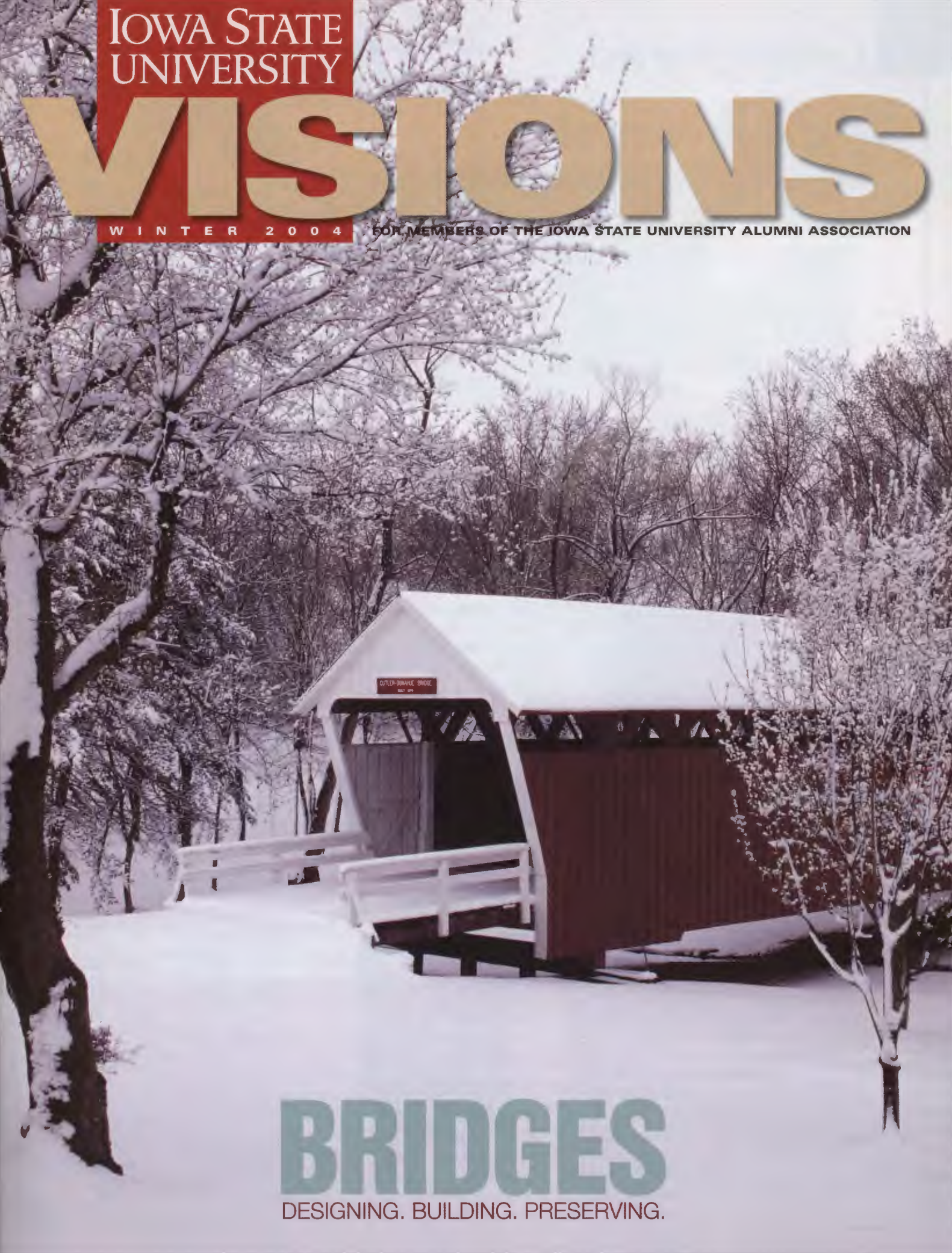
IOWA STATE UNIVERSITY

# VISIONS

WINTER 2004

FOR MEMBERS OF THE IOWA STATE UNIVERSITY ALUMNI ASSOCIATION




## BRIDGES

DESIGNING. BUILDING. PRESERVING.

By Carole Gieseke

# Why I love bridges

*I'll never forget the first time I walked across the Golden Gate Bridge. It was in March 2000, and I had a conference in San Francisco. It ended at noon on a Friday. I was staying at the Hilton near Union Square, and my goal was to walk to the Golden Gate Bridge, walk across the bridge, and get back to my hotel before 6 p.m. when I was supposed to meet a friend for dinner.*

This was early in both my walking and city exploration careers, and the tight timeframe of this walk made me nervous. I was thinking the bridge was around 8 miles from my hotel, so if I walked at a rate of, oh, let's see, 3 miles an hour because of the hills, that's almost 3 hours to get there and 3 hours to get back, oh dear, I wasn't sure it would be possible. So the minute the conference ended I bolted back to my room and put on my walking shoes, grabbed my map, disposable camera, and rain coat (we're in San Francisco, remember) and headed for the bridge.

What an adventure! I stopped at a deli for food that I could eat on the run – or walk, as it were – and kept moving. It wasn't long before I could see the bridge. It's huge, and it's orange, so of course you can see it for miles. I kept thinking, well, I'm almost there! But it took a heck of a long time. When I finally got there, I had a tourist snap my picture on the south end of the bridge, and then I started across.

The Golden Gate Bridge is a major American landmark, right up there with the Statue of Liberty and the Empire State Building. One book I read says the bridge is "admired for its magnitude and graceful beauty…tremendous towers, sweeping cables, and great span." All that and it's 235 feet above the bay, so walking across it gives you a good head rush. Did you know the towers are taller than the Washington Monument? True story. It's a good walking bridge in the sense that it has a wide pedestrian lane, but it's also used by bicyclists who whoosh by you in a big hurry. Lots of people walk across the bridge, though, so it was fairly crowded. I didn't see any jumpers – apparently that's a popular pastime with San Franciscans since more than 1,000 people have committed suicide by jumping off the bridge since it opened to pedestrians in 1937 – but I did see lots of crisis telephones, just in case you were THINKING of jumping but then change your mind. Anyway, when I got to the end of the bridge, windblown and exhilarated, I found another tourist to take my picture on the Marin County side. And then I turned around and walked the 1.7 miles back across.

I won't bore you with how lost I got in the Presidio on the way back to the hotel because I was trying to take a short cut (who designed those streets, anyway?), but suffice it to say that I was extremely annoyed. But I got back in time, and I have to say that I count that first walk on the Golden Gate Bridge as one of the Great Walks of my life (the other most memorable bridge walk being the Brooklyn Bridge at night, but that's another story).

Well, that's how my great love affair with bridges began. I really can't explain why I'm fascinated with them. Maybe it's because, being no structural engineer, I can't fathom how these enormous things are built. Maybe it's because of the history of the bridges and the stories of the designers and engineers and workers who actually built the bridges. Maybe it's because they're just so darn beautiful. I dunno. I just know I like them.

So it shouldn't surprise you that I got really excited when I got a magazine in the mail a couple of years ago that had this gorgeous arched bridge on the cover and a note attached that said the bridge was designed by an Iowa State alum. The magazine, *The Oregon Stater*, featured photos of half a dozen bridges along the coast of Oregon, all designed by Conde B. McCullough, a 1910 civil engineering graduate. McCullough died in 1946, but many of his 600 bridges are still standing in the state of Oregon.

That got me thinking about other bridges, and their connections to Iowa State. The result is this issue's cover story. I hope that even if you've never given bridges a second thought, even if you're terrified to drive across them, even if you just think of a bridge as a device to get you from here to there, that you'll take a look at the beauty and diversity of the bridges we've chosen to feature, and the alumni, faculty, and students who have been involved with them in some way.

And take my advice: Next time you're in San Francisco, walk across the Golden Gate. But hang onto your hat! It's windy up there! □

ILLUSTRATION BY STEPHEN SNIDER

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VISIONS
FOR MEMBERS OF THE IOWA STATE UNIVERSITY ALUMNI ASSOCIATION
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# Features

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COVER STORY

## Bridges *Designing. Building. Preserving.*

*Imagine San Francisco without its Golden Gate, or Madison County without its covered bridges. ISU and its graduates have contributed to the design, construction, and preservation of great American bridges from coast to coast.*

BY CAROLE GIESEKE

## 30

## Celebrating 125 years

*As the Alumni Association celebrates its 125th anniversary, it honors the people upon whose shoulders it rests … and kicks up its heels during Homecoming 2003.*

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**The ISU Alumni Association mission:**
To engage the talents and resources of alumni, students, and friends in the life, work, and aspiration of Iowa State University

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**On the cover:**
One of five remaining covered bridges in Madison County, the Cutler-Donahoe Bridge was built in 1870 over the North River near Bevington. It was moved to its present site in Winterset's City Park in 1970.
Photo Jim Heemstra.

*Printed with soy ink on recycled and recyclable paper.*

# Letters

**VISIONS magazine encourages you, the readers, to express your opinions by writing letters to the editor. Please include your name, class year, address, and daytime phone number. Letters chosen for publication may be edited for length and clarity. Complete letters, as well as additional letters, may be viewed on the Alumni Association Web site: www.isualum.org/go/visions. Send letters to: VISIONS Editor, Alumni Suite, Memorial Union, 2229 Lincoln Way, Ames, IA 50014-7164; fax 515-294-9402; or e-mail cgieseke@alumni.iastate.edu.**

## The ISU Alumni Association: Celebrating 125 years

WHAT A WONDERFUL EXPERIence to receive VISIONS (*Fall 2003*) and recognize Grandpa [Edgar] Stanton on the cover and then find all the excellent articles. Your concept really brought him, George Washington Carver, and Carrie Chapman Catt to life. And then the picture of Mother [Margaret Stanton] in the middle of the C.O.B. picture with all the women wearing their pins. I have her pin on my charm bracelet and remember her explaining it to me a long time ago.

I once received a letter from Carrie Chapman Catt when I was in junior high and did a report on her. She was in a later class, but Mr. Catt was in the first graduating class and all of them would study together. She said they would gather at the Maples for discussions and she felt that she learned as much there as she did in a classroom under the leadership of Grandpa Stanton, a new mathematics professor. Your article on her was excellent.

**Peggy and Pat Doe***
Sun City West, Arizona

I WAS READING THE LATEST ISSUE of VISIONS, and in the article "How it began," the first paragraph says "the nation's first land-grant college." I had heard this statement before. I was recently at a meeting on the Michigan State campus, and one speaker said Michigan State was the nation's first land-grant college. Which is correct?

Another question I have: We were recently on the ISU campus and we were told Iowa State has one of the three most beautiful campus settings in the nation. What are the other two? Michigan State says they have the most beautiful campus.

> "Is Iowa State the first university to have a butterfly house?"

One more question: Reiman Gardens now has the new butterfly house. Is Iowa State the first university to have such a facility? What other universities have a butterfly house? How many such houses are in the United States?

**Dow E. Prouty,'50****
Cedar Rapids, Iowa

**Editor's note:** The Land-Grant Act, also known as the Morrill Act, was signed into law in 1862. Although other land-grant schools of today existed before Iowa State was chartered in 1858 (University of Wisconsin in 1848 and Michigan State in 1855, for example), Iowa was the first state to accept the provisions of the Morrill Act.

Campus beauty, like all beauty, is in the eye of the beholder – and clearly open to debate. The "most beautiful campus" reference most likely came from the American Society of Landscape Architects' 1999 centennial listing of "Medallion Sites," which included Iowa State's park-like central lawn among three university central campuses to receive that designation. The other two were Yale University and the University of Virginia. Additionally, author Thomas Gaines, in *The Campus as a Work of Art* (1991), proclaimed Iowa State to be one of the 25 most beautiful campuses in the country.

Iowa State was the first university to build a facility for the exhibit of live butterflies and to exhibit both native and exotic species. Michigan and Kansas State Universities each have a butterfly exhibit consisting solely of native North American species, and a new facility is under construction at the University of Florida in Gainesville. There are about 30 total butterfly exhibits in the United States.

## Dairy Farm memories

I COULDN'T HELP BUT RESPOND to the request for memories of the Iowa State Dairy Barn. ("Around Campus," *Fall 2003*) The year was 1982 ... the event was the annual Milk Maid Competition. Dressed in all the garb of the event, the men of Pearson House and the women of Pennell (including my future wife) attended in grand style. I was chosen to compete for our team in the milk-drinking contest. (Yes, the one where we drank from a calf milk bottle!)

My efforts would have passed unremembered as so many such events do, except that a photograph of me participating in that event became a picture on the "You Know You're an Iowa Stater When..." poster produced that year by the *Bomb* yearbook. Thanks for the chance to recall wonderful memories and friends from my days at Iowa State.

**Lee McFee, '83, '85, '88**
Grinnell, Iowa

I WAS A RESIDENT OF THE TOWERS from 1969 to 1973. Our harbinger of spring was the distinct aroma as the ice and snow melted from the area around the Dairy Barns. Spirits and olfactory senses lifted by a slight southerly breeze, we knew warmer weather was right around the corner.

**Gary Abramsohn, '73***
Burlington, Iowa

## Remembering Dr. Parks

I READ WITH GREAT SADNESS of the passing of Bob Parks ("Around Campus," *Fall 2003*). I grew up in Ames, and my dad was a professor at Iowa State. As a family, we observed President Parks and his quiet leadership and vision for ISU from many perspectives and remember him with great admiration and fondness.

My favorite memory of President Parks involved the celebration of VEISHEA in 1979 or 1980. I was involved with a VEISHEA committee, and one of my duties was to drive President Parks in a golf cart from the Memorial Union to the start of the parade, where he would climb into the obligatory awaiting convertible. The parade would officially begin once he was situated and ready to roll. As we traversed the parade route, the crowd was already waiting with much anticipa-

tion and cheered appropriately for President Parks as he passed by. (I suspect they were glad to see him for many reasons, not the least of which the fact that once he got into his car, the festivities could begin.)

We passed several pockets of people who happened to know who I was: a group of my fraternity brothers, a group of VEISHEA committee members, a group of Cyclone Aides – even some of my younger sister's friends. These groups were quite boisterous and probably surprised that I had such a visible role.

Their cheers got louder and louder as we passed by and actually overwhelmed the cheers for President Parks himself – it got to be kind of embarrassing. At that point, Bob leaned over, and without even cracking a smile

> "Thanks to Bob Parks' enlightened leadership, ISU was and is still a remarkable institution."

whispered in my ear, "I guess I should be YOUR driver – they're probably wondering who the heck is in the golf cart with Doug Pletcher."

As you can imagine, it's a favorite snapshot from my days at Iowa State and a fond memory of a great and compassionate man.

