Library training session seeks to educate

Erik Templeman
News Writer

The UAH Library is offering free library training sessions to students as a way to teach the students how to get the most out of the facility's myriad research services, according to Technology Instruction Librarian Margo Mead.

"Most students don't have that much difficulty with the technology," said Mead, "but what we're finding is that they often don't know which is the appropriate application to use. We're not trying to teach you how to use the library. We're trying to fine-tune your skills in the use of the different databases we have."

The training sessions became necessary last year, claimed Mead, when the library switched from the PALS database to a more complex network system. "PALS was a dumb terminal and you didn't have any connections," Mead said. "All you had was the library catalog and nothing else. We had some stand-alone units where if you wanted to search business journals you went to this machine. If you went to that machine, you went to that machine. And if there was someone there, you had to stand there and wait. Now we have the network so you can go to any machine and get that information. There are a lot more resources on a lot more stations."

The resource discussed in last Friday's session, taught by Instructor Susan Herring, was First Search.

"First Search is a pre-paid service," Herring told her students, "which means you buy a package of searches, kind of like a phone card or a vending card in which you have a certain amount of value that you spend over a certain amount of time."

The package is available at the library's circulation desk, costs $5 and includes an access number and password which enables the user up to certain amount of time. See Library page A-3

Bowen earns McDonnell Douglas scholarship

Kari Bowen, a freshman at The University of Alabama in Huntsville, has been awarded the McDonnell Douglas Presidential Scholarship for the 1996-97 academic year.

The scholarship is awarded annually to incoming freshmen with exceptional academic credentials. Students in any academic field are eligible. Bowen is a graduate of Alabama School of Fine Arts. She is the daughter of Karen Bowen of Pelham. She will pursue a chemical engineering degree at UAH. She graduated with a 4.36 grade point average. During her high school career, she finished among the best in several area math competitions. She was a member of the Mu Alpha Theta Club, the Spanish Honor Society and National Honor Society.
Free publications help young people avoid STDs

Teens are being reached in a variety of ways as they seek to find information that is available to them. The SGA has recently purchased tickets for the 1996-97 season. Tickets will be available for sale at the University Center Information Desk for $2 per ticket with a limit of two tickets per student. In order to purchase a ticket, you must present a current student ID and a copy of your class schedule that shows that you are taking at least three credit hours. The former is a new rule we are imposing for tickets to ensure that students have the first opportunity to purchase tickets. A schedule for the 1996-97 season is available in the SGA office.

Health Insurance: The SGA has recently revamped its health insurance. A new insurance plan has much more extensive coverage. Forms are available in the SGA office.

Dental Insurance: We now have dental insurance available through our office. The plan allows you to select from a network of dentists located throughout the county.

Telecommunications Package: Discount packages for phones and cellular phones are now available.

Legal Services: You are involved in a car accident and the other party refuses to pay. What do you do? Well, don’t take matters into your own hands; you visit the SGA office for legal advice. Attorneys will be available on Tuesday mornings from 10:00-1:00 as well as on Thursday afternoons from 3:00-4:00. Come by the office to make an appointment.

Tutorial Services: If you need help in writing papers or in math courses there is help available for you. For help in writing papers, visit the writing center in Morton Hall, Room 228. For help in math courses, take advantage of the Mathlab or the Calculus workshop. For general help in any course visit Student Development in UC 113.

Library Training Sessions: Training sessions for E-mail/Internet, Library Systems, First Search, and Knowledge Index are available throughout the months of September and October. Visit the library or see the schedule posted in and outside the SGA office for times and dates.

Want to talk to your SGA representatives? You can contact the SGA through E-mail. The SGA E-mail address is sga@email.uah.edu. SGA meetings are Monday nights at 8:45 PM in UC 126. All students are welcome and encouraged to attend. Also, you may want to visit the SGA homepage at email.uah.edu/student_life/organizations/SGA. And, of course, we are available in our office in UCB 126 to answer any questions or to respond to any concerns you may have about any aspect of the university.

Ryan Merrell
SGA President

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On your best day, what is the maximum amount of weights obtainable for lifting by you? 200 pounds?, 300 pounds?, 400 pounds?, or even 600 pounds? Whatever it may be, can you lift the burden of a poverty stricken neighborhood? Can you stop wars from waging? Can you break the love of drugs from a crack addict? Can you stop racism from tearing apart our nation?

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**Comedian Jonathan Brandt**

**Thursday, September 12, 1996**

**MOM'S at 8:30 pm**

**Free Popcorn & Coke**

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**Association for Campus Entertainment**

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**Library from page 1**

...ten searches. First Search is accessed through the internet by telnetting to fsca@oclc.org or by connecting to First Search web site at http://www.oclc.org.

