Pioneer in lasers joins UCF

A scientist considered by peers as a world leader in his field has joined UCF's Center for Research in Electro-Optics and Lasers (CREOL). Dr. Luis Elias from the University of California at Santa Barbara, where he led researchers in developing the first biological and material science free-electron laser (FEL) research facility.

Prior to directing the UCSB program, he worked with John Manley in the development of the first FEL at Stanford University in 1987. Dr. Elias is a member of the prestigious National Academy of Sciences.

Elias, who heads the CREOL Center for Research in Electro-Optics and Lasers, explained that with his recent move to Central Florida his research lab will be able to take on an expanded role in developing high power FEL technology that has important applications in science and medicine.

"The electrostatic accelerator developed at UCSB under Elias's guidance provides the proper energy of electrons to create a very long wavelength FEL that can be manipulated for different uses in medicine," said Dr. Frederick Norcross, interim dean of UCF's College of Arts and Sciences.

Elias, who has won numerous awards in his field, explained that the FEL is a source of intense light. Because the electrons are bound to either atoms or molecules, in conventional lasers certain wavelengths cannot be generated. In FELs, however, the electrons are free, and can be forced to radiate at any wavelength, Elias explained.

The electron accelerator developed at UCSB under Elias's guidance provides the proper energy of electrons to create a very long wavelength FEL that can be manipulated for different uses in medicine. A major interest lies in the use of FELs in biomedical research and application. "Beyond the cutting and curing that lasers are used for so successfully now, he said. He envisions a time when high-powered FELs will be beamed into operating rooms using a network of mirrors. The most promising of possible FEL applications is its use as an artisinal system. As noted in Scientific American, "In one such scenario for such a system, an FEL, would produce prodigious power... which could be directed through the atmosphere to eradiate mirrors that would then direct the radiation toward enemy missiles shortly after launch." Elias, in turn, speaks of CREOL as a gathering place for top scientists from around the world who would use its facilities in tandem with full-time faculty at the center. "That would be a wonderful environment in which to work," he said.

CREOL growth curve soars, pushed by new discoveries

The director of a high tech research center at UCF predicts the current growth curve in his branch of science has more life than most researchers dreamt of. Dr. M. J. Soileau, who heads up CREOL (Center for Research in Electro-Optics and Lasers), indicated that with its recent move to Central Florida its growth curve soars.

search Park, the center has acquired a breathing room for project development. "A lot of technology must be developed before the laser applications can be incorporated into real life applications," Soileau said. At CREOL, scientists are diving into ultra-refractive film technology. They are looking for optical materials that can be used to change the frequencies of lasers. The costs of optics and laser research is a fact of life that Soileau must face every day. A $1.5 million grant from the Defense Department's Advanced Research Projects Agency he expects this summer will be a welcome addition to its budget.

"The costs of optics and laser research is a fact of life that Soileau must face every day. A $1.5 million grant from the Defense Department's Advanced Research Projects Agency he expects this summer will be a welcome addition to its budget. The laser is a tool you want to play with," Soileau said. The 75,000-square-foot Arts Complex, Police Building, Phillips Hall in design stage

The Board of Regents this week asked architects to bid on the design for two new UCF buildings and the remodeling of another.

University Planning Director Jerry Osterhaus said he expects this Friday's issue of the Florida Administrative Weekly to carry invitations to architects to design UCF's $8.6 million Arts Complex, the $10 million dollar Science Facility and the $800,000 Howard Phillips Hall remodeling. It will be October or later before contracts with design firms can be signed, he said.

The 75,000-square-foot Arts Complex is to be located between Gemini Boulevard and the Education Building and is to include large teaching studio spaces, classrooms, offices, gallery space and a 500-seat lecture auditorium. The Security Facility (for campus police) is to be located near the Physical Plant and will include 7,000-plus square feet of floor space.

Some scattered Arts & Sciences departments will be relocated in the remodeled Howard Phillips Hall, which now houses the College of Business.

The Arts Complex, which is being funded by a $325,000 state appropriation, is to include a 200-seat auditorium, a 2,000-square-foot gallery space, a 100-seat lecture-auditorium and a 100-seat lecture-auditorium.

The Arts Complex is to be located near the Physical Plant and will include 7,000-plus square feet of floor space. Some scattered Arts & Sciences departments will be relocated in the remodeled Howard Phillips Hall, which now houses the College of Business. Osterhaus expressed continued satisfaction with progress being made by Absher Construction Company on the building of the Arts Complex, a future home of the College of Business. He hopes now that "substantial completion" will occur before Christmas. The contract does not require completion until March 15, 1989.

