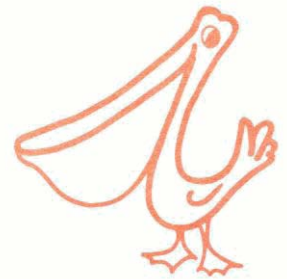


The Pelican

a newsletter for the F.I.T. family



VOLUME XIV

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NUMBER 10

Ocean program head named

The appointment of Dr. Iver W. Duedall, formerly with the State University of New York at Stony Brook, as head of Oceanography and Ocean Engineering has been announced by Dr. Andrew W. Revay, Jr., Dean of Science and Engineering.

Duedall is to begin service as a professor and department head in January. Until then, Dr. Dean Norris, associate professor of oceanography, will serve as acting department head.

Revay noted that Duedall "has had an outstanding record as an educator and researcher in the field of chemical oceanography."

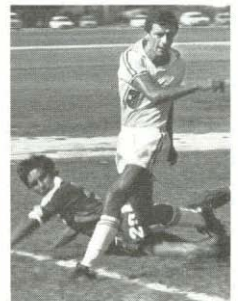
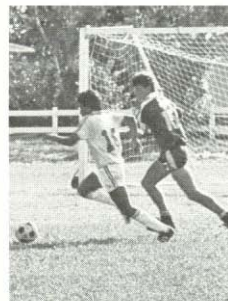
Duedall will be leaving a faculty where he has been a member for 10 years. He has been principal or co-principal investigator of fifteen research projects. In addition, he has directed master's theses and doctoral dissertations, and has published more than 40 scientific papers.

He also serves as editor of the six-volume John Wiley series, "Wastes in the Ocean," and is executive chairman of the International Ocean Disposal Symposium.

Soccer season kicks off . . .



A PHYSICIST of international reputation, Dr. Behram N. Kursunoglu served F.I.T. as the Summer Commencement speaker. Some 220 persons received degrees as various programs concluded for the summer. At Melbourne, Dr. Kursunoglu was awarded the honorary doctor of science degree. The speaker at Jensen Beach was Dr. Michael Heeb of the Environmental Protection Agency.



... see Page 3 for schedule.

\$1 million in support is reported received

More than \$1 million in grants and other funds directed to the university have been reported received during the summer by the Public Affairs Department.

Uses of the money range from installation of a second elevator in Crawford Science Building to funding the new library, energy research, and state support for engineering students studying at F.I.T.

"We are very happy about the progress we've made this summer," said Tom Adams, Vice President for Public Affairs. "The needs of the university can be met only by an ongoing quest for resources. Fortunately, the F.I.T. faculty and administration have been more than willing to pitch in and help us secure these resources."

Adams said \$375,000 in grant support was secured by the Development Office within Public Affairs, under the direction of Ralph Johnson.

The grants included \$25,000 from the Conn Memorial Foundation, Tampa; \$10,000 from the Denius Foundation,

Orlando; \$25,000 from the Charles A. Frueauff Foundation, New York City; \$200,000 from the Kresge Foundation of Troy, Mich.; \$50,000 from the Arthur Vin- ing Davis Foundations, Jacksonville; \$25,000 from The Henry L. and Grace Doherty Charitable Foundation, New York City, and \$40,000 from the Edyth Bush Charitable Foundation, Winter Park.

Adams said the State of Florida has contracted with F.I.T. for a second year of assistance in filling a critical need for electrical, mechanical and ocean engineering graduates.

For the current fiscal year selected F.I.T. students in those disciplines will have available \$248,000 in supplementary tuition grants. The supplements allow Florida residents to attend F.I.T. at a tuition cost equivalent to tuition in the state university system.

"The new funding will mean that F.I.T. can assist Florida, and can benefit from the many talented students this program will

allow to attend our university," said Adams.

The State of Florida has also provided to F.I.T. a \$200,000 grant to support research in the alternate energy areas of solar and biomass (the conversion of organic waste to energy), according to the vice president.

