Mission Complete
Up close with NASA’s chief flight director
UC launches careers, aerospace research
“It suddenly struck me that that tiny pea, pretty and blue, was the Earth. I put up my thumb and shut one eye, and my thumb blotted out the planet Earth. I didn’t feel like a giant. I felt very, very small.”

— Neil Armstrong, UC professor, aerospace engineer, astronaut, first man on the moon
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Green option: If you would prefer to receive “UC Magazine” electronically rather than in print, please fill out the form at www.magazine.uc.edu/gogreen.
LETTERS

Championship memories
The last two issues of “UC Magazine” were great and brought back lots of memories of the NCAA basketball championships of 1961 and ’62 over Ohio State. When I saw the team pictures in the December 2010 issue, I laughed as I have both pictures framed together along with autographs from Oscar Robertson (even though he was not on those teams) and Tony Yates. It is great to see that UC will celebrate these championships over the next two years.

In the April 2011 issue, I saw that alumni are looking for videos of those championships. While I don’t have videos of the games, I do have a unique video that was originally taken with an 8mm camera when the team came back to our fieldhouse after the championship. I have Paul Hogue carrying the trophy high above his head, then each player being recognized as they stood on a chair and were announced.

Obviously, there’s no sound. (Remember, folks, it was 50 years ago.) I took the videos as I did a lot of that for the SAE [Sigma Alpha Epsilon] fraternity at the time. I later put it on a DVD for our pledge class’s 50th reunion.

It was also great to see a letter from Hal McGlathery, Bus ’62, from West Virginia. Interestingly, we went to grade school together before I moved to Cincinnati. Years later, I met Hal as we registered as freshmen in 1958, and he was a cheerleader during our championship seasons.

Hal is on the video, also, as well as coaches Ed Jucker [Ed ’40] and Tay Baker [Ed ’50, Med ’57]. I was also on that train ride to Evansville that Hal wrote about when we had a playoff with Bradley for the Missouri Valley Championship. I will never forget all of us loading into cars to go to Fountain Square to celebrate that first championship — hanging off the Tyler Davidson Fountain and snake-dancing all through downtown Cincinnati.

Years later, we moved to Chicago, and I met a neighbor in 1971 who invited me and my wife, Sandy, to his house for dinner. As we walked in, he was playing a tape of the 1963 UC-Loyola of Chicago Championship game, which we lost in overtime. We would have been the first team to win three in a row.

He smiled and said he was on the Loyola team that beat us. It was not an enjoyable meal, but we became close friends with Tom Markey and his wife, Marge, who now live in Cincinnati.

I am going to send a copy of the video to “UC Magazine.” I may hear from many alums, but hope Hal McGlathery reads this and wants a copy.

Mike Simpson, Bus ’63
Frisco, Texas

Editor’s reply: Mike Simpson did indeed send us the video. You can watch it at www.magazine.uc.edu/extra. Also look for a link to his Homecoming video there.

Band set stage for ’61 champs
I was in what was known as “the varsity band,” the first full UC band to play at tournament games. The year before, UC had sent a 12-piece pick-up group to the national finals in San Francisco; however, in the ’60-61 season, the band became official under the direction of Bob Hornyak.

Prior to the start of the UC-Ohio State final in 1961, Hornyak had us play “Across the Field,” Ohio State’s fight song. We started it off at the regular, rousing tempo, and the Buckeye fans went wild. Then Hornyak slowed it down to a funeral dirge and set the stage for the game to come.

Larry Shuman, Eng ’65
Pittsburgh

Cheer UC goals
We both agree how much we enjoy getting the magazine. Every article is so pertinent. The photos in the April issue are especially beautiful and could be postcards — proceeds to the Alumni Association, perhaps.

We both appreciate and value the education we have from UC, and we continue classes through the Osher Lifelong Learning Institute. But a good education from pre-K through college does not end with a degree.

Enhancing our own lives with critical-thinking skills, influencing our children’s values and enabling us to make contributions to society through work and volunteerism has immeasurable dollar value. We cheer the wonderful growth and goals of UC and other fine institutions of education and humanitarianism.

Renee, A&S ’77, and James Durham, MS (Eng) ’71
Cincinnati

Finding Phil Foster

DAAP photo mystery solved
We originally found the photo (at right) in files at UC’s Archives and Rare Books Department. We knew nothing more than the college and year, but we believed our readers would fill in the missing data if asked. And you certainly did.

More than two dozen of you identified the beloved professor Phil Foster, wearing his signature bow tie. Some of you also furnished student IDs. Imagine our surprise when the female student in the picture, Suzi Lesh Gerstl, called us one day to share her story, too. Finally, the photographer contacted us.

Underneath the photo is a short biographical sketch of Foster and a link to a digital archive of his artwork. Below we share a letter from Gerstl, a note from the photographer and excerpts from other alumni letters. Thanks for taking our little request so seriously.

Students identified
I was surprised to see a photograph of our painting class (c. 1963) in your April issue. In an instant, I was back 48 years ago sitting in the studio listening to the gravelly voice of professor Foster, smelling paint and linseed oil, and enjoying DAA’s endless view of Burnet Woods. The unidentified are: professor Phil Foster, Bill Seiple, Stan Wachter and myself.

Those were golden years, our time of artistic endeavor. The campus was small, and everyone knew each other at least by sight. No computers, cell phones or even color TVs to distract us.

We studied in an ultramodern building at the edge of campus, complete with a gem of a library on the second floor. Students in DAA worked long hours, but
it was a labor of love.

We had amazing students and professors: Mr. Quale, freehand drawing; Mr. Grooms and Mr. Foster, painting; Hope Warner, history of civilization; Dr. Issay Balinkin, physics; plus many others. All were authorities and inspiring.

Balinkin, physics; plus many others. All were authorities and inspiring.

Beautiful, calm and insightful Mary Light headed our department. She never missed a beat and led us girls in design technique.

There was little pressure. We put that on ourselves. Rather, we were encouraged to follow our creative spirit.

It wasn't all work — lots of parties, almost every weekend. At one luau, the guys brought in sand for the floor and fashionable palm trees. At another, we met in a former speakeasy. The exotic Beaux Arts Ball gave "arties" a chance to strut their stuff.

And who could forget the super elegant dinner thrown by Lambda Chi's? It was going great until a loud explosion emanated from the kitchen. Their ambi-

Photographer revealed

Photographer revealed

Photographer revealed

Photographer revealed

Photographer revealed

Photographer revealed

Phil Foster was a wonderful artist and an excellent teacher. He always wore a bow tie that matched the color of his socks, even in the 1970s. He lost an eye in an accident and had a glass eye that he would pop out during class to wipe off with his handkerchief.

Phil Foster was my mentor, teacher and adviser. I always kept in touch with him, and in the early '80s, I visited him out at his studio in Miami town, where his wife still lives.

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And who could forget the super elegant dinner thrown by Lambda Chi's? It was going great until a loud explosion emanated from the kitchen. Their ambi-

It was a wonderful run. I treasure the time spent at UC. Thank you for your beautiful magazine and bringing back memories.

Suzi Lesh Gerstl, DAAP '63
Miami, Fla.
President Richard
Thursday evening
around UC's campus.
a peaceful march
students conducted
speech, about 2,500
Following his
troops to Cambodia.
Nixon announced
APRIL 30,
4 University of Cincinnati
was not a permanent one.
class at 6:30 p.m. Fortunately, that schedule
was not a permanent one.
The “UC Magazine” staff is doing an
excellent job. It just seems to my 91-year-
old eyes that the print gets smaller with
each issue.
Miriam Deshon, Aë&S ’41
Cincinnati
Phil Foster used to sit and visit with
students, as the picture shows. He was an
exceptional teacher and had great rapport
with his students.
Alice Springfield, DAAP & Ed ’66
Fort Collins, Colo.
The stories we could tell you about
Phil. We had a life class with him, and the
famous life model was Florence. She would
come out in draped fabric and pose.
Someone in class, who shall remain
unnamed, put handprint paint splatters
on the fabric with paint the same color as
the fabric, so you couldn't see it. Florence
got up from lying on the floor, and she had
handprints on her butt and all over.
Judy Walters Powers, DAAP & Ed ’57
Cincinnati
Phil Foster, a painter and a great guy,
always had time for students and their
needs. I was an adjunct instructor in the
mid ’70s, and Phil was one of my favorite
faculty.
Dave Hunt
Via email
The haircut, glasses and bowtie are
unmistakable of Phil Foster, DAA's
esteemed painting prof. His widow, Jane,
cares for Phil's legacy of beautiful watercol-
ors and arranges for exhibits.
Jane Naberhaus Gardner, DAAP & Ed ’57
Cincinnati
Phil Foster was an excellent teacher. He
hosted his students at his home from time
to time. I hope he is not forgotten.
Jack Ians, DAAP ’56
Marietta, Ohio
I came here in ’73, and Phil Foster
became one of my mentors. He made a
place for me in the university and was part
of the group who created an art depart-
ment at the college. I have gratitude for
those who came before me.
John Stewart
Professor, DAAP School of Art
Phil and Jane Foster lived on the banks
of the Miami River, and I used to go out
there to fish. I rarely caught anything,
but it was a lovely spot. Thanks for the
memories.
Dick Stevens
Via email
I don't know the name of the young
woman, but I do remember her walking
through the open end of the quadrangle
on her way to and from DAA.
William White, Eng. ’63
Victoria, Texas
Old-time memory
Phil Foster must have been born a
curmudgeon. He was a wizened Popeye
of a man who was the greatest art teacher
I will ever have. He's the only person I've
known who could mix white, yellow and
green pigment into a beautiful blue hue.
Most of the mythic stories about him
are true. I witnessed this iconic example:
Phil didn't teach you to draw; he taught
you to see.
His technique involved capturing a still
life with a single line that divided your
canvas precisely in half. The drama of that

1970 revisited

Thank you so much for the informative “University of Cincinnati Magazine.”
However, I would like to add my own
perspective on the history depicted in the
letter headlined “’70 Campus Closing.”
On April 30, 1970, President Nixon
appeared on television to say that he
had invaded Cambodia to cut off supply
routes to the North Vietnamese attack-
ing South Vietnam. College students
nationwide reacted with protest rallies.
(Many students who were eligible for
the draft protested loudest, believing the
Cambodian incursion would extend the
duration of the war.)
At UC, students marched down Clifton
Avenue then dispersed. That week, how-
ever, the protesting escalated, and students
occupied the UC Administration Building,
abetted by cheering crowds outside.
After a day of being ignored by UC’s
president, some engineering students real-
ized that the administration building was
not vital to university operations. So they
led 75 to 100 students from the adminis-
tration building to the building housing
the university financial offices and com-
puters. An administrator tried to block the
entrance, but the students rushed in. By
the next day, the university announced it

T I M E L I N E  O F  E V E N T S

APRIL 30,
Thursday evening
— President Richard
announced
the deployment of
troops to Cambodia.
Following his
speech, about 2,500
students conducted
a peaceful march
around UC's campus.
MAY 1, Friday — Early in the morn-
ing, demonstrating students and others
marched through UC’s campus twice, caus-
ing city police to restrict vehicular traffic to
the campus.
Around 9:45 a.m., an estimated group of
800 to 1,000 people headed downtown
to take part in a sit-in at the intersection of
Fifth and Walnut streets. Police directed
traffic around the demonstrators, but began
asking them to disperse around 11 a.m.
At 11:30 a.m., police insisted the group
disperse. At noon, paddy wagons backed
slowly into the crowd, and approximately
150 were arrested.
By 7 p.m., all had been released, except two
who requested to remain in jail.
MAY 4, Monday
— At Kent State
University, the Ohio
National Guard shot
and killed four stu-
dents and wounded
nine others.
MAY 5, Tuesday morning — UC executive vice
president Ralph Bursieck officially called off
classes for the day. (President Walter Langsam
was out of town.) Student Senate proclaimed
the date “The Day Against Violence.”
At 4:45 p.m., approximately 5,000-6,000 mem-
bers of the UC academic community marched
silently from campus to downtown Cincinnati
to protest U.S. policy in Southeast Asia. “The
march itself was quiet and uneventful, except
for one reported injury to a UC coed, struck in
the forehead by a rock thrown into the crowd
by a spectator on Clifton Avenue,” reported the
News Record the next morning.
At 7 p.m., students assembled for a 90-minute
vigil of silence in Nippert Stadium.
MAY 6, Wednesday
— Students peace-
fully occupied Van
Nixon announced
Wormer Administration
building. Ohio Gov.
James Rhodes recom-
manded that state
universities close, but
he left the decision up
to each school. (UC was
still a municipal school
at the time.) Estimates
indicate more than 900
institutions of higher
education closed across
the nation, roughly one-
third of all schools.
first line could be something to behold, but its complexity often eluded even the best of us.

When an ashtray was not close at hand and a student’s work somehow deserved it, Phil would put out his ever-present cigarette in a strategic location on your drawing. Funny thing was, it often made an interesting composition out of a mediocre exercise.

Jeff Seibert, DAAP ’81
Cincinnati

Editor’s note: Several years ago, the above came into the online magazine as a Favorite Faculty submission. We thought it was worth running in this edition of the print magazine, even though it is dated.

No space for sports clubs

In the picture of Sheakley Lawn [at right] in the April 2011 issue, you refer to students playing Frisbee when in actuality they are playing a game called Ultimate. The fact that they are sharing the field with another sport (lacrosse), both of which require a full-sized field to play the game correctly, reminded me of the ongoing problem of field space at UC.

