

The Pelican

A Newsletter for the F.I.T. Family

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Center On Oceanfront

A ceremonial opening of **F.I.T.'s** newly acquired Indian River Marine Science Research Center was staged recently to mark the addition **of** the unique resource to the university.

President Keuper cut a **ribbon** to **signal** the start of an F.I.T. development program at the site that will produce **both** a leading research facility and a museum and educational center to directly benefit the public.

Joining Dr. Keuper in the ceremony were representatives of the U.S. Depart. ment of **Education**, the university, and of **local governments** that **played** a vital part in **making** the center **a** reality.

"I am pleased the university could make this acquisition through a cooperative effort between F.I.T. and the local communities, city and county governments, and federal agencies," Dr. Keuper said.

"This puts F.I.T. in the position of being one of **the** very few **institutions** of higher learning fortunate enough to **possess** an oceanfront site for **these** important research and **educational** activities," the president added.

The approximately **four** acres of land formerly a **missile tracking** station and **declared** surplus by the federal government — is **located** off Highway **A1A** where the **city** limits of Vero Beach and Indian **River** Shores meet.



OPENING — A ceremonial ribbon was sliced recently to mark the addition to the university of an Indian River Marine Science Research Center. Among those attending were, from left, John Simmons. Ralph Johnson, Mayor Ed Nolan of Indian River Shores, President Keuper, F.I.T. Trustees Chairman Dr. Junes Lyons. James Warner of the U.S. Dept. of Education, Alma Lee Lay and Don Deeson of the Indian River County Commission, and Suzanne Boden, vice mayor of Indian River Shores.

In an initial phase of development, the university will complete, in general, renovations of grounds and three structures at the site. That work, costing about \$30,000, is to be completed within about three months.

Next, the university will convert one building at the site into a research laboratory at a cost of about **\$160,000**. The project, expected to be completed within **15** months, will create **faculty offices** as well as areas for research in marine biology, chemical oceanography, ocean engineering and ocean **technology. Reno**vation of a **building** for **use** by a **resident** director **of** the center **will** come later, at a **cost** of about \$30,000.

A final phase of the work that is currently planned will create an educational marine museum at a cost of about **\$200,000.** That facility, **available** for public use, is to be developed within four years.

Two Added to Board of Trustees

Mrs. Victoria Peteruson **Gildred** has been elected to the university **Board** of Trustees. She is president and founder of the **Victoria Gildred** Foundation for Latin American Health and Education.

A resident of Miami, Mrs. **Gildred** is vice president of **the** Florida-Colombia Partners, the international **relations** organization headquartered **at F.I.T.** She is former national secretary for Partners of the Americas.

Mrs. Gildred is international coordinator of scientific exchanges between Latin American schools of medicine and the University of Miami School of Medicine. She is a member of the Caribbean-Central American Action Task Force, a



Mrs. Shephard

representative of health affairs for the Florida Consular Corps, honorary consul of Colombia in Miami Beach, and member of the Governor's Council of International Development. Mrs. Helen Shephard has been elected to the university Board of **Trustees**. She is the widow of Dr. Donald L. Shephard, a trustee at the time of his death in September.

A resident of Port **Huron, Mich.**, and of **Delray** Beach, Mrs. Shephard served on the board of directors of Empire **Tool** Company in Memphis, **Mich.** The company was founded by Dr. Shephard.

Involved in other **business** endeavors and an active traveler. Mrs. **Shephard** has **also** devoted time to the Daughters of the **American** Revolution, Eastern Star, and **the American** Legion **Auxiliary**. Mrs. Shephard is also a member of the **Port** Huron Country **Club**.

Campus Notes

Maureen Naze, coordinator for the Graduate School. and Judith B. Carter, graduate admissions marketing coordinator were invited to represent the university at the 1980 Advancement Learning and Planning Seminar. The seminar. sponsored by the Federally Employed Women and Federal Women's Program was held at the Patrick Air Force Base Officers Club.

Sara B. **Howze**, FRESH coordinator. was the featured speaker at a recent meeting of Pan Am World Services. Inc., Management Club. "Nonverbal Communication" was the subject of her talk. The meeting was held at the Holiday Inn on **Merritt Island**.

Terry Pace of the Academic Services staff attended the Southern Bell "Communication Counselor's Seminar" recently at Jacksonville. Among other subjects, the many features of the "Dimension" system were explained in detail. F.I.T. has the "Dimension*'System.