"First Search," according to Herring, "provides you the ability to do research in about 55 informational databases which cover a wide variety of subject areas... It expands the number of resources we have available here by giving you access to other databases which we don't have immediately available."

Reaction to Herring's class was positive.

One student, Brenda Jarvis, nursing major in the master's program, commented that the class heightened her awareness of the new research technolo...
**EDITORS**

Administrators at UAH fear evaluation

Grover L. Porter

"The authoritarian approach to management makes us feel like we are in charge of guarding the chicken house. "Managers who have confidence in their competence encourage their subordinates to evaluate their performance." Are administrators at UAH afraid to allow the faculty to evaluate their performance on an annual basis? It would seem so because recommended enhancements to policies in the Faculty Handbook relating to the issue of the role of faculty in the evaluation of administrators [i.e., deans, chairs] have continually been "Vetoed" by authoritarian administrators at UAH.

A number of years ago a Task Force to review the policies and procedures in the Faculty Handbook [March 1989] was created at UAH. This Task Force consisted of faculty, chairs and deans. The then-chair of the Personnel Committee of the Faculty Senate during a portion of the life of this committee body [1991-93], I was named a member of this Task Force. This Task Force met numerous times to discuss the policies and procedures in the current Faculty Handbook and to propose revisions and/or enhancements to that governance document. A number of members brought a wealth of experience from their affiliation with other universities to the Task Force. For example, we have been affiliated as a regular or visiting faculty member with great universities [e.g., The University of North Carolina Chapel Hill, flagship university, etc., The University of Mississippi Oxford, and regional universities [e.g., UAH]. Also, I have participated in the modernization of faculty handbooks at other universities.

Our experience and published research supports the theory that the faculty has a greater role in campus governance at great universities than at regional universities. In trying to move UAH up the ladder toward becoming a great university, a number of members of the Task Force recommended several enhancements to the policies relating to the role of faculty in the governance of UAH. One representative example, perhaps, will suffice to illustrate the primary governance problem at UAH!

One of the proposed enhancements to the governance system at UAH was a recommendation that the faculty in each unit be encouraged to evaluate the annual performance of the dean of their college and the chair of their department. The proposed revision recommended that forms be distributed to faculty for use in these evaluations on an annual basis. The faculty would submit the form evaluating the performance of the chair of their department to the dean of their college. The Faculty Senate, however, this recommendation was among those "Missing in Action." The proposed revisions were compiled for the Task Force by then Associate Provost Carolyn White. I asked Dr. White in a meeting of the Faculty Senate: "What happened to the Task Force recommendation relating to the annual faculty evaluation of the performance of deans and chairs?" Who recommended that it be deleted from the proposed revisions to the Faculty Handbook?" Dr. White replied, "I don't recall who recommended that it be deleted from the proposed revisions. A number of people recommended a lot of changes." The proposed revisions that were transmitted from the Task Force and revision. The committee that was given jurisdiction over the evaluation issue recommended that a policy for the annual faculty evaluation of deans and chairs be included in the new Faculty Handbook. Furthermore, this committee designed forms [See Exhibit I] to be used in these annual evaluations. This committee recommendation was presented to the full Faculty Senate for its consideration ["Minutes of Meeting 351," Journal of the Faculty Senate, 30 November 1994]. Although I do not know the names of all the deans that may have opposed this proposed policy in the Council of Deans meetings, one dean [i.e., Billings] spoke against allowing faculty a greater voice in the evaluation of administrators during Faculty Senate meeting.

The "Report of the Faculty Senate on Proposed Revisions to the Faculty Handbook" [29 November 1994] contained the recommended policy for the annual faculty evaluation of deans and chairs. The vote by the Faculty Senate was "Unanimous" in favor of forwarding this report to the central administration ["Minutes of Meeting 356," Journal of the Faculty Senate, 2 March 1995]. We thought that the faculty right to evaluate their administrators [i.e., deans, chairs] on an annual basis was finally going to become a part of the governance system at UAH. We thought that UAH had decided to climb the ladder toward becoming a great university!