**Doug Pletcher, '83****
Edina, Minnesota

AS A YOUNG TEACHER WITH little experience, I was nervous and concerned to find that the daughter of Dr. and Mrs. Parks would be in my Madison School kindergarten during the 1959-60 school year.

Happily, they quickly put me at ease, and their daughter was a darling and very able child. I remember them as interested and supportive parents, who always had time for their daughter, despite what must have been many other pressures.

**Sandra Burns Beak**
Urbana, Illinois

I GRADUATED FROM ISU IN 1975, and my favorite memory is getting to sit with Bob and Ellen Parks at the dinner honoring new inductees into Phi Beta Kappa. I have no idea how I got so lucky to be seated at their table, but it was great fun to talk to them both. I worked in the library as a student assistant, then went on to library school at Illinois after graduation. I was delighted when the ISU library was named for them. I joined the Alumni Association as a life member when I graduated, and I've been proud to be affiliated with ISU all my life. Thanks to Bob Parks' enlightened leadership, ISU was and is still a remarkable institution.

**Emily Batista, '75****
Broomall, Pennsylvania

MY MEMORY OF DR. PARKS comes from the summer of 1975. I was working with other Cyclone Aides (the summer orientation group). We were having a team-building game called "Bigger or Better." Each team was given a tennis ball and challenged to bring back something greater. One team brought a canoe, one a bale of hay, etc. Well, our team went over to the Knoll and asked Dr. Parks (on a Saturday night) and he was more than happy to be our "prize." He came over and gave a GREAT motivating speech about how we were the representatives of ISU and the first people the students and parents would meet. It was very moving.

Later, when I was class president, I came to see his management style and how much the faculty respected him. I guess I always thought of him as larger than life. He was truly a wonderful man.

**Tim Coble, '77****
Des Moines, Iowa

FALL OF 1972, I WAS A SOPHOmore in animal science. As my wife and my parents were walking with me to Clyde Williams Field from our Pammel Court apartment for a football game, Dr. Parks – who seemed to know who I was and certainly gave my parents the impression that he did – came out of Beardshear and stopped to talk with us on the sidewalk for a good five minutes. You would have thought I was the most important student on campus! What an impression he made. My dad talked about that until the day he died.

**Douglas Hard, '75, '78, '81****
Crystal Lake, Illinois

I GRADUATED FROM IOWA STATE in 1978. I lived in Lange House (in the Richardson Court Association) for four years. I was the social chairman (along with Paul Meenan) of Lange House in 1976. We came up with the idea to invite President Parks to one of our "dinner exchanges." (A dinner exchange was when one dorm floor asked another dorm floor to dinner.)

Paul and I approached President Parks' secretary to see if he would come to one of our dinner exchanges. The reason why was simple – President Parks was our neighbor. He lived right next door to the RCA. Why couldn't neighbors share a dinner together? This approach worked, and a dinner date was set up.

President Parks and his wife were wonderful guests. Everyone enjoyed the meal and conversations. President Parks continued to eat with Lange House every year.

**Bob Antol, '78****
Poughquag, New York

I ONLY MET BOB PARKS ONE time, but I've always remembered our chance meeting. I was attending my first presidential caucus in January 2000. The room was crowded, so I decided to take a seat on the floor. At the time I didn't realize I was sitting next to former ISU president Bob Parks. As soon as I took my seat, he jumped up and insisted that I take his chair. After much dispute, I finally accepted his kind gesture. He introduced himself to me, and we started a conversation about ISU and politics. He explained to me how exciting it was to see young people like myself participating in politics. He also explained how hard it was for him to not be politically involved while he was president, because it wasn't appropriate at the time. I don't remember our conversation word for word, but his kindness and our shared enthusiasm for ISU and politics was inspirational to me.

**Tracy Harling, '00***
Houston, Texas

**Correction**

*In the Fall 2003 issue of VISIONS, the ISU Alumni Association's historical timeline on page 14 incorrectly lists Jim Hill as composer of "The Bells of Iowa State." The song's composer, and contest winner, was Jim Wilson.*

*Annual Alumni Association member
** Life member

### Changes at the top

Four of Iowa State's eight colleges are undergoing changes in top management. Searches are currently underway to replace Liberal Arts and Sciences dean Peter Rabideau, who left Iowa State in August, and Veterinary Medicine dean Norm Cheville and Engineering dean Jim Melsa, who will both retire in June. A search has been halted to identify a new dean of Family and Consumer Sciences until a study of the university's academic structure can be completed. We'll let you know how it all turns out.

. . . . . .

### Atanasoff legacy continues

An estate gift from John Atanasoff II will enhance Iowa State's academic programs through an endowed faculty position, fellowships, or scholarships. The John V. Atanasoff Family Academic Endowment was announced during Iowa State's International Symposium on Modern Computing, held last fall in recognition of the 100th anniversary of John Vincent Atanasoff's birth.

ASK AN EXPERT

# Traveling abroad

**Our expert is Jan Breitman, travel director for the ISU Alumni Association.**

**Q: How safe is international travel today?**

A: It's really very safe. Just use common sense and don't plan to travel to countries where there is active terrorism or war.

**Q: What about airline security? How has it changed since the Sept. 11 attacks, and how has that affected air travel?**

A: Airline security is much tighter today. There are more baggage searches, which make travel less convenient perhaps, but much safer. To get through security, bring as little carry-on luggage as possible, and don't pack any of the items that could cause alarm, such as duct tape, scissors, or nail files.

**Q: Do I really need to get to the airport two hours prior to my flight? That seems awfully early.**

A: It often doesn't take two hours, but sometimes it's necessary to allow that much time to get through security, especially in major airports. Also, flights have been cut back, so be prepared for a full flight when you travel overseas. If you're not there early, the airlines can give away your seats.

**Q: How can I get the best deals on airfare?**

A: There are lots of Internet sites out there that offer bargain flights, especially last-minute deals. But before you buy, be sure you're really getting a bargain, and get written confirmation from the company. Also, traveling off-season reduces airfare and hotel costs. In Europe, November through May is considered the off-season, except for the holidays. And you can get good off-season bargains on tropical destinations during the summer.

**Q: Which is better, independent or group travel?**

A: It's a matter of preference. When you travel with a group, you'll be with people you know and may have things in common with. Group travel is hassle-free: Everything is planned for you. You don't have to be concerned about tours, hotels, or carrying your own luggage. There's always someone else worrying about the details and always a tour guide who knows the language.

Independent travel can be less expensive, and you can determine where you want to go and how much time you want to spend there. It's much more flexible, but you have the responsibility of organizing and planning the whole tour. You might also find you have to stand in more lines as an independent traveler than you would if you were part of a group.

**Q: What's the best way to deal with money? Are travelers' checks still the best way to go?**

A: Not anymore. I think it's best to use your ATM card. You'll get a better exchange rate, and it's really simple. You can also use credit cards. And the euro has made it easier to travel in Europe because about a dozen countries use the same currency.

**Q: You've traveled to more than 30 countries. Give us some insider's advice on international travel.**

A: Most people make the mistake of bringing too many clothes. Don't think you have to wear something new every day; just mix and match and dress conservatively.

- Make a copy of your passport and put it in your suitcase.
- If you plan to rent a car, be sure you have an international drivers license.
- Get a guidebook for the country you're going to and familiarize yourself with the local customs. I personally like the "Eyewitness Travel" series, but your local bookstore will have a variety of different travel guides from which to choose.
- Take a long-distance phone card.
- Buy travel insurance – the peace of mind is well worth the cost. □

*The ISU Alumni Association has sponsored a travel program for its members since 1972. Breitman has directed the program since 1991.*

# Doing more with less

*University reels under impact of another budget cut from the state*

**Iowa Gov. Tom Vilsack's reduction of Iowa** State's annual appropriation by 2.5 percent ($5.8 million) due to shortfalls in the state's tax collections, combined with the impacts of a tuition income shortfall ($1.5 million) and a shortfall in reimbursement costs associated with large research contracts ($1 million), resulted in an announcement by ISU President Gregory Geoffroy in early November that a total of $8.3 million will be trimmed from the university's current fiscal year budget.

As the university works through the latest rounds of budget cuts, Geoffroy said that every effort would be made to minimize the impact of the cuts on students.

The university has experienced the loss of more than $63 million in state appropriations since 2001. The current fiscal year appropriation is $227 million, less than the university's appropriation for 1996-97. During that time, enrollment has increased by nearly 2,500 students.

"Through previous budget cuts, we have maintained our focus on meeting the needs of students," Geoffroy said. "And we will continue to make that our highest priority, but that requires cutting other university services – all of which are important to the people of Iowa. I regret we have no choice but to make these reductions if we are to maintain the excellence of our educational programs."

Meanwhile, Vice President for Academic Affairs/Provost Ben Allen said a review of the organization of academic units would be conducted, with a possible end result of academic units and/or colleges being combined. *A complete list of budget cuts is available online.* □

On the web

www.iastate.edu/~nscentral/releases/2003/nov/budget.shtml

# Return to sender

*A birthday card that arrived 60 years late had connections to Iowa State*

**In April 1943, Evangeline** Maxwell sent a birthday card to her husband, Daniel, at Ft. Leonard Wood in Missouri, where he was stationed during World War II. It never arrived.

Recently the long-forgotten card was found at the U.S. Post Office in Springfield, Mo., and postal officials began to search for the letter's intended owner. It was a journey that would bring them to Iowa State.

The card was addressed to Sgt. Daniel H. Maxwell. The Springfield Post Office contacted Ft. Leonard Wood, who joined in the search. Their detective work led them to an Internet site – the computerized database of the Plaza of Heroines, located at Iowa State's Catt Hall. The Plaza contains more than 3,500 bricks sponsored by individuals honoring women who have influenced their lives. Each brick is recorded on the Web, and one of the bricks recognizes Evangeline Maxwell. Maxwell, a 1939 ISU home economics education graduate, was honored by her daughter, Denise Maxwell ('79 journalism).

Iowa State officials contacted Denise, and the long-lost letter was soon on its way to her father – 60 years late.

Evangeline Maxwell died in March 2003, and her husband, a retired postmaster from Spencer, Iowa, had relocated to Texas.

Denise says the arrival of the birthday card was "quite an event" for her family.

"In a period of mourning my mother's passing, the letter has been a powerful re-connection with her." □

On the web

www.las.iastate.edu/kiosk/index.shtml

**50 years of diversity**

Iowa State is celebrating a yearlong observation of the 50th anniversary of the landmark U.S. Supreme Court case, Brown vs. Board of Education. The 1954 ruling ended racial segregation in public schools and laid the groundwork for the civil rights movement. "The last 50 years have shown that diversity and education go hand in hand," said ISU President Gregory Geoffroy. Speakers and diversity discussions will highlight the year.

### Roadwork ahead

A plan to realign Knoll Road with Union Drive and create a new south entrance to campus will temporarily close roads on central campus this spring and summer. Knoll Road will be closed from mid-March to mid-July. Union Drive immediately east of the Memorial Union will be closed following Veishea through mid-August. The MU parking ramp will remain accessible from Lincoln Way throughout the project; the east exit will close temporarily, with ramp exits allowed only north onto Union Drive.

# Software for the real world

**EDS, A GLOBAL OUTSOURCING SERVICES COMPANY,** this fall donated a $282 million in-kind software grant that will prepare Iowa State engineering graduates to more quickly and productively enter the corporate world.

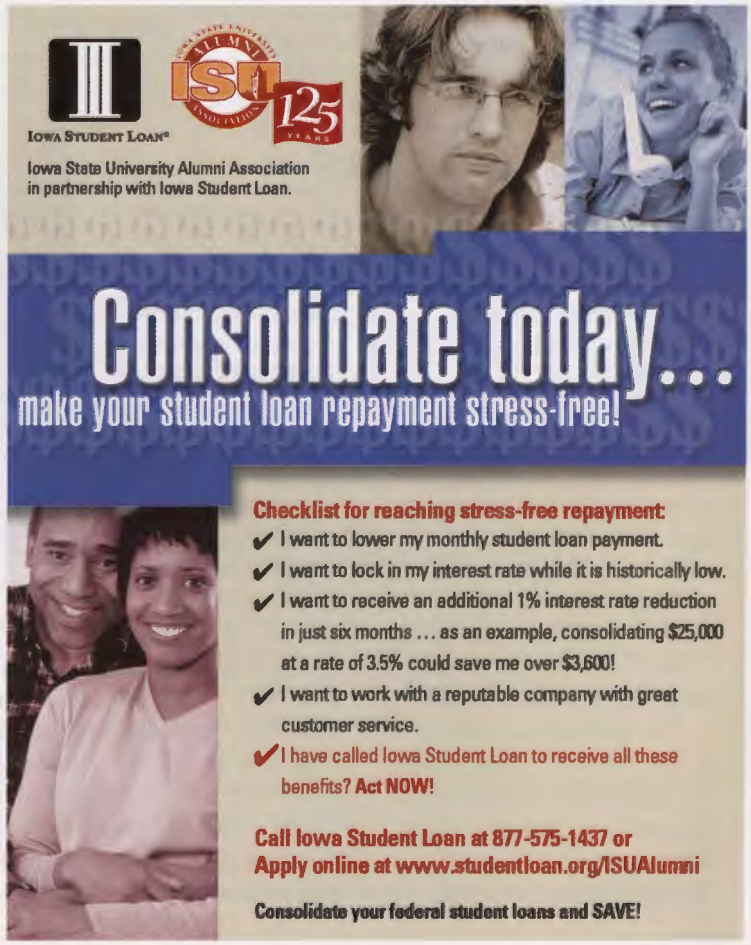
EDS PLM Solutions provided Iowa State with industry-leading software tools for product lifecycle management (PLM). The in-kind grant is the largest in ISU history.

The software will allow students to gain practical experience with the full range of PLM technologies, including computer-aided design, computer-aided manufacturing, computer-aided engineering, visualization, digital manufacturing, collaboration, product data management, and engineering process management.

James Oliver, associate professor of mechanical engineering, worked with EDS PLM Solutions and the ISU Foundation to secure the grant. Oliver characterized the software as a "concept-to-completion solution," meaning that it can be used to create products and manage the product lifecycle from concept through design, analysis, testing, manufacturing, service and retirement.

> A $282 million in-kind software grant will help engineering students gain practical experience with the same product lifecycle management technologies used by leading global manufacturers.