I played Ultimate at UC in the early 1990s, and we had no field on which we could plan a practice then. We had to play on poorly maintained fields off campus. Unfortunately, that is still the case.

Even after adding Sheakley Lawn and the “bubble” [for indoor varsity team practices, especially football and lacrosse], club sports still cannot reserve a field for a specific timeframe and must compromise with each other if teams show up at the same time. I understand that scholarship sports come first and that the university wants equal access to green space for all students, but I feel there could be something done about this situation.

Club sports like Ultimate, lacrosse and rugby would undoubtedly become better at UC if there was a place for them to reserve a field for a couple of hours (even if it’s at 11 p.m.). Most universities I know, including Xavier, allow reserving fields...
for practices, and I am very curious as to why UC has held on to their policy of hindering the potential of club sports by not allowing them to reserve practice space on campus.

R. Keith Allen, Pharm ’95
Cincinnati

Editor’s reply: Sheakley Lawn is a turf-covered field created specifically for anyone to use at anytime. As such, it cannot be reserved.

Campus creates pride
I read the “UC After Hours” magazine from cover to cover and enjoyed every page of it.

I began my college training when I won a scholarship from Roger Bacon High School in 1943. By the time my high school class graduated, I had almost completed the first year of my college coursework because of an accelerated program.

When I finished my first year as a chemical engineering freshman in 1944, I felt that being in college was not for me. I withdrew and joined the U.S. Navy. In 1946, I came back to the College of Engineering through the GI Bill, and because I had electronic training in the Navy, I changed my major to electrical engineering.

Last year, I toured the campus with my brother-in-law, who graduated from the College of Medicine, and I couldn’t believe how much it had changed. If I had been dropped off anywhere on the campus, I doubt that I could have found my way to the old haunts of the 1940s. The campus is really different.

I stepped out of the room, and there was this odd “whooooshing” noise and then a huge SMACK as something hit the bend. I stepped out of the room, and there was this sandy, dusty stuff floating around in the air. The smoke detectors then went off, and we evacuated as per usual.

I was also at the implosion. A neighbor of mine worked for the construction company involved and got me a “backstage” pass. I took my 8mm video camera and a large garbage bag because I figured there might be some dust. There had also been warnings that week that there might have been asbestos used in Sander. I watched it fall, and recorded it, from a fairly close perspective near the church.

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It was like Derby Day with ladies dressed in fancy clothes and hats. When that thing came down, a huge cloud went up and moved directly toward us. It was pandemonium with everybody was racing around. I was very happy I’d brought a camera bag with me.

‘Magnificent,’ ‘perfection’
The magazine I received last week is magnificent. The concept, organization, text and super photography all blend to produce that magnificence. Inspiring!

Forrest “Frosty” Respass, CCM ’48
Deltona, Fla.

My heartfelt congratulations on the “After Hours” issue. It was a true work of publishing perfection. How things have changed since 1948!

Jean Kareth, Ed ’58, MS (Ed) ’64
Cincinnati

Enjoyed this issue very much. It’s worth keeping. Thanks.

Laureen Goss
parent of student Sean Goss

The editions of “University of Cincinnati Magazine” are terrific. The magazine is beautiful and so interesting to read. Thanks for producing such a great product! It is very upscale.

Ann Moore, Nur ’56 (Snugli inventor)
Evergreen, Colo.

Correction on CCM photo
Just an FYI: In the magazine photo showcasing CCM and UC Choir groups at Feast of Carols [below], all the young men wearing blue vests are not UC students. They are the St. Xavier High School Choir.

Becky Cornelius
UC professor, radiology & otolaryngology, head & neck surgery

The ‘sand’ in Sander
I lived in Sander for my freshman year, 1975-76, then returned as an RA for 1977-78 and ’78-79. We had a great group of folks, a crazy group, which was needed because those were crazy times.

One moment of many stands out. I was studying on a Sunday morning. The RA rooms were next to the trash chute, and my room on the sixth floor was right at the bend where the trash came down and changed course, or was slowed down, before making its way to the Dumpster.

As I sat there that morning, I heard this odd “whoooshing” noise and then a huge SMACK as something hit the bend. I stepped out of the room, and there was this sandy, dusty stuff floating around in the air. The smoke detectors then went off, and we evacuated as per usual.

Upon investigating further, we figured out that the guys upstairs — on the 19th or 20th floor — had a beach party the night before, complete with sand-filled baby pools. When they dumped the sand down the trash chute Sunday morning, it smashed the bend at my room and sent up a cloud of dust that got everybody up and out the door.

I was also at the implosion. A neighbor of mine worked for the construction company involved and got me a “backstage” pass. I took my 8mm video camera and a large garbage bag because I figured there might be some dust. There had also been warnings that week that there might have been asbestos used in Sander. I watched it fall, and recorded it, from a fairly close perspective near the church.

It was like Derby Day with ladies dressed in fancy clothes and hats. When that thing came down, a huge cloud went up and moved directly toward us. It was pandemonium with everybody was racing around. I was very happy I’d brought a camera bag with me.

Sander Hall implosion
20th anniversary stirs dusty memories
June 23 marked two decades since UC pancaked its tallest building with 520 pounds of dynamite. In about seven seconds, 27 stories were nothing but rubble. To celebrate the anniversary, “UC Magazine” posted a 1991 CCM-TV video online. Visit www.magazine.uc.edu extra to watch Sander Hall implode once again and read more stories.
In a few minutes, I rewound the video to check it out and make sure I got it. Then I shot a few minutes of the aftermath. Except I forgot that I had rewound the film before starting to shoot new scenes, so I taped over the great footage of the building going down. Fortunately, my sis knew a fellow who collected news footage and had him put together a VHS tape of all the news stories back to back so I got to see it from every angle later.

Steve Magas, Ed & A&S ’79
Cincinnati

‘Sander Box’ nickname

Sander Hall, or “Sander Box” as I called it, presented a unique weight-loss opportunity for me as I took the stairs and lived on the 17th floor. The view was spectacular. My room, number 1760, faced downtown, and I enjoyed it.

I was a transfer student in 1975-76, and the floors were co-ed by suites (i.e., men and women lived on the same floor). The walls were quite soundproof; I don’t remember being kept awake by Queen, Bowie, Pure Prairie League, the Allman Bros, Elvis Costello, Genesis or Springsteen.

It was interesting observing human behaviors during fire drills that sometimes happened late on weekend nights. Partying students had a difficult time negotiating the stairs to the ground.

I also remember students canvassed the endless traffic flow of students in and out of Sander Box to campaign for Jimmy Carter. I recall a Jimmy Carter peanut roach clip, an unusual souvenir of that era.

It was really a nice dorm, with convenient showers and ample space in all of the rooms.

Ruth Rossi, DAAP ’78
Cleveland

‘Death to Disco’ party

I lived in Sander Hall 1976-80 as an RA on the 10th floor for three years. My floor always had the best keg parties with the biggest party utilizing the cafeteria connected to Sander.

In the mid-’70s, you were either a disco lover or a disco hater, so we held a “death to disco” party. There were lots of kegs — so many that we shorted out half the campus. And there were lots of crushed disco records, which everyone put in a casket as they entered. Yes, a real casket purchased at Smilin’ Sam’s at the bottom of Vine Street.

Glad to see that disco really did die and that rock and roll is still alive and well.

Mike McGraw, Bus ’80
Easley, S.C.

A place for ‘transparency’

I lived in Sander Hall from 1974-77, the last year as an RA on the 17th floor. It was a great place to live and meet friends.

I remember specifically when the Reds won back-to-back World Series how much we came together as a group to celebrate. I also remember when the movie “Roots” showed, and the TV room was packed.

One funny item I was told, as were many, was that when the building was constructed, the windows were installed the wrong way. As a result, it was hard seeing out at night but much could be seen from the outside in!

Julia Barlow Sherlock, A&S ’80
Mount Pleasant, Mich.

Editor’s reply: Many lengthy discussions about building issues occurred before demolition, but no one recalls windows ever being mentioned. It sounds like an urban legend, but a highly entertaining one, so we’re not about to squelch it. (Visit www.magazine.uc.edu/extra to read other urban legends attached to UC.)
We did have a great view. Our suite looked out from the west (narrow) side of Sander Hall, and we could see most of the campus.

The real story I remember is that when we were returning from lunch one day, we got on the infamous elevators and had a full cab of about 15 people. But because the elevators were not always available, another group of people (jocks!) wanted to make sure they were on for this ascent, too. All told, another 13 got on (good luck).

I think the elevator was over capacity by about 10. We asked some not to get on because we knew we would be overloaded, but they didn’t want to be separated, so they piled in. “Sardines” was an appropriate comparison.

Well, the elevator started up, and we could tell that this was not going to turn out well. The elevator got to what I would guess was the 12th floor, and it ground to a halt after much straining. We all were a little ticked, because we knew our extra friends were the cause.

Being the jocks that they were, they started feigning being frightened and started yelling that the elevator was stuck, in their best mocking tones. To top that off, some of them started jumping up and down and yelling that the elevator was going to fall. By this time, a few of the original squished passengers were truly scared, so we had to ask our buddies to stop messing around.

Things got quiet, and we actually started to hear the cables stretching, starting with a medium “ding” and then proceeding every few seconds down the scale. By that time, things were getting very quiet and very smelly. We waited for about 20 minutes and finally heard another elevator.

Eyewitness account from UC videographer
by Jay Yocis, Univ ’70, DAAP ’91

The booming of the sequenced charges.
The sparkling falling glass.
The billowing dust.
The hordes of cheering onlookers.
What’s not to like about that?

— Jay Yocis is a photographer/videographer for Governmental Relations and University Communications.
come up beside us.

In a few minutes a firefighter opened a side panel, stuck his head in and said, “Yep, this is the elevator.” He closed the panel, and we didn’t hear anything else from him.

We waited another 15 to 20 minutes, then we started moving up slowly — we figured, by being cranked up manually. When we got to the 14th floor and the doors opened, the floor of the elevator was actually a half a floor below the building floor; the cables had stretched that much!

Most crawled out, and some waited for the elevator to be raised closer to the proper height. I’ll always remember that as a day that a few Darwin Award winners could have taken another 20 non-participants with them.

Other than that, most of our life was pretty dull. We had the usual mutts in our suite, including one guy, who will not be named, who earned a 0.25 his first arrogant quarter (all F’s and one D).

For those who need the “walked both ways uphill, in the snow” perspective, the sexes were separated, and we had to trudge down several floors to meet up with the opposite sex. Eventually the floors — then the suites — became co-ed, but we were the pioneers.

The following year, I moved off campus to Short Vine where I shared six rooms and two floors of a brownstone with five other people for a total of $16 a month per person. Take that, you whippersnappers!

Robert Mendlein, CAS ’74, BS (CAS) ’78
Cincinnati

Editor’s note: There was certainly an occupancy permit for the building. UC archivist Kevin Grace, MA (A&S) ’77, says the rumor could have started if someone discovered some sort of leftover permit in the building issued during construction, prior to occupancy. In regard to the new furniture disappearing, Grace agrees, “What I know for sure is that some students helped themselves to moving the furniture from the common area to their own rooms, but that was soon straightened out.”

Hard to get jocks out

I was an RA in Sander Hall during its first year. We had bomb scares and false fire alarms there almost every week — sometimes several times a week. I remember how it got harder and harder to get the football players to evacuate the building.

Diggs Dalton, DAAP ’75, MBA ’81
Chillicothe, Ohio

Thousand people in ‘jammies’

I was one of the first residents of Sander in 1971. As I recall, the Student Senate had argued before the “co-ed” dorm was built that it would not effectively be suitable for human habitation. Sander certainly proved that to be true.

How can I forget the almost nightly bomb scares that some fools called in to watch a thousand people in their jammies evacuate the building? After one cleared, my roommate, Randy Hoover [CAS ’72], and I decided to run up the 20 flights of stairs to our suite. I thought I was certainly going to die.

And if anyone had a class on Monday afternoon, he had to leave an hour early because at least one of the three elevators was used for laundry and another was inevitably out of service. But the view to the south was spectacular!

I think UC missed a fundraising opportunity by not raffling chances to push the detonator for the demolition.

Michael Ruberton, A&S ’73
St. Louis, Mo.

Editor’s reply: We were unable to confirm the Student Senate argument, but UC archivist Kevin Grace suspects complaints didn’t come prior to the dorm opening. “It is unlikely something like this would have been said before construction,” he says, “as the students weren’t knowledgeable about Sander’s architecture.”

Black smoke poured out

I remember the day of the Sander Hall fire on the sixth floor — December 1981 around lunchtime, I think. I was in my room on the ninth floor, and it was finals time. The fire alarm went off, and, as always, down the steps we went.

After getting to the lobby, my friends and I were about to go to SAGA for lunch (Soviet Attempt to Gag America). Just then some guy ran up the stairs and said, “Hey, guys, it’s a real fire. A girl just got through throwing a chair out of the window!”

Everyone left the lobby where the cafeteria was and went outside to the front. Sure enough: There was a girl leaning outside her window with black smoke just pouring out over her head.

She was moving around, but leaning out of the window to the point that it looked dangerous. All we heard were fire engines and horns all over the place — like all of the Cincinnati Fire Department was coming from every direction!

Then we all noticed two local TV news stations with helicopters flying around.