When the new Faculty Handbook [April 1996] was finally printed and distributed, however, we sadly learned that the faculty had been "Snoookered" by authoritarian administrators again. The annual faculty evaluation of administrators policy recommended by the Faculty Senate was "Missing in Action" a second time. Later, the Faculty Senate was informed that the proposed policy for the annual faculty evaluation of deans and chairs is not in the new Faculty Handbook because it "was not adopted by the Council of Deans" ["Issues for the 1996-97 Faculty Senate," 29 August 1996]. This usurpation by administrators of authority that is traditionally reserved to the faculty in great universities ill-

**EXHIBIT I**

The evaluations by the faculty would carry a significant weight in the final evaluation of the annual performance of the chair as prepared by the dean, and of the dean as prepared by the provost.

"We naively thought that the faculty right to evaluate their administrators [i.e., deans, chairs] on an annual basis was finally going to become a part of the governance system at UAH ... When the new Faculty Handbook [April 1996] was finally printed and distributed, however, we sadly learned that the faculty had been 'Snoookered' by authoritarian administrators again." There was substantial discussion regarding this recommendation in Task Force meetings. One dean [i.e., Billings] spoke against allowing faculty a greater voice in the evaluation of administrators during Task Force meetings. When all was said and done, however, it was our understanding that this recommendation would be included in the proposed revisions transmitted from the Task Force to the Faculty Senate. When the proposed revisions were received by the Faculty Senate, however, this recommendation was among those "Missing in Action."

The proposed revisions were compiled for the Task Force by then Associate Provost Carolyn White. I asked Dr. White in a meeting of the Faculty Senate: "What happened to the Task Force recommendation relating to the annual faculty evaluation of the performance of deans and chairs?" Who recommended that it be deleted from the proposed revisions to the Faculty Handbook?" Dr. White replied, "I don't recall who recommended that it be deleted from the proposed revisions. A number of people recommended a lot of changes." The proposed revisions that were transmitted from the Task Force and revision. The committee that was given jurisdiction over the evaluation issue recommended that a policy for the annual faculty evaluation of deans and chairs be included in the new Faculty Handbook. Furthermore, this committee designed forms [See Exhibit I] to be used in these annual evaluations. This committee recommendation was presented to the full Faculty Senate for its consideration ["Minutes of Meeting 351," Journal of the Faculty Senate, 30 November 1994]. Although I do not know the names of all the deans that may have opposed this proposed policy in the Council of Deans meetings, one dean [i.e., Billings] spoke against allowing faculty a greater voice in the evaluation of administrators during Faculty Senate meeting.

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See Fear

What approach to manage... page 5

**Sociology: A new way to look at the world**

Glenna Colclough

A famous sociologist, C. Wright Mills, describes sociology as a "sociology of process," a perspective, a quality of mind that he labeled "the sociological imagination." In his book by that name, he begins by describing the dilemma of most people living in today's fast-paced, modern world. He argues that we often feel trapped in our own private orbits in which we exert limited control over our lives and what happens to us. We are increasingly bombarded with information about the world around us and the forces that shape our lives. Yet, we can only make sense of all of this information and use it to understand our own situations, much less that of others. This is what a sociological imagination can offer you — a chance to acquire the conceptual skills and tools that will allow you to grasp "the interplay of man and society, of biography and history, of self and the world" (Mills, 1959, 6). The sociology program at UAH provides a variety of courses to help you develop this "sociological imagination." In courses like Gender Roles or Marriage and Family you will learn how women and men are both empowered and trapped by the expectations within our culture for how each sex should behave. You will learn the reality behind the American ideals of equal opportunity, freedom and tolerance in courses like Social Stratification or Race and Ethnic Relations. The social forces that shape our lives from infancy to old age are explored in courses such as Sociology of Childhood and Social Gerontology. And, the necessary skills to acquire, understand, and evaluate different types of information that will help us answer our questions can be developed in Research Methods and Social Statistics.

Sociology will not only help you understand yourself and your link to society; it provides you the opportunity to develop the important skills of critical thinking, analysis and communication which are essential to most careers in today's world. As the economy and labor markets rapidly change, a necessary trait for surviving and succeeding is flexibility. There are many positions in business, government, private foundations and voluntary associations that will provide the required training for performing specific jobs. Employers in these organizations look for people who can learn, think and communicate their ideas effectively. These skills are transferable from one job to another as you move between the several careers you probably will have in your lifetime. They provide the flexibility you need to continue to grow and make the choices that confront you throughout your life. In sum, sociology is a discipline that will be most useful for those who have more questions than answers about the world around them. It is for those who wonder why things are the way they are. Real democracies. It is for those who are trying to understand "the immigration problem" as well as those who are trying to understand why it's defined as a problem! It is for those who are trying to evaluate the efficacy of "welfare reform." It is for students who want to look into the future — their own, their society's, the world's — by discovering the history of yesterday and today. It is for people who realize that they too make history with everything they say and do, and would like the contribution of their contributions more meaningful. If you are one of these people, come check us out at 344, Morton Hall. We'd really like to talk to you about sociology. (Ref. C. Wright Mills, 1959. *The Sociological Imagination. Oxford U. Press*

Do few countries have a Chair of the Sociology department.
No Great Book Conspiracy

I'd like to take a moment here and reveal some facts. In the process, I might even tender an apology on two. See, I wrote a column outlining my frustration with the service of the UAH Bookstore. Apparently, my frustrations are not alone, because scores of people have seen me and vented these same frustrations.

