The Franz Agenda

Dr. Frank Franz
Fourth president of
The University of Alabama in Huntsville
Gillands endow scholarship to honor their son’s memory

Hazel and Reg Gilland don’t expect to ever understand why their son died at the age of 34.

But to honor the memory of Reggie Gilland, (’79 B.S., Electrical Engineering), Hazel and Reg Gilland have fully endowed the Reggie F. Gilland Memorial Scholarship. The scholarship will be awarded annually to a UAH junior in electrical engineering.

“Reggie appreciated the education and opportunities he got at UAH and he had supported the Annual Fund Drive as an alum,” explained Hazel Gilland. “So we contacted the Development Office at UAH to set this scholarship up so other young people could have the opportunity for an education.”

Growing up in Huntsville, Reggie’s technical and creative skills emerged at an early age. He was a ham radio operator and passed the Morse code and amateur radio license exams at age 15. As a teenager, Reggie was in charge of the sound and lighting system at his church, where he built a closed-circuit TV system so services could be watched from the basement.

During his junior year at Huntsville’s Lee High School, his guidance counselor recommended that Reggie skip twelfth grade and go on to college.

This was a new idea at UAH. But Reggie was admitted on the condition that he do well in a summer calculus class. He made a B and so impressed his teacher, an engineer at Sperry Rand, that he offered Reggie a job.

He attended night classes and worked during the day, two years with Sperry and three with SCI, before graduating in 1979. While he was working at SCI, Reggie met Marcus Wilson from Intel Corporation. Remembering their first meeting, Wilson said Reggie had “... a quiet, too polite, gentle Southern style, which masked the determined assertiveness that so many are surprised to find in laid-back Southerners.”

Reggie went to work at Intel as an applications engineer. “The first week on the job he spoke on the phone with a whisper, out of place with his ‘baby face’ in a three-piece polyester suit,” Wilson said. “The transformation that took place over the next six months was incredible to watch.

“He demonstrated, early, that he could stand in the face of uncertainty ... and solve problems. In the toughest of situations he had the uncanny talent to land on his feet.

“We became an inseparable team, salesman and application engineer. Our success welded our professional relationship so tight that we could finish each other’s sentences. We were a powerful sales team at an exciting time in Intel’s history.”

“Reggie’s work closely followed the development of Intel’s business relationship with IBM,” said Carl Everett, Intel vice president and director of worldwide sales. “IBM has developed into Intel’s largest account, and Reggie’s contributions made a difference.”

Reggie’s success with Intel led to a move to Florida, but his dedication to work and long hours also led to divorce. He remained friends with his ex-wife, Wanda Owens Gilland (’90 B.S., Accounting) and he was very close to his step-daughter Tracy Graves.

Around the same time, his parents moved from Huntsville to Goose Creek, S.C., to be near their daughter, Diane Broadhead, who has multiple sclerosis, and her family.

Reggie was especially concerned about his mother, who has cancer. So he made a special effort to stay close to his parents, even after his promotion to Intel’s strategic account operations sales manager meant moving to Santa Clara, Calif., in 1989.

He had just received another promotion and was in New York on business in late 1990 when he was killed in an automobile accident.

Continued on page 27
THE FRANZ AGENDA / 6
UAH's new president shares his thoughts and his vision

TO THE TOP OF THE LIST / 12
The climate is right for meaningful tax reforms

ON A ‘FAST TRACK’ / 14
Alumnus Barry Grisham sees a bright future on the rails

MOVE TO UAH PROVIDES GOOD MIX / 18
Eminent scholar is a rocket scientist who enjoys teaching

ALABAMA’S TOP NURSE / 20
Alumna Cynthia Jolley is motivated by nursing

Potpourri / 2
Ledger / 21
Athletics / 23
Class Notes / 25
From the editor:

Evolution, proration, publication.

Our readers might have noticed an evolution of UAH Magazine over the past several years. Those gradual changes were designed to improve quality and reduce costs. Cutting costs has been especially important, due to the university's financial situation.

While cutting costs is important, so is communication. UAH's alumni and friends need information about activities, programs and people at the university. Your informed support has never been more important to UAH.

We hope this new publication format will allow us to continue that vital dialogue, in an interesting manner, at a very reasonable price. Let us know what you think. We appreciate your suggestions and ideas. I hope you enjoy UAH.

Sincerely,

Phillip Gentry, Editor

UAH is ranked as fifth best among Southern universities

UAH is the fifth best regional university in the South, according to an annual report by U.S. News & World Report. It is the fourth time in five years that UAH has been included in the magazine's annual rankings.

The ranking in the Sept. 30 special report, "America's Best Colleges," shows UAH climbing up from seventh in 1990 and thirteenth in 1989. UAH is the only public university in Alabama to be included in the U.S. News rankings.

U.S. News also names UAH as one of its "Best Buys" in the South, second only to Berea College of Kentucky, which does not charge tuition, and ahead of the University of North Carolina at Asheville. The ratings were determined based on out-of-state tuition. Out-of-state tuition for a full-time student at UAH would be about $4,278 per academic year.

In October 1987, the magazine rated UAH as the South's top comprehensive undergraduate university for science and technology education.

Nationally, the magazine ranked 1,373 four-year schools using a system that combines statistical data with the results of a survey of academic reputations. To determine a school's overall rank, the scores for academic reputation were combined with data in five key areas: 1) the selectivity of the student body; 2) the degree to which it financially supports a high-quality, full-time faculty; 3) overall financial resources; 4) the level of student satisfaction; 5) and SAT and ACT test scores for incoming freshmen.

Student satisfaction was measured by a school's ability to graduate the students it admits as freshmen.

Among southern universities in its category, UAH ranked in the top 10 for academic reputation, faculty resources, and financial resources, and 15th in student selectivity. U.S. News used guidelines established by the Carnegie Foundation for the Advancement of Teaching to categorize the nation's 558 regional colleges and universities.
UAH’s Physics Department is settling into its new offices and laboratories in the Optics Building. Department Chairman Gordon Emslie says the faculty is generally excited about its new quarters: “We have windows. We can see outside. There is a much more lively atmosphere, a much more dynamic atmosphere. You can see that things are going on. It was always there, but now it’s much more evident. There is something about the environment you’re in that makes it easier to work. And the lab facilities are as good as they get.” Emslie said there are plans for student and faculty exhibits and a Foucault pendulum in the lobby.

Mechanical engineering student receives ‘91 von Braun Scholarship

Wendy Dawn Richards Cruit, a UAH senior, has received the 1991 Dr. Wernher von Braun Scholarship.

Cruit is majoring in mechanical engineering and is a co-op student in the Dynamics Test Branch at NASA’s Marshall Space Flight Center. Cruit carries a 3.93 grade point average. She is vice chairman of the American Society of Mechanical Engineers and a member of Tau Beta Pi, engineering honorary, and Pi Tau Sigma, mechanical engineering honorary. She is a 1988 graduate of Randolph High School.

The von Braun Scholarship is awarded to a deserving undergraduate student who demonstrates a desire to apply their talents in the field of rocketry and astronautics. The scholarship was established with a $10,000 contribution from the National Space Club Huntsville Committee and was supplemented by contributions from GenCorp Aerojet, General Dynamics and Rockwell International.

Electrical Engineering leads 10 most popular majors at UAH

Electrical engineering is the most popular academic major at UAH because it matches the needs of the community and the interests of UAH students, and because graduates have good job opportunities, says Dr. Lynn Russell, dean of the UAH College of Engineering. For the fall 1991 quarter, Electrical Engineering had 551 undergraduate students and 307 graduate students, making it far and away the most popular major at UAH.

“Probably at least 50 percent of the economy in this area is based on electronics and computers,” said Russell. “Plus, it’s a good academic curriculum that leads to futuristic, advanced kinds of opportunities.”

The second most popular undergraduate course of study at UAH is also a high-tech field: Nursing, with 301 students. Computer Science ranked third with 269, while Accounting is fourth most popular with 265 undergrads declaring that as their major.

The remaining Top 10 undergraduate fields of study at UAH, with the number of students in that major, are: #5, Mechanical Engineering (247); #6, Management Information Systems, (181); #7, Biology (164); #8, Management (129); #9, Psychology (105); and #10, Math, (92).

Engineering majors represent four of the most popular graduate programs. With 157 students, Mechanical Engineering ranks second behind EE, followed by: #3, Computer Science (153); #4, Administrative Science (138); #5, Industrial and Systems Engineering (127); #6, Physics (89); #7, Math (39); #8, Nursing (33); and tied for ninth, English and Operations Research, each with 27 graduate students.
Wilson Scholarship Fund grows

Pledges to the Harold Wilson Memorial Scholarship Fund have climbed to almost $40,000, with more than 230 individuals contributing.

The fund was established to honor the late Dr. Harold Wilson, by providing financial assistance for academically-talented UAH students who enter the university as freshmen.

A committee of university administrators and faculty has been appointed to draft eligibility requirements for applicants, and to oversee the selection process. It is planned that the scholarship will be available for students entering UAH in Fall 1992.

Contributions may be sent to the Harold Wilson Memorial Scholarship Fund, UAH, 122 Alumni House, Huntsville, Ala., 35899. All contributions will be acknowledged and are tax deductible.

UAH’s Consort 4 soars successfully

UAH researchers enjoyed another space success in November.