This was big news; the tallest dorm in Ohio was on fire.

After some time, most of us left and went to the Calhoun cafeteria to eat lunch. Later that day, we were able to go back to our rooms. Until the day we all checked out, the sixth floor still smelled smoky.

I liked Sander Hall and have very good memories of it.

William Randolph Jr., A&S ’88
Germantown, Md.

Nightly fire alarms

Let’s be real. Sander Hall was a disaster waiting to happen. I lived there one year, 1979-80. Guys used to take pride in punching large holes in the walls. I knew a guy who tried to shove a Coke machine down an elevator shaft.

The nightly fire alarms were a joke. They got to the point that it was a game to see if you could hide from the RA and not evacuate the building. I recall kids throwing M-80s down the trash chute, which sounded like a cannon. Many of the freshmen who lived there didn’t make it back for year two, and all they wanted to do was party hard.

My most lasting memory of Sander Hall was watching the 11 o’clock Al Schottlekotte news on a 6-inch black and white TV the night of The Who concert stampede (and wondering why I wasn’t there) and voting for the first time in the cafeteria lobby.

Sander Hall — good riddance!

George Thomas, Bus ’83
Cincinnati

Saw it fall from a distance

Memories of my time at Sander were during my freshman and sophomore years, 1978-80. Exam weeks were most always haunted by the very early morning fire alarms. Being on the 11th floor, it took about 40 minutes to get out of the building and stand in the cold. Spring brought a welcomed view of the sundock on the top of Daniels Hall next door.

On the morning of the implosion, I waited to watch the event on TV at the scheduled drop time but there was a delay, and I had to leave to open my pharmacy. I was heading to work eastbound on I-275 to Blue Ash. At the I-275/I-75 interchange you can look south and see the taller buildings at UC. To my surprise, I saw the dust plume like a mushroom cloud rising from the spot where Sander once stood.

Chris Bavaro, Pharm ’85
Cincinnati
Tattling tumors
Pediatric researchers have developed a genetically re-engineered herpes virus that selectively hunts down and infects cancerous tumors, then delivers genetic material that prompts cancers to secrete a biomarker to reveal their presence. Currently being tested in the lab, the novel technology could vastly improve cancer diagnosis by allowing the disease to be caught at much earlier stages and to monitor the effectiveness of therapy.

Biomarker for cancer
Many men could be spared invasive testing to confirm a prostate-cancer diagnosis based on new UC research, reported in the British Journal of Cancer. A specific cancer biomarker in the blood (known as GSTP1) shows promise as a screening tool and could increase the specificity of prostate cancer diagnosis by up to 70 percent, compared to the traditional test that cannot differentiate between prostate cancer and benign prostate conditions.

Therapy by nanoparticle
Researchers have known for years that RNA — ribonucleic acid, the cousin of DNA — is a promising tool for nanotherapy, in which therapeutic agents can be delivered inside the body via ultrafine “nanoparticles.” But producing long-lasting, therapeutic RNA that remains stable and nontoxic while entering targeted cells has posed difficult challenges.

Recently, UC biomedical engineering faculty have published details on how to successfully produce large RNA nanoparticles that can more effectively deliver therapeutics to diseased tissues. The milestone in RNA nanotherapy was published in the journal Molecular Therapy.

Telemedicine for veterans
Local veterans with traumatic brain injuries will soon be able to receive cognitive therapy from trained professionals in their homes with their families, thanks to a newly funded telemedicine program. Developed by experts from the Cincinnati Department of Veterans Affairs Medical Center and UC College of Allied Health Sciences, the program provides veterans with computers equipped with interactive therapy software and videoconferencing capabilities so they can receive cognitive therapy in their home or work environment at their convenience. The goal is to improve veterans’ access to care and help them relearn how to regulate their environment and avoid anxiety while adjusting to a regular home life and employment.

Preventing rejection
UC transplant surgeons completed the first head-to-head comparison of the three most common agents used in the early post-transplant period to prevent rejection following kidney transplantation. Results published in the New England Journal of Medicine provide a strong evidence base for clinicians to weigh advantages and disadvantages of available treatments to obtain higher patient and transplanted-organ survival rates.
When UC President Gregory Williams took the stage at the downtown Cincinnati Public Library in July, he joked about having been afraid no one would show up. As he spoke, however, library employees were setting up several more rows of chairs to accommodate the crowd.

Williams talked and read from his book, “Life on the Color Line: The True Story of a White Boy Who Discovered He Was Black.” When he was a child, he told the crowd, libraries were important places where he could read about heroes. “I spent hours in libraries to escape the reality of my own life.”

One unidentified woman (black blouse, lower left) was particularly eager to meet the author because she shared a similar story: Although she looked white, her ancestors had been slaves. During the Q&A, she came to the microphone weeping to thank him for his inspirational words.

The president also talked about the progress on his next book, which deals with ancestors who were slaves in Bowling Green, Ky. “My great-grandfather was 10 years old when Lincoln signed the Emancipation Proclamation,” he said. “But writing is slow these days. My day job keeps me kind of busy.”

TWO NEW DEANS

The College of Medicine welcomed Thomas Boat in July as dean and vice president for health affairs. Since 2008, Boat had been the college’s executive associate dean and CEO of UC Physicians.

Previously, he served as director, Children’s Hospital Research Foundation; chairman, UC’s pediatrics department; physician-in-chief, Cincinnati Children’s Hospital Medical Center; pediatrics chairman, University of North Carolina, Chapel Hill; and co-director, Cystic Fibrosis Center, Rainbow Babies and Children’s Hospital, Cleveland.

His research has focused on treating chronic lung diseases in children and mental-health issues in pediatric care.

The College-Conservatory of Music named alumnus Peter Landgren dean in September. Landgren had been the conservatory director at Baldwin-Wallace College; served on faculty at the Peabody Conservatory, Johns Hopkins University, for 26 years prior to that; and played horn in the Baltimore Symphony Orchestra for 29 years.

While a CCM student in the mid-’70s, Landgren won the school’s concerto competition three times, was the Cincinnati Ballet Orchestra principal horn and performed and recorded with the Cincinnati Symphony Orchestra. His late mother-in-law, Elma Gillespie Schonbach, was an alumna, CCM ’37.

TWO NEW COLLEGE NAMES

In June, the UC Board of Trustees changed the name of Raymond Walters College to UC Blue Ash College and the name of UC’s business school to the Carl H. Lindner College of Business.

The Blue Ash name more effectively projects the UC brand and the campus location, board members said. Walters will still be honored on that campus as UC’s longest-tenured president when the Science and Allied Health Building is renamed Walters Hall.

The Lindner name honors the philanthropist’s support of UC and the community, as well as his entrepreneurial spirit. His family founded United Dairy Farmers in 1940, and Carl is founder and chairman of the board of American Financial Group. To further honor Lindner, UC donors have formed the Friends of Carl Lindner to lead fundraising efforts for the college.
$1 BILLION BUDGET

UC’s new budget totals just a bit more than $1 billion, which projects a surplus of $17.4 million. To balance the budget, a university-wide budget cut of 12 percent was necessary, and some departments took bigger cuts to build reserves and protect critical units.

At the same time, the UC Foundation announced that fiscal year ’11 contributions to its Proudly Cincinnati campaign totaled $107.8 million, bringing the campaign’s total to more than $788.9 million.

MUSIC THwarts DREAMs

“Da-da-da-dum.” Identifying the familiar notes that begin Beethoven’s Symphony No. 5 stumped Peirce Johnston, MD ’07, on a “Who Wants to Be a Millionaire” episode that aired in May.

Johnston successfully fielded eight questions on such diverse topics as movies, explorers and nuts, but the $100,000 question identified the first three notes of Beethoven’s Fifth (all are G-naturals) and asked him to name the fourth note. Having used all his “lifelines,” Johnston chose to end the contest and walk away with the $38,600.

“If I had to pick a question to walk away from, it would be a question like that,” says Johnston, “I’ve never studied music, and I had no guilt about not knowing it.” (The answer is E-flat.)

Johnston is a fourth-year resident in UC College of Medicine’s department of psychiatry and behavioral neuroscience.

AD THOMAS RESIGNS

UC athletics director since 2005, Mike Thomas announced his resignation in August to become AD at the University of Illinois. In the last three years, UC’s 18 teams and 560 student-athletes gave the university one NCAA individual champion, four Big East team titles, 12 All-Americans and 72 All Big East honorees. Deputy director Bob Arkeilpane was named interim director.

CAPACITY CROWdS AT GRADUATION

Approximately 4,800 students were jumping for joy when they graduated this spring. Their numbers pushed the total of living alumni to more than 250,000. Capacity crowds filled Fifth Third Arena for two ceremonies on Saturday, June 11; a doctoral hooding and master’s ceremony was held the day before. On Saturday, commencement speaker John Barrett, Bus ’71, told students, “In realizing one dream, be ready for the next, because achieving one goal often creates another opportunity. So stay open to opportunities. Whatever you do, be an active participant, not a witness.”

BANNED FLOWERS IN INNOCENT HANDS

In prison, inmates cannot have flowers. Inmate Beverly Monroe knew it, yet she risked everything to snap off wild blooms and press them into a book. Once they were dry, she used toothpaste to affix them to cards she had made, then enclosed them in handmade envelopes to send to friends.

In the spring, she was standing at a UC-hosted international conference telling her story to people who understood best — more than 100 innocent people who had been exonerated from jail and more than 400 guests, representing at least 20 countries.

The 2011 Innocence Network Conference met at the National Underground Railroad Freedom Center in downtown Cincinnati to explore wrongful convictions on an international level, a first for the conference.

The Ohio Innocence Project, housed at the University of Cincinnati, hosted the event to bring together scholars, lawyers and exonerees from around the world to learn from one another, in the hope that the experience would galvanize a unified international human-rights movement, said Mark Godsey, Ohio Innocence Project director and UC professor.

One highlight of the conference was an exhibit of artistic endeavors by those who had been falsely imprisoned — essays, poetry and visual art. In Monroe’s presentation, she recalled, “When I walked through the prison yard, I would look at the ground to block out the razor-wire fence. I saw little wildflowers. They were contraband, but I hid them in a book — to resist anything that would ban beauty.”

UC Read more about the conference at www.magazine.uc.edu/extra.
**UC STUDENT DESIGNS**  NEW LOGO

Having introduced new and innovative technologies to make the company a “leader in the digital age,” the J.C. Penney Co. wanted an updated image and logo. Suggestions and submissions were sought from the company’s own art associates, several design agencies and two art schools — the Rhode Island School of Design and the University of Cincinnati.

Out of all those artistic minds, who designed the new Penney’s logo? Third-year UC graphic design student Luke Langhus. Part of a class assignment in adjunct professor Stan Brod’s course, Langhus’ simple design reintroduced a red box from early renditions and retained the same typeface — although in all lowercase letters and with no punctuation. Apparently Langhus’ logo had a more important impact, as the company now refers to itself as “jcpenney.” No uppercase letters. No punctuation.

“Our new logo reflects the modern retailer we’ve become while continuing to honor our rich legacy,” says UC grad Myron “Mike” Ullman, Bus ’69, HonDoc ’06, chairman and chief executive officer for the company. The new logo was introduced in February during the Academy Awards.

**TEA, CRAFTS, MUSIC** FOR JAPANESE RELIEF

Two women in traditional dress perform a calming, centuries-old Japanese tea ceremony on campus in April as part of the kick-off event of the Greater Cincinnati Japan Relief Project. The event aimed to generate donations for the country devastated by an earthquake and tsunami in March. Along with the tea ritual, UC students and other participants sampled handmade baked items and Japanese handicrafts, while listening to performances by the Sakura Ladies Chorus, J-Youth Harmony chorus and Greater Cincinnati Japanese Children’s Chorus.

**NCBS AT UC**

The National Council for Black Studies moved its headquarters to the UC Department of Africana Studies, headed by department head and council vice president Terry Kershaw. The move will “increase our national prominence and will solidify our place as a national center for Africana studies,” said Valerie Hardcastle, dean of the McMicken College of Arts and Sciences.

**ONE OF BEST**

According to the Princeton Review, the University of Cincinnati is one of the country’s best institutions for undergraduate education. UC was also among the 153 colleges that were recommended in its “Best in the Midwest” feature.

These findings were reported in the 2012 edition of the Princeton Review’s annual guide, “The Best 376 Colleges.” Institutions were chosen for recognition based on meeting “standards for academic excellence within their region” and through student surveys.

UC student surveys praised it as a large university with small-town warmth, with “great programs and infinite opportunities.” Another student noted, “UC has students from all walks of life, which makes it extremely diverse and very interesting.”

This marks the fifth year in a row that the university has been included in the guide.
IN FOCUS

photograph by Bill Ingalls/NASA

Final flight

As Atlantis left the Kennedy Space Center in Florida in July for its 12-day mission to the International Space Station, alumnus and chief flight director John McCullough was monitoring every function of the launch 1,000 miles away in Mission Control at the Johnson Space Center, Houston.

Although the Space Shuttle Program ended with this mission, UC alumni at NASA are looking forward to the next adventure, focused on deep-space exploration and research.

(See related stories on the following pages.)
Mission

After serving the world for more than 30 years, the space shuttle has earned its place in history, and it’s come to a final stop. Atlantis commander Chris Ferguson uttered those words at 5:57 a.m., July 21, on a steamy, pre-dawn Florida runway at the Kennedy Space Center (KSC), signaling the end of the Space Shuttle Program and the latest chapter in America’s quest for space. Though the mission had ended, NASA’s chief flight director John McCullough, Eng ’89, lingered inside the Mission Control Center at the Johnson Space Center in Houston for another two and a half hours.

