Dr. Laura Mehta, head of the anatomy department, Grant Medical College, at Bombay, India, recently visited Dr. Arvind Dhople, head of the Medical Research Institute's infectious diseases division. The primary purpose of her visit was to begin a collaborative program in leprosy research. The main thrust of the program will be the study of nerves from amputated limbs infected with leprosy, as well as embryonic tissue culture. The two researchers also discussed the prospect of starting another collaborative project in India under the Indo-U.S. Science and Technology Program, aimed at developing new methods for detecting drug resistance in leprosy.

Also visiting M.R.I. was Dr. Jindrich Karda, head of the microbiology division of the Brno Research Institute, West Germany. He is coordinator of a collaborative program in the vitro cultivation of leprosy bacilli. That program involves Dr. Dhople and Dr. L. Kato of Catherine Booth Hospital Center in Montreal. Drs. Karda and Dhople reviewed progress in the work over the past six months, and planned future work.

Dr. James A. Rigney, professor of chemistry at University of Prince Edward Island, Canada, is visiting professor at Chemstry for the Fall Quarter. He is currently on sabbatical leave, and is pursuing interests in the chemistry of marine plants, and completing a series of articles on characterics in undergraduate biochemistry laboratories.

Dr. Donald Stauble, professor in Oceanography and Ocean Engineering, presented a paper at the 19th International Coastal Engineering Conference in Houston. The paper, entitled, "An assessment of beach nourishment sediment characteristics," reviewed ongoing research in beach nourishment technology. The conference is held every two years to increase coastal engineers from around the world to share information.

Stauble and graduate student Jeff Hoel attended the annual meeting of the Florida Shore and Beach Preservation Association in Vero Beach Island, Florida. The association is composed of coastal engineers, scientists, managers, and local and state officials who are concerned with erosion control and other coastal management problems.

Grace R. Wylie, assistant professor for the Language Institute, spent four weeks during the summer studying the Japanese language and culture at a branch of Showa University in Fuyukoji. On the main campus of Showa in Tokyo is one of Asia's foremost teaching hospitals.

Dr. Bruce Raifer of Physics and Space Sciences presented a talk on "observation of the W-spermasts stars" to the Department of Astronomy at the University of Florida, serving as colloquium speaker. His preliminary work on the binary stars has also been published in the journal of International Amateur-Professional Photoelectric Photometry, and will appear as a chapter in Microcomputers in Astronomy II. Support for his research totaling $50,000 has been announced by the National Science Foundation, Research Corporation, and the American Astronomical Society.

Susan Downey has joined the Public Affairs Department as chief of graphic arts. She received her B.S. in design from Brancoll College. Originally from Fairchild, CT, she worked for Boenksamer, Inc., in Connecticut as a designer of educational books for Reader's Digest McGraw Hill, and of books for Arlyn & Bacon of Boston. Melbourne was an assistant for National Printing.

Residents of the Eau Gallie area for three years, she and husband Bob -- a professional photographer -- are avid windsurfers. They have won several local and statewide regattas.

Warren Woodrow became a full-time faculty member for Aeronautics with the start of the Fall Quarter. He is a graduate of the Naval Academy with his degree in aeronautical engineering, and attended the Naval Post Grad School. He is completing work at F.I.T. on the M.S. degree in space education with a computer option. He is a pilot and airborne navigator with 500+ hours, and has extensive experience in aircraft maintenance and data processing. He and wife Mary are Palm Bay residents.

Amanda Mykko, a F.I.T. honors graduate in interior design/flight technology, has become an associate member of Aeronautics. Now an MBA candidate, she is a flight instructor, and an airframe and powerplant technician.

HUNGRY HUSTLERS?

Mr. and Mrs. John C. Akvizon of Boston.

L. Cntr, Martian Hea, who is completing his MBA in business management, F.I.T. fall campus program at settridge ANS Raw.

Michigan, has received the Chief of Naval Operations Aviation Supply Excellence Award that honors the Navy's best supply officer. He is in charge of P-3 Orion anti-submarine aircraft squadrons. F.I.T. center director, Eric French, congratulates him for outstanding work as an intern during the summer.