My frustrations had to do with the system and the bookstore; they have to do with the ill-begotten marriage of the two, actually. For reasons previously stated, I was unable to get a book at the bookstore, and unable to afford it at the off-campus place.

After several hours of running from place to place being told "Sorry, but we can't do that," I came back to my car, sat down at my computer, and wrote a very satisfying column dealing with my day.

(Note: Never write when you are angry. If you do write when you are angry, never ever submit what you write.)

Anyway, Thursday I was moving, which is another story in and of itself, when my teacher called. "I didn't see you in class," she said, "But I wanted to let you know that the bookstore was going to let you buy a book off campus and credit your account, or they would buy the book off-campus and let you buy from them."

I thanked her, my face burning as I admitted that I wasn't in class, but I wouldn't miss anymore. After all, it's embarrassing enough to be caught skippin' by your peers; getting caught by your instructor (and it wasn't even her class) is even worse.

So Friday morning I trudged on down to the bookstore to pick up my hitherto-unobtainable book. The manager, a nice lady named Kari, was there.

"I read your column," she said.

I cringed inside. I've faced this before, at Auburn and everywhere I've ever had a column printed. If they liked the column, people will tell you so. They might even give you stuff.

If they didn't like it, they'll tell you so. They might even give you stuff after a column on rednecks and mule parks in Auburn, a fellow brought me a Caterpillar hat. I was at lunch and never met him, so I still don't know how to take that.

Anyway, Kari said, "I agreed with most of what you said."

She did! This was different! Most people perceive an attack on the system they work for as a personal attack. Kari was cool about it, they'll tell you so. You might even give you stuff.

I was after a column rednecks and mule parks in Auburn, a fellow brought me a Caterpillar hat. I was at lunch and never met him, so I still don't know how to take that.

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The Red Clay Survey is an opportunity for artists living in Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, and Virginia to be part of a prestigious showcase of visual art trends in the South. Paintings, prints, drawings, photographs, mixed-media, sculpture, fiber art, glass, ceramics, and other fine crafts are eligible; the work is initially submitted to the competition via slides.

This year's juror was Lois Tarlow, a nationally known artist, teacher and arts writer based in the Boston area. Tarlow exercised the new option to choose more than one work by each artist. The result is a Red Clay Survey that retains its traditional eclectic exuberance yet offers a more in-depth look at each artist's approach.

"I sought out work that seemed to me to offer unique voices and personal visions," said Tarlow in her juror's statement, published in the fully-illustrated catalogue that accompanies the show.

From the installation sculpture of Vietnamese native (now Florida resident) Hoang Van Bui to the expressive, graffiti-like paintings of Nashville's Lain York (winner of the $1200 Juror's Choice Award for 1996), the show contains surprise, sincerity, and social commentary. Viewers will see more than the merely beautiful; they will see emotion, earnestness, and exploration.

The Red Clay Survey is a good opportunity for the general public to experience first-hand what is happening in the visual arts in the region. Several free programs are planned to increase understanding and enjoyment of the show.

A public, guided tour is set for Sunday, September 15, at 2 pm. The informal, 45-minute tour will be led by a museum docent and will provide background information on the artists' intentions and methods. Two similar tours are set for Sunday, October 27, and Sunday, November 17, also at 2 pm.

On Sunday, October 13, from 2 to 4 p.m., a very special event is planned. Several of the Red Clay artists, including Lain York and Huntsville's own renowned quilt artist, Pat Kyser (winner of a 1996 Merit Award), will be on hand to talk about their work and answer visitors' questions.

This "Artist's Point of View" gallery talk will conclude with a casual reception and opportunity for socializing with these accomplished artists of the South.

Beginning September 22, an educational exhibition featuring art and artifacts from India will be on view in addition to The Red Clay Survey. More information about the Huntsville Museum of Art exhibitions and programs is available by calling the museum at 205-535-4350.
Season announced by ASF

The Alabama Shakespeare Festival, has announced the roster of plays for its 1996-97 season. Productions will include two works from ASF's acclaimed Southern Writers' Project, and the family musical Oliver!

