Students go behind the scenes of the music industry

When people think of a music career, they typically think of being the one in the spotlight — the singer, the guitarist or the drummer.

But for every Mariah Carey, Travis Tritt or Mike Portnoy there is a Timbaland, Linda Perry, Kevin Shirley, Brian Eno or Henry Panion, Ph.D.

“Many kids will be impressed and infatuited with some of the artists they see and they don’t have a clue what really goes on behind the scenes,” says Panion, professor of music and director of the Music Technology Academy. “Our goal is to show them what’s behind the scenes, because that is vital to the finished product. For every one artist that has a career in front of the microphone there are 10 or 15 more you don’t see.

“Not everybody can be a star, but a significant amount of money that is made...”

Jeffrey Gray, Ph.D., associate professor of computer sciences in the UAB School of Natural Sciences & Mathematics, was named Alabama Professor of the Year by the Carnegie Foundation for the Advancement of Teaching during an awards luncheon Nov. 20 in Washington, D.C.

The award is co-sponsored by the Council for Advancement and Support of Education (CASE) to recognize university educators that excel in teaching both on and off campus. CASE and the Carnegie Foundation have honored a single university professor from every U.S. state annually since 1982.

Gray is the second UAB faculty member to win the honor; Associate Professor Joe March, Ph.D., in the Department of Chemistry received it in 2003.

“Worthy of honor

Gray was recognized for his positive impact on and involvement with undergraduate students and for his scholarly approach to teaching. He works closely with his UAB students as the director of the campus Software Composition and Modeling Laboratory, a facility that focuses on software engineering and automated evolution of large-scale software.

Gray, who received high marks for his contributions to education in the larger Central Alabama K-12 community, also initiated a statewide technology competition.

Beyond the traditional school year, he also has helped establish successful annual summer camps in Birmingham, in which...”

Walthall promotes hope to kids through love of science

It’s just after lunch when the students begin making their way back into the GENEius laboratory in the McWane Science Center. Students learn more than just science in Walthall’s classroom; she was raised in a dangerous neighborhood, but rose above the obstacles to earn a doctorate degree.

Sabrina Walthall gives area high-school students a lesson on molecular biology in the GENEius laboratory in the McWane Science Center. Students learn more than just science in Walthall’s classroom; she was raised in a dangerous neighborhood, but rose above the obstacles to earn a doctorate degree.

Walthall promotes hope to kids through love of science

High-school students and faculty experiment with various sound generators at the recent Music Technology Academy, hosted by the UAB Department of Music. The free, intensive, full-day workshop featured hands-on instructional sessions on production, engineering and recording.
Woolfolk award nominations sought

Nominations are being solicited for the Odessa Woolfolk Community Service Award.

This award was established by UAB to recognize one of its faculty who has rendered outstanding service to the Birmingham community in one or more areas of education, economic development, health-care delivery, the arts, social services, human rights and urban and public affairs.

To be eligible, a person must currently hold a full-time regular faculty appointment at UAB, as defined by the Faculty Handbook, and have completed at least one academic year in this position.

The recipient of the Odessa Woolfolk Community Service Award will be recognized at the annual Faculty Awards Convocation March 23, 2009, and will receive a $2,500 cash award.

A nomination package should consist of the faculty member’s resume, a brief statement indicating why the person is to be considered for the award, a one- to two-page description of the community service for which the award is sought and a maximum of five letters of recommendation. This information should be submitted to the Office of the Associate Provost for Undergraduate Programs and Faculty Affairs (AB 374, +0103) by Thursday, Feb. 5, 2009. Direct questions to 934-0513.

Scholarship of Teaching Grant Program accepting applications now

The Scholarship of Teaching Grant Program is accepting funding applications from full-time faculty for as much as $5,000 for projects that advance the development of critically reflective knowledge about teaching and learning.

Priority will be given to applications that address student retention, student engagement/active learning/ critical thinking, instructional strategies including blended/online learning and/or assessment of student learning.

Applications are available at www.uab.edu/provoest. Submit 5 copies to the Office for Faculty Development and Faculty Affairs, AB 374 no later than Jan. 5, 2009.

Hospital Auxiliary pecan & candy sale in final week

This is the final week for UAB Hospital Auxiliary’s pecan and candy sale. The sale takes place from 9 a.m. to 1 p.m. Monday and Thursday in the North Pavilion Atrium and Tuesday from 9 a.m. to 1 p.m. in the West Pavilion Atrium. Please direct questions to the UAB Gift Shop at 934-6434.

Junior faculty should apply for research support funds

The Clinical and Translational Science Award KL2 mechanism will be awarded to help support two junior faculty as CCTS KL2 Scholars facilitate their development and participation in the conduct of clinical and translational research.

Funding will be available to KL2 scholars for up to five years. Receipt of a KL2 award will provide salary for protected time devoted to both formal research training and for hands-on research. The application deadline is Dec. 15. Contact Audrey Wrenn at awrenn@uab.edu or 975-8333 for application materials.

Howard to speak at Research Forum

The UAB Center for Clinical and Translational Science is sponsoring monthly presentations in its Research Forum highlighting significant accomplishments and opportunities in translational research.

The December forum will feature George Howard, Dr.P.H., chair of the Department of Biostatistics, presenting Breaking the Paradigm of Clinic-Based Research: How Can We Increase Participation in Clinical Trials and for Hands-On Research. The application deadline is Dec. 15. Contact Audrey Wrenn at awrenn@uab.edu or 975-8333 for application materials.

Holiday shop with one stop at the ASC

Finish your holiday shopping early with one stop at the Alys Stephens Center’s Gift Shop and Gallery open house, 4 to 7 p.m. Monday, Dec. 8, at the center. Enjoy complimentary wine and cheese, prize giveaways and a 10 percent discount. Among the featured items are jewelry, velvet scarves and pashminas, unique and music-inspired gifts, CDs, children’s books and ASC gift cards.

A gift card from the Alys Stephens Center makes a perfect holiday treat—personalize it for anyone on your list. An ASC gift card isn’t just the gift of entertainment, it also supports the arts.

Combine tickets to a show with a CD for a music lover, or add dinner out to create an elegant evening on the town. Give a gift card good for a children’s show for a young family. Have a jazz lover or classical music enthusiast in mind? Create a themed gift with tickets and select embellishments from the ASC Gift Shop.