Biological **Sciences** faculty and students participated in a number of scientific meetings during the past month. Dr. Glenn M. **Cohen** presented a paper on his research at the annual meeting of the Society of Neurosciences in Cincinnati, Ohio.

Dr. Kenneth L. **Kasweck** and students M L. **Little**, J. T. Snyder, and **M. J**. Kirvin presented two papers at the annual meeting of the Southeastern branch of the American Society for Microbiology at Birmingham. Alabama.

Dr. John G. Morris attended the conference of the Southeastern Wildlife Agencies at Nashville. Tennessee.

Dr. Richard L. Turner represented F.I.T. at the annual meeting of the Society of the Sigma Xi **scientific** research society at San **Diego.** Dr. Turner also presented a lecture on his research at the University of West Florida.

Both Dr. Roger **Manley**, head of Management Sciences, and Dr. Chuck **McNichols** of the Air Force Institute of Technology presented a paper at the 20th Anniversary Conference of the Interuniversity Seminar of Armed Forces and Society at the University of Chicago. The papers were "A Longitudinal Examination of the Moskos Institution-Occupation Model," and "Differences Between the Work Attitudes of Military and Civilian Personnel in the U.S. Air Force."

Dr. **Eleanor** E. **Storrs** and **Dr**. **Arvind** M. **Dhople** of the Medical Research Institute recently gave lectures at a joint meeting of the First Congress of **Hansenology** of the Endemic Countries and the Thud Brazilian Congress of **Hansenology** in **Rio** de Janiero. (In Brazil. leprosy is referred to as **Hansen's** Disease.)

On her way to Brazil Dr. Storrs visited Dr. Jacinto Convit, Director of the National Institute of Dermatology of Venezuela. They discussed the **possibility** of obtaining animals from that country for use in studies'on polymorphism now being conducted jointly by MRI and Louisiana Tech University.

At the meetings in Rio, Dr. Storrs was a member of the Experimental Hanseniasis Panel, and presented a paper on "The Role of Armadillos in Hanseniasis Research." She also gave a lecture at a refresher course for physicians and medical students on the history and causes of Hansen's disease, and was chairman of the free communications session on Microbiology and Experimental Hanseniasis. Dr. Storrs was elected deputy vice president of the Congress.

Dr. Dhople served as a member of the **Microbiology** Panel, and presented a paper on "Fundamental Problems of **Culti**vating Hansen's Bacillus in Cell-Free Systems." He also discussed collaborative **programs between MRI and Dr. Lygia**

Cezar de Andrade of Brazil, and Dr. P.L.A. **Niemel** of the Ministry of Health of Surinam in which his method for measuring the efficacy of **drug** treatment would be evaluated on patients in those countries.

His procedure is based on measurement of ATP levels in bacteria isolated from human and armadillo tissues. This work is supported jointly by WHO and the Victor Heiser Foundation.

Dr. **Pieter** S. **Dubbelday**, of Physics and Space Sciences recently published a pair of papers. Appearing in the Navy Research Laboratory (NRL) Memorandum Report 4312 (**Oct.** 23) was "Contribution of Antisymmetric and Symmetric Waves to the Reflection of Sound in a Fluid **by** a Thick, Homogenous Plate." And appearing in NRL Report No. 8372 (**Sept.** 29) was "Effective Shear Modulus for Flexural and Extensional Waves in an Unloaded Thick Plate."

Dr. Marcelo Alcaso, director of F.I.T. Research Engineering Inc., recently participated in the International Energy Symposium at Knoxville, Tenn. The gathering allowed preparatory work for the 1982 Worlds Fair. which has energy as its theme. Dr. Alonso chaired a session dealing with alternative policies for improved energy production.

Dr. Alonso also participated as a panelist in a conference on "Energy: A Challenge for Business," organized by the International Chamber of Commerce and staged in Lisbon. And Dr. Alonso was a moderator and presented a **paper** at the International **Scientific** Forum on Geopolitics of Energy, held in Fort Lauderdale **recently.** The paper was on the subject of **energy** and development of countries that import oil. Dr. Norbert W. O'Hara, head of Oceanography and Ocean Engineering, recently attended the Annual Society of Exploration Geophysicists Meeting in Houston. He chaired an international workshop there sponsored by the U.S. Geological Survey to produce a gravity map of North and Central America. Dr. O'Hara also attended the Geological Society of America annual meeting in Atlanta, where he met with the National Research Council Committee on Geodynamics.