The season opens with Birmingham native Keith Glover's mysterious play with music, Thunder Knocking on the Door: A Tale of Rhythm and the Blues in the Octagon, October 1 through November 3.

Set in French Guiana on Christmas Day, 1910, My Three Angels, by Sam and Bella Spewack, is an engaging and pleasantly preposterous comedy in which three convicts become the good angels who show that it is simpler to bump Scrooge off than to convert him. My Three Angels runs in the Octagon November 19 through December 22.

The 1997 Repertory Season kicks off March 4, 1997, with Henrik Ibsen's Ghosts, a controversial look at the conflict between propriety and passion. On the Festival Stage March 11 — July 26, 1997, the Bard's supernatural tale of murder, fear, and moral chaos, Macbeth, sees the same forces that drive a man's ambitions ultimately cause his downfall.

Somerset Maugham's Lady Frederick, a delightful comedy of manners that shows life and love to be more of a game than a romance, will be performed in the Octagon, April 1 through July 27, 1997.


Subscriptions for the 1996-97 Season are available now by calling the ASF Box Office at 271-5353 or 1-800-841-4ASF (4273). Single tickets for all individual productions will be available on September 3, 1997. The ASF Box Office is open 10 a.m. until 6 p.m., Monday-Saturday; 12-4 p.m., Sunday; and until 9 p.m., all performance nights. All dates and titles are subject to change.

"One crow is for sorrow ..."

Crystal Tillery
Entertainment Writer

The sequel to The Crow is here and it looks a lot like its predecessor.

The Crow: City of Angels

is set in a futuristic L.A., a city of drugs and victims. Most of the city's drugs are supplied by a man named Judah. This name is so close to Judas, Christ's betrayer, that it's hard to ignore the religious parallel. Judah imagines himself as a kind of twisted Christ figure in a religion of drugs, pain, sex and violence. He reigns over L.A. — with the help of his blind oracle Sybil and his thugs — from a tower that has statues of the Virgin Mary exposing her nipples. This religious theme is an undercurrent throughout the movie.

Ash (Vincent Perez) is the soul The Crow leads back to "right the wrongs." He and his young son were murdered by Judah's thugs at his command for witnessing another murder. Ash gets guidance from Sarah (Mia Kirshner), the love of the last Crow. He takes the thugs out one at a time, working his way to Judah.

Judas, searching for a way to change his fate, asks his oracle how Ash can be stopped. She tells him that The Crow is Ash's link from this world to the next. So the fight is on.

Curve, Judah's top thug, is played by Iggy Pop, who gives an excellent performance. Perez's accent is rather distracting, but otherwise he did well for someone who had to follow in Brandon Lee's footsteps. This movie has the same dark ambiance as the last one. It too focuses on physical pain and mental anguish. This one lacks some of the gore that added so much to the first. Although this movie does seem like a copy of the original, it's still worth seeing.
The entire original Star Trek crew made appearances, as well as members of the Voyager crew, six Apollo astronauts, Ms. Majel Barrett Roddenberry, and head NASA administrator Dan Goldin.

Majel Barrett Roddenberry, Star Trek actors and widow of Star Trek creator Gene Roddenberry, said she felt "terrible" about the current space program. "I want to see it go on, go, go," said Barrett. "We can't just sit down here.

Barrett also mentioned that "Star Trek is not the end of Gene Roddenberry's contribution to television." Barrett said she has already sold the series called Battleground Earth, and said it will hit the air in September of 1997. All seven original Star Trek actors came on stage at the Von Braun Civic Center Saturday night. Instead of presenting polished speeches, a few of them told of gathering personal experiences, while others joked around and made fun of each other.

James Doohan (Scottie) shared a very sentimental story of a suicidal woman whom he befriended and found out years later that she had received a master's degree in electrical engineering. Doohan tearfully said that his influence on her "by far the best thing I have ever done."

Kelley still alone on stage, began to introduce the "star" of Star Trek, when both Leonard Nimoy (Spock) and William Shatner (Kirk) walked out on stage. Much to the crowd's enjoyment, Nimoy and Shatner proceeded to argue about who Kelley was referring to. After the show, the magnificent seven called it a day.

"We the originals, who started this crazewill always be a part of your Star Trek days.

"We tried to bring you inspiration, to live by the rules of the Federation... So tell me now, what else is new? Where on Earth is the rest of the crew?"

"I don't know about this past year, but for this convention, they're all here."