The Consort 4 suborbital flight went off without a hitch, giving researchers valuable microgravity time for a payload of nine materials science and biotechnology experiments. The payload flew atop a Starfire 1 rocket launched from White Sands Missile Range in New Mexico. The Starfire, which was built by EER Systems Corp., boosted the payload 185 miles into space, where it spent seven minutes in weightlessness. The payload landed 50 miles from the launchsite after a 15-minute flight.

Researchers were not only excited about their scientific results, they were also pleased with the performance of the equipment and processes tested during the flight. Many of the payload researchers were UAH students, some having their experiments fly in space for the first time. Terri Morris, a graduate student in chemical engineering, watched her ceramic powder experiment soar into space from the New Mexico desert. She was pleased with early results from the flight.

“Our goal was to mix and suspend ceramic composite powders, and compact them hydraulically,” she said. “We accomplished that, and have found (the powders) compacted differently than they do on Earth.”

Fall enrollment hits new high

UAH enrollment continues to climb despite a drop in the number of new high school graduates, according to Dr. Ron Koger, assistant vice president for enrollment management. UAH's fall 1991 enrollment was 8,652, up slightly from fall 1990.

Two academic programs enjoyed noteworthy growth. Enrollment in undergraduate nursing jumped 30 percent, while enrollment in graduate engineering programs was up more than 15 percent.

The challenge of recruiting for UAH's undergraduate programs is complicated by a shrinking pool of high school seniors, Koger notes. There will be 16 percent fewer Alabama high school graduates in 1994 than there were in 1981. The state had 1,500 fewer high school graduates in 1991 than it had in 1990.

To offset this diminishing resource, Koger says UAH has intensified its recruiting efforts in Tennessee, Georgia and Mississippi, while a campaign in Florida will begin this spring.
UAH's Dr. Richard Modlin, inset, was named a Fulbright Fellow for his research in the sensory organs of tiny shrimp, shown here enlarged 100 times.

**UAH biologist Modlin is named Fulbright Fellow**

Dr. Richard Modlin, a UAH professor of biology, has been awarded a Fulbright Fellowship to study the sight and smell receptors of tiny shrimp — research that could provide insights into how animals see and smell. He is spending the winter and spring quarters collaborating with scientists at the University of Lund in Lund, Sweden.

Modlin has been collecting tiny shrimps, called mysids, from the Caribbean coast off Belize since 1984. He has identified more than a dozen new species. He hopes his research into the relatively simple and highly exposed smell receptors of mysids will lead to a better understanding of these receptors in higher species, including humans.

"Their olfactory systems appear to be simpler and easier to study," Modlin explained. "There aren’t as many neurons and it’s easier to trace the nerve pathways."

His research in Sweden will include studying the behavior of male mysids exposed to female mysid sex pheromones. They will videotape native Scandinavian mysids in a tank before and after being exposed to the pheromones, then use computer programs to analyze the different behaviors.

Once they determine exactly when the mysids "smell" the females, they can do before and after chemical analyses of the olfactory receptors, "to try to determine what compounds are involved in these sensory reactions."

Modlin is the second UAH faculty member to receive a Fulbright award this year. Dr. James K. McCollum, a management professor, received a Fulbright Lecturing Award and is spending the 1991-1992 academic year teaching in Bucharest, Romania.

Since it was established in 1947, the Fulbright Scholar Program has provided grants for more than 26,000 Americans to lecture or conduct research in nations around the world, and for more than 29,000 foreign scholars to do the same in the U.S. **UAH engineering adds department, and new M.S.E.**

When the laws of supply and demand caught up with UAH’s College of Engineering, the college made some important additions: Chemical engineering students now have their own department, and aerospace engineering is being offered as an option for a master's degree.

Growth in teaching and research at the undergraduate and graduate levels led to establishing a separate Chemical Engineering Department, according to Dr. James Smith, associate professor of chemical engineering and the department’s new chairman.

"Having our own department gives us our own identity and will help us recruit students," said Smith. "This department also will provide a general liaison between students, faculty and administration."

Chemical engineering was formerly in the Mechanical Engineering Department. UAH offers both bachelor’s and master’s degrees in chemical engineering.

The aerospace engineering option will be offered through the Mechanical Engineering Department. The new program is a natural for Huntsville and North Alabama, says the ME department chairman, Dr. Gerald Karr. The work and research done at various companies, the U.S. Army, and NASA draws many aerospace engineers looking to further their educations.

"We’ve already had a number of inquiries, particularly from students who are working full time," Karr said. "It will make UAH more attractive to a large number of people who are interested in furthering their educations."

Karr said several engineering courses already offered by UAH will go into the graduate aerospace program. New courses will be added in aerodynamics, aerospace propulsion, space environment, aerospace structures, and flight dynamics.
A President's Vision: The Franz Agenda
EDITOR’S NOTE: Dr. Frank Franz was appointed president of The University of Alabama in Huntsville in March 1991 and took office full time in July 1991. Since taking office, he has dealt with cuts in the state’s funding for education and become active in promoting statewide tax reform. His goals and his leadership are taking effect on campus.

Recently, UAH Editorial Director Joel Lonergan talked to Dr. Franz about his impressions of UAH, his short-term goals, and his long-term vision of what UAH can become.

UAH: Have things changed from looking at UAH as a candidate to now being the president?

FRANZ: My original impression of UAH — one that has been confirmed even more strongly since I’ve been here — is that our university is an institution with remarkable success already achieved, but with even greater potential for the future. Our faculty and staff are talented and productive, our students rank among the most dedicated and successful in Alabama, and our performance in research is extraordinary. We do an amazing amount with the resources we have at our disposal. The biggest surprise is the salary situation we have in many areas of the faculty and especially in regard to the staff. Being 20 to 30 percent below the local Huntsville market is something I hadn’t fully anticipated.

UAH: What were your top priorities when you arrived at UAH?

FRANZ: We have been through an extremely chaotic, frustrating period. One overriding goal now is to build confidence with the faculty, staff and students in the university and the administration, fostering a collegial atmosphere in which we are all working together to reach UAH’s potential.

Another crucial goal is to reestablish the financial integrity of the university and to bring expectations for expenditures into balance with the reality of available revenues. There will be an ongoing process of examining our distribution of resources. Is it fair? Is it equitable? Is it the most productive distribution? We are making shifts, changes, and reallocations.

There are also many areas where we have cumbersome operating policies. Revamping those procedures will be a continuing project requiring the joint efforts of Provost John Yost, Vice President for Finance and Administration Jerry Quick, other administrators, and members of the faculty and staff.

UAH: You have discussed proration in the past. What do you feel are the short-term and long-term effects, as far as where UAH is today?

FRANZ: Our most severe problem is the low level of compensation that we provide to our faculty and staff. If you have budget cuts rather than budget increases you have no way of addressing that critical issue.

A faculty member won’t leave next week because he or she hasn’t received a salary increase this Fall. But they may well leave at the end of the academic year. And you almost surely will have difficulty attracting people of appropriate quality to replace them. Staff persons are not bound to academic terms, and can

Continued on page 8

Dr. Frank Franz at a glance

Appointed UAH president: March 1991
Took office full time: July 1991

Provost and vice president for Academic Affairs and Research, West Virginia University, 1985-1991
Dean of the Faculties, Indiana University, 1977-1982
Associate Dean, College of Arts and Sciences, Indiana University, 1974-1977
Professor of Physics, Indiana University, 1974-1985
Associate Professor of Physics, Indiana University, 1970-1974
Assistant Professor of Physics, Indiana University, 1967-1970
Ph.D. and M.S., both in physics, from University of Illinois, Urbana.
B.S. in physics, with honors and distinction, from Lafayette College, Easton, PA
Age: 54
Married to Dr. Judy Franz, professor of physics. They have one son, Eric, a third-year law student at the University of Wisconsin.
**Turnabout at IU**

While holding his first faculty position, as an assistant professor of physics at Indiana University in the early 1970s, Dr. Franz got his first taste of university administration "when we had a little cleanup work to do following some student demonstrations."

"There was a lock-in of one of the administrative buildings and a fairly pervasive student strike," he recalled. "In the aftermath of that activity, the campus administration asked me if I would serve as an ombudsman . . . to resolve residual student concerns. I did that for about a month, more or less full time."

He later spent three years as an associate dean, handling budgets and affirmative action matters for IU’s College of Arts and Sciences.

"At the end of those three years Indiana was seeking a chief academic officer for the Bloomington campus. Several people nominated me for that position. I didn’t want to serve. I wanted to get back to physics. On the other hand, there were many important ways in which I thought the campus could be improved, ways that I felt weren’t being given sufficient consideration. I finally let my nomination stand, so that I could raise those issues.

"I turned out to be one of the final candidates invited for interviews. During my interview, the head of the campus, Robert O’Neil and I ran through my list of everything I thought was wrong. O’Neil later told me it was one of the more uncomfortable interviews that he had ever had. But, as it turned out, he agreed with a lot of the things we were talking about, so he asked me to accept the position.

"One of my prime areas of concern, and the main reason I took the job, was because the administration was projecting an enrollment decline on the Bloomington campus and was planning substantial budgetary reductions to accommodate it.

"I was absolutely convinced we did not need to suffer a decline. We worked very hard to avoid it. As a result, enrollment rose and the quality of the students rose. We worked hard, too, on faculty development and educational reform.

