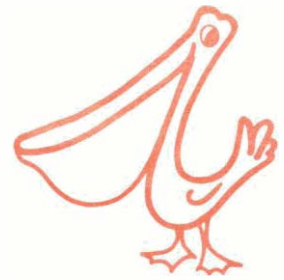


The Pelican

a newsletter for the F.I.T. family



VOLUME XV

APRIL 1983

NUMBER 4

Library contract signals construction work start



The dotted line

Attaching the necessary signatures to a construction contract for the planned Evans Library cleared the way for work to begin. Participating in the signing are Gary Goodwin (left), president of the construction firm, President Keuper and Dr. John E. Miller.

By Mary Deese

Information Specialist

F.I.T. has awarded a \$3.6 million dollar contract for construction of the new Evans Library to P.J. Goodwin Corp., of Memtt Island.

The construction firm has begun work on the project and completion is scheduled for May of 1984.

"We will have in excess of a 100 people working at the job site," said Gary Goodwin, president of the contract firm.

The new building, designed by Chicago-based architectural firm Skidmore, Owings & Merrill, will contain 68,915 square-feet and include seating for some 1,000 readers.

"The library will be the focal point of the campus, being centrally located east of the main administration building and north of the Link Engineering Building," said Dr. Rav A. Work Jr., Vice President for Administration.

"Attached to this will be a learning pavilion which will house a 185-seat teaching auditorium, a computing center containing microcomputers and a software reference library, and an audio visual equipment facility," said Dr. Work.

Dr. Work said that the total library project is expected to cost about \$5 million dollars. He added that although most of the project funds will go toward construction of the new building, remaining money will be used for furnishings, architectural and consultant fees, and other expenses.

Water study assigned

By Mary Deese

Information Specialist

Are low dissolved oxygen levels a natural occurrence in certain remote South Florida backwaters where there is a healthy aquatic environment?

Environmental Science Department professors Dr. Forrest E. Dierberg and Dr. Thomas V. Belanger were recently awarded a \$17,678 grant by the South Florida Water Management District (SFWMD), to conduct a one-year study of dissolved oxygen levels in South Florida backwaters and canals.

Aquatic life depends on the production and consumption of dissolved oxygen in water.

"Currently, the state standard for dissolved oxygen levels in recreational waters is five milligrams per liter. We think that this standard may be too high because in many natural Florida waters such as swamps and marshes, there is a healthy aquatic environment and dissolved oxygen levels were found as low as one milligram per liter during the day," said Dierberg.

Continued on Back Page

Wine festival will aid F.I.T. athletics program

A Melbourne Spring Bavarian Wine Festival that will feature non-stop music and entertainment, games, rides as well as German and American food has been scheduled for April 7, 8, 9, and 10 on campus.

Sponsored by F.I.T.'s Athletic Advisory Council, the event "is a genuine community event" that will see area civic clubs and F.I.T. student groups participating, said Bill Jurgens, one of the chairmen for the festival.

"The purpose of the event is to raise funds to support F.I.T. athletics programs," explained Phil Gaarder, another of the chairmen. Also chairing the event is Kevin Yelverton, a Melbourne City Council member.

The festival is to be staged at the F.I.T. athletics field on the northeast corner of the intersection of Babcock Street and Univer-

sity Boulevard. Parking is available near the festival.

"There really will be fun for all ages," said Jurgens. "In addition to amusement company rides and games, F.I.T. fraternities and sororities will be operating a variety of games."

The "Touch of Clara" band will provide a variety of German musical favorites and popular American music for the festival, he noted, and will be joined by dancers, cloggers and other musicians.

Wine, along with Busch and Budweiser Light beer for the festival is to be managed by the Sports Committee of the South Brevard Area Chamber of Commerce.

Pretzels will be provided by the Melbourne Kiwanis Club. Serving German food will be the Melbourne Jaycees. The Optimist

Clubs will handle soft drinks, while the Melbourne Beach-Indian Ocean Lions Club will provide pizza. There will also be available American favorite foods like burgers and popcorn.

Ride tickets for the festival are being sold in two packages. A \$5 package offers 10 ride tickets. A \$10 package includes 20 ride tickets and one free admission. All ride tickets purchased at the festival will cost 75 cents each.