"I hear from Nimoy and I hear from Shatner, and they're still fighting for whatever they're after."

"And what about Kelley? What's with his life? Well, he's still in the valley, with the very same wife."

Kelley, still alone on stage, began to introduce the "star" of Star Trek, when both Leonard Nimoy (Spock) and William Shatner (Kirk) walked out on stage. Much to the crowd's enjoyment, Nimoy and Shatner proceeded to argue about who Kelley was referring to. After the show, the group had a table fenced off from the public.

Overall, the convention was a smashing success.

Spencer Gifts, a licensed supplier for Star Trek products, did "wonderful" business according to an employee.

"One guy came up from Florida and spent 700 (thousand dollars)," said the employee.

Marlon Ragsdale, an active member of The Starfleet, the International Star Trek Fan Association.

Will there be humans on Mars by the year 2011?

David Hewitt
Sci. & Tech. Writer

Editorial

During August 20-25 of this year, a NASA panel considered an outline of a new plan for going to Mars and the rest of the solar system as well. NASA originally had a tentative plan to land on Mars by 2018, but now a plan to set foot on Mars as early as 2011 is on hand.

With the prospects of finding additional evidence of Martian life being pretty high, this plan is gaining political favor as well.

There have been different plans for going to Mars in recent years, but most of them would be so costly that it would not be worth the expense.

But that is not to say that all the Mars missions would be extremely costly. There is one that would be very cost effective and is now the method favored by most everyone in NASA.

On July 20, 1989 on the 20th anniversary of the first manned lunar landing, President George Bush announced a massive space exploration program, with one of the ultimate goals being a trip to Mars.

He set the deadline in a Kennedy-esque speech for July 20, 2019, on the 50th anniversary of the first moon landing. He challenged NASA to come up with a strategic plan for Mars exploration, and in 1990 commissioned a study that was finished in 90 days.

After that study, NASA recommended a massive undertaking: a plan to set eight people on Mars for a 45 day stay on the surface. But the price tag was 500 billion dollars.

Why such high cost? Well, the plan called for a massive interplanetary craft to be assembled in orbit, crewed, and launched for a 200 day flight to Mars.

The immense costs stemmed from logistics, on-orbit assembly of all the components, fuel, and provisions for such a long mission.

There was no way that the government would be able to foot that kind of bill for one mission. Instead of building a huge fleet to go to Mars, why not just go there directly.

The brain child of Dr. Robert Zubrin, Mars Direct, is relatively simple in the way of logistics and much more cost effective, but it was largely ignored by NASA and others when it was put forward.

One of the main cost factors of the previous Mars missions was carrying all the fuel necessary for the entire mission.

Mars Direct adopts the" live off the land" scenario, which in NASA jargon is In Situ Resource Utilization (ISRU). Instead of carrying fuel for the return trip, the main focus would be to manufacture the fuel out of the Martian atmosphere.

The scenario would work as follows: The first component, the unmanned fuel factory and return vehicle would launch on a heavy lift launch vehicle like Russia's Energia rocket (as powerful as U.S. Saturn V moon rocket) and land on Mars nine months later.

The fuel factory/return vehicle's tanks would be loaded with six tons of liquid hydrogen, and once on Mars, the hydrogen would be used in the process to manufacture the fuel.

Using nuclear or solar power, the chemical plant would go to work, sucking in the atmosphere which is 95% carbon dioxide, and combining it with the hydrogen.

The products: methane and water, from an old industrial process in use since the 1890s. The water would be broken down with the hydrogen being reused and the oxygen set aside as oxidizer. An additional unit would suck in carbon dioxide and break off and store oxygen while venting carbon monoxide into the atmosphere.

The result: 108 tons of methane and oxygen, rocket fuel.

Two years later, once fuel manufacturing is done, a second fuel factory and a crew module carrying the surface habitat a rover, and a crew of at least four would be launched to Mars on separate launch vehicles toward Mars.

At the beginning of their long voyage, the crew module would separate on a tether from the booster and spin up to create artificial Martian gravity.

Once they arrived at Mars, they would land as close as possible to the fuel factory and set down for a 500-day stay on Mars to do real, meaningful exploration and science.

The second fuel factory would land 500 kilometers from the other site, and would start preparing for the next crew.

During their 500 day stay, another vehicle would arrive in Mars orbit and would serve as the crew habitat for the return trip.

When the crew lifts off toward their habitat in orbit, three more rockets would lift off towards Mars, consisting of a crew for the second site, a third fuel factory, and a habitat for the crew to return to earth on.

With all the hardware in place, the groundwork will be laid for a permanent base on Mars.