"I did that for five years, then went back to physics, fully. During the next couple of years, there were several places that contacted me about possible administrative positions, but there wasn’t anything that seemed quite right. During that period, I continued to publish in physics, but it occurred to me that I was . . . probably able to make a greater contribution as an administrator than as a physicist."

Continued from page 7

leave within a week or two notice, and some have. You create a situation where it is very difficult for even the most committed people to remain loyal to an institution if you are not able to provide reasonable and equitable rewards.

We need to make progress with this problem, not fall behind. Proration exacerbates an already horrendous situation.

**UAH:** Are you somewhat more confident that we will see tax reform?

**FRANZ:** There is an urgent need for attention to tax reform and additional investment in education, both in K-12 and in higher education. If you had asked me three months ago what the prognosis for meaningful tax reform was, I would have given an estimate of a 3- to 5-year horizon. We are much further along a productive path than I believed we would be.

There is a real chance for action in this legislative session. Influential state leaders and businessmen are stepping forward offering support for reasonable tax reform goals. It is an urgent and a critical . . . need.

**UAH:** After you put aside short-term financial issues, what are your top long-term goals?

**FRANZ:** We must maintain and extend our preeminence in research, particularly with emphasis in science, engineering, and technology, balanced with fostering and developing the liberal arts, humanities and business.

We need to preserve our outreach to non-traditional students, while moving toward becoming a more traditional campus. That means recruiting more full-time traditional students. It means providing more activities and more classes during the daytime serving an expanded undergraduate student body.

There are many ways that we could utilize the resources developed by an enrollment initiative.

We need to develop additional strength in the arts and humanities.

We want to obtain AACSB accreditation for the College of Administrative Science.

We have made great strides in regain-
The West Virginia Challenge

In 1982, Dr. Franz thought he would be content going back to the Indiana University physics faculty after eight years in administration. "Then the opportunity for serving at West Virginia University as provost came along, and that was a very interesting situation," he said. "The university was in severe difficulty. It had an enrollment decline from 21,000 to 17,000 in a period of four years. The funding situation was extremely poor. Morale was low.

"The new president was a very energetic and persuasive individual, a person of charisma and vision, who had great hopes of turning the place around. The only problem was, he got crosswise with the governor and left a month after I got there. "Neil Buckelew, the person who took his place, turned out to be a superb president. We worked together very closely and very well. The university now is in a far healthier state than it was in 1985. Enrollment at West Virginia reached an all-time record this fall. Applications for undergraduate admission were about five thousand a year in 1985; for each of the past two years they've been over ten thousand.

"The academic quality has improved. The morale of the faculty and staff improved. The administration and the faculty and staff worked together to accomplish many things of value.

"We improved scheduling. There had been a huge backlog of students to take courses. This "wait list" problem was notorious throughout the state. It was a great frustration to students not to be able to get classes at the appropriate time in their careers. It was more than a frustration. It sometimes affected whether students stayed at the university.

"So, we modified scheduling. Sometimes we would schedule lower enrollment courses alternate semesters rather than every semester, and reassign the instructors to courses of higher demand. We restructured the way we offered classes and, in some cases, changed the sizes of the classes.

"In some areas we went to a lecture format rather than having very small classes. For example, we had been teaching Introductory Economics in classes of 30. You don't need to do that for that particular course. If you teach in larger sections, then you both accommodate demand and develop resources to allocate in other ways.

"Another thing we did was raise the overall quality of the student body. Not only did we increase the numbers, but at the same time we improved the quality. That's what I'm particularly proud of, that we were able to accomplish that, both at Indiana and at West Virginia.

"Students are attracted to quality. We talk about the various factors that affect student choice. There are many of them — the beauty of the campus, the availability of financial aid, the proximity to home, all sorts of things. But one of the important factors is that a student wants to be proud of the place that he or she attends; they don't want to be making excuses for it."
Of Physics & Presidents

"The things I've done, first in physics and then in university administration, have been things that I've enjoyed. If you enjoy your job, you throw yourself into it and you get a lot of satisfaction from that. One of the worst situations I can imagine is having to work in a job you didn't like and didn't get your satisfaction from. That would be a very unhappy situation. I've not had that situation.

"As you progress from being a physicist to doing some of these other things, it's when you're able to have a similar kind of accomplishment, where there's a problem and you're able to work with people to reach a beneficial solution, you get much the same satisfaction as if you attack an experiment and come to a result, write up the result and have that published. It's a very similar sort of satisfaction. Maybe that's harkening back to some of my physics experience.

"I've found that you really do have to have a mastery of the situation in order to be effective. That's both in physics — in an experiment or paper — and also in the university. You have to know how things work. When I was interviewing here, I mentioned that I think the president needs to know more about the university, in toto, than any other individual.

"Certainly, in the weeks and months that we've been working together on all these issues, it's been essential that I understand and be able to challenge the ways we have done things. All of us who are working closely on these things need to know the full implications of the way we are operating."

— Dr. Frank Franz

Continued from page 9

things like those to bind the campus community together.

UAH: Do you see UAH offering more courses or enhancing the courses we have?

FRANZ: I see us restructuring some of the ways we do things. We may offer some classes less frequently in order to offer some new things. We may rearrange the times at which we offer classes. We may make some sections larger — where appropriate — in order to accommodate more students.

UAH: What is missing in the UAH environment?

FRANZ: The football stadium. I'm kidding, of course, but at the same time I mean that somewhat seriously. I don't want a stadium, but I do want a core of campus activity and campus life that complements our life within the classroom.

Students need to be happy about coming here. That's something we were terribly conscious of at West Virginia. We brought students in and worked hard to convince them how wonderful it was that they were there, and what a great choice they made. The enrollment gains became dramatic as the (good) word spread.

Did I tell you the story about the student from Buffalo? Every year I would go to the summer orientation and meet as many parents as possible. I met a mother from Buffalo, whose daughter was a spectacular 30 ACT student. I could count on one hand the number of students we had like that. The daughter was determined to come to West Virginia. The mother said, "You know, up until last year I had never heard of West Virginia University, but my daughter absolutely wants to come here." I want you to know that in Buffalo the really 'hot' — hot was her word — "schools are Virginia, North Carolina and West Virginia." That was stretching matters a bit, I thought, but I wasn't about to correct her!

Indeed, within that particular school there had developed a cluster of students who had become enamored of coming to West Virginia. They had received good reports from older graduates. That's great, when you can get that sort of momentum generated. I think that if we can communi-
cate the things we do, like SEDS (Students for the Exploration and Development of Space), the Society for Ancient Languages, and many other student organizations, along with our high academic quality and special research opportunities, we'll be viewed as an extremely attractive choice.

The *US News and World Report* rating is another thing that gives people a reason to be proud of the fact they have chosen UAH. It helps to provide name recognition, that this is a place about which people say, "Oh yeah, I've heard about UAH."

We need to move away from the "university at home" syndrome. If we can bring in more out-of-state students, we can use that evidence of demand and popularity to enhance the image of our school within our state.

**UAH:** We may have touched on some of these, but what do you think are some our weaknesses?

**FRANZ:** We have many needs in many areas.

We have a substantially underfunded library.

We have computer systems that are antiquated and in need of upgrade or replacement.

We have operating systems that need to be improved or streamlined.

We have very little capacity or flexibility to take on new projects. Our financial resources are severely strained. Support from the state is woefully inadequate compared to the accepted norms of where we ought to be.

**UAH:** Our strengths?

**FRANZ:** The quality of our student body is extremely high. We have highly-motivated, high achieving students here, and that is very special and very rewarding to all of us.

The dedication of the faculty and staff is extraordinary. Many stay on at substantial financial sacrifice because they love this place. They want to continue to be part of it.

The community's expectations for the university are quite high and the desire to see it succeed is high. The degree of attachment to UAH, the sense of ownership, is very positive in the community.

The proximity of the university to opportunities in NASA, MICOM and the rest of the research community is something that is coveted by many other institutions.

Being part of the University of Alabama System is important to us. The three campuses work well together in this partnership.

**UAH:** If you were able to talk to some of our alumni and friends of the university, what would you like them to know about UAH and what they can do to support the university?

**FRANZ:** They can help in a number of ways. Some of them can help financially. All of them can help by speaking positively of the university and sharing with other people the successes we have, being proud of these and letting people know that this is exciting place to be.

The better the university becomes, the more valuable every degree becomes, the more meaningful everyone's experience here becomes. Everyone has a vested interest in seeing UAH become the best, the most respected institution it is possible for us to make it.

*I want to see the library remain open later. In order to provide maximum support to our students, the library probably ought to be open until midnight.*

— Dr. Frank Franz
A recent editorial cartoon in The Huntsville Times captured one view of proration. As a menacing thug advances on a quavering UAH, the bully says, "Da boys in Montgomery say I gotta break yer knee-caps dis time ... nuttin poisonal."

It was a wry depiction of a grim problem that has slowed the progress of education across Alabama, and challenged the skills of faculty and administrators at UAH and throughout The University of Alabama System.

Your alma mater has been hit hard by the three successive rounds of prorationing imposed in 1991. Employee furloughs made headlines last summer, as faculty and staff took salary cuts when the fiscal crisis worsened. Those diminished pay checks came at a time of deepening economic recession, compounding the hardship endured by the UAH community. Meanwhile, classes were cancelled (see sidebar), maintenance projects were deferred, professional development budgets were frozen, and the number of vacant faculty and staff offices multiplied.