“We didn’t want to log off the console,” he bluntly admits. “None of us wanted to be the first one to leave.”

For McCullough, who oversaw all aspects of flight control for the final 13 shuttle missions over the last three years, the vivid image of sitting at his console in the back of the room for the final flight will stay with him always. “It really just sunk into me,” he says. “It is almost like you are seeing the ghosts from the future looking back at that moment in time.” McCullough couldn’t help but hearken back through the history of that very room — a place of his experiences have compared to getting to the base of it looking up.

“When you hear someone like that talk about your response isn’t timely enough, the mission can fail. You have to deal with what you can’t possibly be prepared for.” McCullough has worked more than 650 shifts in Mission Control as the flight director in charge, a responsibility that requires overseeing dozens of other flight directors who monitor every technical detail of shuttle and International Space Station missions. Flight controllers, he says, are forced to multitask and know literally everything about a particular system or aspect of the mission. “You have to focus on what’s going on while having additional bandwidth in your head to pay attention to other things.”

For example, when disaster struck a 1996

‘UC Magazine’ gains access to the final shuttle flight and to UC alumni with NASA careers

30 Years of Space Shuttles
NASA’s Space Shuttle Program was retired this year after 135 missions. The program, which started in 1981, included five orbiters — Columbia, Challenger, Discovery, Endeavour and Atlantis. Together, the ships carried more than 350 people into space. The shuttle was the world’s first reusable space vehicle and consisted of three main components — the reusable orbiter, two solid rocket boosters and the expendable external tank.

Tragedy struck the shuttle program twice, killing all seven crew members aboard each mission — when the Challenger disintegrated 73 seconds after launch in 1986 and when Columbia broke apart during re-entry in 2003.

The remaining shuttles, Discovery, Endeavour and Atlantis, will be retired to museums.

A
shuttle mission, McCullough’s quick thinking helped scientists salvage valuable data that otherwise would have been lost.

Astronauts had deployed a satellite from the shuttle on a 12-mile tether to gather information about electrical energy created while flying through the upper reaches of Earth’s atmosphere, the ionosphere. Unknown to anyone, a microscopic hole in the tether’s insulation exposed it to an electrical arc, causing it to snap.

The crew began losing transmissions with the rapidly drifting satellite, when McCullough remembered that a NASA ground station was close by. He drove to the station and re-established contact with the satellite through a ground link, helping NASA obtain more telemetry before the satellite drifted out of range. In the end, scientists gathered enough data to begin to understand the ability of such a tether in generating electrical power.

The Space Shuttle Program ended in the early morning of July 21 as the space shuttle Atlantis touched down at Cape Canaveral, Fla. Meanwhile UC alumni throughout NASA were celebrating the achievements attained during the 30-year program.
Star-struck kid
As a child, McCullough was always fascinated by space — from the Apollo moon landings, which impressed him, to science fiction, especially “Star Trek.”
“ Their vision of the future was compelling,” he says of the USS Enterprise crew. “It was a noble thing the way they all worked together.”
As a fourth-grader in 1973, he was captivated by the Comet Kohoutek, which made a near flyby to the earth. “I would dig in the backyard for meteorite fragments and moon rocks, then bring them to my parents.”
“They were just rocks, but my mom never really said so. She had a great imagination and always encouraged me.”
By fifth grade, he had made up his mind he wanted to be an aerospace engineer, taking an interest in planes and, of all things, orbital mechanics. Years later, when looking for a college, he knew UC was one of the nation’s best, and the co-op program was a huge draw.
He paid his way through college working at Uno’s Pizza and DuBois Book Store. He married his wife, Julie, A&S ’87, while they were students, then dropped out for a year to work so she could finish school.
What impressed him most about UC was what happened when he decided to reenter the aerospace program. “The dean [Constantine Papadakis, MS (Eng) ’70] sat down with me,” he says. “He wrote a letter for my file stating that they should take me back with no questions. He cared about me as a person.”
McCullough’s introduction to the Johnson Space Center came during his first co-op assignment at McDonnell Douglas Astronautics Co. Having driven 23 hours straight from Cincinnati to Houston, he arrived around 9 p.m. and drove directly to the main gate of the space center to soak in a moment he had long dreamed about.
“It was dark when I arrived,” he vividly recalls. “The fall air was crisp, and it was something how the space center was lit up.”
At McDonnell Douglas, McCullough gained experience in shuttle-entry flight performance and ascent flight design. Later, on assignments with Douglas Aircraft in California, he worked on horizontal tail analysis for the MD80 jet aircraft.

Family connections
At UC, Julie McCullough was a double major in math and chemistry, then worked at Procter & Gamble research until the family moved to Houston, where she worked for United Space Alliance in Shuttle Orbit Flight Design for seven years. She and John have three children, ages 11, 15 and 18.

After graduation, his co-op contributions translated into a full-time position with NASA, where he worked on shuttle simulators, giving astronauts hands-on experience prior to launches. He played a key role in upgrading the shuttle simulators to reflect changes in computer systems and software.
After getting certified, McCullough even flew the simulator, an experience he compares to an ultimate video game. From simulators, he moved on to flight control, which is where he has spent his career.
“You start out in a backroom experience doing minor things and learning the systems, then you work your way toward the front room, which is the one seen on TV. It is kind of like the major leagues of flight control. It is the big show, where you get to make an impact on the space program directly.”

Though the shuttle program has now ended, McCullough’s mission as NASA’s chief flight director is nowhere near complete. He will continue to oversee operations in the International Space Station, which McCullough refers to as “a-million-ton spacecraft with 16 countries all working together for the common good.”

Mission Control not only sends 30,000 commands to the space station a month, but also monitors the power, orbital altitude and systems that enable the crew to conduct experiments and perform other maintenance activities 24 hours a day.
McCullough says NASA will still support four launches a year with its Russian partners, supply staggered crew changeouts and develop a new rocket design that will allow the U.S. to once again supply cargo and crew members directly to the station in the future.
He is sad to see the space shuttle program end, but is especially proud that his colleagues remained loyal to both the crew and the program until the end. The professionals at NASA, he says, wanted to be “the people that made a difference.”
“Change is something that happens, and we all have to deal with it,” he says. “But, boy, we were good, I’ll tell ya. We were good. And we still are.”

Bob Egleston, co-writer of this article, is a 1984 graduate of UC’s School of Architecture and a senior project manager with Heery Design in Orlando. He is a space enthusiast and a freelance writer/photographer.

At right, alumnus John McCullough, chief flight director, stands behind the Mission Operation Directorate (MOD) console at Mission Control, Johnson Space Center, Houston. NASA crew members located 1,000 miles away at Florida’s Kennedy Space Center watched Atlantis being launched right outside their windows.
FOR DECADES, YOUNG people have dreamed about soaring into space — after being tucked into bed with the story “Goodnight, Moon” or after watching “Buck Rogers” or “Star Trek” on TV. But when those aspirations begin to take shape with UC aerospace engineering degrees, then materialize with NASA careers, happily-ever-after endings are written. Here, we meet three alumni who say dreams do come true.

Scott Bleisath: Designing space suits

With childhood dreams of becoming an astronaut, Scott Bleisath, Eng ’88, found a career that is the next best thing — helping to keep astronauts safe.

He spent his first 20 years at Mission Control in Houston, leading spacewalk operations for multiple space shuttle and International Space Station (ISS) missions. Today he is at the NASA Glenn Research Center in Cleveland, Ohio, working on the next-generation space suit.

Tomorrow’s suit will involve more than just keeping astronauts secure. It’s all about electronics and communication systems needed for computers, warnings, a navigation system that could be used to walk on an asteroid and a heads-up display to view information without looking down at instruments. A prototype suit is in the development stage, Bleisath says, and could be given a trial run on the ISS in a few years.

To test suits and help astronauts acclimate to working in them, Bleisath often works in simulators, either the 6.2-million-gallon water tank known as the Neutral Buoyancy Laboratory or the “vomit comet,” a fixed-wing aircraft that briefly provides a nearly weightless environment. He is also part of Desert RATS (Research at Technology Studies), a group of NASA professionals who test space suits and robots in extreme desert environments near Flagstaff, Ariz.

“At Desert RATS, we are learning what is the correct type and amount of information needed by an EVA (extra-vehicular activity) crewmember,” Bleisath wrote on his NASA blog. “Any electronics going on a space suit has to be very efficient from a size, weight and power perspective. So, we cannot afford to have any bells and whistles.

“Our team spent over a year talking to astronauts and other stakeholders to understand their needs. They made it clear to us that we cannot bog down the crew with too much information because that would hinder operations, rather than help.”
Memorable experiences

• **First space shuttle mission to ISS** — Bleisath worked on STS-88, the first shuttle mission dedicated to the assembly of the space station. The shuttle carried the station’s first American-made module, the Unity Node 1, and docked it to the Russian module already in orbit. Bleisath worked directly with Russian scientists on the two modules’ interface and inspected the shuttle’s payload bay at the Kennedy Space Center before launch.

• **Flight controller** — Bleisath also served as a flight controller, responsible for monitoring life-support systems. “You have to have immediate reactions to the unexpected,” he says. “It’s a very serious attitude.”

• **Vital co-op assignment** — at NASA’s Johnson Space Center.

**Eric Haddox:**
**Exploring other planets**

For Eric Haddox, Eng ’00, the excitement of watching space shuttle launches at Kennedy Space Center (KSC) began during vacations in Florida as a child.

Today, he has a career at KSC as flight-design lead engineer in the Launch Services Program, which launched the 4-ton Juno spacecraft in August for a five-year trip to Jupiter, where it will gather data about the planet’s origins, structure and atmosphere.

“We launch all of NASA’s science missions,” he says. “We manage and contribute to the design of the launch vehicle trajectories, which put all of those spacecraft into their orbits. My job is to lead the trajectory design group.”

Haddox’s career has made an interesting cycle from his co-op job at Lockheed Martin where he worked on space shuttle reentry systems. Such systems involve flight-simulation software to train astronauts for reentry in real-time scenarios, including failure or abort situations.

Complicating his task was the fact that the shuttles fell from orbit totally unpow- ered and had only one shot at making the landing site, Haddox explains. Engineers had to calculate the amount of energy the vehicle had in order for it to make it to KSC the first time. If a shuttle came down too fast, it burned off too much energy to reach the landing facility; if it came in too slowly, it risked overflying the site.

Currently, Haddox is concerned with a vehicle being at a certain point in space at a given time. Beyond determining the precise time to launch, the team analyzes the vehicle’s load requirements, its power, telemetry, thermal and acoustic considerations, as well as payloads. “Weight is precious,” Haddox says. “You want small batteries, for instance, in order to maximize the science on the vehicle.”

Haddox says that NASA currently has 30 to 35 missions being worked in various stages and that he is working on many different missions for commercial launch vehicles. “NASA is using this program as a model for the new commercial space program for astronauts.”

Memorable experiences

• **Science missions** — Haddox worked on the two Mars rovers; the Messenger program, which put the first spacecraft in orbit around Mercury in March; the New Horizons spacecraft, which was dispatched to Pluto in 2006 and is due to arrive there in 2015; and the GRAIL
This design and test effort was truly a crowning achievement for me personally,” she says. “It used every engineering brain cell that I had to produce it.”

As the space shuttle program grew to a close, Bailey noted, “People are still celebrating the end of the program with pride for our accomplishments, but it is a sad day here at the space center. A real and present part of us is gone.

“But we are too young to not vigorously seek out and create our next bold venture, as well as the fleet of vehicles that will bring it to fruition. Keep your eye on us. We’re not done yet.”

**Memorable experiences**
- **Imax movie realities** — For an Imax movie to be shot in space, Bailey’s division made sure the camera could operate in space and determined how to keep the camera safe, particularly during the launch’s severe vibrations, which could wreak havoc on electrical circuitry.
- **Next up** — Bailey has been working on the primary structure and landing gear for a new lunar lander.
- **Vital co-op assignment** — at Lockheed Martin, working directly with astronauts, especially John Young.

**Lora Atkins Bailey: Dealing with spacewalks**
If childhood dreams can be responsible for cultivating NASA careers, then Lora Bailey, Eng ’88, has her grandfather to thank. She recalls him saving news clippings on every conceivable topic about space, but she most poignantly remembers standing with him in his yard, looking at constellations and shooting stars. He died when she was 10, so he never realized how his passion cultivated her career.

As a structural-loads expert for EVAs (i.e., spacewalks), Bailey helped determine how crew members could service the Hubble Space Telescope and how members of another mission could repair a shuttle’s thermal-protection tiles while in space. Technically, she performs load predictions for crew members working on external payloads outside a shuttle.

The telescope, for instance, was an external payload. “Hubble is captured and placed in the payload bay,” she says. “Then the crew would climb on the telescope with those delicate instruments inside.” What impact did they have on the intricate circuitry inside? That’s what Bailey had to calculate.

Her most notable assignment followed the 2003 loss of the Columbia shuttle during its re-entry into the Earth’s atmosphere. In response, she helped create a tile repair method and helped design and test a 50-foot extension to the shuttle’s robot arm, which enabled astronauts to reach the full underside of the shuttle to make repairs.