Adams also announced that Brevard County has provided a \$20,000 grant to support F.I.T. operations. The annual support makes it possible for F.I.T. to extend numerous benefits to county residents, such as use of university library facilities at no cost.

The new F.I.T. library received another major funding boost as a result of the sale of property given to the university by the DeBartolo Corporation, developer of a regional mall in Melbourne. Adams said \$200,000 for the library project resulted from the sale of land in Central Florida, given to F.I.T. for a university-related facility site. Because such a use for the land was not possible, DeBartolo agreed to lease the land to benefit the library project.

Campus Notes

Dr. Albert Guy, visiting professor of physics, recently presented a paper entitled "An Extremum Principle for Reactions in Solid Solutions" to the American Institute of Mining and Metallurgical Engineers (AIME) annual meeting in Chicago, Ill.

He also delivered a paper at the recent E i t h European Conference on Thermo-physical Properties, held at **Baden-Baden**, West Germany. The paper is entitled, "Thermodynamic Analysis of Thermo-electric Defects and of Electrical Conduction in a Metal-Metal Couple."

Dr. Dean R. Norris, of Oceanography and Ocean Engineering recently presented a paper entitled, "Delimiting Dinophyses Species Using General Morphological Features," to the First International Phycological Congress held at Memorial University in St. John's, Newfoundland. The Congress included about 500 scientists from 35 countries.

The F.I.T. Chapter of the Society of Physics Students has been recognized as an "outstanding chapter" for the 1981-1982 academic year. The recognition of the F.I.T. Chapter was based on factors including the chapter's participation in national meetings of the American Physical Society in New Orleans and the American Optical Society in Orlando. The chapter was also cited for field trips and attendance at Kennedy Space Center events, programs, social events and membership growth. Chapter advisor is Dr. Guy.

Dr. **Kenneth L. Kasweck**, associate professor of Biological Sciences, recently completed a research appointment in the U.S. Department of Energy's Faculty Research Participation Program. Kasweck was assigned to Oak Ridge National Laboratory's Biology Division. His research involved studying molecular carcinogenesis.

Mark Geiger and Christopher **Modert**, both holding master's degrees in Oceanography from F.I.T., had their papers published in a book entitled: *The Role of Solar Ultraviolet Radiation in Marine Ecosystems*. The book is one of a series sponsored by NATO. Geiger's paper is entitled "Effects of **UV-B** Radiation on *Thalassiosira pseudonana*: A Preliminary Study." Modert's paper is entitled "Effects of **UV-Radiation** on Photosynthesis of Natural Populations of Phytoplankton." Both papers were co-authored by Dr. Norris, acting head of Oceanography and Ocean Engineering, Dr. Joel Blatt, associate professor