Like other institutions in Alabama, UAH faced intense competition this year from schools in other states that came to raid top faculty and graduate students. Among our losses was Dr. Del Williams, director of the UAH library, who joined the staff six years ago. During his tenure, Dr. Williams successfully implemented computer automation and enlarged the library's collection by an impressive 50 percent.

This summer Dr. Williams accepted the position of dean of the University of Akron libraries. His reasons? A better salary, Akron's commitment to build a first-class library. And generous funding for library acquisitions.

UAH is not alone in the current fiscal crisis. The three successive proration cuts announced since February reduced overall education funding by more than $300 million for K-12, two-year colleges, and senior institutions. As research universities reeled from the cuts in state support, elementary and secondary schools also battled teacher shortages, decaying infrastructure, even the threat of emergency closings.

Public perception of proration's impact on higher education precipitated an important information campaign. By their nature, research institutions receive earmarked research funds.

Repeatedly in recent months we have reinforced that point, reminding legislators and taxpayers that, while vital to the institutions and the state at large, research grants cannot be a substitute for lost state revenues. By law, these restricted funds cannot be applied to classroom instruction, campus improvements or salaries for teaching faculty.

As the funding crisis at UAH and other universities has deepened, available reserves have been expended to meet basic operating costs. The current contingency plan includes numerous strategies that have been implemented simultaneously. Along with stringent cuts in expenses, all three UA System institutions imposed two successive tuition increases in this academic year.

Raising tuition is a dangerous but necessary function of the fiscal crisis in higher education. Throughout the UA System, in-state students have been assessed about 11 percent more than they paid last year. At UAH, the new tuition rates are expected to contribute an additional $430,000 to the university's budget.

Inherent to the use of tuition as a hedge against the shortfall is the concern that we are pricing education beyond the reach of many qualified students. Traditionally, the board of trustees has considered it the responsibility of the state to offer a high-quality, low-priced education that is accessible to a wide range of Alabama citizens. That philosophy resulted in a tuition structure which funded less than one-fifth of operating costs.

In the last five years the ratio has changed dramatically. Since 1986, tuition has increased from 17 percent of each institution's unrestricted educational and general budget to the current level of 23 percent. During the same period, the portion of the operating budget derived from state funds has dropped from 68 percent to 60 percent.

This year at UAH, the $400,000 generated by tuition increases will cover about one-fourth of the campus's latest cut due to proration. The remainder — about $1.3 million — must be made up through programmatic cutbacks and re-allocations.

Guided by President Frank Franz, UAH

Continued on page 22
What did the reduction of state funds mean to UAH in 1991?

It meant average graduate and undergraduate engineering classes with more than 30 students each during summer quarter.

It meant losing 10 class sections in administrative science during the fall quarter.

It meant losing faculty and cutting course offerings in liberal arts.

It meant postponing improvements for undergraduate science labs, where some microscopes are “historical artifacts.”

According to the deans of UAH’s colleges, proration in 1991 means losing ground, inconvenience to students, and lower quality.

Dr. David Billings, dean, College of Administrative Science: “We had a net loss of 30 class sections for the academic year, so I’m teaching two classes I wouldn’t otherwise be teaching and we had to utilize more part-time faculty.

“We lost 12 sections in MIS, six in economics and 12 in finance. I had the entire student Finance Management Association lobby the president in writing, and there were meetings with the provost in the fall because of that problem.

“When classes aren’t available... it also means increasing the financial burden on mom and dad or whoever is supporting our students, because they may have to come back for an extra quarter.

“We also eliminated funds for professional development, which is support to help the faculty stay current in their fields. If a doctor doesn’t go to seminars for professional training... well, do you want a guy who’s ten years out of date operating on you, or do you want the guy who has the most current data?

“The same principal applies here. How current do you want your students’ teachers to be?”

Dr. Lee Cook, associate dean, College of Science: “Did we cancel classes this fall? Yes and no. We put a very heavy hand on classes after pre-registration. We were more restrictive on registration limits. Over the year we have cancelled more courses than we normally would.

“And we are delaying some very critical improvements. Undergraduate labs are in disrepair. Some of our biology microscopes belong in museums. They’re historical arti-

facts.

“We had planned to make some of those improvements this year, but we lost tens of thousands of dollars that would have been used for that.”

Dr. Jerry Mebane, interim dean, College of Liberal Arts: “We tried very hard not to cut classes any more than we had to. We tried to minimize inconveniences to students, but some of them might have to wait a term for a class. We did combine some smaller classes, which had been taught every term. Some of them are now taught every other quarter.

“Last year, (funding cuts) resulted in the loss of 10 percent of the full-time faculty in Liberal Arts. For example, education, communication arts, and French each lost two people, and only two of those six are being replaced. In small departments, that’s a big problem.

“The real threat is to our traditional level of quality. Faculty salaries are low, and without money for raises or enough replacements for faculty positions, the quality of what we offer our students is seriously at risk.”

Dr. Fay Raines, dean, College of Nursing: “We decided not to eliminate classes, but to avoid that we had to increase teaching loads tremendously. Some faculty teaching loads are double what they’re accustomed to.

“We had to cut back on plans for enhancing our academic programs, and we’ve increased the size of class sections. That’s a significant problem in our clinical teaching, where our students go out into the community and provide nursing services. We normally would have eight or nine students in some of those groups, but we have increased that to at least 10. We increased it to the maximum that our accrediting agencies will allow.”

Dr. Lynn Russell, dean, College of Engineering: “We had to cut back on offerings. Our class average this summer ran more than 30 at both the graduate and undergraduate levels.

“We put in a class at the last minute last summer because we had two students who couldn’t graduate on time without it. And when we put that class in at the last minute with no announcement, we had 20 people sign up for that class. That shows you the kind of squeeze we’re in.”

by Phillip Gentry
On a ‘fast track’

by Cheri Shipper

Staying on track with Norfolk Southern Railroad means alumnus Barry Grisham, below, may be near his new home in Missouri one day and in Des Moines, Iowa, right, the next.

Barry Grisham, (’82 BSBA Management), is on a fast track. One day it may take him to Kansas City. Another day he may head to some exotic place like Peru.

Peru, Indiana, that is. Or St. Louis, or wherever in Middle America official business takes him.

For hard-working, soft-spoken Grisham, it is a source of pride that he has followed a family tradition. Like his father and uncle, and several cousins before him, Grisham is a railroad man.

His father, Virgil Whitehurst Grisham, is nearing his 43rd anniversary with Norfolk Southern Railroad in Corinth, Miss. He joined the railroad as a telegrapher and, for a time, was ticket agent at the train station in Sheffield, Ala.

“I just grew up with trains,” Barry Grisham
said. "The old steam engines were like something you'd see in an old movie today. As a kid, I got to ride the train with my Dad. It wasn't unusual to ride the train to Memphis."

"You know," he added, with a hint of nostalgia, "the last time I rode a passenger train I was eight or nine. That was 20, 25 years ago."

A cousin is a Norfolk Southern conductor, as Grisham was for a time. But he wore blue jeans and carried a clipboard instead of wearing a blue uniform with silver buttons and taking tickets from passenger.

"You won't find conductors doing that any more," Grisham says. "Conductors took up tickets on passenger trains, and there aren't that many passenger trains left. You might see that on Amtrak."

Instead, the modern conductor is responsible for the operation of a train from its origin to its destination. He knows everything about the train, its cars, the tracks and switching, paperwork, rules and regulations.

The engineer operates the controls and the train crew does the physical work of spotting and placing cars, but the conductor is responsible for safety and efficiency in a

Continued on page 16

UAH Winter 1992 15
continued from page 15

business where a single rail car can weigh as much as 100 tons.

A native of Iuka, Miss., Grisham earned an associate degree in 1977 and started attending classes at The University of Mississippi. As a junior majoring in management, he studied the Memphis Commercial Appeal classified section every day.

"I kept checking the newspaper on job openings for people with management degrees," he said. "I was really following the job market and back in the years 1978-80, there were few jobs and the pay was not that great.

"I knew the railroad was hiring. Here I was going to school for a management degree and looking at salaries and benefits," he recalled. "I knew the railroad paid considerably more than the jobs I saw in the newspaper and offered a sounder financial future. The railroad furnished everything I ever needed."

He quit school in 1978 to work as a trainman with Southern Railway, which later merged into Norfolk Southern. Although he came from a railroading family and felt at home with railroads, it was never the romance of railroading that called him. Instead, it was a carefully considered decision.

As a trainman, Grisham switched and coupled cars assigned between Chattanooga and Memphis. In 1980 he won a position as conductor in Huntsville. For seven years, starting in 1984, he served as job steward for the local United Transportation Union. Then, on Aug. 1, 1991, he was promoted to assistant trainmaster.

In his new supervisory position, he is responsible for an area of some 450 miles in what railroaders call "the Triangle" between Kansas City, Des Moines, Iowa, and Grisham's new home in Moberly, Mo., a town of 12,800 in central Missouri.

Moberly is an address right now, a place where his friends and family know he's not likely to be. Instead, his job means riding trains almost constantly. Grisham rides in the locomotive with the engineer, the conductor and the trainman.

There is little time for enjoying the scenery. Instead, he is checking on crews, double-checking crossings, handling customer relations, making sure clients get cars when and where they are needed. The emphasis at Norfolk Southern, he says, is safety and efficiency. He is optimistic about his future.