For many years Jim Knight has been completing lettering and graphics for the library. But he is no longer able to devote his spare time to this job, so passed his **equipment** and **knowldege** to staff me ber Diane Steward. One of her contributions has been the direction signs hanging throughout the library. In addition, she has **printed** new **labels** for the shelves in the library.

Sally Hatton, Lois Sigler, Judy Henson and Tori Smith recently went to BCC's Cocoa campus to see a demonstration of BCC's Ohio College Library Center terminal and to discuss procedures for use of the terminal.

Mary Alice Treat, member services coordinator for the Southeastern Library Network, recently came to the library to train the technical service and interlibrary loan staffs on the computer system in the library. As a result of the training, the staff is now able to produce **cards** through the Ohio College Library Center system. System messages indicate when the cards **have** left Ohio. By using another sub system, the staff is able to communicate with other libraries for interlibrary loan purposes. Tori Smith. interlibrary loan technician, sent the first request for Dr. Ray Work, while he waited.

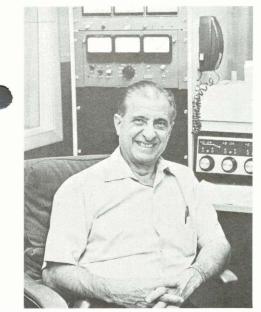
Dr. Robert H. Fronk, head of Science Education, served on a State Department of Education Committee in early November, a body formed **by** the Commissioner of Education to review Florida Southern College. The committee spent three days at the college, conducting a review that occurs every five years.

Dr. Margot **Haberhern**, assistant professor in Humanities, recently delivered a paper at **Interface** '80, the annual meeting of the Humanities and Technology Association at Southern Technical Institute at Marietta. Ga. Dr. Haberhern's paper was titled. "The Dehumanization of the Art Object."

Registrar George S. Jones III has announced the appointment of **Mrs. Sheryl** C. Baker as university assistant registrar. She replaces **Darn** Helms, who left the university (and the Melbourne area) after five years of service. Mrs. Baker has served as field registrar for **the** University of Maryland.

Happy Holidays from The Public Relations Dept.





Sonny Marble

Radio Volunteer Honored

By **Pam** Smith

Herb "Sonny" Marble, a **classical** music expert who logged his 500th program as a volunteer **broadcaster** for Radio **WFIT**, was honored **by** the university.

President Keuper hosted a luncheon in Marble's honor, thanking the Harris Corp, employee for "the contribution of your time and talent that has so generously been given since almost the beginning of the radio station in April of **1975.**"

The graduate of the **Brooklyn Conser**vatory of Music credits his continuing **eagerness** to serve the radio station to positive responses he receives from young people who listen. Marble's ''Music at Dusk" program is heard twice a week.

"Classical programming has actually become very. very popular." Marble

Underwater Sound Is Studied

Dr. **Pieter S.** Dubbelday, professor of physics, has received a pair of grants from the Navy that **vvill** allow **expansion** of **hydroacoustic research** he has underway.

One of the grants will support continuing work on the application of hot-film **anemometry** to the **measurement** of particle velocity in **hydroacoustics.**

The focus **of the** work is the **detection** of low-frequency sound waves moving through water. In hot-film **anemometry**, the cooling of a heated wire is a measurement for the swiftness of a current in the water.

The second grant is **also** keyed to low-frequency sound in water, but concerned with the production of such sound.

Dr. Dubbelday explained that the project on "Development of a **Toroidal Ferrofluid** Projector" **hinges** on the **use** of ferrite **particles** suspended in **water**. The **ferrofluids** act as liquid **magnetic** material. The application being developed for such liquids is the production of low-frequency sound waves that **can** travel great distances in water.

"Up to now the work has been as a paper **design**," Dr. Dubbelday said of **his** work with the **technique**. "The present work is aimed at building an **actual** sound **source** based on this **principle**." Graduate student Mark Ptak is **assisting** with the project.



Volleyball Coach Kathy Kennedy and players review strategy

Volleyball Nets Trophy and Basketball Bounces In

The just-completed season of the women's volleyball team brought a second-place trophy from the National Association of Intercollegiate Athletics for Women state championship. The team, coached by Kathy Kennedy, also saw **Brazilian** junior Carla **Lacerda named to** the **"all-regional"** team picked after Southeast tournament play. F.I.T. finished fourth.