Gift cards from the Alys Stephens Center can be used for any show presented by the center and are available in any denomination. To purchase a gift card, or request a free brochure, call the ASC Box Office at 975-2787 or visit www.AlysStephens.org.
Students get a taste of service with Habitat fundraiser

Jeff Fifolt, Ph.D., and Sandhya Kumar are a generation apart. Fifolt is the director of assessment and planning in Student Affairs. Kumar is a junior in the Honors Psychology and pre-Med programs.

But the two have a shared interest in service to others. Kumar as the president of the UAB student chapter of Habitat for Humanity and Fifolt as its advisor.

Kumar, along with vice president Jennifer Ghandhi, organized the Nov. 12 competition “From Gingerbread House to Habitat Home” at the Spencer Honors House to raise money for Habitat for Humanity International (HHI). HHI is a nonprofit, ecumenical Christian, housing ministry that seeks to eliminate poverty housing and homelessness from the world and to make decent shelter a matter of conscience and action. Habitat has built nearly 300,000 houses around the world, providing more than 1.5 million people in more than 3,000 communities with safe, decent, affordable shelter.

One of the goals as a campus chapter, along with supplying a steady flow of volunteers to the Greater Birmingham Habitat affiliate, is to have fundraisers for Habitat for Humanity International,” Kumar says. “In the past the organization has held bake sales. We wanted to do something different and fun and perhaps pull from a wider range of people to participate.”

Service to others

Twenty student, faculty and staff teams paid $20 each to participate in the event that raised more than $450 and promoted efforts to eliminate substandard housing and homelessness. Teams had a maximum of five members and had 30 minutes to complete their gingerbread houses. All participants in the top three teams received a prize mug with candy and a value package pass for Riverwatch Brunswick Lanes. The top team also received movie tickets. Prize prizes, which included gingerbread house kits, passes to Ventana Bowl and tickets to Village Tavern for free appetizers and desserts, were also awarded.

Individuals from the community donated money to cover the cost of the basic materials for the competition, and each team was allowed to bring in any alternative supplies they might have wanted to use. Children of Habitat homeowners were the judges.

“The gingerbread house fundraiser involved people in a way that doesn’t require them to make a large commitment of time,” Fifolt says. “It promoted awareness for our organization and the community outreach it undertakes and hopefully inspired others to service.”

Fifolt and Kumar say they developed an interest in this particular kind of service in college.

Fifolt began his work with Habitat for Humanity as a graduate student at South Carolina after participating in its Alternative Spring Break, a program he later advised at UAB in 1995. Alternative Spring Break provides students an opportunity to spend their traditional spring break time rehabilitating and building houses. UAB has partnered with Habitat for Humanity for years, and students have traveled to South Carolina, North Carolina, Kentucky, Florida and Oklahoma to spend their week building homes.

“I think the neat thing is to see students come back energized and transformed,” Fifolt says. “That’s helped our chapter significantly.”

UAB’s chapter was founded several years ago after an Alternative Spring Break trip. Kumar participated in Alternative Spring Break as a freshman, traveling to Rocky Mountain, N.C., for five days of work.

“I had always wanted to participate in Habitat but couldn’t until I turned 18; that’s part of their rules,” Kumar says. “Once I came to UAB, it was amazing to see so many students interested involunteering. It was easy to join and participate.”

Empowering volunteers

UAB’s chapter committed to five workdays locally this fall and consistently had at least 20 volunteers work every other Saturday. Almost 30 volunteers participated in the final weekend of work in an Ensley neighborhood that is made up almost exclusively of Habitat homes.

“There is one house completed, and three or four more are under construction,” Kumar says. “It’s been great to go work and just see the progress. We had such a great response from our chapter this fall that we’ve scheduled six workdays for the spring.”

Fifolt says the reason the Greater Birmingham chapter is successful is because the program empowers those who volunteer.

“They aren’t interested in bringing people on just to be gophers or do menial tasks,” Fifolt says. “They’re interested in people learning how to put a roof on or build a wall. I think they know the time they spend investing in the people coming out to those workdays is time well spent. I think it’s empowering to students.

“I know it has been empowering to me when I’ve been on those sites,” he adds. “You don’t have to come in with all the skills or knowledge. There are people there who are willing and more than eager to teach.”

The Birmingham chapter is ranked in the Top 10 of more than 1,500 Habitat for Humanity affiliates in the United States, 40 new houses have been completed in 2008, an increase of 12.5 percent. “To be ranked at such a high level is a wonderful thing for the city and a nice thing to be a part of as an affiliate,” Fifolt says.

“Students like Sandhya and Jennifer are great representatives for the organization because they have that passion for service to the others, which is something I think we’re seeing more from students coming to UAB,” he notes. “The more UAB can do to provide opportunities and support for Habitat and other types of service organizations, the better our university will be. We certainly will be able to attract high-quality students and people.”

Contact Kumar at slkumar@uab.edu to learn more about the UAB Chapter of Habitat for Humanity.

And the winners are...

Winners of the 2008 “From Gingerbread House to Habitat Home” competition:

1. Army ROTC (Kelly Donna, Lee Scott, Jen Scott, Ryan Jones and Carolyn Carter)
2. (tie) Alpha Xi Delta
2. (tie) American Marketing Association
3. (tie) Honor Society
4. (tie) Natural Sciences & Mathematics
5. (tie) English and Foreign Language
6. (tie) Biology
7. (tie) Finance
8. (tie) Nursing
9. (tie) Psychology and Social Work
10. (tie) American Marketing Association

The winners will be honored at a reception at the Spencer Honors House Nov. 12.

From left to right Amanda Minnix, Sybil Sexton, Jackie Stafford and Jessica Williams receive their Gingerbread House at the “From Gingerbread House to Habitat Home” competition Nov. 12 in the Spencer Honors House. The event, hosted by the UAB Chapter of Habitat for Humanity, raised more than $400 for Habitat for Humanity International.

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UAB well as we look to recruit the best of the next generation of computer scientists because students want to work and learn with the best, and Jeff is the best.”

Gray is a six-year member of the UAB faculty. His research focuses on technologies that assist in automating many of the tasks of software development. A 2007 National Science Foundation Faculty Career Award winner and chairman of the Alabama Institute of Electrical and Electronics Engineers (IEEE) Computer Society, Gray received his Ph.D. in computer science in Vanderbilt University in 2002. His undergraduate and graduate work at West Virginia University earned him a B.S., summa cum laude, in computer science in 1991 and an M.S. in computer science in 1993.