"Trains can move bigger quantities of this nation's commodities economically and efficiently," he explained. "They are a vital part of the operation of this country, and they will continue to be."

From where he sits, which is next to the engineer in a giant locomotive, Grisham sees that both trains and his future are on the right track.

"Railroading's a little unique," Grisham explained. "Most of it's learned through on-the-job training. Sure, they offer classes, but a lot of it's good common sense."

It was pretty much a loner's schedule — work and school — during his months at UAH. He doubts most of his classmates had any idea what he was doing. There was one professor, Dr. Ben Graves, who knew about his career plans. And Grisham talked about railroading once in a speech before a voice and diction class.

When he graduated in December 1982, Grisham did not know if he would have an opportunity to move into railroad management. Instead, he went back to the Sheffield railroad yards as conductor. For seven years, starting in 1984, he served as job steward for the local United Transportation Union. Then, on Aug. 1, 1991, he was promoted to assistant trainmaster.

In his new supervisory position, he is responsible for an area of some 450 miles in what railroaders call "the Triangle" between Kansas City, Des Moines, Iowa, and Grisham's new home in Moberly, Mo., a town of 12,800 in central Missouri.

Moberly is an address right now, a place where his friends and family know he's not likely to be. Instead, his job means riding trains almost constantly. Grisham rides in the locomotive with the engineer, the conductor and the trainman.

There is little time for enjoying the scenery. Instead, he is checking on crews, double-checking crossings, handling customer relations, making sure clients get cars when and where they are needed. The emphasis at Norfolk Southern, he says, is safety and efficiency. He is optimistic about his future.

"Trains can move bigger quantities of this nation's commodities economically and efficiently," he explained. "They are a vital part of the operation of this country, and they will continue to be."

From where he sits, which is next to the engineer in a giant locomotive, Grisham sees that both trains and his future are on the right track.

(About the author: A frequent contributor to UAH, Cheri Shipper is a freelance writer living in Florence, Ala.)
UAH MasterCard aids scholarships

About 375 UAH alumni and 60 students donated more than $7,100 to the Alumni Scholarship Program in 1991 — and they charged it!

The record-setting amount was accumulated when students and alumni used their UAH MasterCards, which are issued through First Alabama Bank. One percent of all purchases charged using the UAH MasterCards is donated to the UAH Alumni Association’s Scholarship Program.

The $7,100 will be enough to fund more than one-third of the program’s full and partial scholarship grants for the 1991-1992 academic year.

A new student UAH MasterCard is being offered. A parent/co-signer is required before the student card is issued.

In addition to raising money for the scholarship fund, active members of the UAH Alumni Association pay no annual fee for use of the card, while inactive members pay a discounted fee. And both receive preferred finance charges.

Students or alumni interested in getting a UAH MasterCard can get an application by calling the Alumni Affairs Office at (205) 895-6085.

Martin Marietta Corporation has donated $75,000 to support UAH’s eminent scholar in propulsion. Attending the announcement were, from left, Richard Davis, president of Martin Marietta Manned Space Flight Systems Company of New Orleans, UAH President Frank Franz, Martin Marietta Chairman and Chief Executive Officer Norman Augustine, and Jack Lee, director of NASA’s Marshall Space Flight Center.

UAH Huntsville UAH
H123 Alabama

Tag, you’re it!

You can be it with a special UAH license tag for your car or truck. In addition to showing your Charger spirit, these tags help provide scholarships for talented students from within Alabama. Special UAH tags cost only $50 more than your regular license tag, and were to be available by January at license commission or probate judge’s offices in every Alabama County. And you don’t have to wait for your tag to expire. Simply turn in your old tag, pay the fee, and you can have a new UAH tag today!

Rockwell International has given $100,000 to support the endowment of the UAH eminent scholar chair in propulsion. The announcement of the pledge was made by Robert D. Paster, left, president of the Rocketdyne Division of Rockwell. Accepting the pledge for UAH is Joe Moquin, former interim UAH president. Earlier, at a breakfast with university, NASA, U.S. Army, and industry representatives, Paster discussed the importance of the propulsion research conducted at UAH.
The timing was right for Dr. Hugh Coleman. UAH’s new eminent scholar in propulsion had been on the mechanical engineering faculty at Mississippi State University since 1978. He had two sons in college: Matt, 21, is studying English at MSU, while Andy, 18, is a freshman in engineering at Penn State. His third son, Jeff, had friends in Huntsville, and was upbeat about the move from Starkville.

“It was the right time,” Coleman said. “Jeff knew about Huntsville and had friends here. And there is tremendous potential here.”

Coleman joined the UAH faculty in July. Jeff is a junior at Grissom High School. The move also afforded Coleman the opportunity to continue combining his propulsion research with something else he enjoys — teaching.

“Teaching is one of the things I really enjoy,” he said. “I thoroughly enjoy contact with the undergraduate and graduate students. In addition to the research, I want to stay in the arena of teaching. I plan to teach one course per term and spend the rest of my time in research and service associated with the faculty eminent scholar position.”

He uses curriculum he developed at Mississippi State with a colleague, W. Glenn Steele. In 1989, Coleman and Steele co-authored a book, “Experimentation and Uncertainty Analysis for Engineers.” They developed curriculum for a number of courses, including two Coleman will teach this year: Introductory Fluid Mechanics, a junior-senior level course, and Uncertainty Analysis Experimentation, a graduate course.

“Our book is about the idea of using uncertainty analysis to help plan and design large experimental programs,” he said. “It is a powerful idea that can allow persons to maximize resources to resolve problems experimentally.

“For example, NASA does tests at Stennis (Space Center in Bay St. Louis, Miss.), and then obtains information from flights. Comparing the information from the model to the real information is error analysis. Every measurement you make will contain errors. You look at the estimating errors that influence the experiment.

“When we try to set up an experiment, we are unable to exactly model it. You tie the shuttle down on a test stand and you get different information than you do in space. NASA is very interested in us working with them.”

Coleman finds the differences between Mississippi State and his new environment at UAH interesting. “Mississippi State is an old-line, land grant institution, and its personality is quite different from that of UAH. Here we have a much younger institution with a student body that is, in many cases, older and more mature. You have a lot of professionals seeking more education while working at their jobs.”

Coleman, who says he became interested in propulsion while co-oping at NASA’s Johnson Space Center in Houston, acknowledges that the base of support for propulsion research in Huntsville is unique. Rocket propulsion is a primary area of interest at NASA’s Marshall Space Flight Center.

“You also have the U.S. Army Missile Command (MICOM) that is the designated group to handle R&D (in) missile systems and rocket propulsion,” he said. “With those two government organizations and the companies that are here, it gives critical mass to support this kind of effort.

“I am bringing some new expertise to the situation, that will help NASA take a structured, logical look at the way uncertainties influence ground testing and flight information, and how we should take those into account.”

Coleman also enjoys reading and cooking. And, since wife Ann is enrolling at UAH to complete her degree, probably in art history, she is happy to let him cook.

“I like the standard grilling out, but I also enjoy creating my own dishes. For example, over the weekend I made French onion soup from scratch,” he said proudly. “I make things like sauteed chicken breasts in wine and mustard sauce. Cooking is relaxing, and it is so different from anything else I do.”
Examining patients at her rural clinic, Jolley listens carefully to James George’s breathing. She treated almost 5,000 patients at the Paint Rock clinic in 1991.

When she won the 1991 Outstanding Nurse Practitioner award from the Alabama State Nurses Association, Cynthia Henderson Jolley, ’77 B.S.N., achieved a major goal she had set for herself some time ago.

“When I received the award it was a feeling of accomplishment,” she said. “It was a goal that I had set for myself early on.

“Nursing motivates me. (Nursing) was something I wanted to do for a long time, even as a little girl. At UAH I learned a great deal about independent decision making, setting goals and accomplishing them. Most of the goals I set for myself involved nursing. I have worked steadily to achieve them.”

Jolley is clinic manager of a small health clinic and a satellite clinic for the Jackson County Rural Health Project, a non-profit organization funded primarily through federal grants. The Paint Rock Valley Primary Health Center is in Trenton, Ala., a community “between mountains” in rural western Jackson County. She also runs a satellite clinic in the Skyline town hall one day a week. She treated nearly 5,000 patients in 1991. The year before that, she treated about 4,300.

Jolley calls herself a rural nurse provider, meaning she provides basic medical care without the direct supervision of a doctor. As a rural nurse provider, Jolley has no typical work day. She makes house calls, maneuvering dirt roads with aplomb to get to her patients. Quite often, she makes special trips to care for patients during off-duty hours.

“We respond to most emergency situations, especially auto accidents, until outside help arrives,” Jolley explained.

Last summer, Jolley saved the life of a 15-year-old boy who is allergic to bee and wasp stings. In the process, she also broke her foot. The boy had been working on an outdoor school project when he was stung by a bee.

“When we were notified that school officials were bringing a boy in with a bee sting, I thought it would be a simple case of swelling,” she said. “But when the van arrived, I discovered the boy was having a severe reaction to the sting. He was unresponsive and having respiratory difficulty.

“I told one of the nurses to get the drugs I needed for the injection and I told the secretary to get the oxygen. I immediately realized I had neglected to ask for the final drug I needed,” she said. “Knowing I had no time to lose I jumped out of the van and, as I landed on the ground, my foot slid out from under me on the loose gravel and I broke it. I knew right away the foot was broken because I couldn’t put pressure on it.”