One concern was that such a long, cantilevered boom would be too flexible and “crew-induced motion would preclude being able to do any real work because the boom system would sway around too significantly,” Bailey explains. “My tests showed that a crewmember could indeed conduct operations on the end of the boom despite the fact that it was extremely soft and could sway readily.

“Lora Bailey floats in zero gravity, leading an experiment with astronaut Joe Tanner (in the space suit) to develop methods to repair space shuttle tiles.”
The end of the Space Shuttle Program does not mean the end of NASA or even of NASA sending humans into space. “We are not ending human spaceflight, we are recommitting ourselves to it and taking the necessary and difficult steps to ensure America’s pre-eminence in human space exploration for years to come,” NASA administrator Charlie Bolden says.

“The space shuttle gave us tremendous insight into how humans can live, travel and work in space. Because of the shuttle, we have the International Space Station (ISS), which is giving us the breakthroughs in human health research. “But we have to do things differently. The shuttle is an expensive system to maintain. We have to get out of the business of owning and operating low-Earth-orbit transportation systems and hand that off to the private sector, exercising sufficient oversight to ensure the safety of our astronauts.”

NASA’s future focus will be on deep-space exploration, science missions and research on the ISS. According to NASA officials, here is what’s next for the agency:

**Deep-space exploration**

With a goal of landing humans on Mars, NASA is designing and building the capabilities to send humans to explore further reaches of the solar system, including technologies for solar-electric propulsion, refueling depots in orbit, radiation protection and high-reliability life-support systems.

**International Space Station**

American astronauts will continue to live and work in the ISS 24 hours a day, 365 days a year, conducting scientific research in the portion of the station designated as a U.S. national laboratory. Commercial companies are taking steps toward providing cargo and crew flights to the ISS, allowing NASA to focus its attention on research.

**Research**

- NASA aeronautical research will be developing technologies to create safer, more fuel-efficient, quieter and environmentally responsible aircraft, as well as safer and more flexible traffic-management systems.
- Science missions are numerous and will include a year-long visit to the large asteroid Vesta to help scientists better understand our solar system’s history. Next February, the Nuclear Spectroscopic Telescope Array will be launched to search for black holes, map supernova explosions and study the most extreme active galaxies.

— D. Rieselman

The exhaust plume from launching the space shuttle Atlantis’ final flight is seen from a Shuttle Training Aircraft on July 8 in Cape Canaveral, Fla.
LAUNCHED IN 1929 by a former barnstormer and visionary inventor, the University of Cincinnati aerospace engineering program traces its 82-year flight path alongside some of the most important developments and enduring personalities in the history of air travel.

Having crossed trajectories with such names as Orville Wright, Charles Lindbergh, Werner von Braun and Neil Armstrong, the faculty and grads of the country’s second oldest aeronautical engineering program have made an untold number of strides toward advancing the industry—from the days of prop-driven planes to jet airliners to rocket-propelled spaceships.

The program started the same year as the Great Depression under the guidance of Bradley Jones, a daring navigator who was best known for his record flight from Dayton to Boston in 1923, the first nonstop jaunt to rely solely on instrumentation for navigation (which he also developed). The former World War I major gained further fame when Charles Lindbergh insisted on having Jones’ Earth inductor compass aboard the Spirit of St. Louis to navigate his epic solo transatlantic flight from New York to Paris.

Birth of co-op
Recognized for both his characteristic energy as well as his expertise, Jones was selected to develop the country’s first co-operative education program in aeronautical engineering at Cincinnati, a fitting choice considering Dean Herman Schneider birthed the idea for co-op
at UC in 1906. The five-year curriculum combined rigorous academic requirements interspersed with cooperative work experience.

Of historical note, Jones turned to Orville Wright, just 50 miles up the road, as a consultant to help shape the program’s curriculum. Despite the depression years of the 1930s, UC was able to place co-op students from the program with employers in the rapidly evolving industry.

As WWII approached, the College of Engineering began to incorporate military training in the program, and once war broke out, the college provided a 12-week training period for women undergraduates to become “Goodyear Girls” or airplane factory supervisors. Not surprisingly, much of the aeronautics research at UC also shifted to war-related efforts such as testing propeller blades in UC’s old wind tunnel.

**Space race begins**

After the war, UC experienced a sustained enrollment spike as a result of the GI Bill. The following decade saw geopolitical influences become a key driver of the pace of aerospace education, particularly after the Soviets launched Sputnik — the first human-made object to orbit the Earth — in 1957.

With that historic moment, the space race — and to a great extent the arms race — began in earnest. While the United States had proclaimed itself the world leader in space technology, the Soviets were the first to conquer outer space. For days, Americans watched as the USSR’s satellite
traversed their night skies. President Dwight Eisenhower referred to it as the “Sputnik crisis,” and the government reacted by pouring billions more dollars into engineering, math and science.

Soon the name “aeronautical engineering” gave way to “aerospace engineering” at UC, and the demand for an advanced-degree program intensified as did UC’s relationship with such partners as the Aeronautical Research Laboratory at Wright-Patterson Air Force Base.

Tabakoff propels program

Fortunately for the future of UC's aerospace program, and particularly its graduate program, a Bulgarian PhD named Widen Tabakoff dropped by the department while in Cincinnati on assignment from Werner von Braun, the world-famous rocket scientist who developed the Saturn V rocket that propelled Apollo to the moon.

Tabakoff was in Cincinnati to work with the U.S. Army Engineering Division Laboratory to test materials for use in the nozzle of the Saturn V when he became acquainted with UC’s faculty. Offered a position at UC, Tabakoff accepted, and so began a relationship with UC that would last more than a half-century.

By 1959, Tabakoff and UC colleagues from mathematics, physics and astronomy (including Paul Herget, Eugene Rabe and Peter Musen) formed the Institute of Space Sciences at UC, the conduit for UC’s graduate program, of which Tabakoff became director. The advanced-degree offerings at UC immediately garnered attention from nearby General Electric Aircraft Engines (GEAE) in Evendale.

By 1966, Tabakoff had developed a special degree program specifically for employees of GE. Over the years, the co-op program for students who attend classes at UC and GE-Evendale has led to more than 1,000 graduate degrees for employees of the world’s leading provider of commercial and military jet engines.

Tabakoff won millions in federal funding as head of UC’s Center of Excellence in Propulsion, which started in 1968. His lab represented a major step forward as UC was able to not only attract externally funded research but also support a long line of graduate students who would help take UC’s study of rock-
et propulsion, combustion, aerodynamics and other areas to a whole new level. Among them was an Egyptian-born woman named Awatef Hamed, who would later become department head in 2001. (See feature on page 28.)

**Neil Armstrong joins faculty**

Just before Hamed started teaching at UC in 1972, five new professors joined the aerospace program, including UC’s most famous faculty member, Neil Armstrong, who taught at UC from 1971 until 1979. Hamed recalls students being fascinated to learn from such a celebrity, but for fellow professors, it was business as usual sharing a break room with the first man to set foot on the moon.

“We just went to lunch and so on and so forth,” she says. “We didn’t bug him and treat him like a star. He went to his office and did his work like the rest of us.” (See On Campus Yesterday feature on Armstrong, page 48.)

In 1980, the department name changed again to reflect an emphasis on solid mechanics and dynamics. It was known as the Aerospace Engineering and Engineering Mechanics program until 2000. Along the way, the program boosted research funding, particularly from NASA, and won its first award for an Ohio Eminent Scholar in 1994. A rare second Ohio Eminent Scholar was added just last year.

In 2000, UC was among a handful of institutions selected worldwide to join the GE Aircraft Engines’ University Strategic Alliance program, giving UC graduate students the unique advantage to work directly with engineers at the nearby site, now known as GE Aviation. Former GE Aviation chairman Brian Rowe (HonDoc ‘87, who died in 2007) also gave generously to the university allowing for the start of the Brian Rowe Center for Women in Engineering in 2002, and his family foundation established a $1 million endowed chair in 2010.

Building on its rich history, UC’s Aerospace Systems School continues to research and develop leading-edge technologies in both air and space travel. And if Cincinnati leaders have their way, UC will continue to make scientific advancements that would make even a founding visionary like Bradley Jones proud.

Recent aerospace engineering grads Rob Charvat, Eng ’10, Cody Lafountain, Eng ’10, and Matt Finke, Eng ’10, (left to right) hold a student-built radio-controlled airplane in the Schneider Quad. A pair of UC teams placed first in the 2011 National SAE Aero Design East, an international competition requiring students to design, build and fly radio-controlled aircraft.

Much of the information in this article is taken from research by Art Davies and the publication "Aerospace Engineering at the University of Cincinnati Co-operative Education and Research," by A. Morrison, A. Hamed, W. Tabakoff and G. Slater – 2004.
Aerospace researcher builds on 43 years studying aircraft engines

by John Bach
A WATEF HAMED’S EYES light up at the very mention of jet-engine technology. Her mind seems to whirl at its own warp speed as she articulates the underlying science behind it. “A jet engine is one of the most fascinating things in the world,” declares Hamed, who’s been head of UC’s Aerospace Systems School for the last decade. “It rotates at thousands of revolutions per minute. It goes to 3,000 degrees. The fan blades are almost as big as you or I. Yet, the reliability and performance is amazing.”

In 1968, Hamed followed her fascination with propulsion technology to the United States from Egypt when she came to the University of Cincinnati as the only female graduate student in the aerospace program. After completing her master’s and PhD degrees, she began teaching at UC. Years went by, she recalls, before the College of Engineering hired another female faculty member. By 2001, she was the first woman in the world to head a college aerospace engineering department.

“I became accustomed to being the only woman at meetings,” she says. “It was very unusual. I’m sure there were detractors at some point, but I have a very active mind. I just keep going.”

Hamed kept going, driven by her passion for the science of flight. “Space and aeronautics is the most exciting and challenging field,” she says. “You have to design things that are very, very light. And it has to be able to fly. So you are pushing the envelope always.

“If you are a civil engineer or a mechanical engineer and you want to have something that won’t break, you just make it bigger. You add more material. In aerospace, you cannot do that. It won’t fly.”

Hamed, who would prefer to be in her lab solving scientific questions about such things as how air particulates erode turbine fan blades, learned quickly while at the helm, however, that research funding is as crucial to her department’s success as advanced materials are to keeping jets in the sky.

To that end, she secured a $27.5 million Ohio Research Scholar award from the Ohio Department of Development in 2008 and established a Center for Intelligent Propulsion and Advanced Life Management at UC. The award allowed for new facilities and funds to recruit three Ohio Research Scholars to a group of faculty members that already includes two Ohio Eminent Scholars — Ephraim Gutmark and Gui-Rong Liu.

Because of UC’s achievements in applied research over the years, the Ohio Board of Regents last year recognized the university as an Ohio Center of Excellence in Intelligent Air & Space Vehicle Energy Systems, the goal of which is to create advanced transportation and aerospace technology that creates more jobs and strengthens Ohio’s ability to commercialize innovative technologies.

Just in the last several years, the aerospace engineering program has conducted more than $100 million in research, overseen the startup of seven companies, generated in excess of $618,000 in license income and accepted a $20 million anonymous gift to establish the Thomas Jefferson Endowed Chair in Space Exploration and the Alan Shepard Endowed Chair in Space Exploration.

**10 aerospace grads who took flight**

Ray Bisplinghoff, Eng ’40, MS (Eng) ’42, HonDoc ’63, led advances in research and technology for NASA and was intimately involved in planning Apollo missions 8, 9, 10, 11 and 12. He later served as engineering dean at MIT and deputy director of the National Science Foundation. He was also elected to both the National Academy of Sciences and the Royal Aeronautical Society.

Rodney Boudreaux, Eng ’60, PhD (Eng) ’65, became vice president at RocketDyne, a chief supplier of NASA’s rocket engines, particularly the Saturn family that powered the Apollo moon program.

Jim Thomas, Eng ’61, enjoyed a 26-year career as an Air Force test pilot who flew more than 40 different kinds of planes, including the F-15, U2 and F-117A Stealth Fighter. Retired as a colonel in 1987.

Larry Lantzer, Eng ’61, a decorated Navy test pilot who became air department head on the U.S.S. Constellation and squadron commanding officer at Pearl Harbor.

Barry Hannah, Eng ’63, MS (Eng) ’65, PhD (Eng) ’73, became the Navy’s preeminent aerospace engineering leader for strategic nuclear reentry systems.

Kenneth Token, Eng ’63, became McDonnell Douglas’ director of engineering of “Phantom Works,” the corporation’s classified projects area.

John Morrison, Eng ’66, retired as vice president after three decades with Gulfstream.

Thomas Warkema, Eng ’71, PhD (Eng) ’82, was instrumental in developing the revolutionary unducted fan engine, led nozzle design for the F-16 fighter, holds 39 patents and led the effort to design UC’s hot erosion tunnel to measure erosion characteristics.

Richard Johnson, Eng ’73, became chief engineer and vice president for Gulfstream and was instrumental in design and certification of the Gulfstream III, IV and V executive jet program.

Dinesh Keskar, MS (Eng) ’77, PhD (Eng) ’79, became president of Boeing India and vice president of Boeing International Trading.
A FEW DAYS BEFORE Air National Guard Lt. Col. Sheffey Massey deployed to Germany, he was reviving a patient suffering ventricular fibrillation while the engine noise of a military transport plane droned in the background. He and his team performed several rounds of a shock with the defibrillator followed by chest-thumping CPR until normal heart function was restored.