Meanwhile, PDR Architects Inc., hired to design UCF's $10 million stadium for football, has been holding on-campus meetings with groups of concerned students to find out what should go in the building and its location. The probable location is in the northeast quadrant of the 1,027-acre campus.

Also, Osterhaus informed, architects have completed conceptual schematics for relocating Florida Solar Energy Center from the old basin at Cape Canaveral to the UCF/Rockwell Campus in Cocoa. The next stage will result in advanced schematics, he said.

Legislature gives salary increases

University salary increases passed by the 1989 Legislature include the following:

Faculty: 4.1/2% overall in base, effective at the beginning of the contract period, but no earlier than Aug. 7, plus 2% in base salary increases, effective Jan. 1, 1989. For A&P: 4 1/2% overall in base at beginning of contract period, but no earlier than Aug. 7, plus 4% in base salary increases, effective Jan. 1, 1989.

Graduate Student Assistants: 4 1/2% overall in base, effective at the beginning of contract period, but no earlier than Aug. 7, plus 4% in base salary increases, effective Jan. 1, 1989. For A&P: 4 1/2% overall in base at beginning of contract period, but no earlier than Aug. 7, plus 4% in base salary increases, effective Jan. 1, 1989.

Other effects of 1988 legislation on UCF will be covered in the next issue of the UCF Report.
Grant Opportunities

"YOUNG SCHOLARS PROGRAM" (NSF)- Young Scholars Projects should be designed to enhance high school and junior high school students' knowledge of and exposure to science, mathematics and engineering as careers to facilitate the making realistic decisions based on the full range of career options available. Due Aug. 9.

"PROJECT GRANTS TO STRENGTHEN PROGRAMS IN MATHEMATICS, SCIENCE AND COMPUTER LEARNING" (FLORIDA DEPARTMENT OF EDUCATION) - This competitive grants program is intended to financially support projects that significantly relate to one or more of the five areas of interest: 1) Programs to attract experience of teachers of elementary through secondary school teachers in math, science and computer education, 2) Training programs to enable teachers to make better use of scientific and technical equipment, 3) Establish traineeships for new or future science and math teachers, 4) Retain secondary school teachers who want to become certified teachers of mathematics, science or computer learning and to provide in-service training. Due July 1.

"SCHOLAR-IN-RESIDENCE PROGRAM" (FULBRIGHT) - The primary purpose of this program is to assist in developing or enhancing an international dimension of academic programs at universities in the United States. Another goal of the program is to bring opportunities for those visiting scholars who have had little or no previous academic experience in the United States. Due Nov. 1.

"LONG TERM CARE RESEARCH" (HHS) - This program is to increase opportunities for the functionally impaired elderly and for teenagers, such as those at community based homes, to become involved in a network of safe caregiving. A grant must specify the function of personnel, funds and the areas where the need is the greatest, and so on.

Nurses recruited to teach public seat belt safety

Florida nurses will be recruited to promote the use of auto seat belts by adults and safely seat by children in a statewide project coordinated at UCF. The project is the first of its kind in which state funds have been allocated to conduct formal training programs and short courses for nurses, who will be asked to assume a leadership role in the prevention of injuries.

"My goal is to educate the educators to become involved in a network of safety advocates," said Frances C. Righi, RN, who headed a similar project for the American Nurses Association before joining the UCF Department of Nursing. A $51,000 highway safety grant awarded by HHS to the Florida Department of Community Affairs will permit Righi to implement the project.

"It's logical that nurses, as credible professionals, play a leadership role," said Righi.

"Training programs will be designed to meet the needs of particular target groups," said Dr. Ray S. Eichler, director of the UCF Center for Research, Development and Decision Making in Health Care. This includes public education for adults and safety seats by children in automobiles.

"A primary goal of the project is to increase the use of car seat belts by adults and children," said Righi.

Official memora nda

To: All Departments From: Joseph M. Gurney University Comproser Subject: Fiscal Year-End Closing 1987-88

Late purchases completed prior to July 1, 1989 will be certified and paid from 1987-88 funds, provided charges, including requisitions for travel reimbursements, are turned in to Payroll at Accounting by June 11, 1988. This includes full-time, part-time or travel, or other charges that are more than $55 and are completed by June 11, 1988. Items of $55 or less are normally not certified. Certification of 1987-88 charges are, of course, contingent upon the availability of funds in your respective departmental accounts and approval by the State Comptroller's Office. In order for travel to be paid from 1987-88 funds or certified from 1987-88 funds, the travel must be completed by midnight, June 30, 1988.