Jolley got up and, despite the intense pain in her foot, ran to the clinic to get the drug she needed. She injected the drugs into the boy and started an IV. Shortly after that he started coming around and was later transported to Huntsville Hospital by helicopter, where he recovered.

“Believe me, it wasn’t as daring as it sounds. It was more of a Mutt n’ Jeff incident than anything else,” she said, laughing. “It’s hard to be professional and graceful during emergency situations. Trouble follows me and I was particularly clumsy that day.”

Jolley said 30 percent of the patient case load at the Paint Rock clinic is in pediatrics. She also has a significant number of elderly patients. Many of her older patients are physically unable to make it to the clinic.

“One thing we don’t do here and that’s babies. I run out the back door when pregnant women come in,” she said, laughing. “Obstetrical care is not provided here. OB patients are seen initially and then referred to other sources for treatment.

“Lately there have been several patients commuting from the Huntsville area, and that’s because we are affordable to them. The clinic operates on a sliding-scale fee basis,” Jolley said. “Most of the patients I see can’t afford to see a doctor. Most of them can’t even afford gas to get to the clinic, let alone money for the medicines prescribed for their illness.

“We try to keep as many pharmaceutical samples as possible. The federal government provides a limited indigent pharmaceutical fund for patients who can’t afford to buy medicine, but that money is used up quickly,” she said. “It costs to be sick. Unfortunately, because money is a problem many parents will let their children go as
long as they can before they bring them in for treatment. And the same is true of the adults.

"Nursing has been a learning experience. It has broadened my perspective, in that I now accept people for what they are," she said. "Nursing has taken away all of my preconceived prejudices and biases.

"The UAH nursing program... focused on taking care of the patient, a more holistic process," she recalled. "All of my instructors and professors were good, but Dr. Kathryn Crossland was my role model. It was Dr. Crossland’s encouragement and inspiration that instilled in me the importance of independent thinking, and the ability to want to become a leader and a pacesetter."

She is adamant that nursing has a great role to play in developing a standard of health care for the nation.

"The future of nursing is heading toward home health care," Jolley said. "Two of the fastest growing areas in health care are gerontology and home health care.

"Nursing will be seen more and more in the community, because patients are being sent home (from the hospital) before they get well. Once out in the community on their own, nurses will have to make independent decisions and support them," Jolley said. "It will be crucial for today’s nursing students to develop self motivation and a keen sense for independent decision making."

Jolley’s enthusiasm for nursing is obvious. But she says that in any profession you can sometimes get bogged down and lose your spark.

"I periodically say in my next life I’m gonna be a belly dancer because there is no stress," she said, laughing. "When I get to a point where everything overwhelms me, I take a day off and pamper myself and spend time with my son."

Jolley, who is married to Tim Jolley, the chief assistant district attorney in Marshall County, also likes to travel.

What’s next for Cynthia Jolley? She doesn’t really know the answer to that herself. She has done some postgraduate work in public health and nursing, and she is trying to decide whether to obtain a doctorate in political science or law.

"I like being a change agent," she explained. "I’ve always enjoyed a good battle. I love the legislative aspect... Politics is something that I’ve got my eye on."
To the Top of the List

continued from page 12

will weather the fiscal crisis that has battered Alabama. In the meantime, the search for a long-term solution must be intensified as we enter 1992. These serious funding problems, which threaten our very existence, will be solved only through the implementation of meaningful tax reform in Alabama.

The climate is right. Under the chairmanship of attorney Thomas N. Carruthers, the Tax Reform Task Force has undertaken the development of a comprehensive tax reform proposal. Committee members represent a broad coalition of education and business, banks, labor unions, the timber industry, school systems, agriculture, utilities, retailers and developers. This group could become the final clearinghouse for a working tax proposal ready for submission to the Alabama Legislature when the general session convenes in February.

Skeptics say the odds against success are overwhelming.

I disagree.

If the current groundswell of support for quality education continues to spread, there is a real likelihood that Alabama will enter an era of meaningful reform. And, if tax reform is achieved, the residual effects will earn substantial returns for every taxpayer’s investment.

There is a growing sense in Alabama that people are ready for a change. They no longer want to lag on regional and national rankings that measure economic growth, literacy and per capita income. They do not want to lose again in the competition for high-tech industries that will bring good jobs to the state. Evidenced by the enormous impact that UAH has had on Madison County and North Alabama, Alabamians are realizing that quality education is an essential condition of economic prosperity.

UAH is the best possible example of a successful symbiotic relationship between a university and a community. The partnerships between faculty and aerospace professionals, between graduates and high-tech employers, and between research professors and federal agencies demonstrate the wisdom of Dr. Wernher von Braun’s mission when he lobbied for the creation of UAH.

From engineering to optics, the curriculum at UAH has evolved in step with the knowledge-based economy that today characterizes our nation. Excellent programs in arts and humanities, as well as the general education component, also demonstrate the breadth of quality at undergraduate and graduate levels alike.

With diverse offerings in so many fields, the university has become an incubator for interdisciplinary research that will help guide America’s transition to the 21st century. When the fiscal emergency ends in higher education, the full measure of those contributions will be felt throughout Alabama and around the world.

The goal can be accomplished, but its success depends on your direct participation. The next 90 days are crucial, as the Alabama Legislature undertakes its 1992 regular session.

Let your elected leaders in the House and Senate know where you stand on the tax reform issue. Remind them of the direct benefits that accrue through the presence of research universities. Point out the role that education plays in a knowledge-based economy. Demonstrate how UAH serves the people of North Alabama through scientific innovation, career training, shared resources, and job creation.

You have a powerful story to tell. But there is only one small window of opportunity in which to deliver your vitally important message. A great deal is at risk . . .

—Dr. Philip Austin

‘You have a powerful story to tell. But there is only one small window of opportunity in which to deliver your vitally important message. A great deal is at risk . . .’
Soccer team closes strong

A strong finish, including five wins in the last six matches, helped the Charger soccer team put together a 9-9-1 record in 1991, its best finish since 1988-89.

Rebounding from 1990’s 4-14-1 record, the Chargers built for the future in 1991. Paul Tedesco, a freshman from Grissom High School, led the team in scoring with seven goals. Tedesco and sophomore Paul Fontenot tied for the team lead in points. Fontenot had six goals and three assists, while Tedesco had one assist to go with his goals.
Volleyball team sets season win record

A more competitive schedule didn’t stop the UAH women’s volleyball team from winning a record 25 matches in 1991, finishing the season ranked 10th in the NCAA’s Division II South Region. The South Region includes universities and colleges in Mississippi, Tennessee, Alabama, Florida, Georgia, South Carolina and North Carolina.

The team’s 25 wins broke a record set only a year ago, when the Chargers won 23 matches. The ’91 schedule included tournament matches against top-ranked teams in North Carolina and Missouri. The season also included the team’s first-ever win over the University of North Alabama — and the second!

Several Chargers set individual season records. Sophomore setter Korohen Smith led the team with a record 803 assists, while senior middle hitter Billie Richards was the team’s leading hitter with a team record 356 kills. And redshirt freshman middle hitter Dana McClure set a single-season individual record with 71 serving aces.

1991 UAH Women’s Volleyball (25-13)

NOVEMBER
- UAH d. Kings College (15-12, 15-11)
- UAH d. Carson Newman (15-8, 17-15)
- UAH d. Barton (15-6, 15-3)
- UAH d. High Point (6-15, 15-6, 15-10)
- UAH d. Carson Newman (8-15, 16-14, 15-4)
- King College d. UAH (15-8, 6-15, 16-18)
- UAH d. Trevecca (15-1, 15-3)
- UAH d. Fisk (15-3, 15-0)
- UAH d. St. Andrews (15-12, 15-7)
- UAH d. Shaw University (15-3, 15-1)
- Presbyterian d. UAH (15-8, 6-15, 16-18)
- UAH d. Catawba College (15-12, 15-10, 15-12, 15-8)
- Presbyterian d. UAH (8-15, 12-15, 12-15)
- UT-Chattanooga d. UAH (15-10, 15-8, 15-12)
- UAH d. Lee College (15-5, 15-7, 18-16)
- UAH d. Bryan College (15-5, 15-3, 15-5)
- UAH d. Alabama A&M (15-3, 8-15, 15-9, 15-5)
- UAH d. UNA (15-13, 11-15, 15-10, 15-8)
- UAH d. Catawba College (15-3, 15-10, 17-16)
- UAH d. Oral Roberts (15-7, 15-3, 15-11)
- UAH d. Lincoln Memorial (15-2, 15-8, 15-9)
- UAH d. Christian Brothers (10-15, 15-5, 15-7, 15-12)

DECEMBER
- UAH d. Carson Newman (8-15, 16-14, 15-4)
- King College d. UAH (15-8, 6-15, 16-18)
- UAH d. Trevecca (15-1, 15-3)
- UAH d. Fisk (15-3, 15-0)
- UAH d. St. Andrews (15-12, 15-7)
- UAH d. Shaw University (15-3, 15-1)
- Presbyterian d. UAH (15-8, 6-15, 16-18)
- UAH d. Catawba College (15-12, 15-10, 15-12, 15-8)
- Presbyterian d. UAH (8-15, 12-15, 12-15)
- UT-Chattanooga d. UAH (15-10, 15-8, 15-12)
- UAH d. Lee College (15-5, 15-7, 18-16)

1991-'92 UAH Women's Basketball

NOVEMBER
- Auburn-Montgomery 104, UAH 71
- Lincoln-Memorial 96, UAH 62
- Carson-Newman 91, UAH 57

JANUARY
- UAH 121, Stillman College 27
- UNA 91, UAH 64
- Jacksonville State 88, UAH 81
- Lincoln Memorial 86, UAH 69
- UAH 98, Tennessee Temple 36

February
- Troy State 130, UAH 108
- 3, at Delta State
- 10, at Athens State College
- 15, Wofford College, 3:30 p.m.
- 19, Alabama A&M, 8 p.m.
- 22, Lincoln Memorial, 7:30 p.m.
- 29, at UT-Martin
A letter from the Alumni Director

When UAH alumni returned to campus to celebrate Homecoming '91, they found a new look on campus. In addition to several new buildings, which have changed the skyline, returning alumni were greeted by colorful UAH banners, “Charger” signs, and creative spirit displays built by student organizations.