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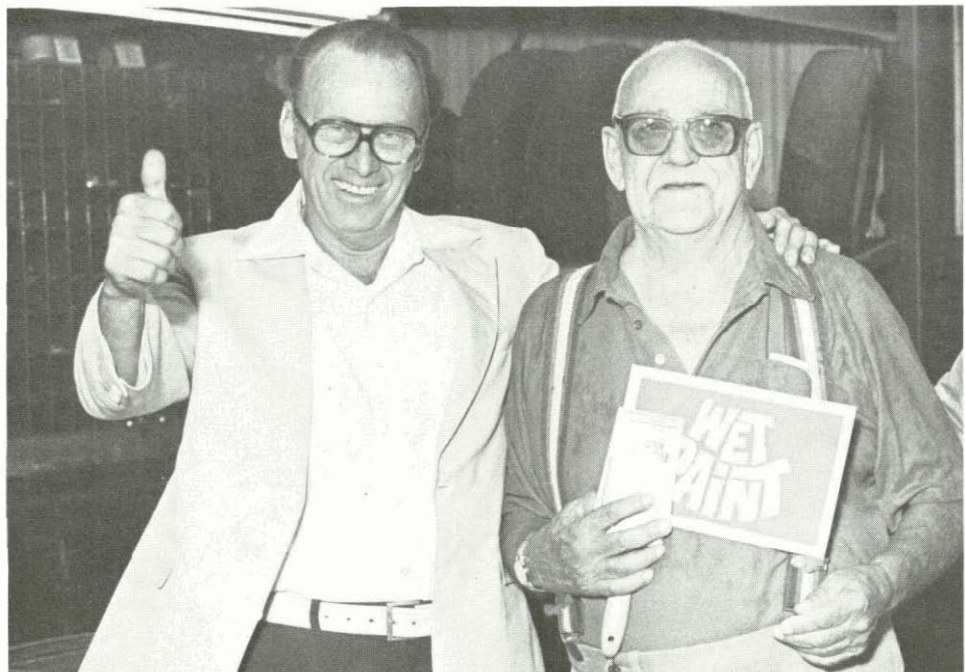
of Physics and Space Sciences, and **Raymond Petrilla**, a 1979 graduate of F.I.T. holding a master's degree in oceanography.

Dr. **Edwin F. Strother**, associate professor of Physics and Space Sciences, recently gave a presentation on his "photo-electric photometry studies of eruptive variable stars," to the Central Florida Astronomical Society at John Young Science Center in Orlando.

Dr. **Strother** also conducted the annual Summer Aerospace Workshop for secondary educators at F.I.T. About 14 educators representing various high schools nation-wide participated in the three-week workshop, which consisted of field trips, labs, observing and photographic sessions.

The **workshops** were conducted by F.I.T. in conjunction with NASA, the Air Force, and the Civil Air Patrol. Guest speakers from the local aerospace community participated. Educators also received graduate academic credit for their participation.

Dr. Jay Burns has announced that Miss Mildred Allen, retired professor of physics at Mt. Holyoke College, has added to her original gift that established the "**Saxl-Allen Graduate Research Fellowship**" in memory of Dr. Erwin Saxl. The fund is administered by Physics and Space Sciences to support experimental research in gravitation dong lines being pursued by Dr. Saxl prior to his death in January of 1981. Dr. Saxl was an Indianalantic resident for part of each year.



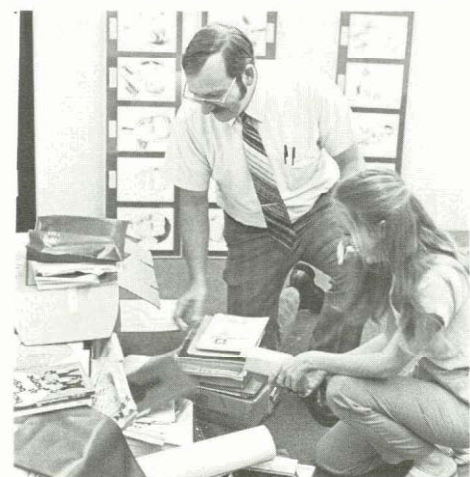
GORDON ROBERTS, who began work at F.I.T. in 1969, recently hung up his brush as painter supervisor. **President Keuper** was among the many who joined in a farewell gathering. **Facilities Director Steve Neville** termed Roberts' contributions to the development of F.I.T. an "impressive record."

WFIT will be looking both on and off campus for financial support during an Oct. 17 - 24 fund drive, according to General Manager **John Shaffery**. The FM station will improve facilities to accommodate live drama, among other improvements.

F.I.T. was recognized by members of the Prindle Catamaran Fleet 49 for supporting a recently held "Save the Manatee Weekend" - a fund raising event at F.I.T.'s marine research site at Vero Beach.

"They needed access to get down to the beach to launch their boats and we simply made F.I.T.'s facility available to them," said Dr. Dean R. Norris.