"Iowa State students will have the same computer tools used by contemporary engineers in Fortune 100 companies such as General Motors, Ford, Lockheed Martin, Deere & Company, and Boeing," Oliver said. "This grant will allow us to build entire programs around state-of-the-art software, the tools our students will use to make a living." □



# When in Rome

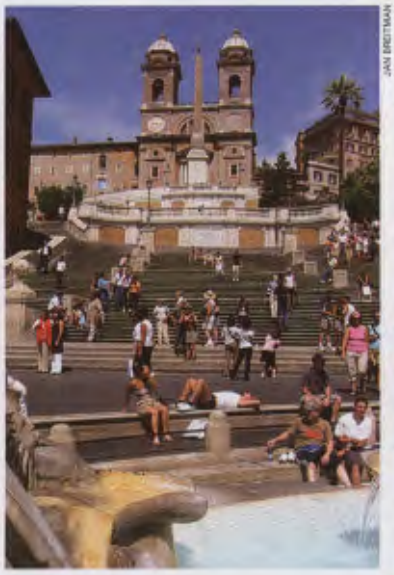
*Students, alumni experience the ancient city's historical pleasures*

**For 12 years, ISU students** from the College of Design have immersed themselves in the culture and history of Rome, taking courses on such topics as art history and Italian language, and traveling throughout the region on extended field trips.

The College of Design Rome Studio has become a "non-stop beehive of creative activity for Iowa State students" according to art history professor John Cunnally.

Each semester, at least three College of Design faculty take up residence in Rome to teach the courses, aided by a pool of local scholars and practitioners.

"It's like a dream to be able to introduce students to the great masters, letting them see and study these masterpieces firsthand instead of from books," said Brenda Jones, associate professor of art and design.



JAN BREITMAN

For 10 days in the summer, alumni join the students and faculty for an in-depth study of the historical sites of Rome. Last summer, 15 alumni participated in the Rome study tour, led by Cunnally and organized by the Alumni Association and the College of Design Rome Studio. Mornings were spent attending lectures, followed by guided tours of the lecture sites. The study tour will be repeated this summer, May 24-June 4, 2004.

The Rome Program is directed by Patricia Osmond de Martino. □

**On the web**

**For more information on the Rome study tour for alumni, visit:** www.isualum.org/services/travel/2004/rome.ltinerary.html, or call Jan Breitman at (515) 294-6526.

**Water, water everywhere**

Hundreds of gallons of water poured into the southwest end of Reiman Gardens Nov. 16, causing thousands of dollars of damage to the Marge Hunziker House, Lake Helen, walking paths, outdoor garden areas, and irrigation and drainage systems. The flood occurred when a city water main burst. Exact damages have yet to be calculated.


**You don't have to come to Iowa State to go to Iowa State.**

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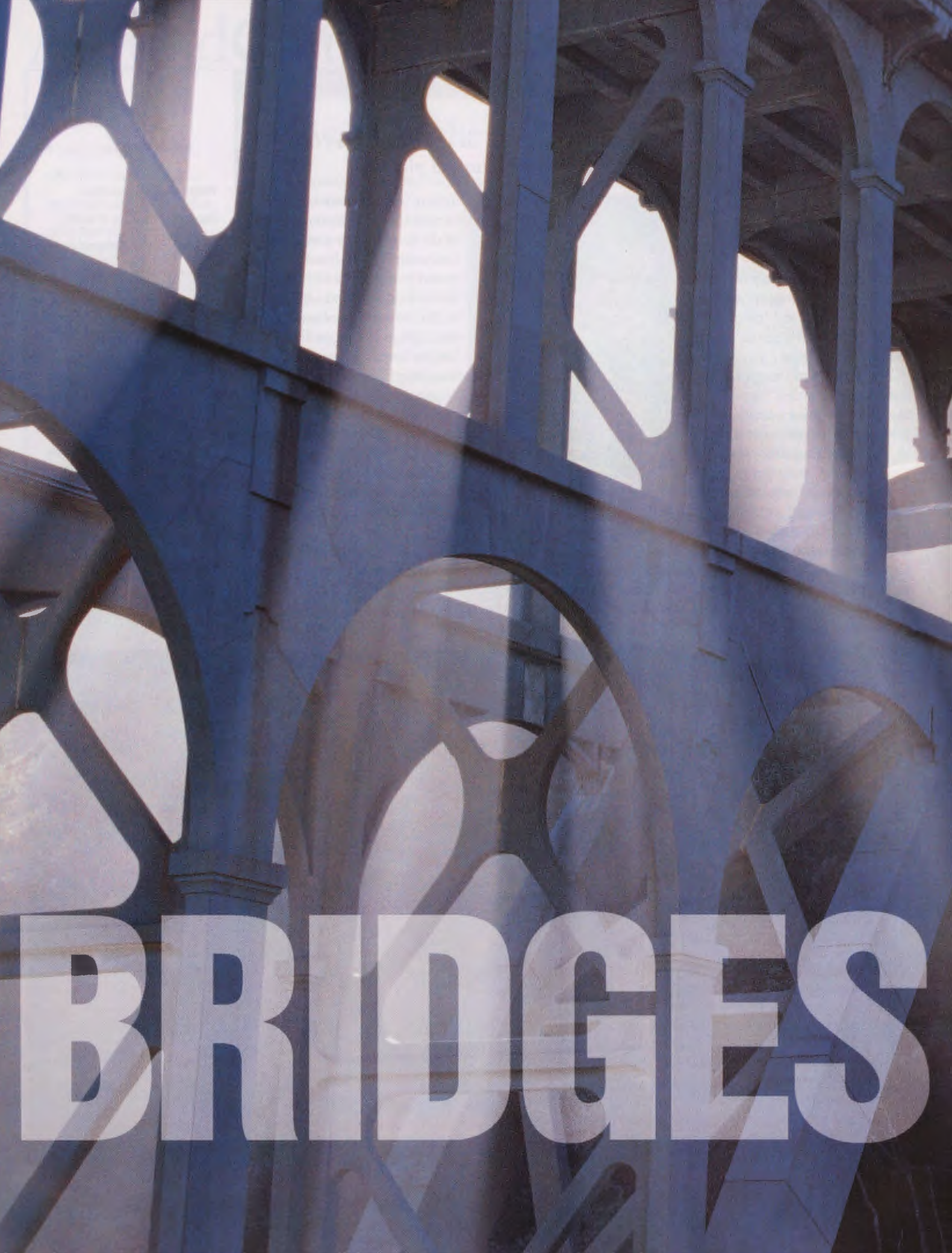
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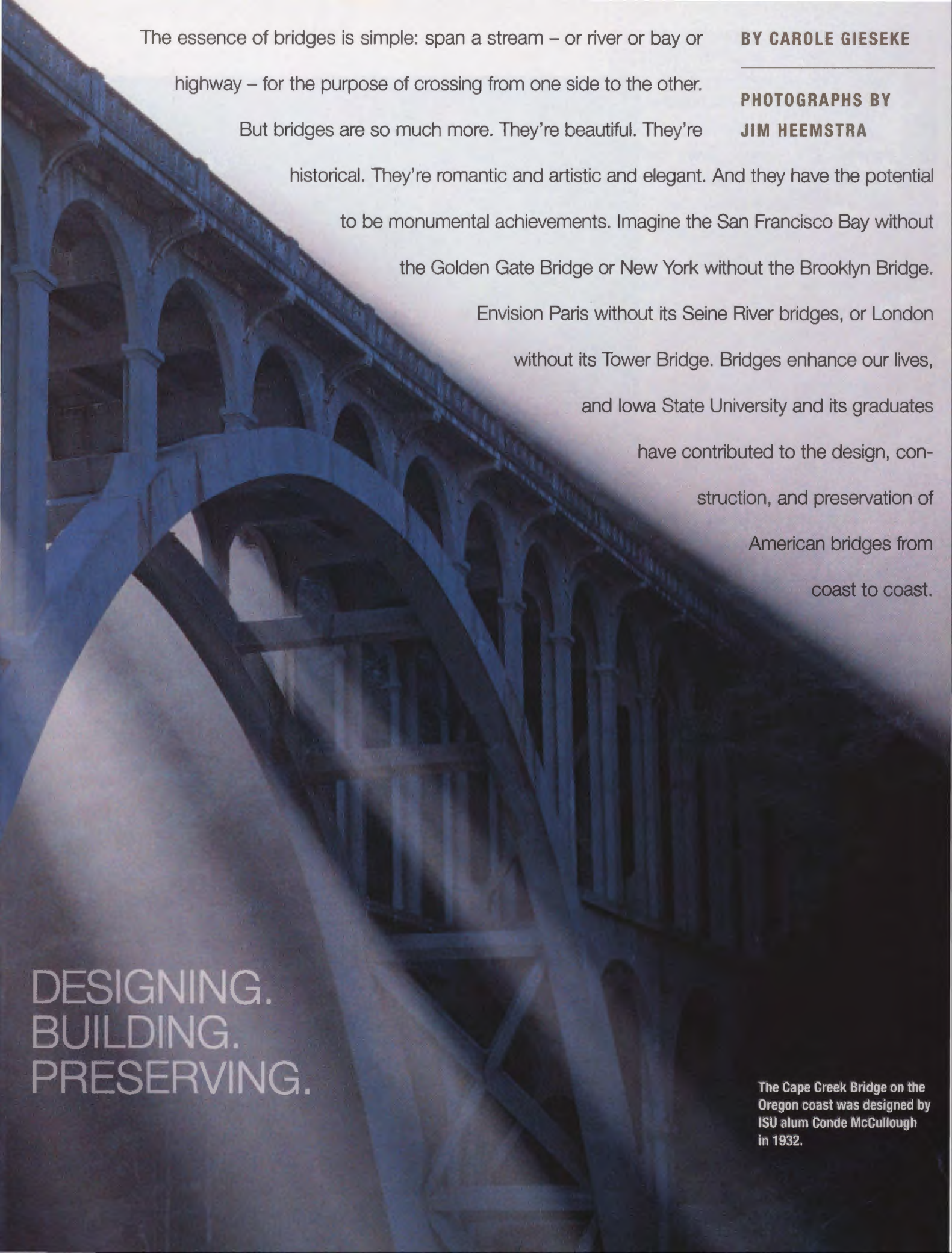


# DESIGNING. BUILDING. PRESERVING.

BY CAROLE GIESEKE

PHOTOGRAPHS BY JIM HEEMSTRA

The essence of bridges is simple: span a stream – or river or bay or highway – for the purpose of crossing from one side to the other. But bridges are so much more. They're beautiful. They're historical. They're romantic and artistic and elegant. And they have the potential to be monumental achievements. Imagine the San Francisco Bay without the Golden Gate Bridge or New York without the Brooklyn Bridge. Envision Paris without its Seine River bridges, or London without its Tower Bridge. Bridges enhance our lives, and Iowa State University and its graduates have contributed to the design, construction, and preservation of American bridges from coast to coast.

The Cape Creek Bridge on the Oregon coast was designed by ISU alum Conde McCullough in 1932.

# Madison County's covered bridges

# PRESERVING THE ROMANCE

Bob Britson has a particular fondness for the Roseman Bridge, one of four covered bridges his firm helped restore.

There's something undeniably romantic about covered bridges. If there were any doubt, Robert James Waller's best-selling novel *The Bridges of Madison County* put an end to it. The simple wooden bridges take you back to a time long ago: a time before cars and superhighways and bridges made of pre-cast concrete.

Madison County, Iowa, once had 19 covered bridges, designed and built in the late 1880s by wood craftsmen who were experienced in building barns with heavy timbers. Not much is known about these craftsmen, but it's likely that they built these bridges without the formal guidance of a blueprint. Perhaps they heard about a covered bridge in a neighboring state and went to look at it; perhaps they talked to the builder of that bridge and took some notes to bring back to their community; perhaps a group of men got together and built the new bridge the same way they'd raise a barn.

These craftsmen weren't building bridges for romance, or history, or beauty. These bridges were functional. Farmers needed to cross Iowa's many streams, and wood was the most abundant, cost-efficient material.

But wood also deteriorates. Over the years, the bridges started wearing out. Many were destroyed and replaced with more durable bridges made from steel or concrete. The ones that survived were dilapidated and rotting, some leaning dangerously to one side.

In the late 1980s, an historical preservation group and the Madison County engineer made a commitment to restore the six

## Burning memories

**The Cedar Covered Bridge,** one of the four bridges restored by Shuck-Britson, was destroyed by fire on Sept. 3, 2002. Author Robert Waller is offering a $10,000 reward for information leading to the arrest and conviction of the person(s) who burned the bridge. Built in 1883, the Cedar Bridge was featured in "The Bridges of Madison County" film and is pictured on the cover of Waller's novel. In September 2003, the Hogback Bridge, another of Bob Britson's restoration projects, was slightly damaged by another arson fire. Madison County is offering a $20,000 reward for information leading to the arrest and conviction of the arsonist involved in the damage of both bridges. The Cedar Bridge will be rebuilt.

remaining covered bridges. Four of those bridges – Roseman, Holliwell, Cedar, and Hogback – were restored by Shuck-Britson Consulting Engineers of Des Moines. Robert Britson, the company's president, graduated from Iowa State in 1973 with a master's degree in structural engineering. His firm is experienced in bridge design, repair, and historic restoration. His goal was to restore the bridges to their original condition.