Lee Ann Yeager, '85, and her homecoming committee did an outstanding job creating special events and adding a new level of campus spirit and excitement.

To keep that spirit visible, UAH joins the ranks of many other colleges and universities this year with our very own UAH auto license plates. The tag looks great: Plan on showing your UAH pride.

Please remember that buying a UAH plate is another way our alumni and friends can support their university. A portion of each license fee will be returned to UAH for student scholarships.

After two years of back-to-back proration, UAH alumni have seen what decreased state funding has done to their alma mater. Alumni Association President Jesse Stutts has said, “The need for alumni support has never been greater than it is right now.”

If you would like to know what you can do to help UAH and higher education throughout the state, please call the Alumni Office at (205) 895-6085. There are many ways to get involved.

Upcoming Alumni Association events include the 4th Annual Art Exhibition and Auction on Saturday, Feb. 15, and the UAH Awards Celebration Dinner and Dance on Friday, May 8, at the VBCC North Hall. That means we need your nominations for outstanding alumni, legislator, professor, etc. The deadline for nominations is April 3.

Class Notes

Charlotte Sibley Fulton ('69 B.A., English), of Athens, Ala., is Lifestyle editor for the Athens News Courier. She and her husband Bruce Fulton ('74 B.S.E.) have two children, Stuart and Ben.

Jack Bradford ('71 M.S.E., Systems Engineering), of Huntsville, is executive vice president of CAS, Inc. A member of the Operation Research Society of America and the Military Research Society, he and his wife Donna have three children, Robert Bradford, '86 B.S.E., (Electrical Engineering), Brenda, and William.

Tom Glynn ('72 B.A., Sociology), of Huntsville, is executive director of the Huntsville-Madison County Senior Center. He earned a Ph.D. in human development from Pacific Western University. Glynn is on the board of directors of the North Alabama Better Business Bureau, and the Federal Emergency Management Board. He received the Distinguished Service Award from the Huntsville Jaycees, and was elected to the Alabama Senior Citizens Hall of Fame. He also has a private practice in hypnosis. He and his wife Laura have two children, Larson and Alyssa.

William Waite ('74 M.A.S.), is president and co-founder of AEGis, Inc., a Huntsville company which does research and development for military and aerospace systems. He also holds degrees from Penn State and Union College in New York. He and his wife Kathleen have two children.

Ralph Ekonen ('75 B.S.B.A.), is regional sales manager for Brown & Williamson Tobacco Corp. He and his wife Sharon live in Montgomery.

David Ellington ('75 B.S., Chemistry; '82 B.S.E., Mechanical Engineering), of Huntsville, is a materials engineer for Grumman Corporation.

Michael Tansey ('76 B.A., History), of Huntsville, is a reproduction assistant at Precision Graphics. He and his wife Debbie have three children, Christopher, Jennifer, and Timothy.

Michael Horsley ('77 B.A., Economics and Political Science), of Prattville, is a cum laude graduate of the Cumberland School of Law at Samford University. He is commissioner of the Alabama Department of Mental Health-Mental Retardation. He serves on the Mental Health-Mental Retardation Board of Trustees, the Department of Youth Services Board, the Welfare Reform Commission, the Inter-Agency Coordinating Council, and the Governor’s Drug Abuse Policy Board. Horsley is a member of the First United Church of Millbrook, where he serves as chairman of the Council of Ministries and president of the Men’s Club. He is a member of the Tri-Communities Kiwanis Club and the Prattville Area Chamber of Commerce. A veteran, he is also an intelligence officer in the U.S. Naval Reserve. He is active in the National Health Lawyers Association, the National Peace Officers Association, and the Naval Institute. He and his wife Wanda have one son, Nathan.

Kathy Chan ('79 B.A., Foreign Language and Literature; '81 B.A., Art), of Huntsville, won fourth place in the 18th Annual International Pearl Design Contest. She owns Germano Gallery, where she designs and crafts custom jewelry. She and her husband, Dr. Tony Chan, a UAH physics professor, have three children, David, Deborah, and Gregory.

Tony Rea ('79 B.S., Biology), of Decatur, is director of laboratory services at Parkway Medical Center Hospital. He and his wife Rebecca have three children, David, Matthew and Rebecca.

Edwin Childress ('80, B.S.B.A.), of Huntsville, is vice president for marketing at Smith Advanced Technology. He is a member of the boards of directors of the Boys and Girls Club of Alabama, and the North Alabama International Trade Association. His wife Rhonda is a student in UAH’s English program. They have two children, Ashley and Scott.

Randy Parks ('81 B.S., Nursing), is assis-
Frank Pitts ('81 M.S., Computer Science), of Madison, is president of Quantum Research, Inc. He and his wife Patricia have three daughters, Lauren, Natalie, and Darla.

Sandra K. Farris ('81 B.S.N.), of Haleyville, is director of nursing at Burdick-West Hospital in Haleyville. A member of the American Nursing Association, she is working toward an M.S.N. degree at UAH. She is a member of First Baptist Church of Haleyville, and is in the process of becoming a foreign nurse missionary through the Southern Baptist Mission Board.

Leslie Dale Hutson ('81 B.A., Music), placed third in the 1990 Birmingham City Stages Composition Competition and was invited to compose a work to be performed at the 1991 Birmingham City Stages Music Festival. He earned his master's degree in 1988 from Memphis State University, and now teaches in UAH's Music Department. He is also a ballet pianist, playing for the Huntsville Community Ballet, the Memphis Ballet, the Washington Ballet, and the Shakinah Ballet of Memphis. Hutson has been musical director for several productions in Huntsville and Memphis. He composed music for a ballet commissioned by the Huntsville Community Chorus in 1982.

Paul Ruffin ('81 M.S., Physics; '86 Ph.D., Physics), of Huntsville, is a research physicist with the U.S. Army Missile Command, Guidance and Control Directorate, where he is MICOM's main authority and consultant on fiber optic technology. He was honored in 1989 as one of 10 "outstanding employees of the year" in the Army Materiel Command, which is the parent organization to MICOM. He also teaches physics and optics part-time at Alabama A&M University. He and his wife Vetrea have two daughters, Lacretia and Angelica.

Jim Ashburn ('82 B.S., '87 M.S., '90 Ph.D., Physics), married Greta Kay Branson in September. They live in Huntsville. Ashburn is a research scientist at Nichols Research Corp.

Farid Rafiee ('82 B.S.E., Electrical Engineering), of Huntsville, is president and co-founder of R&G International, Inc., which specializes in trade with the Soviet Union. He is a member of the UAH Athletic Association Advisory Board. He and his wife Misuk have two children.

Sharon Snow Pinson ('84 B.S.B.A.), of Birmingham, is manager of contract administration for Southern Research Institute. She and her husband Michael have one child.

Debbie Carswell ('85 B.S., Biology; '88 M.S., Biology), of Huntsville, is biology supply and safety supervisor for the UAH Biological Sciences Department. She is in the fifth-year teaching certification program. She is married to Bill Carswell, '90 B.S. (Chemistry).

Linda M. Gamble ('85 B.S.B.A., Marketing), of Decatur, works in marketing and procurement for Signal Industrial Products Corp.

Nancy Worden ('85 B.S., Accounting), of Denver, Colo., is audit manager for Guaranty National Insurance Co. of Englewood, Colorado. She is also on the board of directors of the National Association of Accountants, and is a member of the Institute of Internal Auditors, the AICPA, and the Colorado Society of CPA's. She was licensed as a CPA in April 1991.

**UAH Alumni Network**

Help the UAH Alumni Association and UAH by completing this form and sending it to the address below.

Name  
Address  
Street  City  State  Zip  
Phone: Work  Home  
UAH Degree, Major, Graduation Date  
Employer  Position/Title  
News or Comments:  

Please let us know which of the following programs might be of interest to you:  
[ ] Student Recruiting  [ ] Career Networking  
[ ] Higher Education  [ ] Government Relations  

Clip and mail to: Editor, UAH, Alumni House 118, Huntsville, AL 35899
Andrew Berryman ('86 B.A., Communication Graphics), of Huntsville, is a senior technical illustrator at Teledyne Brown Engineering. He has worked in campaigns for United Way, and Toys for Tots.