Despite the team’s success, the patient never thanked Dr. Massey … because he was never alive to begin with. Similarly, the airplane’s din did not come from a real engine.

Massey, along with a critical care nurse and a respiratory therapist, were working in a darkened simulation room at UC Health University Hospital. The entire time, a group of administrators, nurses and physicians monitored and recorded the team’s efforts in the control room next door.

Once Massey’s team performed sufficiently, the simulation ended. Lights went up, beeping monitors turned off, and the “patient,” a physiologically accurate electronic mannequin, lay quiet.

The simulation scenario was one of the final tests in July for the three medics after a two-week advanced training course at UC’s Center for the Sustainment of Trauma and Readiness Skills (C-STARS), housed at the UC Institute for Military Medicine.

The program, started in 2001, is one of three C-STARS centers in the United States and the only one to train teams like Massey’s, known as Critical Care Air...
Transport (CCAT) teams. The teams are responsible for treating and flying wounded military members from Afghanistan and Iraq to large base hospitals like Ramstein Air Base in Germany, Bagram Air Base in Afghanistan and the National Naval Medical Center in Bethesda, Md.

The teams are responsible for treating and flying wounded military members from Afghanistan and Iraq to large base hospitals like Ramstein Air Base in Germany, Bagram Air Base in Afghanistan and the National Naval Medical Center in Bethesda, Md.

The advanced course at UC is the final step of the CCAT members’ training pre-deployment. Returning medics, like Massey, repeat the course every 20 months to maintain their skills. Massey says the simulations are better each time he arrives, concentrating on the severe injuries CCAT members will encounter in the war zone.

“...Their focus is on what’s happening downrange right now,” he says. “They take the patients we are seeing today in combat, put them right into the simulations and make them real.”

CCAT trainees arrive at UC with at least two years experience in critical care, an introductory CCAT course and altitude conditioning already under their belt. But that doesn’t prepare them for flying a group of critically ill or injured troops on a seven-hour flight, says C-STARS deputy director Maj. Mike McCarthy. That requires the 14-day CCAT training program.

The course includes five simulations, each focused on a specific injury set, from traumatic brain injury to a collapsed lung. Trainees, 12 to 15 at a time, hear lectures from UC trauma faculty, participate on rounds in the hospital’s intensive care units, observe and participate in trauma care and complete Air Care missions with UC Health doctors and nurses. They also work a five-hour training flight aboard a C-130 military transport plane (above).

“All scenarios, both our simulations and on the flight, are things that have actually happened,” critical care nurse McCarthy says. “We keep it as real as possible. If a mistake is going to be made, we want it made here. We don’t want it made out there.”

CCAT training is kept even more current with input from the military medics who educate the trainees and work in University Hospital’s surgical and neurological intensive care units. Known as the cadre, these medics deploy regularly to bring back the most recent combat-theater experiences. Five deployments have led McCarthy to see that the patterns of injuries change from conflict to conflict, from severe burns in Iraq to damage from improvised explosive devices (IEDs) in Afghanistan.

“The theater is a constantly moving target,” says C-STARS director and UC associate professor of trauma Col. Warren Dorlac. “It will not be the same six months from now as it was six months ago, so it’s important for us to have someone coming back who knows the latest layout, how we’re using personnel and the type of casualties we’re seeing.”

The cadre also participates in a weekly conference call with CCAT leadership in the field, reviewing each soldier airlifted that week. Growing trends that could affect future care are immediately added to the C-STARS curriculum.

New techniques are incorporated into civilian care as well. In recent years, University Hospital and other trauma centers around the country have changed their resuscitation of trauma patients to match successful methods used in the field.

As missions have grown since 2001, so has UC’s C-STARS program. The cadre runs about 14 courses per year, and UC trauma faculty hold leadership roles with C-STARS operations globally. In 2009, Dorlac deployed as director of the Joint Theater Trauma System, head of all trauma services in Iraq and Afghanistan. Since then, he regularly returns to consult.

UC research also benefits the program. UC professor Alex Lentsch, director of the Institute for Military Medicine, says a $24 million Air Force award has led to several studies focusing on the unique environment of medical evacuation. Researchers work with the cadre to test UC-designed equipment and look at task saturation during a flight.

“The CCAT teams are the ones that will be using the equipment during deployment,” says Lentsch, vice chairman for research in the department of surgery, “and much of what we do focuses on assuring that equipment will function properly in austere environments, such as high altitude. C-STARS members are involved in the planning, conduct and interpretation of most of our studies.”

Dorlac puts it into perspective. “When you’re out flying over the Black Sea or the Caspian Sea, coming back with three very sick patients, there aren’t a lot of places that you can stop off in between to get help. So teams have to be able to handle just about everything that gets thrown at them. That’s really what we’re trying to instill upon them when they’re here — the ability to function independently at 35,000 feet with very little other support.”
FOR 35 YEARS, Rita Jan Christian could not speak above a whisper. When she was 18, a New Year’s Eve car crash crushed her larynx and nearly destroyed her vocal cords. Multiple visits to specialists did not correct the problem, and she began experiencing the social isolation common to voice-disorder patients.

But earlier this year, Christian was sitting in an exam chair in a UC Health clinic, looking determined. She inhaled, pursed her lips and focused. A single long syllable, “woooo,” brought a smile to two faces — hers and speech therapist Eva van Leer’s.


Christian, a patient of UC’s Voice and Swallowing Center, is learning how to use her new vocal cords after UC surgeon and laryngologist Sid Khosla reconstructed them over a span of five surgeries last year. During monthly sessions, van Leer helps Christian relearn how to speak, using her diaphragm, throat and surrounding muscles to build her voice, find new pitches and create more volume where there was none.

In the nearby Medical Sciences Building, Khosla, a professor of otolaryngology, works with an unexpected research partner — aerospace engineer Ephraim Gutmark, an Ohio Eminent Scholar and a UC distinguished professor. With $2.5 million in funding from a National Institutes of Health grant, the pair have been collaborating on the causes of voice disorders and the most effective ways to treat them. Gutmark’s focus on aeroacoustics (how airflow patterns can generate sound) led him to study vortices — rotating pockets of air, which produce sound in jet engines, for example, and suction in tornados.

“Understanding how airflow patterns affect engine sound helps us determine how we can reduce jet noise,” Gutmark says. “We can apply the same understanding to study voice.

“Our purpose is different, but the physics concepts are the same. Once you understand how airflow structure produces acoustics, you can either make the acoustics quieter — for jets — or make
Researchers had already developed computational and theoretical models to demonstrate how vortices affect sound production, but no one had seen the process at work. In 2007, Khosla, Gutmark and the UC team — communication sciences and disorders professor Suzanne Boyce, research associate professor Jun Ying and Liran Oren, a PhD candidate in aerospace engineering — were the first to identify and measure vortices in an animal larynx. Two years later, they landed the NIH grant.

Originally, Khosla and Gutmark believed they would split a larynx in half, then look through a glass plate to view the passage of air through the voice box. Instead, they developed a technique that allowed them to view the function of vortices through an intact larynx model, using a specially angled camera that snapped 10,000 frames a second and from which they had eliminated distortion caused by the angle — another first in the field.

In their experiments, they push air through an excised larynx fitted over a blower and sitting under a glowing green laser. They place drops of olive oil resulting vocal cords do not open as wide as typical ones, but that’s not necessary, he says.

“After the surgeries, Christian began weekly appointments with UC therapists van Leer and Bernice Klaben to relearn how to produce voice. One of her exercises is designed to narrow the opening of the vocal tract at the mouth, creating pressure on the vocal cords and producing greater vibration.”

“I was very surprised that it takes so much work,” she says. “I really have to think about everything, to line up my muscles, posture, breathing. It’s like you have to go on stage every time you talk.”

“But the surgeries, I was sure I would never be able to have my voice again,” she adds. “I think I salvaged enough of my personality to communicate one-on-one, but I was not good publicly.”

In January, she first produced one and a half seconds of high-pitched, breathy voice in a session. By July, she could hold notes for five to six seconds and practiced vocal warm-ups while driving.

“Usually I’m the person pushing the patient, but with her, it was the other way around,” van Leer says. “She got much better than expected, and her instrument keeps changing.”

By the end of her session, Christian and van Leer have picked up some new exercises and discarded others, as well as found a new pitch lower than she had reached before, one that van Leer places as around the normal level of a woman’s voice. “Normal” is a term Christian had rarely been able to apply to her voice, and it made her tear up to hear it.

“I have high expectations for myself, but that word got to me,” she says. “You know, when you’re different from the rest of the world for years, and then you find you have something normal, that’s a lot to gain.”

Sid Khosla, professor of otolaryngology, says pockets of air moving within the larynx may explain why individual voices are different and can have a different richness or quality to their sound.

Researchers use an animal larynx, lasers and cameras to visualize and capture how air moves through the organ in an effort to better understand and treat voice disorders.
WANT TO KNOW what something is made of? Just smash it open.

That seemed to be NASA’s advice in October 2009 when it hurled a satellite into the moon's surface at a speed of 5,400 miles per hour. The resulting crash into a permanently shadowed crater near the moon’s south pole created a six-mile-high plume of particles that scientists say dated back to the dawn of the solar system and which had never been analyzed.

But that was about to change. The Lunar Crater Observation and Sensing Satellite (LCROSS) carried a low-cost instrument built by scientist David Landis, A&S ’90, PhD (A&S) ’94, to provide long-awaited ultraviolet measurements of the dust particles.

Dubbed ALICE, Landis’ spectrometer indicated the presence of hydrocarbons, hydrated materials, vapor and water-ice. The mission had confirmed the existence of water on the moon.

Finding water on the moon was critical to future exploration because humans and machinery both require it. Unfortunately, water is heavy, and transportation is expensive, costing more than $100,000 to carry a single gallon from the Earth to the moon.

According to Science magazine, NASA scientists estimate that roughly 340 pounds of water were found in the material excavated from Cabeus, the satellite’s crater of impact. Scientists believe the water collected across the entire moon’s surface could potentially be used to produce drinking water, oxygen for breathing, an environment for cultivating food and even hydrogen for rocket fuel on future missions to Mars.

For quite some time, scientists have suspected frozen water particles were nestled in the moon’s polar craters, but exploration was difficult because permanent shadows from the Earth and sun hid them. Blowing up the hole to release its secrets looked like a viable option.

“I think it’s amazing,” chemistry graduate Landis says, “to be able to participate in an important discovery that, aside from potentially providing useful resources for manned missions to the moon, may help us answer the unanswered question of how the moon was formed.”

Landis played a crucial role in NASA’s success. On the LCROSS payload were two of his creations. First, partnering with Ocean Optics, he designed and built the ultraviolet-visible (UV/Vis) spectrometer, which provided ultraviolet measurements of the dust particles. (UV/Vis spectroscopy is routinely used in analytical chemistry.)

Second, as part of his own company, Aurora Design and Technology, he designed, developed and delivered the optics responsible for viewing scattered and reflected light in the dust cloud after the satellite impacted the moon’s surface. He also served as the only private-sector member of the LCROSS science team.

Not bad for a guy who built the instruments literally in his own garage. His one-person company has no James Bond wonder facility for production, and his only lab assistant is his dog.

While the instruments required rigorous testing by NASA before they could reach mission-ready status, he successfully created an accurate spectrometer for only $60,000 (compared to the $2-million estimate from large corporations). And NASA soon realized that smaller commercial tech companies may be the way to reduce mission costs.

“What I provide is proof that commercial instrumentation can actually last in space,” Landis says. “LCROSS proved that it is possible to do space missions significantly cheaper than they’re currently done. It was an enormous success.

The Lunar Crater Observation and Sensing Satellite (LCROSS) carried a low-cost instrument built by alumnus scientist David Landis to provide long-awaited ultraviolet measurements of lunar dust particles.
"The data was just unbelievably good, and the instruments worked perfectly. It was interesting to see years of work be used for four minutes of data."

Since LCROSS launched, NASA has maintained Landis’ contract for a number of other missions. Currently in orbit is O/OREOS (Organism/Organic Exposure to Orbital Stresses) nanosatellite, which will use Landis’ instruments to evaluate how microorganisms and organic molecules survive when exposed to the stresses of space. The size of a loaf of bread, O/OREOS will “feed” the microbes in its vessel and analyze its growth cycle and survival in space. Landis is excited about initial results from the satellite’s first six months in orbit.

Another mission-critical spectrometer will go aboard LADEE (Lunar Atmosphere and Dust Environment Explorer). Prepared to launch in 2013, the satellite will orbit the moon and measure its surrounding dust.

"The point is to determine the spatial and temporal properties of lunar atmosphere and dust exosphere," Landis says. "It has been known since the Surveyor and Apollo missions that there was a lunar atmosphere, but the unanswered questions are: What is it made of? Where does it come from?"

Ultimately, reaching for the moon hasn’t been high enough for Landis. He also has custom-made spectrometers that will ride on the next Mars rover to analyze the light created by a ball of plasma that results from the rover firing a laser on a distant rock. Although current spectrometers can analyze this material, none to date have been able to do so from a distance.

Expanding responsibilities made Landis realize that his garage-sized company would soon grow inadequate. Consequently, when Draper Laboratory approached him to work in its biomedical engineering group, he carefully considered it … before saying, “No.”

“I've always been a space nut,” Landis says, joking that if he had not been nearly blind he would have become an astronaut. “I just couldn't give up on space,” he says of the proposition.