Steve Neville assisted in obtaining permission of government officials for members of the regatta to cross the sand dunes.



MOVING PSYCHOLOGY to a new home was recently the task before faculty and staff including Dr. **Charles Corman**, Dean, and secretary **Thoa Spirito**. The School of Psychology was relocated from the Crawford Science Building to a southern portion of the campus. In the same vicinity, work is underway on a building to house **Biological Sciences** research, and on another to accommodate the **Off-Campus Programs** headquarters and offices of **American Society for Aerospace Education**.

Astronomer arrives

Dr. Terry Oswalt, an astronomer formerly of the Ohio State University faculty, has joined Physics and Space Sciences, it has been announced by Dr. Jay Burns, department head.

The Indiana native received his Ph.D. in astronomy from Ohio State in 1981. His bachelor's degree in astronomy was earned at Indiana University.

"Dr. Oswalt's special areas of interest are stellar dynamics of close binary star systems, and spectroscopy of white dwarf stars," said Burns.

Oswalt noted that his ongoing research work at F.I.T. will utilize data collected at large national observatory facilities.

He and wife Barbara have a daughter, Amanda. The family resides in Suntree, north of Melbourne.

Co-op boosted

Dave Ridgley, director of Placement and Cooperative Education, announced that David T. Smith has been appointed Cooperative Education coordinator for F.I.T.

Smith's position was made possible through a new \$32,000 federal grant for the expansion of the university's Co-op program. The grant was awarded by the federal Department of Education's Office of Procurement and Assistance Management.

"We have set a new goal for increasing the total number of students from 60 to 80 enrolled in our Co-op program over the next year," said Ridgley.

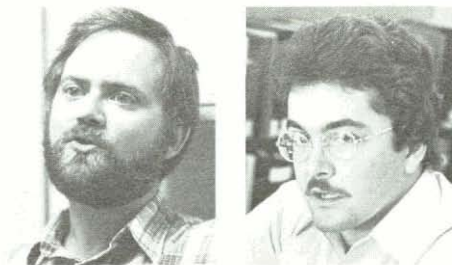
Smith's duties include helping students gain "on-the-job-experience" in the field of their major. He will recruit both local and national companies to participate in the university's co-op program. He will also visit F.I.T. co-op students at work and meet with their supervisors.

Smith holds both a bachelor's degree in political science, and a master's degree in education from the University of Maine.

His prior work experience includes service in the Army, and work as assistant principal and teacher for the Van Buren, Maine, secondary school system. For the past two years, Smith has served as manager of Northern Forest Products (a fencing and cedar shingles manufacturing company) also located in Van Buren.

UPCOMING HOME SOCCER MATCHES

- Oct. 2,3 — F.I.T. Invitational
- Oct. 10 — Florida Southern
- Oct. 13 — Florida International
- Oct. 16 — Atlantic Christian
- Oct. 20 — St. Leo College
- Oct. 23 — Flagler College
- Oct. 26 — Rollins College
- Oct. 30 — Florida Atlantic



Dr. Terry Oswalt

Bruce Fleury

Librarian new

Bruce Fleury has joined the Library staff as head of Reference. He brings to the post 12 years of experience in circulation and reference operations at college libraries.

"It is going to be a real challenge moving into our new library," said Fleury. "I think I am well prepared, since I reorganized some 275,000 volumes in Cornell University's Law Library, as well as the University of Rochester's Engineering Library."

A native of New York, Fleury received his bachelor's degree in general science and psychology from the University of Rochester. He later earned his master's degree in library science from the University of South Florida.

"Of all the jobs in the library, I think that reference is most exciting . . . When the phone rings I really don't know what someone is going to ask, and I enjoy the challenge of helping them locate information," said Fleury.

Sellars appointed

The appointment of Susanne Sellars as marketing analyst for the Graduate School has been announced by George S. Jones, administrative assistant for Academic Services.