Hear Gray explain his work in a video interview at http://main.uab.edu/education/Media/Relations/articles/543500. More about Gray’s background is online at www.cis.uab.edu/gray/, and a link to his outreach programs archive is at www.cis.uab.edu/gray/outreach/outreach.html.

November 24, 2008 UAB Reporter 3
Freshman teach elementary Dollars and Sense lessons

The School of Business and Junior Achievement are providing finance-literacy lessons to area grade-schoolers, giving UAB students an opportunity to better understand economic and financial principles.

Dollars and Sense is a first-year Freshman Learning Community (FLC) course. UAB students visit Epic and Glen Iris elementary schools to teach five 45-minute lessons during the fall semester. The topics cover basic business and economic principles, including balancing a checkbook, using an ATM card, urban zoning, reading blueprints and building a city.

“This is a fantastic way of empowering young people,” says Norma-May Isakov, director of the Office of Service Learning. “The program ensures that UAB students understand basic concepts in economics and business, and helps young people in our community understand finances, how a city works and how banking works.”

The FLC is the first for the School of Business, says Stephanie Rauterkus, Ph.D., assistant professor of finance and instructor for the course. Rauterkus says the FLC is a service-learning opportunity for students that comprises 15 percent of their grade.

Junior Achievement, a non-profit organization dedicated to educating students about workforce readiness, entrepreneurship and financial literacy through experiential, hands-on programs, provides the curriculum for this program and the training to UAB students.

Rauterkus says the partnership has been so successful it will continue next fall.

“Junior Achievement asked if they could continue to partner with us and apply for grant funding,” Rauterkus says. “We’ve committed to a long-term relationship with them because this has gone so well. It’s been better than I could have imagined.”

Getting the big picture

Rauterkus has been surprised that her students have become so engaged in teaching the elementary students. Some looks of concern were evident on the faces of her students when she first mentioned the service-learning component. After all, how does talking to an 8-year-old about business concepts help them?

Rauterkus explained the benefits and positives from the opportunity the students were being given. Still, she says, they had to buy in – and they did.

“Our students really are getting the big picture of this service-learning opportunity as it relates to their own studies,” Rauterkus says. “Explaining these economics fundamentals helps reinforce the upper-level concepts we’re learning in the classroom: what it relates to their own studies,” Rauterkus says. “Explaining these economics fundamentals helps reinforce the upper-level concepts we’re learning in the classroom: what’s going on with the economy, how bad decisions by lenders have lead to a foreclosure crisis, how bad decisions by individual investors and homeowners have led to additional problems. They get that an understanding of the fundamentals is important to every one because bad decisions snowball into bigger issues.”

Adam Arnold, a freshman pre-business major from Hoover, says the experience has helped him in several ways.

“It’s a good way to reiterate topics we’ve covered or should already grasp,” Arnold says. “If you can break these concepts down so a third-grader can understand, it shows you know the material pretty well. Plus, I’m taking public speaking, and this is helping me be more comfortable speaking in front of a group. I know they’re kids, but they are always going to ask you a question.”

And those questions can be creative. After all, what do all those lines on the blueprints mean?

“One day they were doing scales of blueprints, trying to understand how 1 inch equals 10 feet,” Arnold says. “I drew some boxes on the board and just tried to break it down for them, and it helped him understand it more. You’ve got to be creative and break it down so they can understand it.

Arnold says he is profiting from the opportunity to teach these courses. “I certainly don’t think doing this is a waste of time,” Arnold says. “I think it’s helping the kids, too. They enjoy it as much as we do.”

Rauterkus also has mid-semester evaluations coming in to her from teachers at Glen Iris and Epic praising the students’ work.

“The teachers all have commented on how wonderful our students are doing,” she says. “Not only have they gotten great economic lessons taught by our students, but their students have gotten role models. Neither side could have asked for a better partnership.”

SABRINA WALTHALL

CONTINUED FROM PAGE 4

student off guard, but it’s okay by his uncle that he’s just getting started. Walthall is quick and sharp in her responses, and she has earned the respect of the 20 area students in the room who are visiting the lab for a day as part of UAB’s Center for Outreach and Development’s (CORD) GENius Program.

GENius is a laboratory experience in molecular biology and genetics for high-school biology students. The program is a collaboration between CORD, Birmingham City Schools and the McWane Science Center. Grant support comes from a Science Education Partnership Award (SEPA) from the National Institutes of Health’s National Center for Research Resources, the Alabama Commission on Higher Education and UAB’s Center for AIDS Research.

At GENius, students engage in challenging, daylong, hands-on experiments in which they explore molecular biology. Walthall directs the program, which is responsible for providing the students with a brief glimpse into molecular biology and its influence on the future of science, medicine and everyday life. By these experiences she inspires excitement for studying science.

Her goal is to convince these students that an exciting career in science is within their reach, of this, she is certain.

Powerful message

Walthall also directs the sister BioTeach program, which trains area science teacher students in molecular biology, and she visits area schools spreading her love for science. What she takes her lab toys and expounds on the virtues of science — especially lab-based science — and tells the students about the many possibilities they have for a professional future in the field.

Walthall learned that for herself an early age while growing up in the Southside Homes project in Bessemer, a rough-and-tumble neighborhood filled with drugs, violence and little hope. She was fortunate. Her grandmother Catherine Johnson and two elementary school teachers pushed her to excel and wouldn’t let her accept failure — not in the classroom or circumstance. It’s a message she shares in the classroom at McWane and countless high schools across Birmingham.

“I really try to talk to the students about not allowing their circumstances to affect where they will end up in life, because I understand how it is,” Walthall says. “I talk about that because those are things I’ve gone through.”

“I tell these kids to have that inner voice of their own that says ‘I want this, I really want to do this,’ and I can do it.” You have to continuously fight for what you want.

“We can do better”

Walthall says her grandmother always stressed to her that life extended well beyond the end of her street. She viewed living in the projects as a short-term option.

“Explaining these economics fundamentals helps reinforce the upper-level concepts we’re learning in the classroom: what’s going on with the economy, how bad decisions by lenders have lead to a foreclosure crisis, how bad decisions by individual investors and homeowners have led to additional problems. They get that an understanding of the fundamentals is important to everyone because bad decisions snowball into bigger issues.”

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Sabrina is just unbelievable in her outreach to both students and teachers,” says Mike Wynn, Ph.D., director of CORD. “She’s a tremendous role model for these young children. She shows them all they can make a difference in science. Just as important, she shows graduate students and postdoctoral fellows who facilitate GENius that they can make a difference throughout their careers.”