Dr. Charles D. Bache has joined Electrical and Computer Engineering as associate professor. He has extensive industrial experience, and for seven years was director of research and development at the Florida Solar Energy Center at Cape Canaveral. He earned his M.S. in electrical engineering at New York University, and his Ph.D. in that discipline at the University of Colorado. His research interests are in non-linear systems, adaptive systems, and signal processing.

Kend Hathaway has received a $750 grant from the Old Coast Association of Geologists to financially assist students committee to aid in his thesis research. Hathaway is in the physical oceanography program. He will be involved in determining the relationship between microseismic activity and ocean waves.

Microseisms, the continuous background noise recorded by seismometers, are often associated with ocean wave activity. In some cases the correlation is surprisingly high; Oregon State University has used seismometers as land based "wave meters" during WWII microseisms were used to track ships in the North Atlantic. However, the system was not very reliable due to the complex nature of the phenomenon. Hathaway's study will provide insight into the generation and propagation of microseisms.

Hathaway, to study the microseisms production on the Gulf Coast of Florida, at F.I.T.'s Vero Beach facility, and on the coast of northern California. The study is being conducted with the assistance of Anita Wooldridge, an M.S. candidate under the direction of Dr. Steven Costa. The grant will help cover transportation costs, electronics, and supplies needed for the research.

Dr. John C. Hustler, Hollister-Lequeur Associate Professor of Biological Sciences, has levered the Environmental Protection Agency for molecular and cytogenetical studies on oncogene in lung cancer. Oncogenes are thought to be cellular chromosomal materials that control growth. However, under some circumstances, oncogene is switched on, resulting in the uncontrolled growth that is cancer.

Dr. L. Randal L. Alford, Director of the Language Institute, has been invited to be guest professor at the Institute of Linguistics on the campus of Victoria University in Toronto.

Alford has also been invited by the Who's Who Board of Advisors for a biographical inclusion in the 19th edition of Who's Who in the South and Southwest, a publication in Who's Who in America. He has also been selected for a profile in the 1985 editions of Personalities of the South, and The Directory of Distinguished Americans.

Mark Ramower will be teaching air navigation at F.I.T. His M.S. degree in aeronautical operations is from California State University, and he holds an associate degree in mathematics. He has been Boeing 727 pilot for Pan American World Airways, and flew four-engine aircraft for the Air Force. He also piloted the Air Force's super sonic T-38 Talon fighter aircraft. His three-child family lives in Melbourne Beach.

Visitors from afar
A group of officials from the People's Republic of China visited F.I.T. on their stop during a journey to gather information about coastal processes. Dr. Dean Horine and Don Stubbs of Oceanography and Ocean Engineering were hosts. Pictured with delegation member Tan Tzhe Hsiao and Dr. slate Beagle, adjunct faculty member,
Aviation training is real

The "Summer 84 Training with Industry" (TWI) program administered by the School of Aeronautics was one of the largest ever. Over 300 Aero students trained with the aviation industry, both overseas and in the U.S. One student was placed with Scandinavian Airlines, another with Nigeria Airways, and a third interned at Munich International Airport.

In this country, the interns' employers included the Florida Lauderdale Executive Airport; Mall Airports in Albany, NY; Midway Express at Atlanta; the Aircraft Owners & Pilots Association, Washington, D.C.; Lynx Aviation at Pittfield, MA, and Union Carbide Flight Management at Danbury, CT.

The TWI program has grown steadily under the guidance of Dean Constantine, a 13-year faculty member for Aeronautics. He works with students to identify a suitable aviation enterprise where the student can undergo management training. Normally the student participates in TWI for 11 weeks prior to his or her final quarter at F.I.T. The internship experience is then the subject of a report presented at a hearing for students preparing for the TWI program.

Often, the TWI student is offered permanent employment at the internship site after graduation.