So Draper came back with another offer — the senior program manager position in its Space Science Instrumentation Division. He jumped at it. Now he works for them, handling NASA projects and other government and corporate clients.

"It's something different every day," says Landis. "One day I'm working on mechanical engineering; the next, it's optical. After that, it's spectroscopy.

“I love being in the lab and creating things. It's great figuring out that things can be done differently but still result in great science.”
**Historic pairing**

This photo of the space shuttle Endeavour docked to the International Space Station was taken in May from the Russian Soyuz spacecraft as it returned to Earth — the first photo taken of a docked shuttle from another spacecraft. During the last decade, space shuttles helped build the complex at an altitude of approximately 220 miles. Many UC alumni have worked on those launches, designing trajectories and teaching astronauts how to maneuver on spacewalks, among other things. In a few years, another alumnus expects a prototype space suit he is working on will get a trial run at the space station. (See their stories on page 20.)
Aiming higher
New UC track coach spends life asking questions and challenging norms

Snowballs, rocks, sticks. You name it, she could chuck it. By age 7, Susan Seaton had an unnatural ability to whiz objects for distance and with deadly accuracy and had caught the attention of her East German government. At an age when American girls were playing jacks or hopscotch, young Susan was already enrolled at a government-run Olympic training center two days a week.

By 10, she trained five days a week and was winning neighborhood bets that she could out-throw even the older boys near Saalfeld, Germany, not far from the Berlin Wall. “We had these five-story block buildings that were always in Eastern Bloc countries,” recalls Seaton, UC’s women’s track coach. “My friends would challenge these guys that they couldn’t throw a snowball on top and that I could.

“Sometimes there would be a little money or candy on the line. It was real fun to pretend I couldn’t throw it up there at first. Then I’d inch my way up, to lots of screaming and yelling, before throwing a couple on top.”

Communist sports school
At age 14, Seaton left home to join a government-sponsored sports school 40 minutes away with hopes of furthering her javelin-throwing prowess and ultimately becoming a world-class athlete.

“You were selected, based on your athletic abilities, to go there and train with better coaches and better facilities,” she says. “By then, I could throw a 300-gram ball (two-thirds of a pound) the length of a football field.”

Seaton’s hopes of representing her country competitively fizzled within a couple of years when she lost her place in the sports school following knee injuries and had to return home.

“Now that I’m a coach, I can look back at the human performance indicators, and I can see that we were overtrained,” she says. “It was really just too much for our young bodies.”

Losing her status at the sports school was a painful lesson for Seaton, who was also now questioning her country’s social policies. But challenging the status quo, it seems, was an inherited trait.

Seaton’s father, a machinist, and her mother, a school teacher, had at one time refused to join the Socialist Party, not so much because they opposed socialism but rather they thought the party failed to live up to its ideals. She recalls one year when they attempted to abstain from voting.

“They felt it was pointless because there was really only one party to vote for,” she says. “So they decided to just stay home.”

The Stasi, or state security, had other plans and stopped at their home several times questioning why they hadn’t voted.
“There wasn’t any force involved,” she says. “But it was sort of pointed out that it wouldn’t be good for their future in their jobs if they didn’t participate. They were eventually escorted to the polls to vote.”

Though much has changed about her life since spending her childhood and adolescent years hemmed in by the Berlin Wall, Seaton’s knack for confronting the state of things remains intact.

Not long after taking over the women’s track and field program, she took stock of her rather uninspired team and decided the problem wasn’t the talent level but rather their level of expectations.

It was the summer of 2010, and the Bearcats were a team who had plenty of individual successes but few real team accomplishments. Their new head coach, a woman with a heavy German accent and many years of assistant experience, was convinced they had stopped taking themselves seriously.

In other words, it was time for a gut check. “We were satisfied with being mediocre,” Seaton says. “It was a big hurdle to get over.”

**Attitude adjustments**

By the end of the 2011 season, the team had not only bought into their coach’s culture shift, they turned in the best season in team history as UC moved from a 12th-place Big East finish to sixth in the conference, including several who qualified for nationals.

“We almost feel like we achieved more than we possibly could have thought you could do in one year,” says Seaton. “But at the same time we are aware that we can do even better. There is now a lot of excitement within the team to see what we can do next year.”

Seaton is astounded by the shift in her team’s attitude, and she credits it back to the simple challenge now repeated not just by coaches but by the athletes of one another: “Is this really the best you have to offer?”

For the coach, that question defined much of her life, particularly in her socialist upbringing, where items such as cars, chewing gum, designer sneakers or even basic building materials were next to impossible to attain.

“You made deals and bartered,” she says. “That was the only way you could get things. You couldn’t just go and buy any record. We would make copies of music from the radio for each other. You could only get it if people shared.”

Far beyond the joy of scoring a taped copy of Prince, Bryan Adams or Depeche Mode, Seaton remembers the day she was accepted into the German College of Sports Science. Though only a handful from the entire country would be taken, she refused to list a second college choice and risked getting shut out of school altogether. She would eventually become class president.

**Piece of the wall**

During her freshman year in the fall of 1989, she and a group of friends were in Leipzig during the first Montagsdemonstrations or Monday demonstrations, in which hundreds of thousands took to the streets to protest the Communist regime.

“We were in this ice cream parlor, and the next thing you know there was a battle scene outside the window,” she says. “There was a street fight going on with Molotov cocktails flying off the roofs of houses and people throwing rocks and sticks.

“The Secret Service got involved. They were all wearing long black leather coats, and they linked arms and tried to march down the street and push people out of the center of the city.

“People came in bloodied from being hit by rocks. They were screaming. It was pretty crazy.”

Similar calls for freedom across the country, though mostly peaceful, eventually led to the fall of the Berlin Wall in November of that year. Seaton and her friends responded by piling into trains headed for Berlin.

“It wasn’t so much that we wanted to leave our country,” she explains. “We just wanted change.

“You were searching for answers. In a sense, your whole belief system you had growing up with had fallen into a shambles.

“We just embraced it. We went with it. We all got our little piece of the wall.”

---

Seaton’s journey to Cincinnati

Seaton eventually made her way to the United States where she met her husband, Bob, an acrobat and knife-thrower, at a summer camp in upstate New York. The company had hired Susan to teach sports and Bob to teach circus skills.

She later went back to Germany to complete her master’s in exercise science from the University of Leipzig, then worked as an assistant coach at Northern Arizona (three years) and Wisconsin (six years) before coming to Cincinnati and getting the head coaching job after six years of being an assistant coach.

Her husband is now a Hamilton County Deputy Sheriff and serves as both a SWAT sniper and a member of the recovery dive team. “These are not the life tracks of common normal people,” he jokes.

The Seatons are the parents of Patrick (25) and Aidan (5).
This year, Homecoming spans the nostalgia and tradition of our Uptown Campus to the excitement of Cincinnati’s burgeoning riverfront. Homecoming 2011 follows the theme “A Rivercity Homecoming: Bearcat Style” in light of the football team taking on Big East and regional rival University of Louisville Cardinals at Paul Brown Stadium on Saturday, Oct. 15.

While some have questioned the move from a cherished campus hallmark like Nippert Stadium to Paul Brown Stadium, the professional venue will give fans unrivaled capacity for a marquee game such as Homecoming. In addition to expanded seating choices for fans, Paul Brown Stadium offers great tailgating opportunities on or near the riverfront, spacious concourses and restrooms, and fan-friendly amenities that are sure to make Homecoming 2011 one for the ages.

The annual Homecoming parade, hosted by the University of Cincinnati Alumni Association, will be held Friday night to accommodate Saturday’s shift to the city’s riverfront. A favorite among families, the Homecoming parade will

**Top: Homecoming floats ringed Nippert Stadium in 1940, including a firetruck complete with billowing smoke, several horse-drawn entries and one giant bottle of scotch.**

From the days when fans sported fedoras and minks in the bleachers (*above in 1939*) and football helmets were still maskless, UC has been lining up Homecoming floats as a way to build spirit for the big game.

**A Rivercity Homecoming: Bearcat Style**

Loyal Bearcats believe alumni have a role in creating a meaningful legacy for UC by supporting the Alumni Association. Anyone who makes an annual gift of $50 or more to the UCAA becomes part of the Loyal Bearcat Society for that year. Alumni who graduated from UC within the past five years, as well as current students, can join the society with a minimum gift of $30. Gifts can be designated to specific funds or applied to areas of greatest need, and Loyal Bearcats receive enhanced benefits and services. For more information, visit [www.uc.edu/alumni/giveback](http://www.uc.edu/alumni/giveback).
feature floats built by student groups. For the first time ever, the UC Alumni Association is inviting alumni to walk in the parade.

Following this annual tradition will be a special “Cincinnati Favorites Pep Rally,” featuring two of the Queen City’s finest, Graeter’s ice cream and Skyline Chili. The move to Friday eliminates all scheduling and logistical conflicts with Saturday’s full array of pre-game activities and allows alumni to reminisce on UC’s campus and take in the city’s unique, metropolitan offerings over the course of one amazing, fun-filled weekend.

“In many ways, holding the Homecoming game at Paul Brown Stadium is a perfect statement on UC’s place in the community,” says Myron Hughes, Bus ’86, UCAA executive director. “UC plays an integral role in our community, and the evolution of the Uptown area surrounding our campus has mirrored the development of our thriving urban core.”

Critics of this year’s Homecoming game venue may not realize what a tremendous financial opportunity this presents the university to offset recent state budget cuts at a time when creative revenue streams are a key combatant of budgetary challenges. Through significant factors like additional seating, club seats with amenities, luxury suites and group sales opportunities, the revenue generated by holding a game at Paul Brown Stadium far exceeds that of a sold-out game at Nippert Stadium.

“University of Cincinnati Athletics must continually look at maximizing revenue opportunities that will position our programs at a championship level within the competitive Big East Conference,” says Andy Hurley, senior associate athletics director. “Our ability to leverage these unique opportunities is critical for not just Bearcats football, but all UC athletics programs. Playing games in a state-of-the-art facility like Paul Brown Stadium allows us to showcase our program on a grander scale and provides an incredible tool to recruit top talent.”

And what about students? After all, while Homecoming is certainly a calendar highlight for alums to relive their Bearcat experience, it is arguably one of the year’s biggest weekends in the life of a student. This fact was not lost among the multiple considerations for an off-campus game. Student Government has partnered with UC Athletics to ensure safe, convenient student transportation to Paul Brown Stadium along with official Homecoming T-shirts to all students using this service.

If you’re planning to be among the thousands of Bearcats heading to the riverfront at Homecoming 2011, be sure to visit the UCAA tent on the concourse near gates D and E for giveaways, to learn more about UCAA’s “1819” alumni giving initiative and other exciting ways to reconnect with your alma mater.

For Homecoming questions, contact Erin Stanley, UC Alumni Association program director, at 513-556-4344.

Oh, the stories that the homes along Clifton Avenue could tell of UC’s many parade entries, including this Elvis attempt in ’99.

At times, even a president or two has been known to make a mock appearance, including Reagan and Nixon imitators in ’97.
SCHEDULE OF EVENTS

MONDAY, OCT. 10
UC Blue Ash Campus Mini Pep Rally
10-11:30 a.m. Muntz Hall lobby, 9555 Plainfield Rd., Cincinnati

THURSDAY, OCT. 13
40th anniversary reunion for Advance program
6-8 p.m. Myers Alumni Center, African American student organization for professional development

3rd annual “Hoop-La Charity Basketball Game”
7 p.m. Shroder High School, 5030 Duck Creek Rd., $5 donation, co-sponsored by UCAA African American Alumni Affiliate

FRIDAY, OCT. 14
“Smart Tailgating”
11 a.m.-1 p.m. Recreation Center Plaza West, free food and drinks, sponsored by Campus Recreation Center, UC Wellness Center and University Dining Services

Home Run Derby
6 p.m. UC’s Marge Schott Stadium

Homecoming parade
7-8 p.m. Clifton Avenue, over 50 participating floats and bands, including past basketball heroes as grand marshals (street closes at 6 p.m.)

“Cincinnati Favorites Pep Rally”
8 p.m. Myers Alumni Center, with football head coach Butch Jones, the Bearcat mascot and cheerleaders. Skyline and Graeter’s available for purchase. (Free parking in the lot adjacent to the Alumni Center on a first-come, first-served basis.)

African American Alumni Affiliate reunion
10 a.m.-6 p.m. Registration, Office of Ethnic Programs and Services
3-5 p.m. Roundtable discussion, 320 University Pavilion, alumni and students discuss campus and community issues
6-9 p.m. Reunion reception, Mick and Mack’s Café, Tangeman University Center, $20
9 p.m.-2 a.m. After party, Lunar Lounge, 435 Elm St., live music and a DJ

SATURDAY, OCT. 15
UC vs. Louisville football — kickoff time TBA, Paul Brown Stadium, including presentation of Homecoming Court with king and queen crowned at halftime

Medical alumni tailgating — 2 1/2 hours before kickoff, Paul Brown Stadium, concourse between gates D and E, for the colleges of medicine, pharmacy, nursing and allied health sciences

African American Alumni Affiliate tailgate party — Paul Brown Stadium, lot B

African American Alumni Affiliate game-watch — Bearcat Lounge, Kingsgate Marriott, for those who can’t make the game
Whether you recall decorating floats as a student, marching in the band or simply cheering the Bearcats at the football game, you can find a photo to intrigue you at the special “UC Magazine” Web page dedicated to Homecoming memories. We have nearly 100 photos, including shots from nearly every decade since the 1930s. Plus, we have a video from the 1960 Homecoming, originally shot on 8 mm film by Mike Simpson, Bus ’63.