At the gate, admission will be \$3 for adults, \$2 for senior citizens (age 55 or over) as well as students (through college), \$1 for children from age 7 to 12. Children under 7 are admitted at no charge.

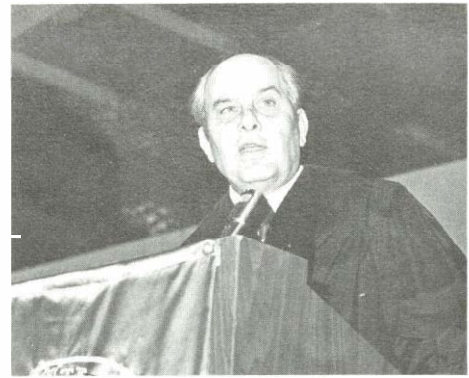
Tickets and additional information are also available from the Athletics Department, extension 227.

Campus notes

Dr. Kenneth L. Kasweck of Biological Sciences was recently certified by the U.S. Food and Drug Administration to test shellfish for microbial contamination.

Biological Sciences students and faculty recently attended a series of lectures on "Aging and Carcinogenesis," and "Control of Gene Expression During Aging," presented by Dr. Alan Richardson, professor of biochemistry at Illinois State University.

Dr. Llewellyn L. Henson, Director of Libraries, has announced several donations to the library over the past year. They include \$500 from Dr. Ruth L. Schmidt for the purchase of library materials, \$4,000 from Florida Power and Light for the purchase of library software and computers, and \$24,000 from IBM for the expansion of library materials in science, engineering, business administration and computer science.



Commissioner Speaks

Ralph D. Turlington, Florida's Commissioner of Education, was speaker for the Winter Commencement at Melbourne. The Commissioner, who lauded F.I.T.'s educational programs, received the honorary doctor of science degree.

Psychology Students Regarding Doctoral Training and Career Planning," by Dr. Richard Elmore and graduate student Alan Keck.

Dr. Bernabe also recently attended the annual meeting of the Human Factors Society.

Dr. Thomas Harrell of the School of Psychology attended the annual meeting of the Association for the Advancement of Behavior Therapy. At the meeting, Dr. Harrell presented papers on his research in pain control and assessment of depression.

Other School of Psychology papers presented included "Reinforcement Dimensions of Drug Use and Patterns of Drug Taking Behavior," by Dr. Philip Farber and graduate student James Owens, and "Cultural Difference in Self-Schemata: China and the U.S.," by Dr. William Gabrenya and graduate student Yeu-Eng Wang.

Lynn Reichert, assistant cashier, recently received her bachelor of science degree in elementary education from Rollins College, PAFB branch campus.

Dr. Wesley W. Shelton, associate professor for Electrical and Computer Engineering, recently co-authored a paper on "Triethyltin Toxicity and Brain Impedance," which appeared in the *Acta Neuropathologica*. Vol. 58, 1982. Co-authors included Dr. A.H. Nevis of the University of Florida and Dr. G.H. Collins of State University of New York Upstate Medical Center, Syracuse.



Two-bit arithmetic

Personnel Director Pet Murphy and President Keuper do their best to tally the good times to be had at an April 22 employees' celebration and dance, courtesy of 2,500 quarters donated by Professional Food Management. Dr. Keuper explained that he will use the PFM gift to the university to help pay expenses for the upcoming festivities, to which all full-time, non-faculty employees have been invited.

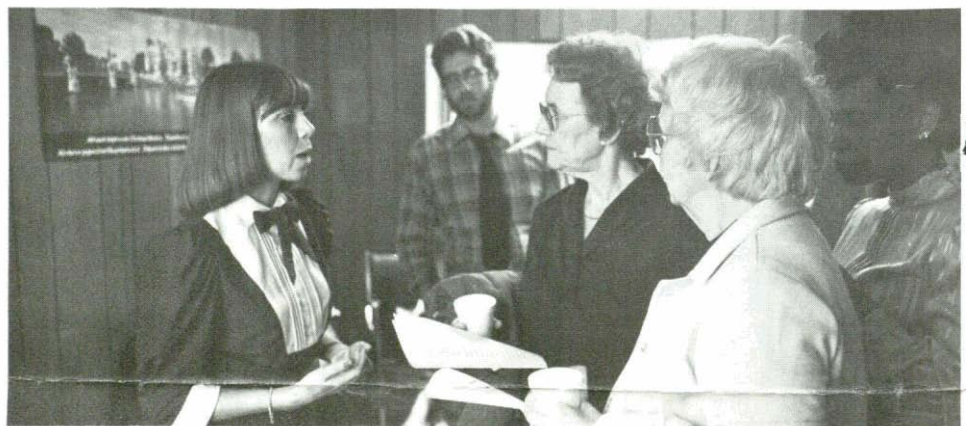
Dr. Arvind M. Dhople, head of the Division of Infectious Diseases at the Medical Research Institute, has received a \$20,000 grant from the German Leprosy Research Association.