And that is how Walthall gets her greatest thrill. She wants every student to believe something greater is in their future and fight for it.

A young man approached her after a genetics class she taught as a GK-12 Fellow with CORD at Carver High School and said, “I didn’t like science as much until I met you. I really like it now, and I plan on majoring in it in college.” Her words overwhelmed her.

Today, that student is a biology major at Tuskegee University.

“To have that kind of an impact on a student really makes you feel good,” she says. “That’s what you want, to get at least one to say, ‘OK, if she did it, I can do it.’ That’s the best thing.”

UAB freshman students Zach Stoltzten (left) and Adam Arnold teach students basic economic principles at Epic School. Stoltzten and Arnold taught five classes this fall at Epic as part of their Freshman Learning Community Course Dollars and Sense. The topics covered balancing a checkbook, using an ATM card, urban zoning and other issues.
Economy taking a bite out of hospital Christmas toy fund

Millions of children around the world will wake up to Christmas morning and run to a lighted tree laden with toys and gifts that they will treasure for months to come. But that heartwarming ritual is missed by families of children in UAB Hospital awaiting a transplant, fighting cancer or seeking treatment for some other disease. For almost three decades, the Hospital Maintenance Department has given these children a Christmas to remember with a trip to Santa’s elves among UAB employees and friends. “Their business is slow because of the economy, and it’s greatly affected the amount we’ve been able to raise,” says Doug Williams, an electrician who is directing the department’s fundraising efforts for the seventh year. But this year’s donations are lagging, likely due to the nation’s economy. “We’ve had vendors tell us they can’t help us out this year,” Williams says. “Their business is slow because of the economy, and it’s greatly affected the amount we’ve been able to raise.”

Hospital Maintenance hopes to find more support from Santa’s elves among UAB employees and friends. “We took a shot and gave it a try,” says hospital spokesperson Myla McAfee. “It was a once-in-a-lifetime opportunity,” added Brown. “Not many other people my age can say they had the opportunity to do that.”

Generating excitement for science was a primary goal of a project conducted partially out of the Center for Biophysical Sciences and Engineering (CBSE) under the direction of Larry Delucasc, O.D., Ph.D, CBSE director and former astronaut. University of Alabama at Huntsville researcher Joe Ng asked Delucasc to be a part of a grant he was awarded from NASA to conduct a protein-crystallization experiment. Ng had students and teachers from five schools in Huntsville participate, and Delucasc asked the students and teachers of Huffman High and Indian Springs schools to be a part of the project. Delucasc lectured to the students at UAH, and Ng came to UAB to return the favor this past spring. The students learned about crystallization and crystallizing, their importance in drug discovery and the ways molecules work in the human body. The students learned to grow crystals in their own school laboratories and then came to UAB to prepare the actual flight experiment. “It took about one hour to teach them how to carefully prepare these samples,” Delucasc says. “There are some unique aspects to the hardware. You have to melt the tubing that contains the crystals, and you have to double-seal it on two ends. We had to use a special NASA and Russian-approved sealing device. That was probably the trickiest part, but it didn’t take very long for them to learn how to do that.”

“They did it! I pretty much stood back and watched them do it.” The crystals were launched into space aboard a Russian Soyuz rocket along with private astronaut and famed video-game developer Richard Garriott, who spent 11 days in space, visiting the International Space Station. The students returned to UAB earlier this month to see the results of their experiment, and they were surprised by the results. “Seeing how different the data was from Earth to outer space was pretty remarkable,” McAfee says. “The crystals grew much slower but better in outer space than the ones we grew here in the lab. Generally, the slower a crystal grows the better it will be.”

Michal Robinson, a biology teacher at Huffman, says the students were excited about growing the crystals in their school lab after learning the techniques earlier this year. “It was a great experience for the students and students are invited to attend. Gifts keep giving The Child Life Program, which cares for hundreds of children at UAB every year, helps reduce the stress experienced by children and families and helps them cope with potentially traumatic situations. This toy drive helps fill the toy chest in the playroom on 5 North.”

Jane Love, director of Child Life, says the playroom is a magical place for children and their parents. “Our playrooms have a calming effect on anxious children,” Love says. “Every day we see children — many who come in for the first time — who are afraid of the hospital and the medical staff. Once they walk into the playroom this strange place becomes a friendly one, with a dollhouse and games and wagons and cars to ride. This would not be possible without the toy drive that our Maintenance Department does year after year,” she says. “This fund makes it possible for us to purchase these toys and all of the arts and crafts, crayons and coloring books and movies.”

Love says families often thank her for this bright spot during a frightening time in their lives. “For some of our parents important and lasting memories of their children are made in this room,” Love says. “Child Life and the 5 North Staff are thankful for the Maintenance Department and the UAB family who support this endeavor.”

If you would like to make a donation to aid in the purchase of toys and supplies for the program, please send a check payable to the UAB Maintenance Pediatric Toy Fund, 619 19th St. South, Room 3036, Birmingham AL 35245.

For more information on the Christmas Toy Drive celebration please call Williams at 934-8618 or dowlwilliams@uab.edu, or Tabatha Isaac at 973-2321 or tisaac@uab.edu

Extreme student project was literally out of this world

Marzell McAfee and Brandon Brown were excited to learn that their Huffman High School biology class would be conducting a science experiment at UAB during their junior and senior years. When they learned their projects would be launched on a spacecraft, well, their anticipation was suddenly out of this world. “When they told us the experiment was going to outer space,” says McAfee, “everyone was like, ‘Outer Space? Are you kidding?’ That was the coolest thing.”

“‘And to be able to work with a real astronaut, one who’s been to outer space, was a once-in-a-lifetime opportunity,’ added Brown. “Not many other people my age can say they had the opportunity to do that.”

Generating excitement for science was a primary goal of a project conducted partially out of the Center for Biophysical Sciences and Engineering (CBSE) under the direction of Larry Delucasc, O.D., Ph.D, CBSE director and former astronaut. University of Alabama at Huntsville researcher Joe Ng asked Delucasc to be a part of a grant he was awarded from NASA to conduct a protein-crystallization experiment. Ng had students and teachers from five schools in Huntsville participate, and Delucasc asked the students and teachers of Huffman High and Indian Springs schools to be a part of the project. Delucasc lectured to the students at UAH, and Ng came to UAB to return the favor this past spring. The students learned about crystallization and crystallizing, their importance in drug discovery and the ways molecules work in the human body. The students learned to grow crystals in their own school laboratories and then came to UAB to prepare the actual flight experiment. “It took about one hour to teach them how to carefully prepare these samples,” Delucasc says. “There are some unique aspects to the hardware. You have to melt the tubing that contains the crystals, and you have to double-seal it on two ends. We had to use a special NASA and Russian-approved sealing device. That was probably the trickiest part, but it didn’t take very long for them to learn how to do that.”