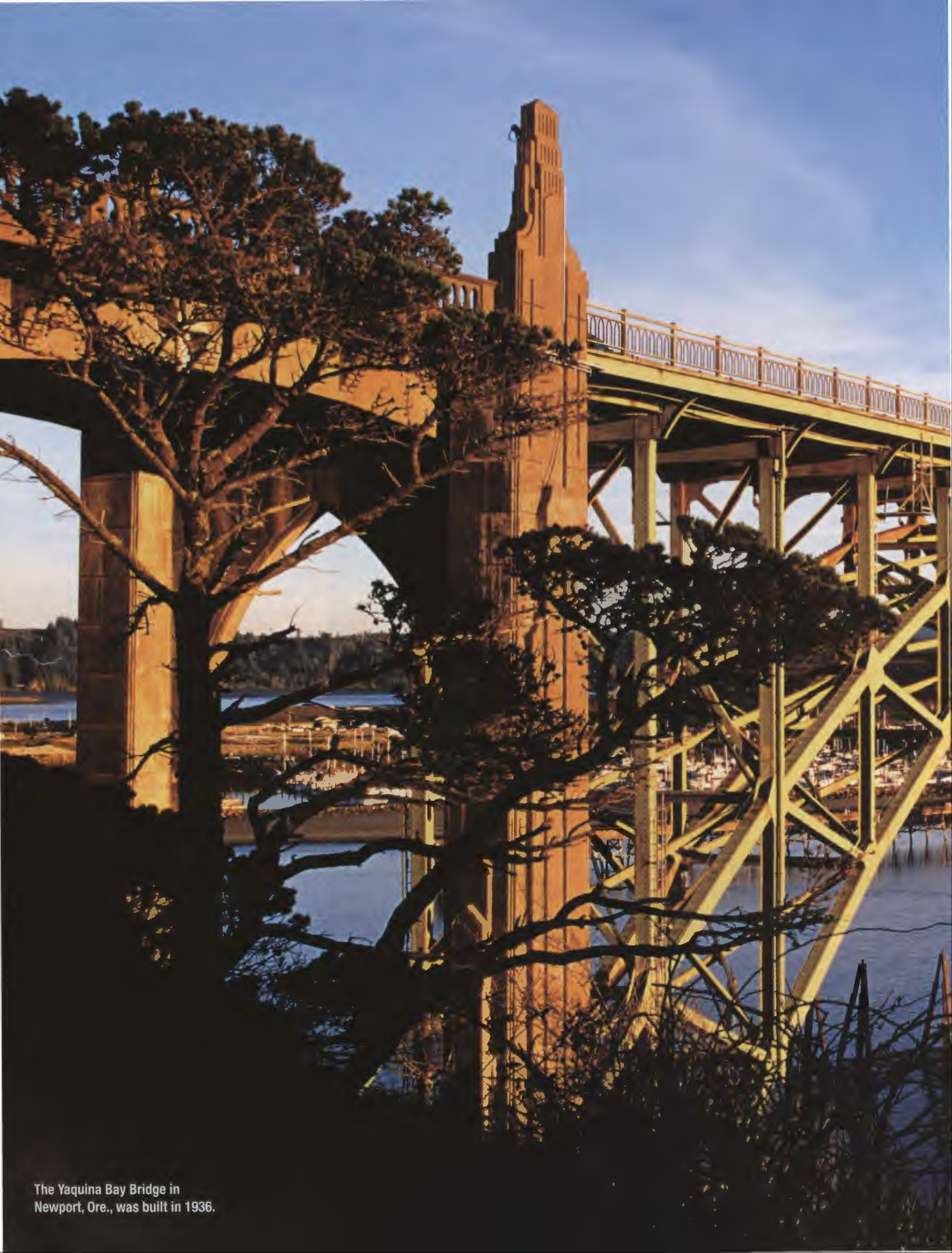
"The first thing we did was collect information from the archives – newspaper articles with photographs, county historical society documents," said Britson. "We wanted to see what the bridges looked like originally, because some of them had customizing done to them later. Some of the siding had on four or five suits of clothes."

After assessing the condition of the bridges, Britson and his staff made a list of the bridges' defects and damage and devised a remedy to get them back into healthy condition. Working with timber is becoming a lost art, he said, and it was important to determine what species of wood was used in the original construction in order to keep the bridges historically accurate.

The restoration process was completed in the 1990s, replacing roofs and siding, repairing deck planks and trusses, adding braces, and inserting steel into the bridges' wooden framework. The results were so remarkable that when a motion picture company came to Madison County to shoot the film based on Waller's book, the Roseman Bridge had to be scruffed up to meet the director's expectations of what a historic wooden bridge should look like.

Cost to repair the bridges (all six were eventually restored) ranged from $31,000 to $225,000 per bridge. They've been a "huge economic draw" for the county according to Brenda Hollingsworth ('71 interior design), program director for the Madison County Chamber & Development Group. In 2001, the county saw $6.5 million in tourism and tourism-related revenue.

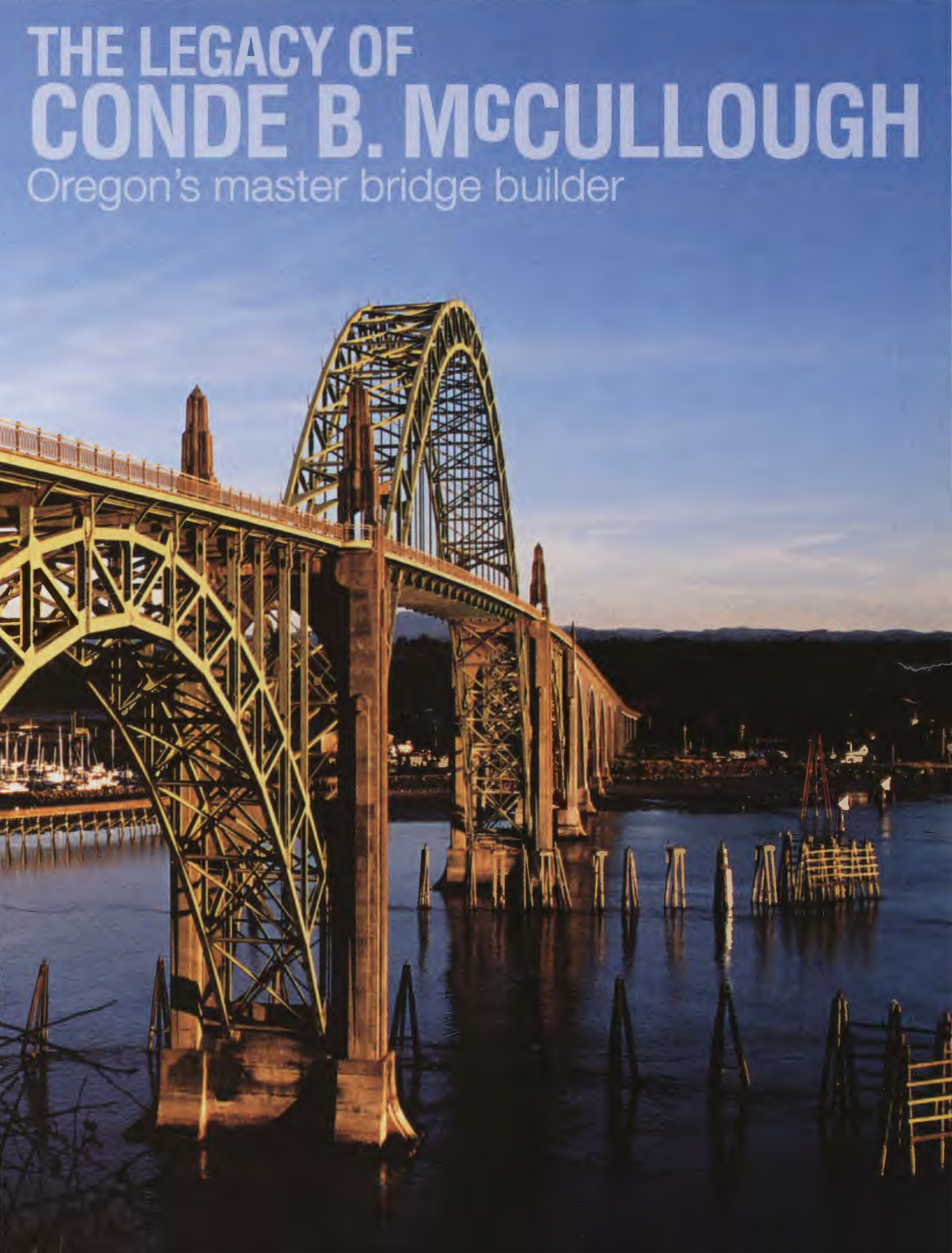
But Hollingsworth said people in the community don't think about the bridges in economic terms. "The people in this area have a real appreciation for preserving history," she said. "The bridges are representative of the spirit and mindset of the people of Madison County. They've been a centerpiece for family gatherings, marriages, and picnics. We can't imagine living without them." □

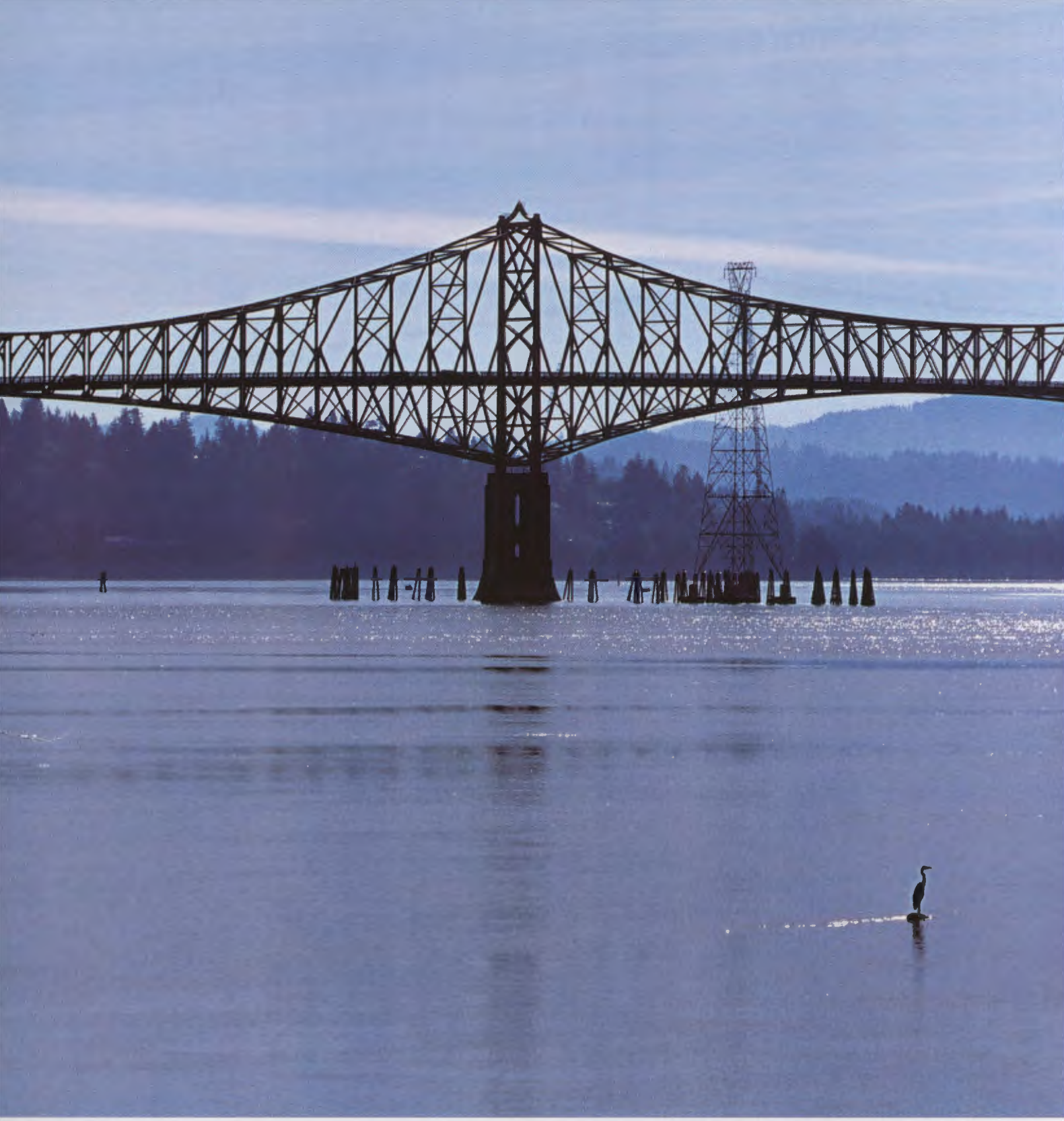


The Yaquina Bay Bridge in Newport, Ore., was built in 1936.

# THE LEGACY OF CONDE B. McCULLOUGH

## Oregon's master bridge builder

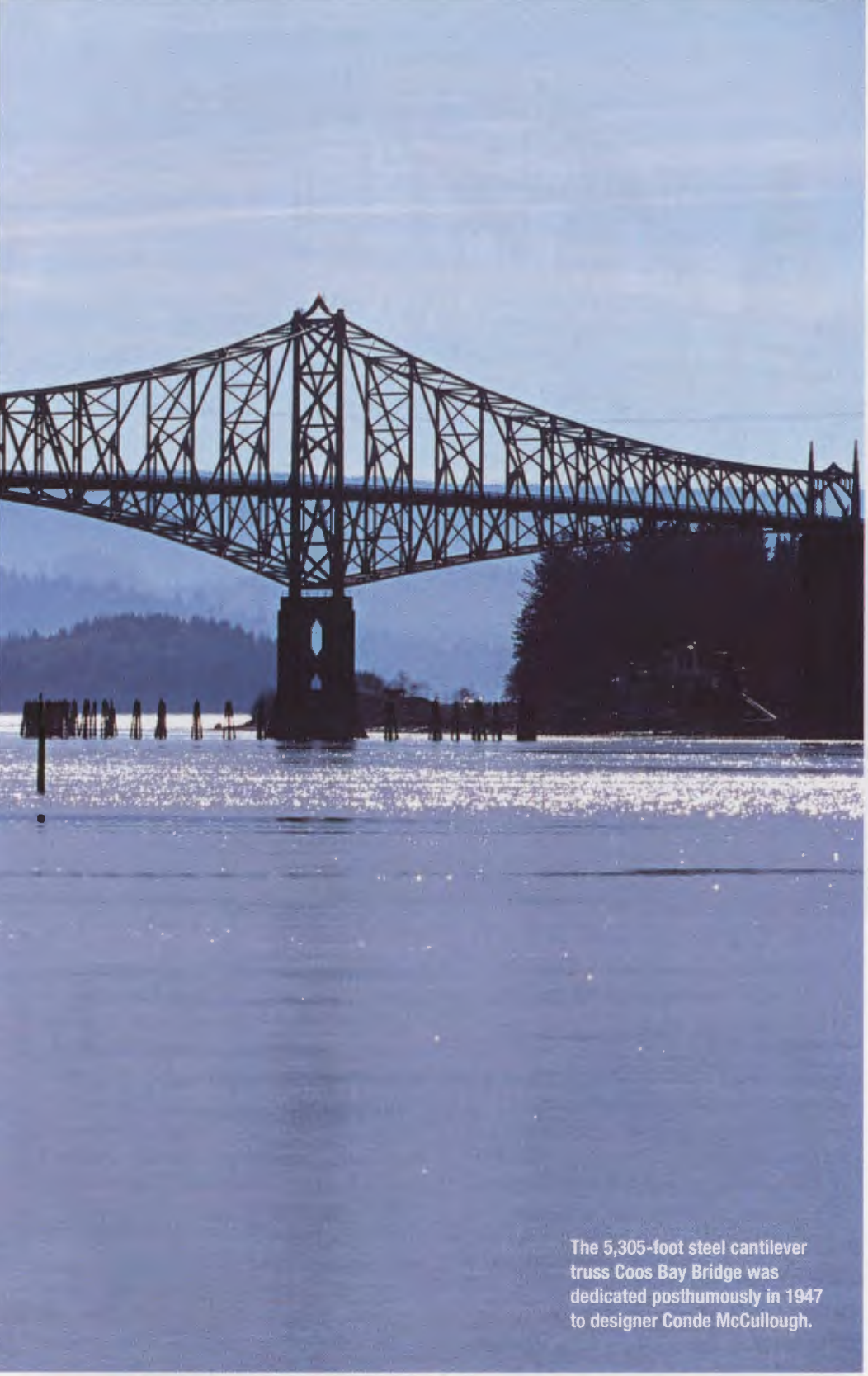




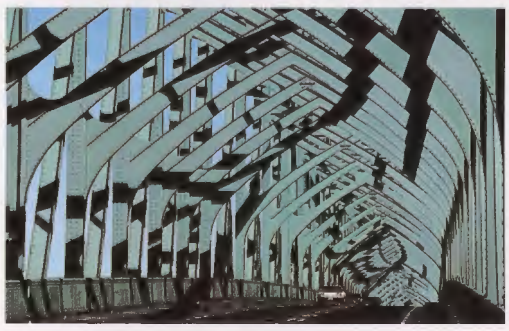
*From the dawn of civilization up to the present, engineers have been busily engaged in ruining this fair earth and taking all the romance out of it."*

Those are strong words from a man who spent his career as an engineer. But Conde B. McCullough was no ordinary engineer. The 1910 Iowa State civil engineering graduate – who today is posthumously considered one of the most important bridge designers in the past 125 years – believed that bridges were more than merely the means to travel from one side of a stream to the other. His bridges – with their Art Deco-inspired pylons and obelisks, Gothic piers, towering spires, and elegant arches – were designed to enhance, not detract from, their natural settings.