Car burns the "press," impresses researchers

For Markus Bowman, the phrase "power of the press" — or, more precisely, the power of newspapers — has taken on new meaning.

And it has nothing to do with the lofty jargon of media critics.

For the past six months, Bowman, an 18-year-old Melbourne resident, has been running his 1976 Fiat with a mixture of gasoline and liquid partially derived from newspapers.

Bowman's car is a guinea pig of sorts.

The sleek, black sports car is being used by two of Melbourne's Florida Institute of Technology professors trying to develop an efficient liquid fuel additive made from materials with a high cellulose content. Newspapers fit the bill.

So far, the professors say, their results are encouraging.

Bowman agrees. Just recently his car chugged out 34 miles per gallon using the shredded newspaper mixture. With only about 27 miles to the gallon, according to unleaded gasoline in the tank, the Fiat gets about 110 miles to the gallon using the new fuel.

"It's great," says Bowman. "It's an excellent experiment."

"We don't think we have the ideal agent yet," says Thomas, "but we think there's a good chance we might come up with it."

For the past two years, Thomas and Barrie have been experimenting with different biomass materials derived from living things to produce a fuel additive to one day replace ethanol.

Newspapers, sawdust, sugar or other products with a high cellulose content can be used in the process, but Thomas says "we have been so far using additive materials that compete with food supplies. Nobody is eating newspapers these days."

Ethanol, on the other hand, is usually made from corn. It tends to corrode engines and can only be used in small quantities (about 10 to 20 percent mix with gasoline) before engine adjustments must be made, says Thomas.

The F.I.T. researchers believe their newspaper-based additive can be produced more cheaply than ethanol and will be a more efficient fuel.

One of the major questions restecology is that which are the inherent long-term changes in coral reefs," said marine ecologist William Alevizon. "Are the fishes stable after the reefs, he said. "By having a permanent record and adding the data, you can see if you're really getting better at assessing changes." In June, Alevizon and two assistants returned to the reef and made "a map", a record of the flora placed under a $9,300 grant from NOAA. The result was an overpressing series of views of the protected underside, talian and the overall reef.

Alevizon said the 2-minute film contained much more information than just fish populations. By comparing those films with video tapes made 10 years later, Alevizon would have a clear indication of how the reef environment changed over time.

"What we're going to do is compare the changes, if any, look at the fish populations 10 years later, the percent of live to dead coral and the changes in a zone of the other animals that grow on the reef," he said. "By having a permanent record and adding the data, you can see if you're really getting better at assessing changes." In June, Alevizon and two assistants returned to the reef and made "a map", a record of the flora placed under a $9,300 grant from NOAA. The result was an overpressing series of views of the protected underside, talian and the overall reef.

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Alumni survey reveals interesting facts

Below are responses to some pertinent questions asked on our survey conducted last year. Included are only those questions that 16% of you were interested in knowing about. For complete results, please contact the Alumni Office.

Number of surveys received: 1200
Response rate: 8%

1. Alumni working in major
   - Arts 
   - Business 
   - Law 
   - Science 
   - Other 
   - No 

2. Income range
   - $0-$25,000 
   - $25,001-$50,000 
   - $50,001-$75,000 
   - $75,001-$100,000 
   - $100,001-$125,000 
   - $125,001-$150,000 
   - Over $150,000 
   - No 

3. Comments on F.T. Experience
   - Favorable 
   - Unfavorable 
   - No 
   - No comments 

4. "Update" articles of interest
   - Alumni notes 
   - Campus news 
   - Research news 
   - Feature articles on alumni/ 
   - Articles on research 
   - All others 

5. Alumni who attended Alumni Weekend

6. What factors prevent alumni from attending
   - Course of study 
   - Shortness of time 
   - Cost of lodging 
   - Cost of traveling 
   - Family obligations 
   - Other 
   - No 

7. Time of year alumni prefer for Alumni Weekend
   - June 
   - July 
   - August 
   - September 
   - October 
   - November 
   - December 
   - No 

8. Did you ever made a donation to
   - No 
   - Yes 

9. If you have not donated, why not?

Annual Giving Donors abound

Annual Report summary

ANNUAL GIVING:
1982-83 1983-84
$3,000.00 $14,172.30

BREAKDOWN
Bay a Book Donations
$3,554.80
Athletic Donations
$50,000.00
Miscellaneous Donations
$217.60
Increase in Annual Giving almost 400%.