Patricia Peacock Doty ('86 B.S., Mathematics), is a computer engineer at NASA’s Marshall Space Flight Center, where she supervises development of software for SpaceLab payloads. She and her husband John Philip have three children, Wayne Junghans, Susan Machnica, an electrical engineering major at UAH, and David Junghans ('88 B.S.E., Electrical Engineering), who is a design engineer at UDS.

Tim Fulmer ('86 B.S.E., Electrical Engineering), has been promoted to maintenance planner/relief supervisor at Champion International Corp.’s pulp and paper mill in Courtland, Ala. He and his wife Belinda live in Sheffield.

Steve May ('86 B.A., Art), is director of video works/video production at the Savannah College of Art and Design in Savannah, Ga. He has produced promotional segments for MTV and NBC’s Today Show. He received an Addy Award for his work on a public service announcement for Hospices of Savannah, and the President’s Award from the National Hospices Association.

Karen Wright Middleton, ('86 M.A., English), of Athens, has been named news editor for the Athens News Courier. She and her husband Clare have two children, Matt and Amy.

James David Daniels ('87 B.S., Biology; '90 M.S., Biology), was awarded a teaching fellowship at the University of North Dakota to pursue his doctoral studies in tropical environmental biology. During his master’s studies, Daniels received an Alabama Academy of Science grant, a National Honor Society teaching assistantship, and the highest achievement award in the master’s program in the College of Science. He also spent two summers pursuing his research in the Mesa Verde Forest in Costa Rica.

Walt Davis ('87 B.S.E., Electrical Engineering), of Florence, Ala., is a systems specialist with Champion International, and is pursuing his master’s degree at UAH. He is a member of the Institute of Electrical and Electronic Engineers, and teaches DOS classes at the University of North Alabama. He and his wife Cissy have one child.

Myra Darwish ('87 M.S.N.), of Madison, is associate director of psychiatric services at Huntsville Hospital. She leads Caregivers of the Elderly Support Group, and was listed in the 1989 Who’s Who in Nursing. She is a member of the American Nurses Association, the American Holistic Nurses Association, and the North Alabama Council of Nurse Manager Affiliates for the American Organization of Nurse Executives. She and her husband Maurice are celebrating their 30th anniversary. They have three children.

John McMullan ('87 B.S.B.A., Accounting), of Huntsville, has been promoted to assistant vice president and credit and collection department manager for Colonial Bank of Huntsville. He is also enrolled in graduate school at Alabama A&M University. He and his wife Darlene have one child.

Jere W. Patterson ('87 M.A.S.), of Decatur, is director of missions for the Morgan County Baptist Association, working with 72 churches. A past president of the Baptist

Gillands endow scholarship in son’s memory

Continued from inside front cover

More that 20 friends and co-workers from across the U.S. and Canada traveled to South Carolina for his funeral. His memorial services extended to South Florida, where Reggie’s ashes were scattered near a reef where he had enjoyed scuba diving.

“Reggie’s favorite pastime was scuba diving,” his mother explained. “He spent many happy hours on the ocean floor in Australia and Florida, so we thought it only fitting to scatter his remains there.”

Said Will Felner, a co-worker and diving buddy: “I saw Reggie slip below the smooth waters off Ft. Lauderdale and dive to 100 feet at night and then turn off his dive light and just float with the currents in the dark, yet moonlit, murkiness that is the ocean floor. I saw him completely at peace with himself and his environment, away from other people, worldly distractions and the pressures of his job responsibilities at Intel.

“I saw him hang upside down over the edge of a reef and stare at eels, pick up and handle tiny sea spiders, and gently try to induce a lobster to leave the security of its habitat. I saw him tease small sharks in the reefs as he pursued life in a furious manner, trying to get the most of it at all times.

“I saw Reggie as a friend, at peace with all around him when he was diving. As we bid a public farewell, I just want to wish him full tanks, smooth seas, and unlimited visibility as he now is free to dive whenever and forever as long as he wishes. God speed dear friend. We all loved you and will miss you.”

Contributions to the Reggie F. Gilland Memorial Scholarship should be sent to UAH Development Office, 122 Alumni House, Huntsville, AL 35899. Or call (205) 895-6500 for more information.
Alumnus and father ‘put something back’ by endowing UAH engineering scholarship

Frank Fogle remembers the bright, hard-working engineering students he met at UAH, and how tough it was for some of those students to finance their college educations.

So, in 1990, when Fogle received his Ph.D. in engineering from UAH to go along with his UAH bachelor’s and master’s degrees, he was already thinking about “putting something back in.”

Fogle and his father, Valmore Fogle, have done that by pledging to endow a $10,000 scholarship in the UAH College of Engineering. The Valmore and Frank R. Fogle Scholarship will alternate between students in the university’s electrical engineering, and industrial and systems engineering departments.

The scholarship is one way he can repay UAH, says Fogle: “Through the years, UAH has given me a tremendous amount of information and knowledge. I wouldn’t be here if I hadn’t been taught by some knowledgeable people who shared that knowledge. I just thought it was time to turn around and pay ’em back.

“There was no great pie in the sky. Nobody appeared to me in the middle of a dream. I hope somebody can benefit from what we’re doing there.”

Valmore Fogle, who retired after 30 years at NASA’s Marshall Space Flight Center, attended graduate classes at UAH. A third Fogle — Frank’s brother Andrew — is a sophomore in UAH’s electrical engineering program.

After earning a bachelor’s degree in electrical engineering in 1980, Fogle went to work for TVA in Knoxville and Chattanooga. He came back to Huntsville — and UAH — in 1984, when he went to work as an electrical and systems engineer in the Systems Analysis and Integration Laboratory at MSFC.

He received his master’s degree in industrial and systems engineering in 1987, and immediately started working on his doctoral degree. Fogle received a NASA fellowship that let him return to UAH full time to finish his Ph.D.

While working on his degree, he also taught two ISE classes. He says that for various reasons, including his fellowship, he donated his services to the university, and got no pay for teaching the classes.

“It got a lot out of it, and really enjoyed it,” he said. “And the department was able to cubbyhole the money it would have used for that salary, and then buy some books and technical proceedings for the students.”

Fogle continues to teach part time in UAH’s Industrial and Systems Engineering Department.

Frank Fogle

UAH, says Fogle: “Through the years, UAH has given me a tremendous amount of information and knowledge. I wouldn’t be here if I hadn’t been taught by some knowledgeable people who shared that knowledge. I just thought it was time to turn around and pay ’em back.

Frank Fogle

UAH — in 1984, when he went to work as an electrical and systems engineer in the Systems Analysis and Integration Laboratory at MSFC.

He received his master’s degree in industrial and systems engineering in 1987, and immediately started working on his doctoral degree. Fogle received a NASA fellowship that let him return to UAH full time to finish his Ph.D.

While working on his degree, he also taught two ISE classes. He says that for various reasons, including his fellowship, he donated his services to the university, and got no pay for teaching the classes.

“It got a lot out of it, and really enjoyed it,” he said. “And the department was able to cubbyhole the money it would have used for that salary, and then buy some books and technical proceedings for the students.”

Fogle continues to teach part time in UAH’s Industrial and Systems Engineering Department.

Frank Fogle

UAH, says Fogle: “Through the years, UAH has given me a tremendous amount of information and knowledge. I wouldn’t be here if I hadn’t been taught by some knowledgeable people who shared that knowledge. I just thought it was time to turn around and pay ’em back.

Frank Fogle

UAH — in 1984, when he went to work as an electrical and systems engineer in the Systems Analysis and Integration Laboratory at MSFC.

He received his master’s degree in industrial and systems engineering in 1987, and immediately started working on his doctoral degree. Fogle received a NASA fellowship that let him return to UAH full time to finish his Ph.D.

While working on his degree, he also taught two ISE classes. He says that for various reasons, including his fellowship, he donated his services to the university, and got no pay for teaching the classes.

“It got a lot out of it, and really enjoyed it,” he said. “And the department was able to cubbyhole the money it would have used for that salary, and then buy some books and technical proceedings for the students.”

Fogle continues to teach part time in UAH’s Industrial and Systems Engineering Department.

Frank Fogle

UAH, says Fogle: “Through the years, UAH has given me a tremendous amount of information and knowledge. I wouldn’t be here if I hadn’t been taught by some knowledgeable people who shared that knowledge. I just thought it was time to turn around and pay ’em back.

Frank Fogle

UAH — in 1984, when he went to work as an electrical and systems engineer in the Systems Analysis and Integration Laboratory at MSFC.
Annu - Hbrne: Decatur, Alabama
Major: Nursing
UAH Activities: Freshman Honors Society, UAH Honors Program.
Latest Accomplishment: "Making all A's this quarter."
Latest Book Read: The Others, by Margaret Wander Bonanno
Career Goal: "I would like to be able to help people. I didn't have the skills when my grandmother was ill, but I'd like to be able to do that."
Hobbies: Reading science fiction/fantasy, Playing trumpet.
Her Scholarship: UAH Honors Scholarship, one of many funded through annual gifts made by alumni and friends.
A unitrust is just one of several types of life income agreements that might be an attractive part of your financial plan, perhaps enhancing your income now, while adding to future financial security for you, for those you love, and for UAH.

Call or write:
University Development
UAH Alumni House
Huntsville, AL
35899
(205) 895-6500

UAH
Alumni House 118
The University of Alabama in Huntsville
Huntsville, AL 35899