by Ingalls engineers as lectures within the "Ocean

Engineering Systems Design" course. That course is required for all ocean engineering students.

"We are trying to close the gap between our educational training and the hands-on job experience these students receive once they go to work for the shipbuilding industry," said Dr. John C. Sainsbury, chairman of F.I.T.'s ocean engineering program.

He helped organize the Ingalls seminars.

Sainsbury explained that Ingalls is providing F.I.T. students with the mechanics of how work is actually done at the shipyard.

Ingalls is the third largest shipyard in the country with 10,000 employees. A prime government defense contractor, Ingalls produces and overhauls combat ships for the

Gift floats

Tropigas of Florida was the donor of a pair of lifeboats that will allow creation of a facility at the Jensen Beach campus for training in lifeboat procedures. The boats came from the Fred H. Billups, an ocean going tanker that carries 800,000 gallons of propane. The aluminum lifeboats are each 26 feet in length, and weigh 3,800 pounds. Tropigas is a wholly owned subsidiary of Tramway International Corporation. With the boats are (left) Douglas Wulfflett of Tropigas and Charles Kneller of F.I.T. marine operations.

Navy. A variety of off-shore oil drilling rigs have also recently been constructed at the shipyard and sold commercially.

"We are teaching students the methodology of shipbuilding design, which includes everything from the conceptual to the detailed design phases of shipbuilding," said seminar instructor Robert H. Slaughter, of Ingalls' Advanced Technology Division.

Slaughter explained that students learn how ship design specifications are developed. The seminars also provide insight into "state-of-the-art" computer applications.

"We initiated the pilot program at the request of F.I.T. students," said Slaughter. He added that such programs help the company recruit engineers.

Currently about 14 F.I.T. graduates are employed at Ingalls. "We are very impressed at the thoroughness of these F.I.T. graduates in their jobs. They never presume they cannot do something. No matter how difficult the task is, they figure out how to go about it and get the job done," said Slaughter.

Story by Mary Deese