The grant money will be used for Dr. Dhople's research on in vitro cultivation of the "M. leorae" organism. His research is aimed at obtaining the chromosomal replication of this organism. He is currently collaborating with scientists from Canada, Germany and the People's Republic of China.

Dr. Dhople also presented a paper on his leprosy research at the American Society for Microbiology meeting held in New Orleans. His paper is entitled, "Adenosine Triphosphate Content of M. leprae."

Dr. Michael W. Babich of Chemistry was awarded a \$20,000 grant by the National Science Foundation for research in solid state transition metal chemistry. The NSF grant money has allowed the purchase of a microprocessor-controlled thermogravimetric analysis system from Cahn Instrument Corporation.

Several papers were recently presented by School of Psychology faculty at the Southeastern Psychological Association meeting held in Atlanta. Papers presented include "List Length Effects as a Function of Stimulus Organization," by Dr. Barbara Bernabe, and "Initial Preferences of Clinical and



CSD Open House

Psychology senior Jasmine Salem tells visitors about a variety of services available to faculty and staff through the Center for Student Development during a recent open house.

Colombian journey planned

By Dr. Arthur Kimball
Executive Director
Florida-Colombia Partners

On June 12-19 the Florida-Colombia Partners organization, headed by President Keuper will make its biennial visit to Colombia. Dr. Keuper invites members of the F.I.T. family (administration and faculty) who desire to participate and who can be spared to join the group without loss of leave during their absence for this purpose.

On Sunday, June 12, those in this area will take F.I.T. buses to Miami International Airport. The entire delegation will fly to Bogota in Avianca's "jumbo" 747. The party will stay in Bogota's excellent Hotel Tequendama. Monday and Tuesday in Bogota will be available for shopping and sightseeing.

On Wednesday, June 15, the group will ride chartered buses across the beautiful and historic Department of Boyaca to the quaint ancient town of Villa de Leiva (population 6,000). The Hotel Mesopotamia there is one of the finest in Colombia. To quote from Edouard Bailby's "The Keys to Colombia", "this 16th century mansion hidden amidst the flowers was transformed by its present owner into a splendid hostelry, straight out of a fairy tale."

The XVIII Florida-Colombia Partnership Conference will take place there on Thursday, June 16, climaxed by a fitting banquet. Friday the group will return to Bogota Airport for a flight to beautiful Cartagena on the Caribbean Sea, and will check into the delightful Don Blas Hotel. There is much of history and beauty to be seen in Cartagena for which tours will be arranged on Saturday, June 18.

On Sunday, June 19, Avianca will fly the party nonstop back to Miami where the group from the Melbourne area will bus back to the F.I.T. campus.

The exact price cannot be quoted until arrangements for the land package in Colombia are finalized. It is believed, however, that a price of \$600 or less per person will be adequate for the basic tour including the round trip air fare, seven nights at fine hotels (double occupancy) and land transportation in Colombia.

Any members of the F.I.T. family interested in taking advantage of this opportunity to see Colombia and meet Colombians should call extension 261 to arrange to sign up, or drop a note in the campus mail to Florida-Colombia Partners.

Secretary celebrates

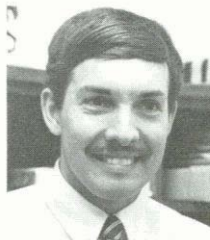
Marion Karchefski, administrative secretary to Joy Dickens in International Student Affairs, recently celebrated 13 years of service to F.I.T.