“They did it! I pretty much stood back and watched them do it.” The crystals were launched into space aboard a Russian Soyuz rocket along with private astronaut and famed video-game developer Richard Garriott, who spent 11 days in space, visiting the International Space Station. The students returned to UAB earlier this month to see the results of their experiment, and they were surprised by the results. “Seeing how different the data was from Earth to outer space was pretty remarkable,” McAfee says. “The crystals grew much slower but better in outer space than the ones we grew here in the lab. Generally, the slower a crystal grows the better it will be.”

Michal Robinson, a biology teacher at Huffman, says the students were excited about growing the crystals in their school lab after learning the techniques earlier this year. “It was a great experience for the students to try to grow them and see what kind of growth patterns there were and how the whole process worked,” Robinson says. “It was independent work in addition to what we were doing in our class. They would come in during the day and pull out the microscope every week or so and see what was happening. They’ve learned what’s it’s like to do research and learned that it’s very tedious. But it was such a valuable experience.”

Nasa was interested in the experiment to see whether the protein found in tiny organisms called extremophiles would crystallize under microgravity conditions. Extremophiles can thrive in extreme hot and cold temperatures and are found in places like Antarctica and near volcanoes. Crystalization is essential for protein engineering and drug design. The experiment that the students worked on could lead to a greater understanding of the atomic details of the three-dimensional structures for the extremophilic proteins, which could have commercial value in drug development. The experiment is the first attempt to crystalize some of the extremophilic proteins under microgravity conditions. Ng and Delucasc intend to send the results to an educational journal for publication. “We’re going to publish the fact this was an experiment designed for education, and the results were really fascinating,” Delucasc says. "We had 150 students involved. I don’t know if we can that many co-authors, but if that’s not possible they’re certainly going to be in the acknowledgments, all their names and the participating high schools. I know the students learned a great deal, and I hope this gets them excited about science, technology and engineering."
defenses

For a complete list of defenses and other Graduate School events, visit the Calendar of Events located in the Students section of the Graduate School Web site at www.uab.edu/graduate.

meetings

Tuesday, Nov. 25, Dec. 2

9 am Chinese Conversation Table; HB - 3rd fl “The Hub”, Humanities Building. Juncheng Chen, junchen08@uab.edu or foreignlangs@uab.edu.

10 am International Women’s Group, provides activities to meet the cultural and social interests of the international community. Smolian International House. 4-1205 or Ifetomi@uab.edu.

11 am Arabic Conversation Table; HB - 3rd fl “The Hub”, Humanities Building. Ms. Elmaher Zeiden, elmaher@uab.edu or foreignlangs@uab.edu.

12:10 pm Meditation, UAB Resource Center Classroom, Suite 330. Call 4-2281/ www.uab.edu/ eap for more info.

2 pm Spanish Conversation Table: Intermediate/ Advanced, HB - 3rd fl “The Hub”, Humanities Building. Centeno centeno@uab.edu or foreignlangs@uab.edu.

3 pm Spanish Conversation Table: Level: Beginner, HB - 3rd fl “The Hub”, foreignlangs@uab.edu.

7 pm Conversational English Classes levels 1 - IV, offered free to those interested in enhancing their English conversational skills. Smolian International House. 4-1205/ carola@uab.edu.

Wednesday, Nov. 26, Dec. 3

10 am Conversational English Classes levels 1 - IV, offered free to those interested in enhancing their English conversational skills. Smolian International House. 4-1205/ carola@uab.edu.

Noon French Conversation Table: Commons on the Green cafeteria. Look for the French flag in the side dining room! Catherine Danielou at danielel@uab.edu or foreignlangs@uab.edu.

8 pm Italian Conversation Table; HB - 3rd fl “The Hub”, Humanities Building. Arnaldo Cicciotteli cicciotteli@uab.edu or foreignlangs@uab.edu.

Exhibits

The Samuel Ullman Museum. Home of prominent Birmingham civic leader and poet. Open by appointment only, 4-3328.

Alabama Museum of the Health Sciences. Helen Keller Art Show of Alabama. An annual art show for students who are visually impaired, blind or deafblind. Sponsored by UAB Vision Science Research Center Educational and Outreach Module. LHL-3rd floor, 4-4475

Visual Arts Gallery. Juried student annual exhibition. The best works of art created by students in the UAB Department of Art and Art History. Juror to be announced. 900 13th St. S. Admission is free. Through Dec. 5. 4-0815.

WBHM-FM, 90.3

90.3 WBHM-Birmingham and 91.5 WSGN-Gadsden broadcast NPR News and information programming as well as classical music, 24 hours a day. NPR News programs offer a thorough, in-depth approach to the news of the day on program such as “Morning Edition” and “All Things Considered”. Thoughtful, intelligent talk and discussion can also be heard middays on program such as “The Diane Rehm Show”, “Fresh Air” and “Talk of the Nation.” “Tapestry” is WBHM’s signature local program featuring interviews and local stories on Birmingham area arts and culture. Weekend highlights include popular shows such as “Car Talk,” and “A Prairie Home Companion.” For a complete program line-up, go to www.wbhm.org.

Special events

Monday, Nov. 24

7 pm UAB Gospel Choir. Gospel Anthology, an experience of centuries of African-American music. The UAB Gospel Choir, along with director Kevin P. Turner, celebrates its 13th anniversary by presenting their first ever “Gospel Anthology” concert in four acts. The evening will feature the 150-voice UAB Gospel Choir and Band and the Mime and Dance team, with the choreography of Christina Jones. General admission tickets are $7; $5 for UAB students/employees with valid I.D. Jemison Concert Hall. More info, call 5-2787.

Sunday, Nov. 30

3 pm Alys Stephens Center. An afternoon with Frank Stitt featuring Warren St. John launching Stitt’s new book Bottega Favorita. Tickets are $65 and include a copy of the book signed by both Stitt and St. John and a post-show reception featuring delicious culinary samples from the book and complimentary wine tasting. Seating is limited. Call 5-ARTS for tickets.