McCullough's bridge designs are legendary in the state of Oregon. The bridges along Oregon's historic coastal Highway 101 transformed Oregon into a "traveler's paradise" according to McCullough biographer Robert W. Hadlow, senior historian for the Oregon Department of Transportation. In his book, *Elegant Arches, Soaring Spans,* Hadlow describes McCullough's large-span structures as representing the pinnacle of bridge design



The 5,305-foot steel cantilever truss Coos Bay Bridge was dedicated posthumously in 1947 to designer Conde McCullough.



for their use of engineering advances and their architectural style to fit the natural setting. Critics, Hadlow says, saw them as masterpieces in design.

Iowa State can take considerable credit for McCullough's success. Raised, educated, and married in Iowa, McCullough studied at Iowa State under Anson Marston, dean of the School of Engineering. Marston, according to Hadlow, was one

Conde McCullough

of the foremost American engineering educators of his time because of his commitment to a curriculum that prepared students for employment through practical education – the land-grant philosophy.

"Technical ability combined with a well-rounded education, Marston believed, provided the foundation for creating sensible highway bridge designs for local, state, and national interests," writes Hadlow. "McCullough's training under Marston... prepared him to become one of the nation's most accomplished bridge designers."

In an interview at his office in Portland, Hadlow reinforced the importance of McCullough's Iowa State education. "Here's someone who really did well as an engineer, and much of it had to do with the years he went to school at Iowa State, those years when he was a student in a very progressive engineering program and had a mentor who wanted him to think."

According to the September 1916 *Barometer* of the Oregon Agricultural College, Marston considered McCullough "one of the brightest men that ever graduated from the [ISC] civil engineering department."

After McCullough graduated from Iowa State in 1910, he went to work for Marsh Engineering Company in Des Moines. In 1911, he left Marsh to work for the Iowa State Highway Commission as its bridge engineer and assistant highway engineer. There, he created standardized plans for

Art Deco towers make the Siuslaw River Bridge in Florence, Ore., one of McCullough's most dramatic bridges.

Arches beneath the Yaquina Bay Bridge create a cathedral-like pattern.

Iowa's bridges, improved the quality of state's road system, and honed his skills as a bridge designer.

"McCullough fell in with good people," Hadlow said. "Thomas MacDonald, another Iowa State graduate, was the state highway engineer at the time, and McCullough worked for him for enough years that he gained the experience he needed to go on his own."

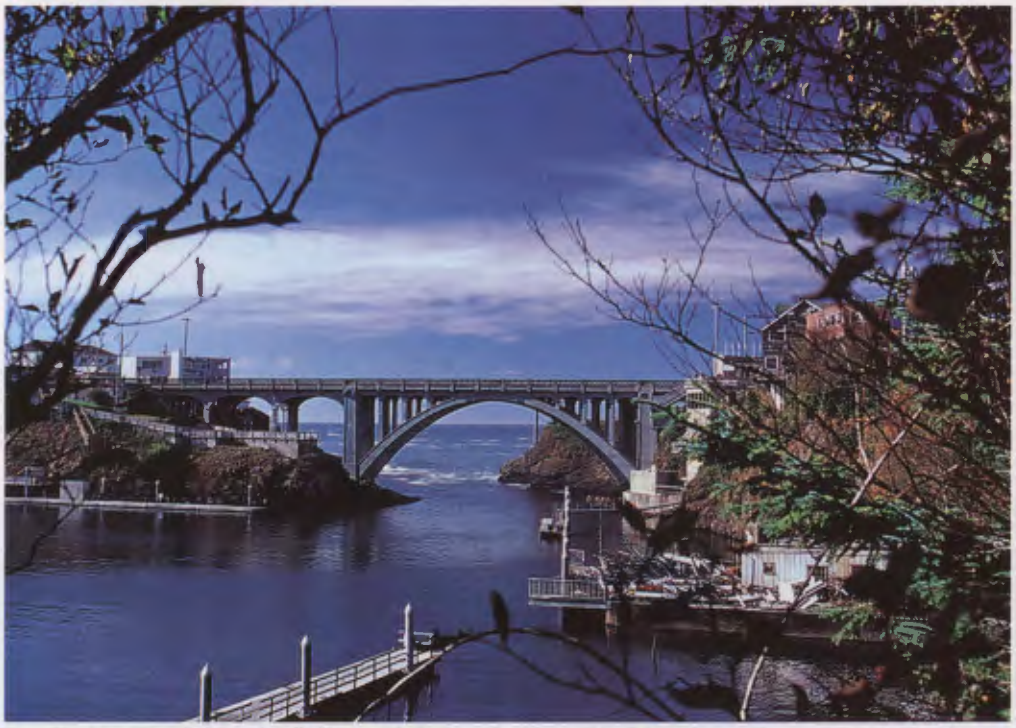
McCullough left the Iowa State Highway Commission in 1916 and moved with his wife, Marie Roddan McCullough, and son, John, to teach structural engineering at Oregon Agricultural College (now Oregon State University), the state's land-grant school. He was hired in 1919 by the Oregon State Highway Commission as the state's bridge engineer. It was there McCullough ascended to national and international prominence as a bridge designer.

In the late teens, the federal government initiated the Federal-Aid Road Act, and states were encouraged to create highway departments in order to receive federal dollars. As luck would have it, McCullough's old Iowa State friend Thomas MacDonald became President Woodrow Wilson's director of the U.S. Bureau of Public Roads – which administered the Federal-Aid Road Act – the same year McCullough became Oregon's state bridge engineer. Within a span of six years McCullough had designed nearly 600 bridges at a cost of $6.4 million.

Although other U.S. states formed highway commissions, Oregon's road and bridge program was extraordinarily successful under McCullough.

"McCullough may have had an advantage because of his link with MacDonald," said Hadlow. "Who knows? All you can say is he was a known quantity. They knew each other's qualifications, knew each other's integrity.

"There were very few state highway bridge engineers in the country in the twenties and thirties, during the heyday of highway building, who commanded a program such as this. I think it was possible that it could have happened in any state, but it didn't."



Top: Siuslaw River Bridge detail. Above: McCullough's Depoe Bay Bridge spans the world's smallest bay.

Tenmile Creek's tied-arch bridge is identical to bridges at Wilson River and Big Creek, all on Oregon's Highway 101.

Of McCullough's 600 bridges, the coastal bridges draw the most attention. Driving north from California, travelers first encounter the Rogue River Bridge, also known as the Isaac Patterson Bridge, in Gold Beach. Built in 1931, the Rogue River Bridge was named an Historic National Civil Engineering Landmark in 1982. Further north are the massive 5,305-foot Coos Bay Bridge (named the McCullough Memorial Bridge in 1947, one year after McCullough's death), the Umpqua River Bridge in Reedsport, the Art Deco-inspired Siuslaw River Bridge in Florence, the Cape Creek Bridge near Heceta Head, and the spectacular Yaquina Bay Bridge in Newport.

Recently featured in the *Oregon Stater* and *VIA*, the AAA magazine for California and Oregon, McCullough's bridges are heaped with praise. George Edmondson Jr. of the *Oregon Stater* calls the bridges "coastal jewels" and says McCullough's Highway 101 bridges "represent what may be the finest continuous set of concrete-reinforced, steel-arched bridges in the United States."

What makes McCullough's bridges so unique? The details: massive pylons, Empire State Building-inspired spires, Gothic arches, Art Deco detailing, and grand, sweeping staircases.

"Other designers don't always get it all together," Hadlow said. "The columns will look heavy, or they'll look like there's something missing. It's like getting dressed and forgetting to put on a belt, or having mismatched shoes. Conde McCullough had it all together. And what's really significant about his bridges is not just that they look nice. It's the engineering involved."

Oregon's harsh climate – rain, wind, and sea salt – has taken its toll on the coastal bridges. Most of them are now around 70 years old – a long life for a bridge under any condition – and have begun to show affects of the hostile environment. One major bridge, the 1936 Alsea Bay Bridge in Waldport, was so deteriorated that the Oregon Department of Transportation was forced to remove McCullough's original bridge and replace it with a new structure in 1991. An interpretive center, located at the south end of the New Alsea Bay Bridge, documents the old bridge and features the life and work of Conde McCullough.

To prevent the other bridges from befalling the same fate as the Alsea Bay Bridge, the Oregon DOT is systematically preserving each of the bridges by using cathotic protection to slow deterioration in the steel and concrete.

Bob Hadlow is currently working on a National Register nomination for 11 of McCullough's coastal bridges. Many of his structures are featured in *Historic Highway Bridges of Oregon*, produced in 1985 by the Oregon Historical Society. And in 1993, Eric N. DeLony published *Landmark American Bridges*, a book featuring the best of American bridge construction. DeLony characterizes McCullough's bridges as "some of the best and most innovative concrete and steel bridge designs in the world."

In 1998, Oregon State University's College of Engineering inducted McCullough into its Engineering Hall of Fame, and in 1999, the *Engineering News-Record (ENR)* published a list of the 10 top bridge engineers since 1874, among them C.B. McCullough.

McCullough's legacy of bridges on the Oregon coast has proven that bridges can be beautiful, elegant … and even romantic. □

**On the web**

www.odot.state.or.us/eshtm/coast.htm
www.odot.state.or.us/eshtm/coastbr.pdf

# BRIDGING THE IOWA RIVER GREENBELT

## Unique construction respects fragile environment

When Mike LaViolette was born in 1966, the Iowa Department of Transportation was already beginning to conceive a plan for a bridge that would cross the Iowa River on U.S. 20. Thirty-seven years later, the bridge was completed – and LaViolette ('90, MS '94 civil engineering) was its resident engineer.

The long journey to construct the $20.5 million Iowa River Bridge was complicated by the environment through which the highway and bridge would pass. The Iowa River Greenbelt is, according to the DOT, a rare, remaining fragment of old-growth woodland; a haven for bald eagles and endangered freshwater mussels; and an area of historic, ecological, and archaeological significance.

So building this bridge was a very big deal. Its design was unique and its construction complex. The process was scrutinized by environmentalists and engineers, not just in the state of Iowa but throughout the country. It was a landmark project.

LaViolette was working at HNTB Corporation in Kansas City as a design and construction engineer in 2000 when the Iowa DOT started construction on the

**Many key players on the design and construction of the U.S. 20 bridge were Iowa Staters. Pictured are, front: Ahmad Abu-Hawash, Mike LaViolette. Standing: Mike Turk, Scott Dockstader, Norm McDonald, Ron Meyer, Doug McDonald, Wayne Sunday, Bob Younie, and Dan Timmons.**

## Project leadership

*Iowa Staters were involved in every phase of the design, construction, and monitoring of the U.S. 20 bridge project.*

### Iowa Department of Transportation

**Ahmad Abu-Hawash**
Chief Structural Engineer, Office of Bridges and Structures
*MS Civil Engineering, 1993*

**Scott Dockstader**
Civil Engineer
*BS Civil Engineering, 1987*

**Sandra Larson**
Director, Research and Technology Bureau and Former State Bridge Engineer
*BS Civil Engineering, 1988*

**Doug McDonald**
Resident Construction Engineer
*BS Civil Engineering, 1980*

**Norm McDonald**
Director of Offices of Bridges and Structures
*BS Construction Engineering, 1980*

**Ron Meyer**
Consultant Coordinator, Office of Bridges and Structures
*BS Agricultural Engineering, 1985; MS Civil and Construction Engineering, 1988*

**Wayne Sunday**
Construction Field Engineer
*BS Civil Engineering, 1976*

**Bob Younie**
District 1 Construction Engineer
*BS Civil Engineering, 1971*

### HNTB Corporation

**Mike LaViolette**
Resident Engineer
*BS Civil Engineering, 1990; MS Civil and Construction Engineering,1994*

**Maury Miller**
Retired Vice President
*BS Civil Engineering, 1958*

### Jensen Construction

**Dan Timmons**
Vice President
*BS Construction engineering, 1981*

**Mike Turk**
Product Engineer
*BS Construction Engineering, 1985*

### ISU Bridge Engineering Center

**Brent Phares**
Associate Manager
*BS Civil Engineering, 1994; MS Civil and Construction Engineering, 1996; Ph.D. Civil and Construction Engineering, 1998*

**Doug Wood**
Senior Engineer
*BA Architecture, 1978; MS Civil and Construction Engineering,1990*

Iowa River Bridge. HNTB, a firm known for its work in transportation and bridges, had been working on the bridge design since 1996.

"The DOT understood how complicated it was going to be to build the bridge, so they wanted to have someone from HNTB on site during construction to make sure the plans were followed, so that's where I came in," LaViolette said. "One of the things they made sure I understood when I moved up here was we couldn't screw this up. It had to go right. The DOT has other environmentally sensitive projects in the pipeline, but this was one of the first ones that was really scrutinized by everyone, and I do mean everyone. There was a lot of risk involved."

To minimize the impact of the bridge's construction on the greenbelt, a unique launching technique was used in its construction. The idea of launching a bridge – building the bridge on one side of the river and literally rolling it across from one pier to the next – is not new. It's been done in Europe since the mid-'60s, but it's the first time a steel bridge of this magnitude had been launched in the United States. The technique allowed engineers to limit intrusion into the river valley and thus preserve native plants and wildlife. Bridge placement, design, and construction methods all fit the DOT's desire to "tread as gently as possible" through the greenbelt.