ALUMNI CLUBS: EXISTING
Pascagoula MS
Tapel Taverna
Alumni Travel Program
Huntville, AL

BEING ORGANIZED
Philadelphia, PA

IN PLANNING
Northern New Mexico
Dallas, TX

ALUMNI ADDRESSES:
Alumni Notes
Campus News
Research News
Features on alumni
Articles on research
All others

SUMMER VACATION PROGRAM:
Profits
$223.38
$1,415.61
Attendance
30
19

ALUMNI WEEKEND:
Profits
$19.90
$30.00

ALUMNINADMISSIONS RECRUITMENT:
Alumni Admissions
Volunteers
$10
$10
(less than 10)

NEW AND EXISTING ACTIVITIES:
Job Search Assistance
Pre-Graduation Activities
Publications: Alumni Volunteer Admissions Training Manual
Alumni Club Organization Manual

Wedding belle & beau

Lawfully wedded FIT alumni [see index] Sally Harrington (B.B.,M.A.), 50 - and Joe Ekelman (B.B.,B.E.,'79), both former members of Ekelman

R. Layne Dubose 1967 68
Richard Polley 1968 69
George Radford 1969 70
James Plumb 1969 70
Donald Murrell 1969 70
Phillip Maxwell 1969 70
Frederick Burgett 1970 71
David Greenfield 1970 71
John Kingsley 1970 71
Robert Copeland 1970 71
William Sandusky 1970 71
Bernard Fuchs 1970 71
Nicholas Rodolophous 1970 71
Edward Beattie 1970 71
Joseph Fields 1970 71
John Danilison 1970 71
Robert Mathewson 1970 71
Carlos Casto 1970 71
Peter Tozzi 1970 71
David Kriegman 1970 71
Vernon Ausherman 1970 71
Michael Dancen 1970 71
Edward Stidkwosky Jr 1970 71
David Beall 1970 71
John Vincent 1970 71
Paul Joly 1970 71
George Morris 1970 71
Terrence Applebee 1970 71
Gary Busko 1970 71
Thomas Water 1970 71
A. Vito Kamikas 1970 71
Paul Phillips 1970 71
Arthur Murphy 1970 71
Stuart Mendelson 1970 71
Robert Schmeler 1970 71
Roy Highbury 1970 71
Dallio Herbeu 1970 71
Gerald White 1970 71
Victoria York 1970 71
William Deeter Jr 1970 71
Jeffrey Bass 1970 71
Henry Biscardi 1970 71
Robert Heidinger 1970 71
Betty Preece 1970 71
Hugh Wilson 1970 71
Roy Amend 1970 71
Carl Rizzo 1970 71
Robert Phebus 1970 71
Manuel Figueroa 1970 71
Paul Bernhard 1970 71
Marc Michalovski 1970 71
Fred Komorsky Jr 1970 71
Thomas Stewart III 1970 71
David Robinson 1970 71
Carl Wagner 1970 71
Bruce Limber 1970 71
Judith Milholen 1970 71
David Hardie 1970 71
Allyn Saunders 1970 71
Rebecca Bass 1970 71
John Omenbo 1970 71
Leonel Enriquez 1970 71
Richard Ankener 1970 71
Evan Paterson 1970 71
Charles Wortz 1970 71
John Schramm 1970 71
Robert Houston Hill 1970 71
Craig Calabrese 1970 71

Recruiting looking for you!

We encourage all alumni in the following areas to drop by and meet our F.T. representa- tives on the road. This is an opportunity for you to see the changes in F.T. as well as talk to some alumni who work at the respective campuses.