Monday, Dec. 1

 Noon-2 pm Public Health. World AIDS Day 2008 Symposium. Male circumcision for HIV-1 prevention in men and women by Dr Ronald Gray (Robertson Professor of Reproductive Epidemiology at Johns Hopkins) and State of the CFAR lecture by Director Michael Saag (UAB Center for AIDS Research); Margaret Cameron Spain Auditorium. Lunch is served at noon.

Tuesday, Dec. 2

7 pm Music. UAB Jazz Ensemble conducted by Steve Roberts; Jemison Concert Hall. Free. 5-2787.

Wednesday, Dec. 3

Noon Music. UAB Department of Music Student Recital. Husley Recital Hall. Free. 5-2787.

Friday, Dec. 5

3:30 pm Music. UAB Jazz Ensemble, conducted by Steve Roberts. Jemison Concert Hall. Free. 5-2787.

Saturday, Dec. 6

3 pm Music. UAB Middle School Honor Bands Concert. Jemison Concert Hall. Free. 5-2787.

Sunday, Dec. 7

1 & 3 pm ASC Kids’ Club. A Dickens Vest Pocket Christmas Carol, an original ASC production. The audience is invited to follow the journey of Ebenezer Scrooge as he is confronted with eternal regret or redemption in this Christmas tale. Children and families can come early for each show to enjoy holiday cookies in the lobby. Tickets are $7. Reynolds Kirschbaum Recital Hall. Call 5-2787 or visit www.AlysStephens.com for more info.

3 pm Music. Christmas at the Alys, the Music choirs as they present this holiday favorite. Free. Jemison Concert Hall. 5-2787.

UAB Sports

Nov. 26: Women’s Basketball vs Auburn, 7 pm Bartow Arena

Nov. 28: Women’s Volleyball vs Cincinnati, 7 pm, Bartow Arena

Nov. 29: Women’s Volleyball vs Florida A&M, 3 pm, Bartow Arena

Dec. 3: Women’s Basketball vs Florida; 5:30 pm, Bartow Arena

Dec. 3: Men’s Basketball vs USF, 8 pm, Bartow Arena

Upcoming events

Second City’s Holiday Revue at the ASC Dec. 14

The Alys Stephens Center presents “Second City’s Dysfunctional Holiday Revue” at 2:30 and 7:30 p.m. Sunday, Dec. 14, at the Alys Stephens Center. Tickets are $45, $35 and $25; students $20. Enjoy holiday magic and eggnog one hour before each show. Call 975-2787 or visit www.AlysStephens.org for more information.

Second City’s Dysfunctional Holiday Revue is the perfect alternative to the same old holiday shows. It’s a raucous blend of sketches, songs, improvisation and seasonal satire.

An evening with Second City gives audiences the chance to see comedy stars in the making and they’ll see absolutely hilarious satire and cutting-edge improvisation. No topic or subject matter is off limits.

January events at the Alys Stephens Center

Jan. 11 - Peabody Trio at 4 p.m.

Appearing on NPR’s “Performance Today” and “Saint Paul Sunday” and performing at Tanglewood and Alice Tully Hall, the Peabody Trio is resident ensemble of the Peabody Conservatory. For this performance, composer Harold Meltzer, recipient of the 2004 Samuel Barber Rome Prize Fellowship from the American Academy in Rome, will narrate his chamber work, “Sindzer, recipient of the 2004 Samuel Barber Rome Award in 1995. Tickets are $55, $45 and $35; students $20.

Jan. 16 - 18 - Complexions Contemporary Ballet, 7:30 p.m. Friday and Saturday; 2:30 p.m. Sunday

This show is part of the 2009 Alabama Dance Festival. Tony-nominated Desmon Richardson, one of today’s greatest modern dancers, and Dwight Rhoden, one of dance’s most sought-after choreographers (both of Alvin Ailey fame) combined to form Complexions, recipient of the coveted New York Times “Critics Choice” Award in 1995. Tickets are $55, $45 and $35; students $20.

Jan. 18 - Reflect & Rejoice: A Community Tribute to Dr. Martin Luther King Jr., 3 p.m.

The Alys Stephens Center proudly continues the tradition of honoring Dr. King through music and spoken word. The ASC partners with the Birmingham Civil Rights Institute and Alabama Symphony Orchestra in a joyous program of music to remember the past and imagine the future.

Continue the experience and enjoy a free Prelude musical discussion at 7 p.m. and a post-performance reception with Dr. Mays hosted by the Birmingham Music Club Guild. Tickets are $45, $35 and $25; students $20.

Call 975-2787 or visit www.AlysStephens.org for more information on any of these events.
Please join us on December 3rd as we celebrate the completion of UAB Athletics’ three newest facilities. Tour the Don M. and Marsha Hoke Hire Student-Athlete Academic Center and the new weight room and training room, enjoy refreshments, and catch the men’s and women’s basketball teams in action.

Come early and see the progress we are making off the court. Stay for the games and see the progress we are making on it.

For more information, visit uabsports.com, or call 975-UAB1.

UAB EMPLOYEES: RECEIVE TWO TICKETS TO EACH GAME FOR JUST $20! • CALL 975-UAB1 TO ORDER!
Bernice Bowen was emotionally spent after losing her job during cutbacks at the First United Methodist Child Development Center five years ago.

“I was kind of down,” she says. “I didn’t know what was going to happen, or what I was going to do.”

But Bowen’s fortunes quickly turned. She was hired as an Environmental Services Specialist at UAB on Nov. 18, 2003, responsible for the second and fourth floors at Zeigler Research Building.

“I can’t say enough about how the people on my floors made me feel so welcomed and so loved,” Bowen says. “I forgot pretty quickly about how I lost my other job.”

Bowen has made quite an impression on her co-workers in her time at UAB as a hard-working, honest professional with a smile and a warm personality endearing to those she encounters. Bowen has been rewarded for her work as November’s Employee of the Month.

“When Bernice first came to work on the second floor of the Zeigler Research Building we all knew we had a guardian angel in our midst,” says Sharon Hagy, program coordinator in Infectious Diseases. “Bernice exemplifies how every UAB employee should perform and is an inspiring person to be around.”

Pleasant and friendly are words co-workers often associate with Bowen. They also say she is constantly in motion.

“Bernice is one of the most conscientious employees that I have encountered in my many years here at UAB,” says Ann Dillashaw, clinical trial specialist in Infectious Diseases. “When I come to work and see her smiling face in the morning it makes my day go better. If I come in and have a load she comes and unlocks my office door.

“Her work ethic and quality of work is the best. She is a friend to all of us.”