The best **record** on the **books** for an F.I.T. **soccer** team was created this year. Mike **Eldridge's** kickers posted **15** wins and seven losses during the season, earning a fifth-place ranking among Florida colleges.

Crew team **visits** to Boston and Tennessee brought strong showings that prompted Coach Bill **Jurgens** to say,

explained. "People think that only old people listen to it. They're **crazy.** The majority of my listeners are young people.

Marble works in the Programs Test section of Harris **Semiconductor** in **Palm** Bay. He was a research analyst at F.I.T. when he **began** his volunteer work for the fledgling radio station. Unhappy with the manner in which classical music was being aired, Marble **accepted** the challenge of packaging it himself.

Radio **WFIT, which** can be **heard** at 89.6 megahertz on the FM **dial**, broadcasts with **8.000** watts of power. Marble's three-hour programs **are** at **6:00** p.m. on Thursdays and Sundays.

The **non-commercial** station is operated by F.I.T. students, and assisted by community volunteers such as Marble.

The **acknowledgement** of F.I.T. as an aesthetic **landmark** in the City of Melbourne came recently as the **municipality** provided an award for the university.

"Congratulations! FIT. has been awarded the 1980 Beautification Award for Schools and Institutions," said a letter from the *city* to President Keuper.

Computer Due

By Eddle Brock Director of Computer Center

I am very pleased to announce that the new IBM **4341** computer **will** be arriving in late **December.**

It will be replacing the two IBM computers that currently support academic batch programming and administrative requirements. The academic processing will be transferred to the **Academic** Computer Facilities.

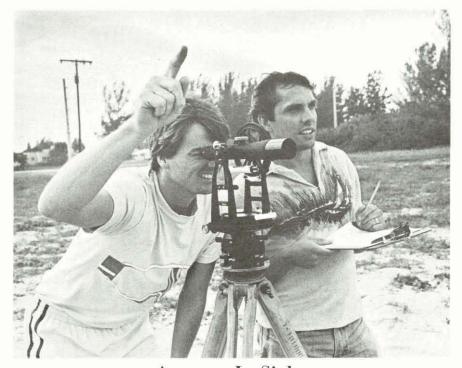
The **4341** will cost **less** money. but will be approximately five **times** faster, and **have** four times the **memory** of the current computer. It will provide the **necessary computer** resource for further develop ment of the **university's** on-line systems.

Currently there are some sixteen **appli**cations being **processed** on-line through **TV-like terminals.** Four new on-line applications **are** currently being **programmed**, and another four are in the **planning stage**.

"come the spring season, we're optimistic. Fall baseball, also a prep for spring

competition, saw **Les** Hall's players **post** nine wins against five losses.

Basketball is underway, with home games Dec. 19 and 20 for the F.I.T. Tournament. Coach Roger DuFour's squad will also see home stands on Jan. 3, 7, 10, 12, 17, and 19.



Answers In Sight

Graduate students Mark Hansen, left, and Rick Hushla help collect the beach measurements that will determine erosion rates. At right, students Robert O. Johnson, left, and Jay Gorzalini, center, help Dr. Terrell Roberts collect biological samples.

Sand Watch

What happens to an eroded beach after it is rebuilt by humans? What happens to the new sand added by man? What happens to the marine organisms living in the beach area?

Those questions are among the many facing an F.I.T. team scrutinizing a \$3 million beach rebuilding project now underway at Indialantic and Melbourne Beach.

The F.I.T. study, supported by a \$22,000 grant from the Army Corps of Engineers, will go beyond traditional monitoring of such work.

Dr. Donald Stauble, a principal investigator along with Dr. Terrell Roberts, explained that an Oceanography and Ocean Engineering team will determine the manner in which the Atlantic Ocean molds the man-assisted beach, rather than simply determining how much the new sand is juggled.

Graduate students working on the project include Jay Gorzalini, Robert O. Johnson, Larry Parson, Mark Hansen and Rick Hushla.

Stauble is responsible for determining the fate of sand added to the beach, while Roberts is primarily concerned with the impact of the new sand on organisms both on the beach and living just offshore.

To determine how that process takes place, Stauble and Roberts have the use of information about the beach's natural changes that was collected by F.I.T. over a two-year period.

Both Stauble and Roberts will continue their studies for a year after the rebuilding work is completed, allowing scrutiny of the beach area through seasonal changes.





Dune Duties

Graduate student Jay Gorzalini, left, and Mark Hansen, right, help Dr. Donald Stauble record findings during a survey at the beach project site.