Susanne Sellars

Sellars new duties will include recruiting graduate students, maintaining statistics on graduate student enrollment, and supervising the publication of the graduate catalogue.

Sellars, a native of York, holds a bachelor's degree in fine arts from Virginia Polytechnic Institute and State University. She has served as cultural arts director of Campbell County, Va. for the past two years.

Sellars resides in Palm Bay with husband Bruce, who is currently pursuing his doctoral degree in clinical psychology at F.I.T.

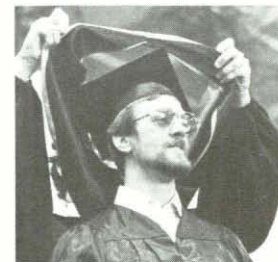
Graduation cheered

It was a very special moment for Larry F. Crowe as he crossed the graduation platform in F.I.T.'s Gymnasium during Summer Commencement ceremonies. Crowe, who is blind, received a standing ovation as he was awarded his master's degree in systems management.

Dr. John E. Miller, vice-president for academic affairs and executive vice-president of F.I.T., noted the university's pride in Crowe's achievement.

"I was simply delighted it was all over. My wife (who is also blind) had been critically ill during the summer quarter. Yet, even at her worst, she constantly encouraged me to persevere in my course work," said Crowe.

Crowe, a senior data-base analyst with Computer Sciences Corporation at Kennedy Space Center, has been blind since he was 3½ and was stricken with spinal meningitis.



Larry Crowe succeeds

TODAY newspaper photo

Crowe said he has never considered his blindness a handicap. He has always managed to stay abreast of his course work. He said that his method for taking notes involves using a hand-held slate and stylus which enables him to print raised letters, and instantly review what he has written.

At work, Crowe uses a device called an "optacon." The device utilizes a small T.V. camera the size of a disposable lighter to translate printed matter into a raised array of characters.

Crowe attended F.I.T.'s off-campus program site at KSC, and said he plans to be a part-time instructor there.

Crowe and his wife Freda reside in Rockledge with their three children: Katina, age 9; Dawn, age 5, and Leslie, age 1.



ROTC CADETS from F.I.T. made their presence known at Fort Bragg, N.C., "Advance Camp" during the summer as the 15 seniors recorded a first-place score in rifle marksmanship out of 108 schools. With the spoils are cadets Barry Jones and Mark Bailey, and instructor Donald Vick.

Center for Student Development can help

By Glenn Feltz

Students experiencing emotional crises or facing difficult decisions often turn for help to the counselors at the Center for Student Development (CSD).

The center, located at the corner of West University Boulevard and Country Club Road, provides counseling and other psychological services to all members of the F.I.T. community.

"Our primary focus is on providing personal counseling for students, faculty and the staff of the university," said Dr. Richard Elmore, a counseling psychologist and director of the CSD.

"Most individuals who come to us are experiencing situational or developmental crises," said Elmore.

Problems associated with separation from home, inter-personal relationships, career decisions and other stresses related to college life are typical of matters dealt with by the CSD staff. The staff is comprised of graduate students and faculty from the F.I.T. School of Psychology.

Elmore is a new face at F.I.T. this fall. He left his post as associate director of the Illinois State University Student Counseling



Dr. Richard Elmore

Center to join the School of Psychology faculty.

He will be an assistant professor of psychology for F.I.T. and will direct the counseling psychology training program. Elmore received his bachelor's and master's degrees from the University of Georgia, and his doctorate from Georgia State University.

The work of graduate students in the CSD serves a two-fold purpose, Elmore noted.

Their number and diversity of interests

gives people using the center the advantages of varying approaches to psychological treatment, said Elmore. In addition the graduate students gain experience in the mental health field, under close supervision. The students are working under the direct supervision of clinical and counseling psychologists from the School of Psychology faculty.

"Both the clients and staff benefit from this arrangement," said Elmore. "Students get to work with clients of all ages and with a variety of problems, while the people benefit from the diversity in treatment approaches."