Look for the photos of the many times rain dampened Homecoming, then catch photos from the year it snowed so hard that someone built a snowman on the sidelines. Also, be sure to notice celebrity grand marshals of the parade, including Wyatt Earp (Hugh O’Brian, att. ’43), head Mouseketeer Jimmy Dodd, Olympic gold medalist Mary Wineberg, ’Ed 02, and 2008 Miss America Kirsten Haglund, att. ’08.

Get psyched up about this year’s Homecoming by reliving the old ones.

Grand marshals and guests in UC’s Homecoming parade have included (counterclockwise from left) actor Hugh O’Brian in ’59, Olympic gold medalist Mary Wineberg in ’08, head Mouseketeer Jimmy Dodd in ’57 and Miss America Kirsten Haglund in ’08.

Mickey Mouse Club Leader Jimmy Dodd and his ever-present ears returned to the university he attended to lead the festivities at Homecoming.

Visit www.magazine.uc.edu/extra.
It’s no surprise the University of Cincinnati Alumni Association offers a variety of services to those who have already received their education, including career placement assistance, guidance and networking, as well as engagement opportunities with other alums and students. Yet some may be surprised to learn that the Alumni Association also helps future and current Bearcats through a variety of scholarships that help defray the costs of a top-notch education. Think you know a current student who might be eligible for a scholarship? The UCAA is already accepting applications for the 2012-13 academic year, so read on to learn more about these special awards and the students who are building their futures at UC because of them.

Demakes Legacy Scholars
UCAA’s largest offering of scholarships has been awarded this year to 34 incoming students who are children or grandchildren of alumni who are part of UCAA’s members in the Loyal Bearcat Society and William Howard Taft Society. The scholarship carries the name of a true UC legend, Chris Demakes, A&S ’62, JD ’65, who led the Alumni Association for more than 20 years and brought the organization to new levels of prominence through fundraising and engagement efforts.

Demakes frequently traveled to Washington, D.C., to seek matching funds for building projects at UC and was a major force behind the construction of the Myers Alumni Center. Many members who were touched by his service made contributions upon his retirement — and years later, at his passing. Their gifts initially funded scholarships to help build generational traditions by rewarding legacy students and attracting the best and brightest minds to the university.

Many incoming freshmen have a world of opportunities in front of them when selecting a college, and these scholarships can help cement their decision to pursue a degree where their parents and grandparents received their education.

In reality, Lewnard was a member of the UC cross country team and the Big East Cross Country Championships at Syracuse University were that day, “I was honored and excited to get nominated,” she says, “but I thought I had no chance of winning because I wasn’t even going to be there.”

After the meet, her coach was the first to congratulate her with the news, and she started crying. Next came excited phone calls from her mother and friends.

Her aunts, however, had no time for phone calls because they were busy taking pictures, totally documenting the scene for their niece — including the Bearcat “doing very womanly poses,” as Lewnard describes. “It was very funny.”

She did get the crown and sash back from her hairy stand-in, but she never got to wear that once-in-a-lifetime piece of regalia.
the scholarship with alleviating some of the financial burden of pursuing her degree at the College of Nursing. "The scholarships I have received since coming to UC in 2010 have given me the opportunity to focus on my studies but also have given me the chance to become more involved on campus," Rooney says.

"Some of the best moments of my college career, the things I’ll remember hopefully for a lifetime, were possible because I could actually be a student and not worry about holding down multiple jobs when I wasn’t in class. I appreciate the support that UCAA has given me and hope I can pay it forward in some way to the students who come after me."

Fellow recipient Sammy Geroulis echoes many of her sentiments. One of the leaders of Delta Sigma (a professional fraternity organized to foster the study of business in universities), he is also the president of the Student Ambassadors Executive Board when he wasn’t holding down multiple jobs. "Some of the best moments of my college career, the things I’ll remember hopefully in some way to the students who come after me."

2010 recipient Austin Francis, a leader in the Student Alumni Council, was able to participate in a service-based, spring-break trip to El Salvador, where he helped build houses for those in need. “It was truly a once-in-a-lifetime experience,” Francis says, “and the support I received turned into a blessing for me, as well as those I worked with on the trip.”

2009 awardee Katie Lewnard, (see p.44) Eng ’11, also exemplified the spirit of Meg and Sheri by assuming leadership roles in the College of Engineering and Applied Science Ambassadors Program, the UC cross-country team and the Ronald McDonald House. "The financial help allowed my senior year to be less stressful," she says, "giving me the chance to enjoy life as a student as well as a leader.”

Regional Alumni Awards

UC’s alumni networks in nearly 30 regions around the country do more than reconnect familiar faces away from home. The networks have a serious commitment to scholarships for students from their respective communities.

For instance, incoming UC students from Cleveland, Columbus and Washington, D.C., have been awarded scholarships for 2011. While these students may be leaving their old homes, they will quickly find a welcoming new home in Cincinnati.

If you would like to donate to one of these scholarships or know a student who would like to apply for one, contact the UC Alumni Association at 513-556-4344 or www.alumni.uc.edu.

Kacher-Bloom Scholarship

Much like the aim of the Demakes program, the Kacher-Bloom scholarship was founded to keep the memory and spirit of two young women — Meg Kacher, Bus ’85, and Sheri Bloom, AHS ’85. Both impacted many people around UC as students in the mid-’80s.

After losing both Meg and Sheri to untimely deaths, friends and family worked with the UC Young Alumni Association and the Student Alumni Council to endow a scholarship honoring their remarkable lives. True to the example of the scholarship’s namesakes, Kacher-Bloom recipients work hard to serve others.

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The University of Cincinnati Alumni Association exists to serve and support the global family of almost 250,000 alumni and their university. As such, it’s an organization reliant upon the passionate, dedicated and expert leadership of volunteers, especially those who are elected to its Board of Governors. In July, seven new volunteers joined the board, and Executive Committee officers were elected for the 2011-12 year.

Jeffery Burgin Jr., A&S ’97

The interim vice president for student affairs at Alabama A&M University in Huntsville, Ala., Burgin had previously held leadership positions in student affairs at Washington and Jefferson College in Washington, Pa., and the University of Tennessee at Chattanooga. Burgin is involved with the 100 Black Men of Greater Huntsville and the Alpha Phi Alpha Fraternity, and he volunteers with the American Heart Association. He is part of the UC Alumni Association’s William Howard Taft Society, which recognizes cumulative lifetime giving to the UCAA.

“I’m proud of the opportunity UC provided me and what it offers today’s students,” he says. “It’s important to me to work with them and do a better job of creating ‘alumni-in-training,’ and the UCAA board is another way I can serve. ‘Thy loyal children we will be!’”

Carolyn Karageorges, Bus ’96

Assistant vice president of internal audit for the Cincinnati Children’s Hospital Medical Center, Karageorges previously held audit management positions with Arthur Anderson and Deloitte & Touche. She and her husband, Terry (Bus ’95), are part of the Loyal Bearcat Society, which recognizes annual UCAA giving.

“I’m very proud of how UC has embraced a culture of continuous improvement and is investing in faculty, programs and resources that provide our students with the opportunity for a world-class education at a more affordable price than many peer institutions,” she says. “The UC Alumni Association plays an extremely important part in maintaining that excellence and value.”

Daniel Long, Bus ’75

Co-managing partner of VR Business Brokers in Cincinnati, Long helps small-business owners market and sell their firms. Previously, he had been president of Accuprint & Laminating of Cincinnati. He is a volun-

teer leader with various Cincinnati and UC organizations. In his senior year at UC, Long was named Mr. Bearcat. He and his wife, Lisa (Ed ’78), a former UCAA Board of Governors member, are part of the William Howard Taft Society.

“I sincerely believe that alumni need to pay back the institution from which they garnered so much,” he says. “I met my wife at UC. My best friends to this day are friends I met through my fraternity involvement at UC. Through my UC business college co-op experience, I learned so much about my strengths and weaknesses. I have owned two businesses of which UC was a client. Our alumni need to reflect and appreciate the role that UC has played in their lives.”

Justin Shafer, Bus ’05

A senior manager with Ernst & Young, Shafer serves Fortune 500 corporations as a business adviser. He also serves as treasurer for the Cincinnati Society for the Prevention of Cruelty to Animals, a committee chair of the UC Honors-PLUS Business Advisory Council and program leader for the United Way/Ernst & Young Earned Income Tax Credit Collaborative. Shafer was student body president and Mr. Bearcat during his senior year and also received the UC Presidential Leadership Medal of Excellence. He and his wife, Lisa (Eng ’05), are part of the UCAA’s Loyal Bearcat Society.

“It’s an honor to serve the UC Alumni Association during such a dynamic period in the university’s history,” he says. “With the physical transformation, the intense focus on elevating our academic standing and our aggressive Proudly Cincinnati Campaign, I can’t think of a better time to be part of this world-class organization.”

“I have owned two businesses of which UC was a client. Our alumni need to reflect and appreciate the role that UC has played in their lives.”

— Daniel Long, Bus ’75
Scott Stiles, DAAP ’83
An assistant city manager for Cincinnati, Stiles has overseen many significant projects to revitalize the urban core. He has served on the local boards of the Urban Land Institute, the Cincinnati-Kharkiv Sister City Association, the American Society for Public Administration and on the national Government Affairs and Policy Committee of the International City Managers Association. Stiles is part of the UCAA’s William Howard Taft Society.
“I am proud of the vibrancy and creativity that the university brings to the city,” he says. “As one of the largest employers in the Greater Cincinnati region, UC attracts young, talented professionals, which is absolutely critical to the continued growth of our area.”

Brad Wenstrup, A&S ’80
A podiatric physician/surgeon, Wenstrup is a partner with Wellington Orthopaedics and Sports Medicine in Greater Cincinnati. He is also a major in the U.S. Army Reserve and was decorated for his service in Operation Iraqi Freedom in 2005-06. Wenstrup currently serves on the Cincinnati Board of Health and the board of directors for Boys Hope Girls Hope. He is part of the UCAA’s William Howard Taft Society and is a former member of the UCATS board.
“Serving on the UCAA board is an honor,” he says. “With the broad range of quality academic choices here, as well as the quality of our athletics teams, Greek life and other social organizations, I’ve always been proud to be a UC grad.”

Yu Yin, MBA ’10
A tax consultant with Deloitte Tax, Yin is a native of China, where she had received undergraduate and graduate degrees from the Northeast Agricultural University before earning another master’s from UC. Previously she was an assistant professor at Harbin University, China. Yin has been a volunteer with the Greater Cincinnati Chinese Chamber of Commerce and International Friendships.
“At a UCAA international student reception prior to graduation, I met many fellow international students, as well as some very helpful alumni who expressed interest in my life and job hunt,” she says. “They gave me great advice and introduced me to other alumni who shared information and professional contacts, which helped lead to my current job. As a UCAA board member, I hope to return the favor to other alumni.”

UCAA board president Russell “Rusty” Myers, Bus ’82
“The university’s incredibly positive transformation is bolstered by increased alumni support, pride and participation, which simply ignites more of the same,” Rusty Myers says. “A great part of the UC Alumni Association’s value to our alumni family is providing opportunities for connections back to the university and with each other. And there’s plenty more to come — locally, regionally, nationally and globally throughout our vast alumni network.”

[Alumni] gave me great advice and … shared information and professional contacts … I hope to return the favor.”
— Yu Yin, MBA ’10
RALPH SPITZEN HAP- PENDED TO BE SNAP- ING IN 1974 Engineering pictures club for when his aero Neil Armstrong made engineering a surprise appearance. Armstrong One of UC's aerospace aerospace and engineering professors and the first man to ever walk on the moon, Armstrong stopped by to try his hand at the paper airplane contest that UC’s student chapter of the American Institute of Aeronautics and Astronautics hosted every year. The contest, in the Armory Fieldhouse that year, had simple rules: Fold your best plane, step up to the rail and launch it across the gym.


"Because of the variety of his flight experiences, he was able to relate different engineering problems and help us appreciate the translation of concepts into the real world," says Spitzen, who took four classes with Armstrong, including aerospace design, but never quite got used to the idea of sitting in class with such a heroic figure.

So how did the famous astronaut's designs fly? We'll never know. "He chose not to test-fly them," Spitzen recalls.

"I was in the right place at the right time to capture a photo of Armstrong doing something you wouldn't expect an individual like him to be doing. It shows you that he was as down to earth as any of the rest of us."
Relive the ’60s
Through Rare Video

ENJOY some 50-year-old footage
of the pep rally and team
celebration that followed the Bearcats’ first
national basketball championship in 1961.

Also, don’t miss the video from UC’s Home-
coming parades from the same era as well as a
slideshow of Homecoming through the years.

www.magazine.uc.edu/extra

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Join your Bearcat alumni family!

HOMECOMING
A Rivercity Homecoming: Bearcat Style

Celebrate Tradition
FRIDAY, OCTOBER 14
Homecoming Parade
UC Campus at 7 pm
Pep Rally
Myers Alumni Center at 8 pm

Relive the Excitement
SATURDAY, OCTOBER 15
UC Bearcats Football versus U of L Cardinals
Paul Brown Stadium
Game time TBD

DETAILS & EVENT REGISTRATION ONLINE
uc.edu/homecoming