Interdepartmental transfers and warrant cancellations must be made in accordance with the Florida State Comptroller's Office, Office of Personal Services. The Office of Personal Services and the Sheriff's Office will locate immediately outside the office door. We believe the procedure will simplify the Sunshine Law requirement in a consistent and efficient way, and will minimize the work required by the committee chair to meet the requirement.

Your cooperation in assuring that all Search Committee chairs are made aware of this procedure will be greatly appreciated. Please circulate this information internally as appropriate.

Search Committee Meeting Notice

This Search Committee Meeting Notification is provided in accordance with Chapter 286.011 Florida Statutes. Position Title Meeting Date Meeting Time Meeting Location

---

To: All Faculty & Staff From: Computer Services Subject: Training Needs

In an attempt to discover exactly what kind, or level of training is immediately needed on campus regarding the IBM Personal Computer (DW3 & DW4), the DisplayWriter, PROFOS (Electronic Mail) and NBI-please first identify your training needs, then forward a memorandum to Bonnie Colier, Office Automation Specialist II, OCD, Room 207, no later than Friday, June 24. Your memo should include the systems to be trained on, the specific training desired, and a list of the people who need the training with a telephone extension to contact each person.

From these requests classes will be developed to cover the areas where the need is identified, and so on.

Thank you for your cooperation.

---

To: All Faculty From: L. P. Trefonas Dean of Graduate Studies Subject: Faculty Travel Support

The Ad-hoc Review Committee for Faculty Travel has met and awarded a total of $29,532.86 to faculty members for support of their travel for the period of July 1, 1987 through June 30, 1988. There were 116 requests for funding support and 103 were funded.

Submission of requests for travel during the period specified below should be submitted in my office by the indicated deadline dates.

Travel Period Request Deadline
April 1, 1989–June 30, 1989 May 1, 1989

Requests must be submitted on the form "Application for Funds to Support Faculty Travel" which are available from Ruth Paige in my office.

Requests will be considered only from individuals who occupy tenure or tenure-earning lines and who have, in advance, obtained a commitment for partial support at the department level or from alternative funding sources. Financial limitations of department only requests from individuals who will present papers or equivalent kinds of scholarly creativity can be considered for awards. The committee supports one trip per year for each applicant.

If you have questions which concern the request, please contact Ruth Paige, ADM243, x2197.

---

To: Vice Presidents From: John H. Bolte Subject: Posting of Search Committee Meetings

In order to comply with State of Florida Government in the Sunshine laws, the University must expand its system of providing public notice of search committee meetings and assurances that a uniform procedure is known and followed. To do so, each Search Committee chair is asked to forward such notices to the University Personnel Services Office, Administration Building, Room 230, at least two days prior to the scheduled meeting, using the attached format. The Office of Personal will place the notice on the Personnel bulletin board located immediately outside the office door. We believe the procedure will simplify the Sunshine Law requirement in a consistent and efficient way, and will minimize the work required by the committee chair to meet the requirement.

Your cooperation in assuring that all Search Committee chairs are made aware of this procedure will be greatly appreciated. Please circulate this information internally as appropriate.
Hank & Sue team tell accountants

what health is on their mind:

The his and her team of Hank and Sue Anderson have turned some of their late-found energies into a new cause—they've become missionaries of wellness on a national scale.

The 48-year-old director of the School of Accounting cast off all the life-shorting vices of a successful, sedentary occupation. He feels so good about the results he would like to share the benefits.

"My standing heart rate went from 60 to 42. I have the energy of a 25-year-old. I'm writing books at the rate of one a year," he testifies.

At 35 he did a turn-about in lifestyle, quit smoking, changed his diet and started a running regimen. His 5-foot-eight frame, at 160 pounds, carries 25 less than before reform. "I feel great. I run 30 to 35 miles a week and still get more work done than ever," he said.

Sue Anderson, this year's president of Town and Gown, and vice president of Friends of the Library, was already a health enthusiast. She was providing him to give up 50 cigarettes a day when their five-year-old son called his dad, "stupid." Something happened that made me decide he was right. I tried to play ball with the kids and my legs gave out in five minutes. That told me he was the smart one."

The four Andersons have started a togetherness devotion built around their healthy lifestyle.