This is the plan now favored by NASA, to help with the testing, an unmanned sample return mission will be launched in 2005 using ISRU to return home.

Not long after that, humans may be kicking up red dust while prospecting for underground water, fossils, and hopefully life.
Space Station Air Purification system completes major test

NASA News

The system that will purify the air aboard the International Space Station recently passed a major test at NASA's Marshall Space Flight Center, Huntsville, Ala. The month-long test evaluated the systems ability to control carbon dioxide, oxygen and air pressure inside the Station's living and laboratory quarters.

Simulating the breathing activity of a crew of four, engineers injected carbon dioxide and water vapor, and removed oxygen from the school bus-size, 6,200 cubic-foot test module throughout the 30-day test to evaluate an air purification system.

“The test provided an excellent demonstration of the capability for maintaining cabin air composition using control procedures to be used on board the Space Station,” said Jay Perry, test principal investigator and life support engineer of Marshall’s Thermal and Life Support Division. “Throughout the test, the system operated in a fully-automated fashion and its components responded very well to the simulated human breathing.”

The test was the fifth in a series begun in 1987. The test also featured operation of the carbon dioxide removal system at reduced levels to save power. It operated at full power levels during the 53-minute daytime portion of the orbit and at lower levels during the 37-minute nighttime orbit just as planned for Space Station.

The nitrogen and oxygen composition of the atmosphere was controlled by signals from an air composition monitor, and special computer software very similar to that planned for use on the Space Station was developed for automated control during the test.

3-D specs not needed for advanced image display

C.L. Smith
Sci. & Tech. Writer

For years, researchers and inventors have been trying to develop a realistic three-dimensional display. From the cheesy 3-D movies of the 1950's to the cumbersome virtual reality goggles of today, the results have been less than convincing.

But now a Stanford University mechanical engineer has come up with a system that projects a true three-dimensional image into a fluorescent glass cube.

Elizabeth Downing spent eight years working on the project, which uses a principle called “upconversion” to produce the patterns of light within the cube.

“There are a number of different 3-D display technologies, but this technology has some unique features,” said Downing.

“For one thing, it doesn’t create an image that appears to be three-dimensional. It actually produces an image that is drawn in three dimensions. As a result, there are few restrictions on the viewing angle and a number of people can view the images at the same time,” said Downing.

The glass contains small amounts of certain elements known as “rare earths.” These atoms emit visible light when excited by two infrared laser beams of slightly different wavelengths in rapid succession. This is the “upconversion.” The lasers are made to scan throughout the cube and trace a three-dimensional representation, in much the same way that an electron beam scans a 2-D image across a television screen.

Different rare earths emit different colors when stimulated in this way, and by combining the right elements into the right places in the glass, a full-color image is possible. For now, the images projected with the prototype are limited to some three-color line drawings. And while the transparent figures may not yet be suitable for video displays, this property may be an advantage for applications such as medical imaging and aerodynamic simulation.

The concept of displaying 3-D images in fluorescent glass has been around since the 1960’s, according to Downing. But recent advances in materials science have shown the way to blend the rare earths into the glass.

Downing and Stanford electrical engineering professor Lambertus Hesselink published their work in the August 30 issue of Science magazine.

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**SPORTS**

Charger volleyball sweeps home tourney

Michael Napier
Sports Writer

The UAH volleyball team had a very successful weekend as they hosted the UAH Volleyball Tournament Friday and Saturday at Spragins Hall.

The Lady Chargers won six matches, including the final that saw them come back from two games down, to raise their record to 8-2. UAH has won eight consecutive matches going into the Mississippi University for Women Invitational this weekend.

UAH, West Alabama 1:
In the first match of round-robin pool play, UAH beat West Alabama 15-4, 16-7, 8-15, 15-7. Becky Stitt led the Lady Chargers with 13 kills and ten digs. Jill Simone had ten kills, Lisa Spencer had 26 assists.

"It was a good match in which everyone contributed," UAH head coach Laura Taube said. "Lisa Spencer did a good job at setter."

UAH, 3, Southern Indiana 0:
In the second match, UAH beat Southern Indiana 15-11, 15-9, 15-8. The match had a solid offensive effort by both teams with a combined 39 kills in the game. "We had a great passing performance,"

See Volleyball page 12
SPORTS

UAH Men's soccer charges over LMU in first GSC game

Julie Woltjen
Athletic Department

Huntsville, Ala. — The University of Alabama in Huntsville men's soccer team won their first ever Gulf South Conference game on Sunday, by defeating Lincoln Memorial University, 7-1.