A native of Louisiana, Karchefski joined F.I.T. in 1970 as receptionist and switchboard operator for President Keuper.

She later served as acting international student affairs advisor and secretary to the then vice-president of student affairs, Dr. Ray Work, and to successor Dr. Barry A. Fullerton.

For the past decade, Karchefski has assisted in advising and helping foreign students enrolled at F.I.T. Currently, there are approximately 900 students from more than 80 foreign countries attending F.I.T.

"I enjoy helping people. Foreign students are constantly in need of our assistance. It has been an education working with them and a most enjoyable learning experience working for Ms. Dickens," said Karchefski.



Dr. Randall Alford



Marion Karchefski

Dr. Alford arrives

Dr. Randall L. Alford recently assumed the position of assistant professor of Applied Linguistics for the Language Institute.

A native of Dallas, Alford holds a doctoral degree in foreign language from Florida State University. He earned his bachelor's and master's degrees in German literature and language from Texas Tech University.

"I am really excited about the future of F.I.T.'s Language Institute. As Brevard County and Florida in general grow, they will become centers for high technology and industry. Therefore, there will be an even greater demand for English instruction as a second language and in foreign languages in the area," said Dr. Alford.

Dr. Alford has six years prior teaching experience as a college-level language instructor in both German and English.

A resident of Palm Bay, his hobbies include collecting antiques, reading and jogging. He also enjoys learning other languages. Currently, he is learning Spanish in his spare time.

Academy of Sciences visits

The 47th annual meeting of the Florida Academy of Sciences (F.A.S.) is to be held on the F.I.T. campus on Friday, April 8, and Saturday, April 9, drawing scientists from throughout the state.

Dr. Glenn Cohen, event chairman, said NASA Deputy Administrator Dr. Hans Mark will be the featured speaker for a Friday

afternoon plenary session of F.A.S.

The Academy members will gather for a Friday evening banquet and a talk on "The Fascinating World of Large Molecules," by 1982 F.A.S. Medalist Dr. George B. Butler of the University of Florida. The 1983 Medalist Award will also be presented to Dr. Harold J. Humm, of the University of South Florida.

Presentations of scientific papers are for both days, and a Saturday

highlight is a morning symposium slated on "Uses of Anthropology in Law, Business, Agriculture, Resource Management, and Community Development."

Dr. Edwin F. Strother of Physics and Space Sciences is the current president of the F.A.S.

The meeting is also being held in conjunction with activities of the Florida Junior Academy of Sciences, the Florida Science Talent Search, and the Florida Section of the American Association of Physics Teachers.

Judge joins Aero

Judge John E. Faulk, who recently retired from the National Transportation Safety Board as an administrative law judge, has joined the School of Aeronautics faculty.

His undergraduate degree was a B.B.A. in transportation from the University of Georgia, and he received his juris doctorate from Emory University Law School.

Judge Faulk, who is a pilot with a commercial instrument certificate and instrument rating, was also an administrative law judge with the Civil Aeronautics Board and trial attorney with the Interstate Commerce Commission.

The Judge has taught transportation and law courses at Northern Virginia Community College, American University, Southeastern University, Auburn University, and California State University, in addition to the Department of Defense Transportation School.

The native of Georgia and wife Amanda are Palm Bay residents.

Computer book is published

A book entitled "Computer Programs for Electronic Analysis and Design," authored by Dr. Dimitri Bugnolo of Electrical and Computer Engineering, has been published by Reston Publishing Co.

The book, designed as a supplementary text, offers students an efficient design tool for solid-state electronic circuits without the

need for tedious engineering calculations. The 26 programs offered in the text are usable on microcomputers. The programs are written in the BASIC computer language.

Bugnolo said the 200-page paperback book is to be available through the F.I.T. Bookstore.

South Florida lake under scrutiny

By Mary Deese

Information Specialist

The South Florida Water Management District (SFWMD), has turned to a researcher at F.I.T. to investigate the importance of groundwater seepage as a water source to a major lake under its care.

Dr. Thomas V. Belanger, assistant professor for Environmental Science, was awarded \$18,750 by the SFWMD to conduct the one-year study.

"The purpose of the study is to determine from direct measurement techniques the importance of groundwater seepage in East Lake Tohopekaliga, from both a quantity and quality standpoint," said Belanger.