Using their naturally-outgoing abilities, developed talents for public speaking and expertise gained in avid pursuit of ways to improve health they have put together a team speaking package.

Their first teamwork experience took place at Niagara Falls chapter of the National Association of Accountants, meeting in May. Their dinner-dressed audience of 150 was talked into taking off coats and ties, stretching and exercising, before they sat down to eat.

Sue, whose specialty is diet, went through the audience, pointing out foods that were not good for them, then advised what they should be eating. Hank used projected pictures to help portray the advantages of regular exercise.

As Dr. Henry R. Anderson he had so much experience lecturing on accounting that he was tired of it. He wanted to tell his fellow-professionals how to enjoy what they have been working for.

The change from shop-talk played so well in Niagara that the UCP threesome has been booked for wellness talks at NAA chapters in Fort Lauderdale next January and Baton Rouge next April.

The message begins: "What are the three things a doctor wants you to do after you have a heart attack?" He answers, "Stop smoking, eat light and exercise regularly.

"Our challenge is, 'Why wait for a heart attack to do those things?'"

Margaret L. White (Instructional Programs) was selected to serve on the Teacher Education Committee of the National Science Teachers Association, The Teacher Education Committee works to establish standards for the certification of science teachers throughout the nation.

Barbara L. Audkins (Nursing) collaborated with Dr. Gloria Gielland, Saint Hall University, to write Primary Nursing. PNP has just been published by Scott, Foresman/Title, Brown College Division. Jean C. Kliger (chair, Nursing) contributed chapter 7.


Anne Marie Allison (director, Library) attended an intellectual Freedom Development conference in Chicago on May 8 & 9, sponsored by the American Library Association. The broad issue of intellectual Freedom in Libraries focuses on censorship, the right to read, the right to know, copyright, and freedom of access to information. Allison was keynote speaker at the May 18 Academic Librarians Day, held at Michigan State University. Allison's talk focused on the FCLA (Florida Center for Library Automation).

People


Margaret L. White (Instructional Programs) was selected to serve on the Teacher Education Committee of the National Science Teachers Association. The Teacher Education Committee works to establish standards for the certification of science teachers throughout the nation.

Barbara L. Audkins (Nursing) collaborated with Dr. Gloria Gielland, Saint Hall University, to write Primary Nursing. PNP has just been published by Scott, Foresman/Title, Brown College Division. Jean C. Kliger (chair, Nursing) contributed chapter 7.


**

To: University Community
From: Joseph Gomez

University Comptroller

Subject: Issuance of TAR Numbers

**

All departments are advised that prior to requesting TAR numbers from F&A for individual or group travel, that authorized signatures must first be secured from designated representative from whose funds the traveler is paid. The traveler's and the traveler's supervisor's signatures are required in addition to the traveler's and the traveler's supervisor's signatures. These signatures certify that such travel is for official business and serves as the authority for F&A to encumber the funds. Effective immediately no TAR numbers will be issued by F&A travel unless these signatures are first secured. For the protection of the traveler, all official travel should be approved before commencing travel arrangements regardless of whether the University will incur a portion or all of the expense.

In the event that authorized individuals are not available, designated signatures should be obtained from the authorized signature file.

**

To: USPS Employees
From: Mark A. Roberts, Director

University Personnel Services

Subject: Personal Holiday

USPS employees who have attained permanent status are reminded that their personal holiday must be taken by June 30, 1988, the end of this fiscal year. Any personal holiday not taken will be forfeited at the close of business on June 30.

If you are not sure about whether you have taken your personal holiday for this fiscal year, you may check your biweekly leave report, or call Lois Hillman, Leave and Attendance Coordinator, 5777.

**

To: All Departments
From: Timothy Carroll

Bookstore Manager

Subject: Annual Inventory

The Bookstore and Office Supply will be closed for annual inventory on Thursday, June 30, and will resume normal hours on July 1. Please make a note of this on your calendar. Thank you.
**Chinese art display**

Visitors to UCF's main library can see an exhibit of 33 contemporary Chinese paintings on the second floor wall through July 6. The artist (top) is Xu Yu Ling, a permanent member of China Arts and Crafts Association and deputy general councilor of Wenzhou Arts and Crafts Association. He is promoting cultural exchanges at the China Pavilion, Epcot Center. Helping him prepare his exhibit is UCF librarian, Dr. Chang C. Lee.

**Top area high school scholars choose UCF as their university**

By Doris Pflaster

Twenty valedictorians and 13 salutatorians from Florida high schools will enroll in UCF this fall, joining 16 additional National Merit Scholars, who will also be attending classes here. Three of the Most Scholars ranked seniors number one or two in their graduating class.