NOVEMBER 1984
11/14-11/15 - Cleveland National Fair, Convention Center, Bob Row (MLB), Faith Aiken (IBC)
11/28-12/29 - Milwaukee National Fair, Downtown Civic Center, Patti Larson (MLB), Faith Aiken (IBC)

ALUMNI WEEKEND 1985
April 13, 1985
Look forward to great events and Campusnews.
Dear Alumni:

I hope your summer was relaxing and prosperous! Ours was pretty quiet here in Alaska and our summer vacation program ran smoothly and we've been planning, planning, planning!!! I think you'll find lots of interesting information and opportunities in this issue, so read carefully and get involved. I'll be visiting several areas this fall and have many alumni interested in starting alumni clubs. If you are interested in getting involved, please let me know. We'll be organizing in the following areas:

Phaludelphia, PA
Southern CT - General Dynamics/Electric Boat
Northern NV and surrounding areas
Dallas, TX
Hartford, CT
The first-ever F.I.T. alumni directory is coming and we still need more email data. Also, we need to find correct addresses if some of you still have correspondence going to your parent's address. So please help! We'd like to make the directory as perfect as possible.
Keep in touch!

Judi Marino

P.S. SPECIAL CONGRATULATIONS

TCS: James Bryan (B.S. Computer Science, '79) and Glenn Bunting (B.S. - O/E - Bio '76, for providing $1 with National Exposure on the cover of U.S. Secret World Report, August 12, 2003.

WERE WE VERY PROUD OF YOU!

Campus news capsules

- Dr. George C. Webster, professor and head of Biological Sciences, has been awarded a $81,000 grant by the American Federation for Aging Research. Dr. Webster reported his investigation of "the control of gene expression as a factor in senescence." The research will focus on the genetic mechanisms that influence the lifespan of C. elegans, and how it pertains to birth defects. Dr. Webster is working part-time at the University of Arizona.

- Edward Walach, Jr., associate professor in the History of Science Program, has been named director of the Program at Laughing Air Base, TX. Edward will now work at Westover Air Base.

- Pamela (Winneker) Tech, third-year student in the Computer Science Program, has been named director of the Program at Laughing Air Base, TX. Edward will now work at Westover Air Base.

- Jared Heintz (B.S.) recently took an active role in the lab assigned to the project of studying a new type of cancer.

- Stephen J. Cunningham (B.A.) has moved to Gainesville, FL, with his son. Keith. He is a professor of operations management at Florida State University.

- Frank Thomas (B.S.) is currently working with the Army as a transportation officer. The Army and military aviation system manager. He and his wife live in Detroit, MI.

- Jhonny Joe (B.S. Trans. Mgmt.) is a transportation officer with the Army. James and his wife live in Fort Lauderdale, FL.

- Otto Lee Hallap (B.S. MBA) and wife Phyllis are currently residing in Yorktown, VA.

- Michael Saxton (B.S. Air Comm.) is currently working with the Army as a transportation system manager. He and his wife live in Fort Lauderdale, FL.

- Robert Miller (B.S. Air Comm.) has just been appointed as an assistant operations supervisor. He will be living in Naples, FL.

- William James (B.S. Air Comm.) is working with Aviopco Inc., a division of Lear Siegler. He is a customer service representative by license in New York.

- Charles Johnson (B.S. Air Comm.) is currently employed by the State Police in Concord, NH.

- David London (M.S. - Contract Mgmt.) has graduated from the Air Force Institute of Technology.

- Keith Van Rens (B.S. - Bio.) is currently working as a forensics chemist with the Canadian Department of Justice.

- Edward Welsh, Jr., (B.S. - Mgmt.) has been promoted and reassigned after completing three years as a logistics instructor at the Army Logistics Management Center at Fort Lee, VA.

- William James (B.S. MBA) is currently working as a forensic chemist analyzing evidence for controlled drugs for the New Hampshire State Police.

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