Bowen says her affable demeanor and penchant for hard work are gifts she shares with her mother, brother and sister. “Everyone in my family is outgoing, and we love to make people laugh,” Bowen says. “But I also take pride in the work I do. I take my time doing what I’ve got to do, and when I get it done I always look at it and ask if it’s good enough.”

Jane Schwebke, M.D., professor of medicine in Infectious Diseases, says Bowen is dedicated to doing her job well — even when it comes to tackling a messy desk.

“She is truly outstanding in her work and always does a great job,” Schwebke says. “She is quick to respond to issues and goes out of her way to keep our offices clean, even trying desperately to keep my desk clean.”

Her attention to detail often earns Bowen many compliments from her co-workers. But in the end, they always come back to the fact that she does her job with a cheerful personality.

“I have never seen her without a smile on her face and a cheerful attitude and always with a professional attention to detail,” says Frank Burrientes, research assistant in Infectious Diseases. “I have seldom run across such people in my whole life — they are truly happy with work, life and themselves. Bernice makes you feel good, no matter what kind of day you are having. She is the kind of person that makes UAB a home.”

Gwen Juett, supervisor of Building Services, says Bowen is deserving of the award.

“We are so happy for Bernice for this honor,” says Juett, Bowen’s supervisor for the past two years. “She does an excellent job in the Zeigler Building, and when she is teamed up with other employees to do extra assignments she does a tremendous job. She has an excellent attendance record and is a pleasure to work with.”

Bowen ‘makes UAB a home’

Bernice Bowen, an environmental services specialist in the Zeigler Research Building, is November’s Employee of the Month. If you know someone who should be employee of the month, nominate them by sending a letter to Jason Turner at jturn1@uab.edu or visit www.uab.edu/eotm.

MUSIC

CONTINUED from page 1

does not always go to the person in front of the mic.”

High-school music students and K-12 music teachers got a glimpse of that action at a recent Music Technology Academy in the UAB technology lab and recording studio. The free, intensive, full-day workshop featured hands-on instructional sessions on production, engineering and recording. Informational workshops on computer-assisted instructional tools and computer music performances also were studied.

Panion and Co-Director Scott Phillips, Ph.D., also guided the 32 teachers and 24 students through a recording session, enabling them to use software for teaching, studying and performing music and giving them hands-on work scoring, recording and writing music.

Their objective is to give students and teachers useful knowledge and valuable skills for employing music technology in their classrooms and also make students aware of college and career opportunities in music technology.

“Technology has affected every field, music included,” Panion says. “We want to expose these students and teachers to the latest trends and developments, and we’re fortunate to have some wonderful facilities that enable us to do that.”

LEADER IN THE FIELD

The Department of Music is one of the few in the nation to offer students a degree in Music Technology, and it has been a leader in the field for 15 years.

Panion’s career as a Grammy-, Dove- and Stellar-award winning composer, conductor, producer and arranger gives him a grounded perspective of the music industry, and it enabled him to begin incorporating music technology and multimedia production in his classrooms in the mid-1990s. In fact, it was during one of his classroom lectures on orchestration when students began asking Panion about works of 10th-century composers.

They simply wanted to know, “How’d you do that?”

“What I began to do in those classes was begin to incorporate a few things I was doing to show them how I was using my knowledge of music and technology with artists like Steve Wonder,” Panion says. “I just grew from that to offering a few more courses to finally offering a full-fledged degree.”

The music-technology program has provided great opportunities for UAB students. Several have won fellowships to New York University and Northwestern University because of the musical foundation and technology background they received here. “This degree makes them very competitive,” Panion says.

GROWING ACADEMY

Panion held the first music academy for high-school students in 2005 and immediately saw the potential of the program.

He sent out invitations encouraging students to apply for the 15 available slots. Students had to show their music experience, their GPA, volunteer work and get a letter of recommendation. Panion received more than 70 applications.

“Most important, the caliber of students that were applying was tremendous,” Panion says. “They were all 3.85 or higher on their GPA. They all had opportunities to go to schools all over the country, and they wanted to come here to check out this program. I thought it would be a simple community-service project.”

Panion says the music academies go a long way toward selling the program to prospective students. The students and teachers attending this academy came from as far north as Nashville, as far east as Alpharetta, Ga., and as far south as Mobile.

“When you think about the field of music technology and what goes on behind the scenes — signal flow and electrical engineering, computer science, acoustics and the physics of sound, the business of marketing and selling music, especially via the Internet — you can get all of this and more in the music technology program at UAB,” he says. “The skills learned in our program are transferable to so many other fields. And the academy is a great to draw people from so far away and show them what we have. Hopefully it will lead to some of those teachers sending their students here for their collegiate education.”

UAB Reporter November 24, 2008

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Do you or someone you know have cystic fibrosis? The UAB Center for Nursing Research has launched a study to examine pain experienced by patients with CF. Visit the site in a browser regarding CF and also take part in a new on-the-record-research study. Participate now and help contribute to 2-3 hours total (7 hour in session). Compensated $50. Dr. Rajesh Kana 990-9356.

Are you a veteran receiving care at the Birmingham VA Medical Center? If so, you may qualify to participate in a mental research study. Becoming a part of a mental research study involves participating in a clinical interview, computerized tasks, and laboratory testing and will take about 4 hours. Compensation up to $500. Dr Rosalyn Weller 4-8586.

Are you currently taking medications for your high blood pressure and still have blood pressure readings greater than 140/90? Eligible participants may qualify for an implantable watch device that monitors your blood pressure and may be able to reduce the frequency of visits to the clinic. The implantable watch device is worn on the wrist 24 hours a day. You will have a small skin incision and a small band around your wrist. A thorough sleep evaluation will be done to determine your sleep quality. You will also have brain imaging (MRI) in the study. Call 934-8586 and ask about the study. Compensation. 4-3013.

Do you currently have or have you had a condition called Chronic Obstructive Lung Disease or COPD? Come to see if you might be eligible to participate in a study comparing two treatments for COPD and to receive free lab testing at no cost. Compensated 4-5555/4-5600.

Healthy Caucasian and African Americans needed for a smoking cessation study. You will be provided with a telephone counseling program and support. Compensation up to $1000. Dr. Christian Choussat 4-2174.

Are you a veteran receiving care at the UAB Clinic Al to study the use of the arm affected by the stroke. No compensation. You may be eligible to participate in a study for up to 6 months. Evaluation, pencil and paper memory testing are needed to participate in the study. If you have a history of diabetes or heart disease, or use medications for blood pressure, you may be eligible. Compound interest or cash compensation of up to $258 will be paid to those who complete the study. Call 996-9813.