Elmore said he hopes to expand the CSD program in the future. "I want to extend services and (student) training to provide mental health information, and raise the community's consciousness about psychological issues."

Elmore said he hopes to also extend the CSD's services to include prevention through education about psychological problems. He wants psychology graduate students to offer lectures and workshops both on campus and in the local community.

United Campus Ministry changes staff

By Glenn Feltz

Since its inception 12 years ago, the United Campus Ministry Office (UCM) has continuously sought to complement students' academic learning with opportunities for personal growth. This year those efforts will be led by two new staff members — Rev. C. Gideon Forbes and Father Doug Bailey.

Rev. Donald Zimmerlee will serve as UCM coordinator for the fourth consecutive year. Zimmerlee, a retired Nazarene minister, has been a UCM member for five and a half years.

This year's programs and activities will be directed toward a "holistic approach" to human concerns, said Forbes.

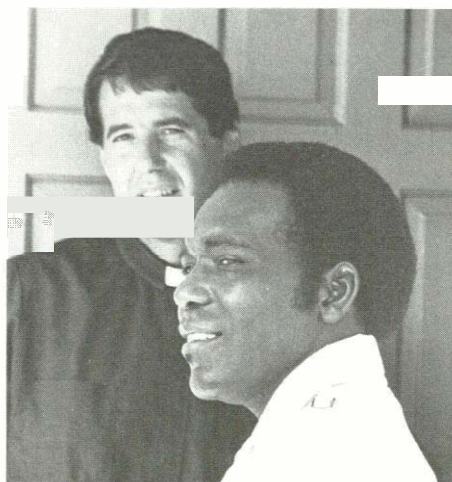
Forbes, a United Methodist minister, is a native of Trinidad, West Indies. He comes to F.I.T. from Louisville, Ky., where he served as vice president of the Wesley Foundation and a campus minister at the University of Louisville. Forbes has also worked in Belize, formerly British Honduras, as a pastor and educator.

Bailey, a Catholic priest in the Society of the Divine Savior, echoes that philosophy. "I think our ministry here involves several areas. For the individual student I hope to encourage personal growth in a spiritual way, and to make him or her feel comfortable on campus."

Bailey also stressed the importance of increasing students' responsibility to the university and local community.

Bailey comes to F.I.T. from Brescia College at Owensboro, Ky. Prior to that he served as a parish priest in Milwaukee.

UCM offers religious services weekly for students, members of the faculty and staff, and their families in F.I.T.'s Gleason Auditorium. Daily services are offered in the Ministry how, located at 2510 Country Club Road.



Father Bailey, left, and Rev. Forbes

Recognition of religious events includes all faiths, says Forbes. "We want all groups on campus to feel comfortable using us as a cornerstone for their organization," added Bailey.

Aside from religious events, UCM also sponsors activities ranging from canoe trips to picnics, beach parties, educational

opportunities, and community service projects.

Getting students involved with local service and charity organizations is another UCM goal. "Becoming involved in others' needs stimulates growth which carries into one's later life," says Bailey.

The UCM ministers are also a valuable counseling resource for students and other members of the F.I.T. community. "People often come to ministers for some personal counseling. We want students to know we are here," noted Bailey.

UCM's existence on F.I.T.'s campus dates back to 1970. Father Patrick O'Neill, a Roman Catholic priest, began providing services to students from a how on the corner of West University Boulevard and Country Club Road. O'Neill is now president of Biscayne College at Miami.

In September, 1974, Father George Moreau, Ph.D. took over as UCM director. That same year Moreau, also a counseling psychologist on the university's faculty, and President Keuper started the University Counseling Center. The center offered psychological counseling to the F.I.T. community and operated in conjunction with the UCM office.

Four years later, Moreau helped establish the Center for Student Development, a psychological service center directed solely by the university's psychology faculty.

The UCM office was then moved to its present location.