Construction of the Iowa River Bridge took less than three years and was completed on time, a fact that surprised LaViolette. The first winter was long, cold, and snowy, he said, initially slowing down the work. And there had been provisions for a construction shutdown between November and April to allow bald eagles to roost undisturbed. As it turned out, he said, the eagles weren't disturbed, so construction was allowed to continue.

Interest was high as the bridge was being constructed. Besides the engineering community, the local community – Hardin County farmers – was watching, too.

"This was the biggest tourist attraction in central Iowa," LaViolette said. "Every Sunday afternoon, there would be carloads of people driving by to look. It was unbelievable. People had heard about this bridge for 35 years and they wanted to see it. I think on Sundays they would go to church, go out to eat, and go take a look at the bridge."

Sandra Larson, Iowa DOT Research and Technology Bureau director, understands the interest. The 1988 civil engineering graduate was the state bridge engineer from 1998 until 2000 and worked with HNTB on the bridge design. The project was her "baby" – one she describes as a great solution to a very sensitive environmental area.

"I was so proud of this project. Not only was it high profile and unique, we set world records with the type of bridge and the distance it spans from support to support during the launch," said Larson.

The bridge was completed in November 2002 but sat finished, waiting for the road to connect to it, until August 2003. Its grand opening was on Aug. 22. U.S. 20 is now a four-lane highway from the Mississippi River to Fort Dodge.

"This is a big accomplishment," LaViolette said. "It's a big step for the people who live in north central Iowa. Little towns along the highway are now going to have a chance to grow. There were already businesses springing up in anticipation of the highway being there."

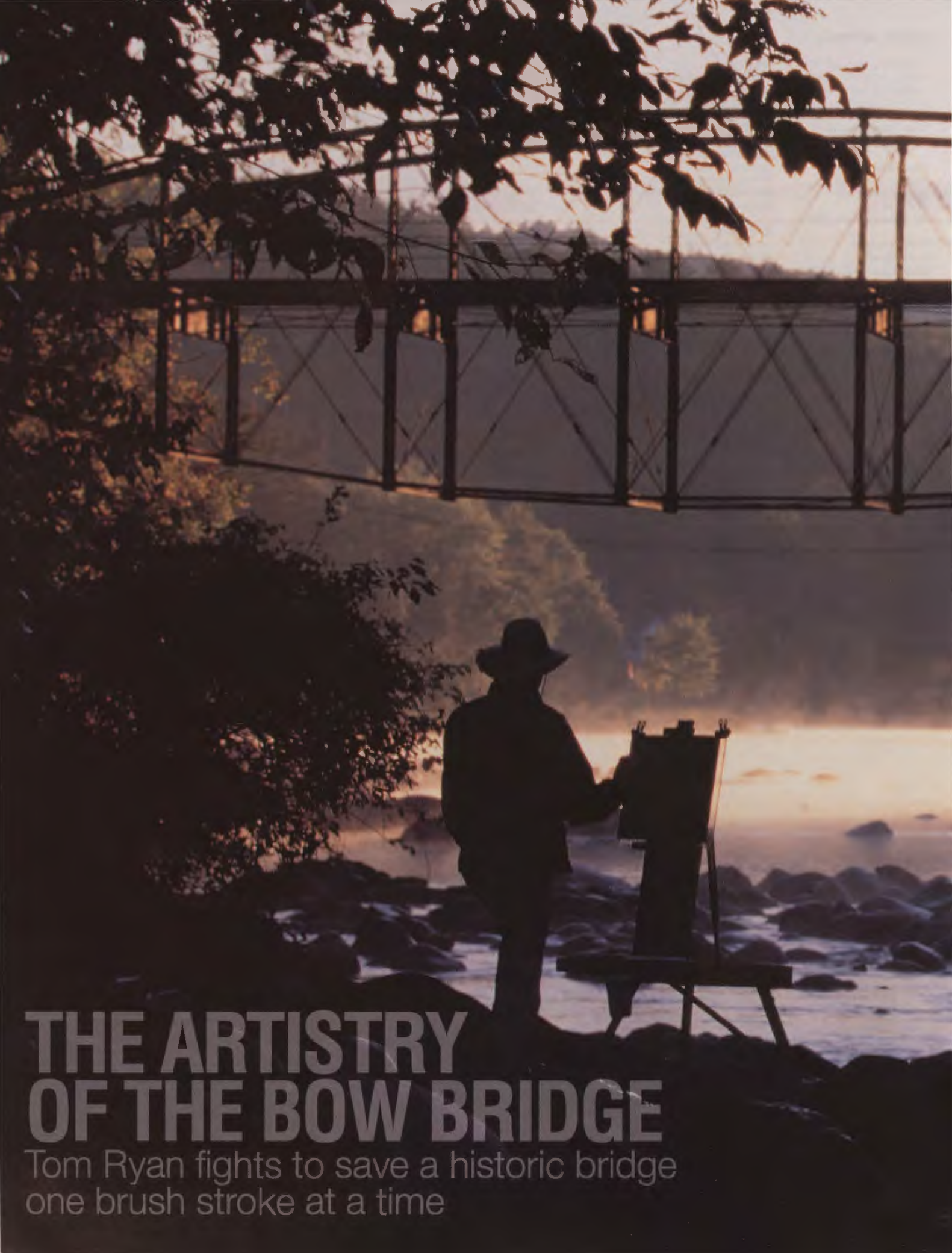
The Iowa River Bridge project has won both engineering and environmental awards and has been listed as one of the top 10 bridge projects in the United States in 2002 by a number of publications.

"The interesting thing about this bridge is that it took more than 30 years from the first environmental studies to starting the design, three years to design, nearly three years to build, and 20 seconds to drive from one end to the other," LaViolette said. "People who drive across this bridge just don't realize what a big project it was." □

## Recognition

The U.S. 20 bridge over the Iowa River, constructed near the town of Steamboat Rock, is the first launched steel I-girder highway bridge in the United States and one of the longest I-girder spans ever launched in the world. The bridge has received recognition from these engineering and environmental groups:

- American Council of Engineering Companies 2003 Engineering Excellence Award
- Consulting Engineers Council of Missouri Grand Award
- American Council of Engineering Companies of Iowa Grand Conceptor, large budget category
- FHWA Environmental Protection Award
- Structural Engineering Association of Kansas and Missouri, first place 2003 non-building category



# THE ARTISTRY OF THE BOW BRIDGE

Tom Ryan fights to save a historic bridge one brush stroke at a time

Sunrise on the Sacandaga River.

Tom Ryan's paintings of the historic Bow Bridge renewed interest in the historic preservation of the bridge.

*On a misty morning in early October, Tom Ryan sets up his artist's easel on the tangled shore of the Sacandaga River. He clamps a clean piece of watercolor paper to the wooden backing, and looks around him, assessing the colors of the morning. He carefully squeezes pigments onto a plastic palette, removes his brushes, fills a small plastic container with water, and begins.*

*Tom Ryan has painted this scene many times. He has canoed and kayaked with his family in the whitewater of this river, just a few miles from his boyhood home on the edge of the Adirondacks. He has carried his painting supplies down a drainage ditch, onto a railroad trestle, and across slippery river rock to document a unique and beautiful scene that can only be painted here, in Hadley, N.Y.*

The Sacandaga River flows into the Hudson River at Hadley, and its raging water physically divides the community of 1,800 people. In 1885, the Berlin Iron and Bridge Company of East Berlin, Conn., was hired to build a bridge over the Sacandaga, near the confluence of the rivers, to connect the town's two segments. But the result was more than a thoroughfare across the water. It was a bridge that, according to the National Park Service, is considered extraordinarily rare and significant in American bridge-building art.

Officially named the Old Corinth Road Bridge, the steel structure is known locally as simply the Bow Bridge. For years a part of the dramatic setting of the Sacandaga River, the Bow Bridge design is unique among metal truss bridges. Of the approximately 600 bridges designed and built by the Berlin Iron and Bridge Company, only three were built with the unusual curved "bow" above and below the deck. The Bow Bridge at Hadley is the only one that still remains today.

For many years, the Bow Bridge served its purpose: transporting people and goods across the Sacandaga River. Its wooden deck clattered from the sound of horses and buggies, and in later years, automobiles. More recently, the bridge provided a spectacular vantage point to watch whitewater kayaking, rafting, tubing, and canoeing on the river. But over the years, the bridge fell into disrepair. In 1977, the Bow Bridge was placed on the National Register of Historic Places, but in 1983 it was closed to all traffic, including pedestrian. For 20 years, the town of Hadley has been without its roadway across the river.

Tom Ryan grew up in Schuylerville, a small town in scenic upstate New York, not far from the Hadley Bow Bridge. He attended Rensselaer Polytechnic Institute in nearby Troy, N.Y., graduating with a bachelor's degree in building construction in 1963. He and his wife, Bobbi, then enrolled at Iowa State, graduating in 1965, Tom with a master's in architectural engineering and Bobbi with a B.S. in botany. The Ryans lived in Pammel Court and started a family in Ames before returning home to upstate New York.

Ryan pursued an engineering career for 32 years but always had an interest in art. Originally an oil painter, Ryan switched his medium to watercolor in the mid-'80s when his wife gave him a watercolor set for his birthday. He retired from engineering in 1997 to pursue his art and to teach watercolor painting. Ryan's paintings depict the natural beauty of the Adirondacks, and his work is displayed in galleries throughout the region.

The Bow Bridge that Ryan first glimpsed as he passed beneath it in a canoe in the 1970s began to draw his interest again – this time as a painter, engineer, and historic preservationist. As an artist, Ryan captured on his canvas the visual impact of the bridge in the scenic gorge of the Sacandaga River. As an engineer, he had a technical interest in the art and design of the structure. And as a historic preservationist, Ryan believed it was important to preserve this significant treasure for future generations.

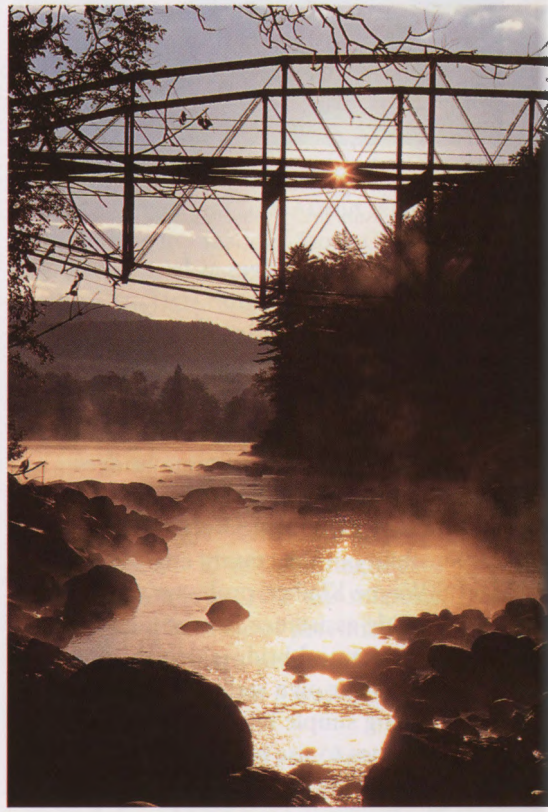
Not everyone in Hadley, N.Y., agreed with Ryan's viewpoint. Although his paintings depicted the Bow Bridge as a delicate, airy work of art, Ryan said most of the townspeople viewed it as a "decrepit piece of rusted steel," and they wanted it torn down and replaced with a "real" bridge. After being closed to traffic for nearly 20 years, the bridge was slated for demolition in 2000.

That year, Ryan applied for and received an artist grant from the Saratoga County Arts Council from which he produced a 96-page book on the history and significance of the Bow Bridge. The book contains more than a dozen reproductions of his watercolor paintings and hand-tinted photographs as well as historic photos and illustrations, current photos, drawings, paintings by other regional artists, and watercolor paintings by local schoolchildren.

Since the book was published, several public hearings have been held on the future of the Bow Bridge. The debate: practicality and function vs. historical significance and aesthetic beauty. The result: a compromise.

"The river divides the town of Hadley into two parts, and that bridge is the link," Ryan said. "The residents really want a bridge they can drive across. The community is very small, and there aren't sufficient funds to rehabilitate the Bow Bridge as a pedestrian bridge and build a new bridge as well, which would be the ideal solution. So the compromise is that they will restore the Bow Bridge to traffic, which will solve the local needs of the town and hopefully solve the issue of saving this wonderful, historic bridge."

Admittedly, Ryan isn't completely happy



with the compromise. Reconstructing the bridge to make it accessible to logging trucks, school buses, and fire trucks will render the delicate bridge "clunky" and heavy, with steel reinforcements and a railing system.

"My real wish is that they would close the bridge to traffic permanently and use it only for pedestrians and bicycles," Ryan said. But he's pleased that the bridge will continue to exist in some form, and he thinks his book had an impact on that decision.

"The book certainly raised public awareness in this bridge, and it had a positive impact. I think that the book certainly helped preserve the bridge from that point of view." □

## BUILDING BETTER BRIDGES

**Last year, faculty and students in Iowa** State's Department of Civil, Construction, and Environmental Engineering (CCEE) and the ISU Bridge Engineering Center constructed a model bridge upside down to see how it would react to the stress of a simulated earthquake.

PHOTO COURTESY COLLEGE OF ENGINEERING

*Elizabeth Kash and a team of civil engineering students install instrumentation under a railroad flat car to measure bridge deflection and strain.*

They've tested bridges as far away as New York and Washington state.

But the majority of Iowa State's bridge research stays right here at home – in Iowa, where there are more than 25,000 bridges statewide.

"Only four states have more bridges than Iowa. The majority – about 85 percent – of those bridges are the responsibility of the county engineers," said F. Wayne Klaiber, professor of CCEE. "We provide assistance in creating innovative, economical bridges that they can build with their own staffs."

Providing simple bridge designs for Iowa counties to use on low-volume roads is just one of Iowa State's areas of expertise. The Department of CCEE and the Bridge Engineering Center conduct research on bridge technologies that will help design, build, and maintain long-lasting bridges.

The Center, which was created in 1988 and became a part of the Center for Transportation Research and Education in 2000, is involved in the structural health monitoring of bridges, strengthening and field testing, structural dynamic behavior, forensic engineering, failure investigation, and nondestructive evaluation. Graduate student researchers, undergraduate assistants, and CCEE faculty work seamlessly on research projects conducted by the department and the Center.

Current research projects include constructing bridges from decommisioned railroad flat cars (cutting construction costs in some cases from $250,000 to $55,000) and saving older bridges from demolition by applying a strengthening system comprised of carbon fiber reinforced polymers.