In addition, 62 other students in the top two percent of their graduating high school class, with minimum grade point averages of 3.6, will enroll at the University.

According to Lawrence Tanzi, assistant dean of undergraduate studies, "UCF is receiving over 100 of the highest-ranked high school seniors from Orange, Seminole, Lake, Volusia, Brevard, Osceola, and Citrus counties."

Tanzi added, "The increase in attendance of high ranking students is due to the growth of the University. 'The quality of UCF has improved academically as well as socially, thus making the college more attractive to students,' said Tanzi."

Last year UCF received five valedictorians from around the state; this year the number has quadrupled. Tanzi explained that UCF's recruitment program has made prospective students aware of what the University has to offer. "When I talk with high school students, I don't pressure any of the students, but I do let them know what UCF has to offer them," said Tanzi.

Another factor which has increased attendance of high ranking seniors is the scholarship programs available to them. "A lot of students were never aware that we had certain scholarships. Through talking with the students, I explained to them what they are eligible for," said Tanzi.

The recruitment program has been in effect for three years; however, recent- ly Tanzi has established a personal relationship with guidance counselors. According to a guidance counselor at an area high school, "Each year we have a 'college day' where various representatives of the State University System recruit students and take applications here on our campus. The difference with UCF is that they seem to take a personal interest in the students. UCF's representative talks to all the interested seniors on a one-on-one basis."

Tanzi feels that the University has started receiving a flow of high ranking students because "quality students talk to other quality students about UCF, and we find our quality of education greatly increasing."

---

**Welcome Newcomers!**

Allice M. Ingram (Custodian/Campus Police) is a native of Orlando. She worked with the Orange County School system for six years before coming to UCF. She is a fashion coordinator for fashion shows, and enjoys singing, and walks.

Tavie Smith (clerk specialist/Financial Aid) attended the University of Alabama. She holds a BS in bookkeeping from UCF. Her husband's name is Thomas and they have three children. She was formerly a manager/purchasing agent for Kent's Shoes in Georgia.

Susan Lynn Senwald (lab technician II) formerly worked for Orange County Public Schools. She received her BS in microbiology from UCF. Her husband's name is Stephen and they have two daughters, Lee Anne, 7 months old. Her hobbies are sewing, sewing, and playing the guitar.

Terra J. Long (office automation analyst/Computer Services) has a son, Scott, who is 6 years old. She holds a BS from UCF and formerly worked for WMP Enterprises. She was born in Fort Worth, TX. Her hobbies are music, outdoor activities, and the beach.

Antionette Vanessa Bryant (computer programmer/Computer Services) formerly worked as a student assistant programmer at Computer Services. She is a native Floridian, born in Jacksonville. She has her AA from UCF and anticipates graduating in August of 1988 with her BS in Microelectronic Information Systems. Her hobbies are singing and sewing.

Debbie Phillips (secretary/Public Service Administration) was born in Pinellas, FL. She received her BS after working for the law firm of Boroughs, Grimm, Bennett & Griffis. She earned a BA in Allied Legal Services from UCF. Her hobbies are music, and jigsaw puzzles.

Jim Uhlir (environmental health specialist/Environmental Health and Safety) formerly worked for the University of North Florida, in Environmental Research Center. He earned a BS in Chemical Engineering from the same university. He is a native of Grand Forks, ND. His hobbies are travel, music, and automobiles.

Larry T. Simmons (engineering tech II/Physical Plant) formerly worked on Disney's project for Buena Vista construction company. He got his BS in Industrial Technology from Ohio University. He and his wife Karen have a 13-year-old son, Jim, and a 10-year-old daughter, Marcia. He likes to read and play golf.

Kathy L. Forstlund (secretary/Chemistry) lives in Chuluota. She worked for the US Navy for six years before coming to UCF. She attended Radford University in Radford, VA. She is married to Dennis Forstlund and was born in Danville, VA. She likes gardening and US history.

Beatriz D. Contreras (financial aid specialist/Financial Aid) was born in Arcie- to, Puerto Rico. She earned a BA from the University of Puerto Rico, Rio Piedras, Puerto Rico, and is a Masters candidate at DePaul University, Chicago. She and her husband, Juan Mendoza, have three sons, Juan Alberto, 5, Omar, 3, and Alexis R., 10 months. Her hobbies are crafts, reading, music, translations and computers.

---