Are you in reasonably good health with type 1 or type 2 diabetes and are not taking diabetes medications at all? Eligible study participants will be enrolled in an investigational drug for patients with coronary artery disease. Eligible study participants will need to be 18-80 years of age, have a history of cardiovascular disease or have a history of diabetes. Compensated up to $1,202. Dr. Kenneth Saag 888-534-0367/ 888-534-0368.

Do you have a history of depression? If you have 2 or more depressive symptoms - sadness, loss of interest, fatigue, less energy, difficulty concentrating, and/or thoughts of death - you may qualify to participate in a study investigating a new treatment for depression. Compensation up to $500. 996-9813.

Are you a healthy adult 19 to 50 years of age with a BMI of 25-30 and a history of hypertension? You may be eligible to participate in a study comparing medications at no cost. Compensation up to $750. 5-7238.

Are you a healthy adult taking at least two medications at home? If you are interested in implants who are missing 2 or more teeth, you may qualify to participate in a study conducted by the UAB Dept of Dermatology. Compensation up to $500 compensation. Dr. Christian Choussat 4-2174.

Are you a male veteran? If you are at least 50 years old and have had a stroke, TBI and/or caregivers of women with disabilities needed for a TBI and caregivers study. Receive lung function test at no cost. Compensated. James 4-7774/7775.

Are you postmenopausal women at increased risk of osteoporosis due to menopause for a breast cancer treatment study. Jena Faust 5-1910.

Are you a postmenopausal women interested in implants who are missing 2 or more teeth? If you are in reasonably good health with type 1 or type 2 diabetes and are not taking diabetes medications at all, you may qualify. Compound interest or cash compensation of up to $258 will be paid to those who complete the study. Call 996-9813.

Are you a student and 18-20 years of age and interested in implants for a study? If you are interested in implants who are missing 2 or more teeth, you may qualify. Compensation up to $500. 934-8586.

Are you a postmenopausal women interested in implants who are missing 2 or more teeth? If you are in reasonably good health with type 1 or type 2 diabetes and are not taking diabetes medications at all, you may qualify. Compound interest or cash compensation of up to $258 will be paid to those who complete the study. Call 996-9813.

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Furnishings
Lea’s girl furniture, white, water-proof paint, live
with headboard, nightstand, dresser, chest,
prices vary, contact Lisa 595-9950.

2 brand new executive tables, oak finish,
desk, chair, & computer chair, 2 dressers, 3 bureaus, 6
bedside tables, 2 mirrors, ask for price. Lisa 595-9950.

Side-drawers with cut-out, white, 2-drawer file, 3-drawer
file, ask for price. Lisa 595-9950.

Leather sofa, $250. 824-ball.

35-ft. 5-berth motor home, $40,000. 595-9950.

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The Carriage Company—brick, computer table &
desk chair, black computer table & desk chair on wheels, $45. 979-
4736/15-6740.

tree—left, brick, 4 chairs, bench, rectangular, 16-
3 x 27’; seats 6, 6-mat, sell $600; sell $120, cast
goosneck, cast aluminum (3 left), $450 for set of three.

Free 42” x 70” plate glass mirror & frame
counter top; granite countertop w/backsplash,
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counter top; granite countertop w/backsplash,
Shoo rentals: we also condition walkers coats to help. Properly trained available.

Typesetting/design: Do you need personalized greeting cards, programs, invitations, business cards, stationery or flyers? May 3:15-6:15/ 6-7:15

Professional photographer: Chris Brown, 11 years experience. Bessemer area. 205-681-7787. 369-6921/chrisbrown66@gmail.com

Home remedy wanted for another maid service, but a real cleaning specialist, cleaning what the other guys left behind. No job to small. Call for a deep deep clean. Rhonda 807-3508

Remodeling & repair: remodel, repair, additions, kitchens, bathrooms and more. Licensed and insured. 908-8819.

Vaporban from Cloudy: use for only when you need it. 7 am-4 pm Mon-Fri. Monday-Friday 8 am-5 pm. http://www.vaporban.com.

Vaporban cost: 556-9833/3157. garved@vaporban.com.

Vaporban offer: we will help your keep your business with a squigly clean appearance. It won’t just look clean, it will be clean. Call for estimated. 367-8577/3481

Professional videography: Gavin Phillips has more than 35 years experience filming weddings, sporting events and other special occasions. Comparative rates. 566-1893/5187 garved@vaporban.com.

Vaporban prices: anything from turn-ups to performal parts. Convenient to UAB. Call Charlie 401-8946.


Looking for a reliable contractor to work on your personal or business project. Work includes painting, sheet rock, deck repairs, and roofing. Martin 240-1297 for free estimate.

Concrete and masonry work: Spicializing in driveways, patios, and areas, and landcaping. Reasonable rates! 504-0863.

Pet/house sitting: 4 yrs experience all types of pets. 907-2396. 908-8819.

Wanted: need for riders for new vanpool to work between Clearwater & St Petersburg area players. Call: 407-227-0675.

Vanpool from Cloudy: use for only when you need it. 7 am-4 pm Mon-Fri. Monday-Friday 8 am-5 pm. http://www.vaporban.com.

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Concrete and masonry work: Spicializing in driveways, patios, and areas, and landcaping. Reasonable rates! 504-0863.

Pet/house sitting: 4 yrs experience all types of pets. 907-2396. 908-8819.

Wanted: need for riders for new vanpool to work between Clearwater & St Petersburg area players. Call: 407-227-0675.
The Multicultural Scholars Program, formerly the Minority Scholars Program, is a four-year initiative to prepare select students for graduate and/or professional schools. The primary focus of the program is academic excellence and social development. The motto that describes this initiative and its focus is “each one, reach one.” MSP takes students from the freshman year to graduation and beyond by providing intense academic support, research and internship opportunities, and leadership development.

**MSP Success Initiatives**

- Academic excellence
- Leadership development
- Scholars Honors Program
- Peer-mentoring program
- Internship and research opportunities
- Service-learning experiences
- Faculty and staff mentoring
- Study-abroad opportunities
- Professional and graduate school preparation
- Career counseling
- Awards/Graduation Program
- MSP Alumni Chapter

**REACH US**

For additional information, contact UAB Student Retention Programs.

(205) 934-8804 or studentretention@uab.edu

For program and eligibility requirements, visit www.uab.edu.