Terry Wipf, professor of CCEE, directs the Bridge Engineering Center. He is assisted by Brent Phares ('94, MS '96, Ph.D. '98), associate manager; Doug Wood ('78, MS '90), senior engineering specialist; and Klaiber, a faculty affiliate. Other CCEE faculty involved in bridge research are Lowell Greimann ('64), department chair; Sri Sritharan; Robert Abendroth; and Fouad Fanous (PhD '82). □

**On the web**

www.ctre.iastate.edu/bec
www.cce.iastate.edu/research

## STIFF COMPETITION

**Quick! Build a 150-lb., 20-inch-high,** 25-foot-long bridge that can hold a 2,500-pound load. Ready? Build!

That's what the ISU student Steel Bridge Team does each year at regional competition.

"You have to build a bridge that can be put together, torn apart, and withstand a load," said Julie Maher, a senior civil engineering major from Imogene, Iowa, who, along with Chris Bauer, a junior civil engineering major from Washington, Iowa, is co-chair of this year's team. The 70-member student team, part of the American Society of Civil Engineers ISU Student Chapter, is judged on the time it takes to construct the bridge during competition, the aesthetics of the bridge, the structure's load-bearing capacity, and the amount of deflection (sagging) it has under a load.

The ISU team has been successful in regional and national competition, but if team members are tempted to build the same winning bridge year after year, the judges nix that idea right away.

"They have a new 30-page rule book every year," Maher said. □

PHOTO COURTESY STEEL BRIDGE TEAM

*The ISU Steel Bridge Team advanced to national competition in 2003.*

## WALK THIS WAY

**Drivers heading south into downtown** Des Moines are being greeted by a spiffy new bridge over the interstate near the Botanical Center.

Bright blue and shaped like a basket handle, the pedestrian bridge is the first of three arched bridges to be constructed as part of the $426 million I-235 construction project. The other two will be constructed in 2004 and 2005.

The steel arch bridge may have been a surprise to some motorists who drove on the highway on a Friday night last July – when there was no bridge. By Monday, the bridge's arch was complete, taking less than 15 hours to lift into place.

PHOTO COURTESY IOWA DOT

*Architect's rendering of the I-235 pedestrian bridge near the Des Moines Botanical Center.*

The three pedestrian bridges will be unique to Iowa, although bridges of this style have been constructed in other states.

Iowa Staters Richard Schoene ('76), Marty Jorgensen ('95), and Robert Cramer ('90) of Cramer and Associates; Kevin Merryman ('95), Bob Younie ('71), Marty Sankey ('82), Norm McDonald ('80), Ahmad Abu-Hawash ('93), and Ron Meyer ('85, '88) of the Iowa Department of Transportation; and Mike LaViolette ('90, '94) of HNTB are all involved in the project. Cost to construct the 262-foot bridge is estimated at slightly more than $2 million. □

## BRIDGE MIX

Iowa Staters can be found in all phases of bridge design and construction

**Iowa State's academic programs have** produced hundreds of outstanding alumni who have contributed to the design, construction, and preservation of bridges.

There's Henry Gee (MS '51 civil engineering), former senior bridge designer for the Iowa Department of Transportation. Maury Miller ('58 civil engineering), retired vice president for HNTB Companies. Sandra Larson ('88 civil engineering), Iowa DOT's state bridge engineer from 1998 to 2000. Henry Brunnier (1904 civil engineering), one of five engineers who oversaw the design and construction of the $75 million San Francisco-Oakland Bay Bridge. Frank Russo (PhD '00 civil and construction engineering), structural project engineer for the URS Corporation in Philadelphia. Bret Farmer ('91 civil engineering, MS '92), engineer with TKDA in St. Paul.

The list goes on and on, but here are two grads we found exceptionally interesting:

### Ben Biller, bridge engineer

Anyone who was around Kansas City, Mo., in the early 1990s remembers when Bartle Hall Convention Center expanded over the interstate in downtown. Most people thought the architects and engineers were nuts.

PHOTO COURTESY HNTB

*ISU alum Ben Biller designed the Bartle Hall Convention Center's cable-stayed roof.*

"The convention center was built in 1976, and the city needed to expand it if it was going to be nationally competitive for conventions," said Ben Biller ('81, MS '82 civil engineering). "There was no available land around the existing facility, so we expanded it over the adjacent freeway."

And so, for all intents and purposes, the convention center became a bridge: a big bridge that was also a building, with a cable-supported roof with four concrete pylons, and a floor system supported by concrete piers set in the medians of the freeway. And don't forget the aluminum sculptures – those thingamajigs that caused even more controversy than the building itself. What were those things, anyway?

Turns out the "sky stations," designed by New York artist R.M. Fischer, have become dominant symbols of Kansas City, much like the Gateway Arch in St. Louis or the Space Needle in Seattle.

Besides designing Bartle's cable-stayed roof, Biller, a vice president for HNTB Companies, has worked on the New Alsea Bay Bridge in Waldport, Ore., the Hennepin Ave. suspension bridge in Minneapolis, bridges on the Ozark Mountain High Road, and rehabilitation of the historic Eads Bridge in St. Louis. Biller, who specializes in signature bridge design, is currently in charge of HNTB's Dallas operation.

### Al Jennings, concrete form works

When W.A. Jennings ('39 civil engineering) founded Economy Forms Corporation, today known as EFCO, in 1934, he couldn't have known that his company's concrete forms would someday be used in the forming of some of the most monumental structures in the world.

Many of those structures are bridges: The 30-mile-long Bang Na Expressway Bridge in Bangkok, the Northumberland Strait Bridge from Prince Edward Island to Canada, the Sungai Dinding Bridge in Malaysia, the H-3 Windward Viaduct in Oahu, Hawaii, the Clark Bridge across the Mississippi River in Alton, Ill. All of these bridges, and thousands more, have been created using EFCO's concrete forms.

"There have been so many bridges, it's hard to keep track," says current EFCO Corporation CEO and chairman Al Jennings ('56 engineering). His company, now 70 years old and headquartered in Des Moines, Iowa, is an international leader in concrete forming technology and continues the Iowa State legacy. The third generation of the Jennings family has graduated from Iowa State, and Bob Jennings ('81 industrial engineering) is now EFCO's president and chief operating officer. □

## FROSTY BRRRIDGE RESEARCH

DAVE GESEKE

*Tina Greenfield, Jose Alamo, and Brian Tentinger hit the streets early to check for bridge frost.*

**When you're snug in your bed this** winter, think about Tina Greenfield, a graduate student in geological and atmospheric sciences. Because when most of us are still asleep, Greenfield is already working on her research.

Greenfield and co-researchers Brian Tentinger and Jose Alamo take turns hitting the roads of Story County to see whether or not frost has developed on three Highway 30 bridges.

Frost develops when two criteria occur – the bridge temperature is below freezing and the dew point temperature is above the bridge temperature. The student researchers use an infrared thermometer to quickly assess the pavement's temperature.

The research project is funded by a grant from the Iowa Department of Transportation. The DOT was interested in the project because of potentially hazardous conditions presented to a motorist coming up on a frosty bridge at a high rate of speed.

"The DOT and others are very interested in helping us develop procedures by which we can accurately predict roadway driving conditions in Iowa," said Gene Takle, professor of geological and atmospheric sciences. "From these observations, we hopefully can develop computer models that will tell us when frost will occur and how much will accumulate. If we are able to develop a model that can predict 18 hours in advance whether frost will occur, then the DOT can have the trucks ready to go." □

# SAFE PASSAGES

## Bridge inspector Mike Todsen helps protect Iowa's river bridges

Mike Todsen inspects the Julien Dubuque Bridge, which spans the Mississippi River.

You see it up ahead: an arch of gleaming steel, half a mile of concrete, lanes filled to capacity, spanning a surging river.

It's Mike Todsen's job to make sure you make it safely to the other side.

Todsen ('94 civil engineering) is a special projects engineer for bridge maintenance and inspection for the Iowa Department of Transportation. For nine years, he has inspected the major Mississippi and Missouri River bridges that connect Iowa to its neighboring states.

Iowa is the lead state on the inspection of 12 river bridges, each of which must be thoroughly inspected every other year. Todsen says he generally finds only minor deterioration that needs to be repaired. Inspections guide the department as it plans bridge replacement over the next 20 years.

Inspection crews spend two to three weeks inspecting a river bridge for cracks and deterioration in the concrete and steel. Entire days are spent suspended beneath the bridge in a bucket barely big enough for two men and a flashlight. Traffic booms above; water roars below.

Todsen chuckles at the suggestion of danger. "One of the questions they asked at the job interview was, 'Do you have a fear of heights?' It doesn't bother me." □

# Calendar

**Here's a sampling of upcoming events on the ISU campus and of alumni events across the country and around the world. Events are subject to change. For more information, visit the Alumni Association Web site: www.isualum.org or call toll-free 1-877-ISU-ALUM.**

## JANUARY

**7** Alumni Travel: Expedition to Antarctica (through Jan. 20)
**7** Regents Universities Iowa Job Fair, Des Moines
**9** Alumni Travel: Yachtsman's Caribbean (through Jan. 16)
**12** Classes begin
**19** University holiday, offices closed
**21** ISU Community Visit and Alumni Reception, Perry, Iowa
**24** Life 490: Succeeding Beyond a Degree (student program)
**29** Moscow Festival Ballet, *Cinderella*, Stephens

## FEBRUARY

**1** **Deadline to nominate alumni for fall 2004 awards (see page 37)**
**3-4** Cirque Eloize, *Nomade*, Stephens
**7** Women in Athletics Celebration
**9** ISU Community Visit and Alumni Reception, Shenandoah, Iowa
**11** ISU Summer Job Fair
**17** Engineering Spring Job Expo
**18** Business/LAS Spring Career Day
**20** *Saturday Night Fever*, Stephens
**22** President's Concert, Chicago
**22** Alumni Travel: Panama Canal Cruise (through March 3)
**22** Gerdin Business Building dedication
**22** Aquila Theatre Company, *Othello*, Stephens
**27** ISU Alumni Association Board of Directors winter meeting
**27** Moscow State Radio Symphony & Chorus, Stephens

## MARCH

**1** ISU Community Visit and Alumni Reception, Fort Madison, Iowa
**3-5** Ring Week
**6** Big 12 Wrestling Tournament, Ames
**7** Momix, *Opus Cactus*
**9-14** **Big 12 Men's and Women's Basketball Tournaments, Dallas**
**10** Alumni Travel: Orinoco River Adventure (through March 18)
**15-19** Spring Break
**21, 23** Women's basketball NCAA first and second rounds, Ames
**24-25** Grad Fair: "Senior Cy-onara" (student program)
**26-27** ISU Science and Technology Fair
**28** Scholars and Leaders Recognition Ceremony
**29** ISU Alumni Association Club of Hamilton County Annual Banquet
**30** Alumni Travel: Mississippi Steamboating (through April 6)

## APRIL

**3** Rockapella, Stephens
**5** ISU Community Visit and Alumni Reception, Decorah, Iowa
**6** Alumni Travel: China, Tibet, and the Yangtze River (through April 23)
**6** Alumni Travel: Holland in Bloom (through April 17)
**15-17** Stars Over VEISHEA: *Fiddler on the Roof*
**16-18** VEISHEA
**16-17** **ISU Distinguished Awards Celebration**
**17** College of Business class reunions for all classes ending in "4" or "9"
**19** Alumni Travel: Alumni College in Andalucia, Spain (through April 28)
**22** Graduation Breakfast
**22** Official Ring Presentation Ceremony
**23** *A Streetcar Named Desire*, Stephens

## MAY

**3-7** Final exams
**4** Alumni Travel: Alumni College in Provence (through May 12)
**6** International Students Graduation Reception
**7** Spring semester ends
**7** Graduate Commencement
**8** Undergraduate Commencement
**10** Alumni Travel: Alumni College in Normandy (through May 18)
**10** ISU Community Visit and Alumni Reception, Pella, Iowa
**15** Senior Trip: Classic Europe (through May 31)
**16** Alumni Travel: Village Life in England's Cotswolds (through May 24)
**20-21** **Alumni Days**
**20-22** Special Olympics Iowa
**21-22** ISU Alumni Association Board of Directors spring meeting
**22** ISU Alumni Association 71st annual meeting and luncheon
**22** ISU Travelers' Reunion
**24** Rome Study Tour (through June 4)

## Details, details

- **Women in Athletics Celebration – Celebrating Cyclone Leaders**
  Feb. 7, 2004
  3-5:30 p.m., between the Cyclone men's and women's basketball games. For information, call or e-mail Calli Sanders, csanders@iastate.edu, 515-294-1087

- **Big 12 Men's and Women's Basketball Tournament**
  March 9-14, 2004
  Show your Cyclone spirit by following the men's and women's basketball teams to the Big 12 Basketball Tournament in Dallas! The Alumni Association can help you book a hotel room, locate the Cyclone gathering spot, and cheer the teams on to victory. Go to www.isualum.org/events/big12.html.

- **ISU Alumni Association 71st Annual Meeting and Luncheon**
  May 22, 2004
  Open to all members of the Alumni Association. For more information, go to www.isualum.org/events or call toll-free 1-877-ISU-ALUM

- **ISU Alumni Association Travelers' Reunion**
  May 22, 2004
  For information, call or e-mail Jan Breitman, jbreitman@alumni.iastate.edu, 1-877-ISU-ALUM

## Save the date

- **2nd Annual ISU Black College Reunion**
  Sept. 3-5, 2004
  For information, go to www.isualum.org/events/reunionrequest.html

- **Homecoming 2004**
  Oct. 2-10, 2004

- **Family Weekend 2004**
  Oct. 17-19, 2004

# Dear friends:

JON BRITTON

I can't describe the feeling I have as I walk across the Iowa State campus. It's so familiar to me that it's like seeing a classmate from long ago. As a child, I trudged up the hill to Music Hall for eight years of piano lessons; I skated on Lake LaVerne every winter; during Alumni Days in June, I explored the Memorial Union with other children of "demon alums," as my mother classified herself.

The trees on central campus remind me of Professor Budd of Botany who traveled the world to bring examples here so that his students could learn from the real thing. I grew up next door to the Budd house in downtown Ames knowing that it had sheltered George Washington Carver as a botany student long before.

My Iowa State roots go back to the very beginning of this school. My grandfather, J.B. Hungerford, was born in Pennsylvania to a large Irish family that came at the time of the potato famine. His brother Edgar was in Iowa State's first class, and J.B. in the class of 1877. They loved Iowa State. I think those men felt that it had saved their lives. The Morrill Act was a wonderful thing for those immigrant families or any families. My grandfather, a newspaper publisher in Carroll, served on Iowa State's Board of Trustees for many years. His proudest moment, he said, was the opening of Beardshear Hall.