This is the first year ever for the GSC to sponsor soccer as a conference sport. Soccer became an institution at UAH in 1969 and has been a member of the NCAA Division II since 1986.

"The guys knew this was a conference match, the first of the season," said UAH Coach Carlos Petersen. "They went out there and set the tone for what we're capable of doing.

While they had a few lapses, we were able to recover and solidify this first conference win."

The Chargers lost 4-0 at the half.

Goals were made by UAH's Ross Comeaux, one goal and two assists; Shaun Hunter, one goal and one assist; Fred Ssekitokeko, two goals; Fred Kalule, one goal; Lincoln Ziyenge, one goal; and Matthew Miniestaedt, one goal and two assists.

Chris Maltzoe and Adam Burke shared goalkeeping responsibilities and the game win. The Chargers are now 3-0.

UAH also defeated Carson-Newman College on Saturday, 5-1. William Jagwe (2), Hunter, Ziyenge, and Trey Knox each scored goals.

NOTICE!
The new time for Pulse submissions is now NOON on Fridays!

Women's cross country take first

Tammy Hoskins
Athletic Department

The University of Alabama in Huntsville men's and women's cross country teams participated in the Alabama A&M Invitational on Saturday, September 7, 1996.

UAH's women placed first out of three teams in the 3.1 mile course.

UAH Men's soccer charges over LMU in first GSC game

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1996 Intramural Sandpit Volleyball

Men's Division I

Teams Wins-Loss Rank

Blue Balls 1-0-0 1
Smack 1-0-0 1
Crazy-cuz 0-1-0 1
Prozac Moment 0-1-0 1

The UAH men's team made five saves.

1996 Intramural Sandpit Volleyball

Women's Division I

Teams Wins-Loss Rank

UAH 0-3 3

1996 Intramural Sandpit Volleyball

Men's Division II

Teams Wins-Loss Rank

Sandlot 1-0-0 1
Kappa Sigma 1-0-0 1
Delta Chi 0-1-0 3
Sigma Nu 0-1-0 3

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3.5 GPA Genuine Nerd $175 $195 $235 $295
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4xCD-R0M, 3.5 and 5 1/4 drive

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The men's results were:

Winners Losers

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SPORTS

Volleyball from page 10

game," Taube said. "We also served very aggressively which kept them off-balance. We beat a very good team."

Stitt led UAH again with 13 kills, ten digs and six blocks. Stephanie Osborne added ten kills, Tiffany Williams served four aces.

UAH 3, King 1

In UAH’s first match of Saturday to finish pool play, the Lady Chargers defeated King College 14-16, 15-6, 15-8, 15-8. UAH fought off a rather weak first game before cruising.

Stitt and Osborne each had 15 kills and three aces. Osborne also added 15 digs, while Stitt and Amanda Stamps had three blocks.

UAH 3, West Georgia 0: In the semifinals, UAH eliminated West Alabama 15-6, 15-7, 15-7. Stitt led UAH with nine kills, while Simone added nine digs. Williams had three aces.

UAH 3, West Alabama 0: In the semifinals, UAH eliminated West Alabama 15-6, 15-7, 15-7. Stitt led UAH with nine kills, while Simone added nine digs. Williams had three aces. Stephanie Trammel had 22 assists in the final two games after Spencer had 13 in game one.

UAH 3, Southern Indiana 2: In one of the most thrilling matches in University of Alabama-Huntsville volleyball histo-

Julie Wolftjen
Athletic Department

The University of Alabama in Huntsville has named Scott Stapler as graduate assistant coach for the Charger men’s basketball program. Stapler is a graduate of Auburn University where he earned a BS in health and Human Performance.

While at Auburn, he served two seasons as student assistant coach under Cliff Ellis. Stapler was also a stand-out point guard at Grissom High School for his father, Coach Ronnie Stapler. Prior to attending Auburn, Stapler played point guard for a season Walker Junior College before transferring and playing at Northwestern Louisiana for a year.

While at Grissom, he helped lead his team to two Alabama State Tournament final four appearances, winning the championship title in 1987-88. Stapler was also honored in 1988-1990 his senior year, by being named to the All-State team. "Scott is an outstanding young man who will be a real asset to our program," said UAH Coach Bill Peterson. "He is very mature and proud for a young coach, being around the game all his life has really been beneficial to him."

Scott will be working with the post players and will be in charge of film exchange, scouting, and heavily involved in recruiting.

Scott is currently earning a Master’s in Physical Education from Alabama A&M University.

1996 Intramural Flag Football

Division I

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