The researcher explained that the study site, located off of U.S. 192 at St. Cloud, was selected by the SFWMD because they are currently involved in a detailed study to determine the amount of water and nutrients entering and leaving the lake over a one-year period.

"Seepage is the movement of water through the ground and into the bottom of the lake," said Belanger. He explained that water experts sometimes ignore the importance of groundwater seepage as a water source to lakes.

"Usually, sources of water to lakes — such as rainfall, surface water from streams and rivers — and various water losses such as evaporation and surface water outflow are directly measured. Groundwater seepage is usually estimated based on whatever is left over," said Belanger.

Belanger noted that in some Florida lakes, groundwater seepage has been shown to be an important annual water source. It also impacts the water quality of the lake by

transporting pollutants into the lake.

To date about 25 "seepage meters" have been placed in the lake to measure the amount of groundwater entering the sides and bottom of the lake.

"We will take weekly measurements to determine the amount of chlorides and nutrients such as phosphorous and nitrate being transported into the lake," said Belanger.

Water study underway

Continued from Page One

Dierberg explained that the research project will involve conducting various experiments at three remote sites including Belcher Canal in St. Lucie County, Armstrong Slough in Osceola County and Chandler Slough in Okeechobee County.

"The experiments will involve isolating and measuring the various components in a given column of water that consume and produce oxygen," said Dierberg.

The researcher explained that because most aquatic plants give off oxygen during the day and consume it at night, all ex-

periments must be conducted over a 29-hour period. The project will also determine seasonal variations in dissolved oxygen.

"We will be putting domes down into the water and taking sediment and water samples. So we will isolate certain biological and chemical components in the water that produce and consume oxygen," said Dierberg.

Dierberg said that some sediment samples will be exposed to certain poisons in the laboratory to eliminate biological organisms which consume oxygen.

"This will allow us to determine how much oxygen consumption is due to biological organisms and how much is due to chemical components in the water and sediments," said Dierberg.



Fancy rowing

Though it is not a normal part of the collegiate rowing scene, suits and ties were in order recently as Xerox Corp. snapped some pix for use in its advertising activities. Making a splash along with other oarspersons is Athletics Director Bill Jurgens. Can you spot him?

Crew team seeks title

The new season for F.I.T. rowers will see two at-home regattas. The Jerome P. Keuper Cup Regatta is slated for April 2 on Canal 54 of the St. Johns River Water Management District, located about 15 miles south of Melbourne. The Governor's Cup Regatta is scheduled for April 16 at the Melbourne Causeway.

Duplicating the performances of last year's crew team won't be easy for Coach Bill Jurgens' 1983 squad. But winning a second consecutive small college national championship is the goal.

"We know without a doubt that we're capable of doing it again," said Jurgens. "Before last year, we had gotten close many

times. To win it twice would be tremendous."

This year's schedule also includes the Miami International Regatta on April 9, regional championships at Oak Ridge, TN on April 30, and the Dad Vail Regatta (small college championship) at Philadelphia on May 13 and 14.

The coach said he isn't concerned with the loss of 11 of 25 varsity members from last year's squad. "We have good people to fill those spots," he said. "We will be strong."

Part of the Engineers' strength will come from a much improved women's team, said Jurgens. "The women's program looks to be the strongest we've ever had at F.I.T."

Realtors help

By Ralph Johnson

Director of Development

F.I.T. recently revised its Real Estate Donation Program, and we are pleased to report the first gift has been completed under the new program.

In this case, the participating realtor, Chuck Willis in Satellite Beach, was requested to list the property for the university. As a consequence, he has placed it on Multiple Listing Service and is endeavoring to sell it.

His cooperation with the university and with the owner in pointing out the tax benefit available is another example of the opportunities for registered realtors to earn a commission by assisting this university.

Now the participating realtors that steer donations to the university are immediately paid a 10 percent commission as a finder's fee the time the gift is made. This improved the situation significantly, as previously their commission payment was delayed until the sale of the property was accomplished.

Contracts have been signed with realtors in Brevard and Indian River counties, and presentations have been made to boards of realtors, realtors' sales meetings, and other groups. More presentations are scheduled.