My father grew up in Northfield, Minn. He wanted to be an engineer and chose Iowa State, supporting himself by working at the college heating plant. He graduated in 1912. After several years with the Iowa Highway Commission, he joined the Iowa State civil engineering faculty to teach land surveying. He taught until his death in 1950. Believing that engineering students needed experience "in the wilds" before graduation, he established Camp Marston on the rugged shores of Rainy Lake on the Minnesota/Ontario border. We spent every summer there when I was a child, and I've returned to the borderland as often as possible ever since.

My mother, Josephine Hungerford, came to Iowa State and graduated in economics in 1911. She loved every minute of it. All of my siblings – Bob, Parry and Katherine – and I have degrees from Iowa State, as do three of our spouses. Parry's son graduated in 1977. I returned as an instructor in the household equipment department while my husband, William Schlick, finished in forestry. His father was on the engineering faculty and my brother Parry served as university treasurer from 1958 until 1964.

I lived at home as a student, except for one quarter each year on campus. As a freshman in the Theta Delta Chi fraternity house (the Navy had taken over the women's dorms), I was awakened by sirens early on the morning of D-Day. That was an exciting time!

I have so many memories of this place: being kissed under the campanile, feeling sad when I walk through Gold Star Hall. I love Christian Petersen's fountain in front of the Union. And I love all of the trees – I wish I could name every one. This is a wonderful place. It always makes me feel at home.

Fondly,

Mary D. Schlick

Mary Dodds Schlick
1947 Household Equipment
Mt. Hood, Oregon

*Mary visited campus in October 2003 when she was in town for her Ames High School 60-year class reunion.*

# Happy anniversary, ISU Alumni Association!

The Iowa State University Alumni Association kicked off its 125th anniversary in grand style during Homecoming 2003. From pancakes at the early-morning tailgate to reunions to awards, the weekend was packed with events to honor and celebrate ISU alumni, students, and friends.

**Photos by Jim Heemstra**

As the Iowa State University Alumni Association celebrates its 125th anniversary, it honors the people upon whose shoulders it rests

# ISU Alumni Association Greats: Wallace E. 'Red' Barron

By Karol Crosbie

Red-haired, 18-year-old Wallace Barron thought the world had come to an end. He had one foot out the door, poised to begin college life at the University of Minnesota. But the year was 1921, the post-World War I Depression had hit, and his father, a farmer in central Minnesota, had laid off his hired help. He needed "Red" at home.

Those who believe that everything happens for a purpose may add Red Barron's story to their testament library. That winter, the community's veterinarian, an avid Iowa State alumnus, convinced George Barron that he should send his son to Ames.

That was the beginning of what Red Barron would call a "love affair" that lasted the rest of his life. As a student majoring in agricultural economics, he plunged into every activity he could: He was president of Cardinal Key, chair of the Veishea Central Committee, a member of three honorary societies, twice president of Tau Gamma Nu fraternity, chair of Iowa State's first student forum, president of the Agricultural Economics Club, and an officer of honorary societies in social science and writing. One of his most important mentors was the university's president, Raymond Hughes.

It took Barron six years to receive his degree, because almost every year the money ran out after two quarters. When he did graduate, two people were paying close attention: Iowa State President Hughes, and Mary Rhea, a former classmate and library assistant on campus. To both, Barron gave an enthusiastic "Yes!" He joined the Iowa State staff as field secretary of the Memorial Union in 1929, and married Mary in 1931.

Each time president Hughes asked Barron to take on another job, he said, "Yes!" until in 1935 he was appointed editor of *Alumnus*, the alumni magazine, and two years later, was appointed executive secretary of the Alumni Association, a position he would hold for the rest of his career.

How was it that Barron was able to remember the name of every alum who graduated before World War II? "He learned long ago that when one is really sincerely interested in another person, it's easy to remember his name and the unique things that make him a person," reads a citation from the American Alumni Council and American College Public Relations Association, which inducted Barron into its Hall of Fame in 1967.

Barron's office was a modest cubby on the first floor of the Memorial Union. It was a perfect spot for a man who wanted to welcome almost everyone he saw – both alumni and students. "He was ahead of his time," remembers Bob Crom, who worked for him and then succeeded him as director of the Alumni Association in 1968. "We didn't have a Student Alumni Association back then, but Barron really functioned as one. Students loved him. And when they became alumni, they came back to see him," said Crom.

"Many alumni have sent their children to Iowa State, secure in the knowledge that Barron is here to help with any problem," states a 1968 *Alumnus* article. The writer of those words, Laura Dailey, who worked for Barron for 15 years, today remembers her late boss as a kind-hearted man who was also her mentor. "He taught me great respect for the type of work we did. From him I learned to serve alumni. His main purpose in life was service," says the 90-year-old Dailey.

Barron's 33 years directing the Alumni Association resulted in the creation and development of many of the programs that the Association still considers its most important: the Honors and Awards Program, an alumni magazine, alumni clubs, the Alumni Days Gold Medal dinner, and a legislative contact program.

Dailey credits Barron with the reputation of the alumni records system. "One of the tenets of his alumni directorship was that the success of our programs depended on the quality of communication with alumni," Dailey said. "I know from experience that he took great pride in searching for 'lost' alumni through relatives, organizations, and home towns."

A frugal man, Barron was uncomfortable asking for anything, especially money. "Red would always try to give as much, and ask for as little, as he could. He did that to a fault," remembers Crom. "He would move mountains for others, but never wanted to ask them for anything – never wanted to impose."

In fact, Crom remembers that it took some convincing to persuade Barron to use the occasion of his retirement in 1968 as a campaign drive for lifetime memberships to the Association. But Barron came around, and Crom notes that the drive

was very successful. As his retirement grew near, Barron wrote, "I don't want a car, or trip to Europe, or an elaborate tribute, or a banquet, but you have my permission to use my retirement as the keynote of a campaign drive – because what I want most is to see Association membership double before I leave."

Barron's son Brian and son-in-law, Gary Mulhall, both remember that Red's "friendraising" greatly benefited the fundraising for what is today's Iowa State Center.

"Red's stewardship of alumni of all persuasions was so important to the work we were doing," Mulhall said.

Barron continued to come to work after retirement, but his many friends knew he was very ill with cancer. Red Barron died on Veishea weekend, May 5, 1970.

## Red's legacy

But of course, the story doesn't end there. Red Barron's love for Iowa State spread to his own family and his Iowa State family. Mary Barron, who died in 1996, began working at the library at age 18, was promoted to thesis editor, and retired after 52 years of service. "Mom and Dad poured 100 years of themselves into Iowa State – two lifetimes of dedication," says oldest son Brian Hughes Barron (named after Iowa State president Hughes.)

Brian, a member of the ISU Alumni Association's 125th Anniversary Steering Committee, received his BS in distributed studies in 1962 and now lives in Seattle, Wash. Bruce Locke Barron attended Iowa State and lives in Des Moines. Rhea Barron Mulhall graduated from Miami University of Ohio but married 1971 ISU alum Gary Mulhall, a former ISU Foundation employee and son of the first station manager of WOI TV. The Mulhalls live in Olympia, Wash.

In 1968, the ISU Alumni Association established the Wallace E. Barron All-University Senior Award to recognize seniors who are very much like Red himself: high character, outstanding achievements in academics and activities, a deep interest in the university, and promise of continuing these qualities as alumni. The ISU Alumni Association has awarded the honor to 104 students since the award's inception. □

# The Circle

## *For those who have led*

**The Circle, founded Oct. 29, 1999, recognizes former presidents, chairs, and executive directors of the ISU Alumni Association and Board of Directors.**

**Board of Directors Presidents/Chairs**

1878-80 E. W. Stanton, '72 LAS*
1880-81 J. K. Macomber, '72 LAS*
1881-83 Milliken Stalker, '73 LAS*
1883-85 O. P. McCray, '74 LAS*
1885-89 R. F. Jordan, '77 LAS*
1889-91 R. J. Hopkins, '81 LAS*
1891-93 J. K. Macomber, '72 LAS*
1893-95 W. H. McHenry, '81 LAS*
1895-97 J. L. Stevens, '72 Engr*
1897-99 F. E. Furry, '81 Ag*
1899-01 L. W. Noyes, '72 LAS*
1901-03 W. Clyde Jones, '91 Engr*
1903-05 George W. Catt, '82 Engr*
1905-08 T. L. Smith, '77 Engr*
1908-09 R. B. Swift, '90 LAS* (died during term)
C. N. Dietz, '72 LAS* (finished term)
1909-10 J. F. Porter, '84 LAS*
1910-11 O. J. Henderson, '98 LAS*
1911-13 J. S. McGavren, '81 LAS*
1913-14 J. S. Dewell, '81 LAS*
1914-15 Wayne Dinsmore, '04 Ag*
1915-16 J. W. Hook, '05 Engr*
1916-17 Burt German, '95 Engr*
1917-18 George Smith, '99 Engr*
1918-20 R. F. O'Donnel, '08 Ag*
1920-24 M. J. Riggs, '83 Engr*
1924-27 Sarah Hook Passig, '98 FCS*
1927-30 C. C. Deering, '92 Engr*
1930-34 Mark G. Thornburg, '10 Ag*
1934-36 Charles T. Cownie, '26 LAS*
1936-37 R. M. Evans, '13 Engr*
1937-38 Don B. Stouffer, '08 Engr*
1938-40 Dan S. Craig, '09 Engr*
1940-41 P. F. Hopkins, '16 Engr*
1941-42 Walter W. Goeppinger, '33 LAS*
1942-43 Allen Whitfield, '24 LAS*
1943-45 Leroy D. Snyder, '14 Engr*
1945-47 Claud C. Coykendall, '10 Engr*
1947-49 E. N. Wentworth, '07 Ag*
1949-50 George A. Harper, '24 LAS*
1950-52 Frank R. Kerrigan, '16 Ag*
1952-54 J. D. Armstrong, '37 Ag/Design*
1954-56 Clarence N. Johndreau, '30 Ag*
1956-58 Douglas F. Graves, '46 Ag*
1958-60 Byron W. Lodwick, '20 Ag*
1960-62 Ronald I. Sieben, '34 Ag*
1962-64 Hollis R. Hilstrom, '34 Engr*
1964-66 Ralph W. Anderson, '33 LAS
1966-68 Marvin O. Kruse, '33 Engr*
1968-70 Allyn E. Hagen, '35 Ag*
1970-71 Dayton W. Countryman, '40 Ag
1971-72 Harold J. Stewart, '46 Engr/Design*
1972-73 Merle E. Betts '47, Ag* (died during term)
Bruce A. Yungclas, '49 Ag* (finished term)
1973-74 Bruce A. Yungclas, '49 Ag*
1974-75 Duane W. Sandage, '48 Ag
1975-76 Dorothy A. Pecaut, '52 FCS*
1976-77 James H. Boyd, '38 Engr
1977-78 Marvin J. Walter, '62 Ag
1978-79 Charles J. Maxwell, '56 LAS/Bus
1979-80 Maxine M. Burch, '47 FCS
1980-81 Roy J. Reiman, '57 Ag/LAS
1981-82 Carole A. Custer, '71 LAS
1982-83 Alan R. Tubbs, '66 Ag
1983-84 Nancy C. Pellett, '66 FCS
1984-85 Roy W. Uelner, '57 Engr
1985-86 Joan U. Axel, '64 LAS
1986-87 Steven E. Zumbach, '73 Ag/Bus, PhD '80
1987-88 Donald E. Greiman, '52 Ag
1988-89 Roxanne Amendt, '78 FCS
1989-90 Daniel L. Krieger, '59 LAS/Bus
1990-91 Steven F. Mores, '67 LAS
1991-92 Jill A. Wagner, '76 LAS/Bus
1992-93 Sharon L. Juon, '69 LAS
1993-94 Norman D. Skadburg, '69 Ag, MS '71
1994-95 Harvey M. Freese, '70 LAS, MS '73
1995-96 Roberta Simpson-Dolbeare, '76 LAS
1996-97 Scott E. Olson, '69 Design
1997-98 Mary Beukema Harms, '73 FCS, '79 Design, MS Bus '89
1998-99 Glen A. Mente, '61 Ag, MS '63
1999-2001 Jamie K. Lucas Stensland, '88 LAS, MS '93
2001-02 Les M. Omotani, PhD '92 Ed
2002-03 Martha Lagomarcino Gleason, '80 Ed
2003-present Stan J. Thompson, '82 LAS

**Alumni Association Executive Directors/Presidents**

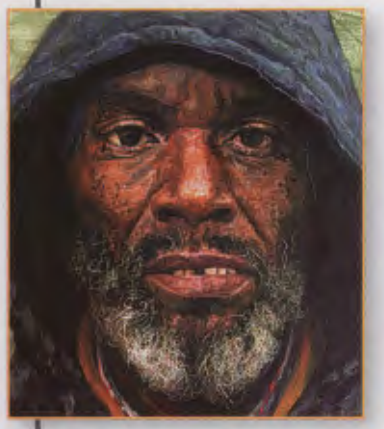
1893 - 1920
Ward R. Jones, '97 Engr*
1921 - 1937
Harold D. Pride, '17 Engr*
1937 - 1968
Wallace E. Barron, '28 Ag*
1968 - 1971
Robert L. Crom, '50 Ag
1971 - 1979
Don F. Gustofson, '55 LAS
1979 - 1999
James A. Hopson, '69 Ed
2000 – present
Jeffery W. Johnson

Glen A. Mente, Board chair 1998-99, has served as chair of The Circle since 1999.

*deceased

College designations reflect current ISU colleges

# Man on the street



THE FACES TELL THE STORY OF HARD LIVES lived on the street. Of drug addiction, mental illness, alcohol abuse, poverty, and pain.

These are not pretty pictures, these pictures painted by Qimin Liu. But they are real, and they are honest, and they reflect the artist's desire to send powerful messages about social issues.

A native of Helongjing Province, China, Liu immigrated to the United States in 1991 after studying art and stage design at the Haerbin Normal University and the Institute of Chinese Traditional Drama in China. He studied painting, drawing, and printmaking at Iowa State, and after earning a master of arts at ISU in 1997, he traveled east for additional schooling at the Pennsylvania Academy of Fine Arts in Philadelphia.

Living in Iowa had not prepared Liu for what he found in the cities on the East Coast. In Philadelphia, he was shocked to find many people living on the streets. They were all around him, sleeping on benches, under bridges. Many had barely enough energy to stay alive.

"Such a rich country, a perfect system, how do we have such a thing?" Liu remembers thinking. Yet in these tragic human forms, he found powerful visual images.

Liu had been searching for a new direction in figurative painting. He was tired of painting "normal images, without passion." He was searching for images that sent messages of personal experience and personal space.

"I want to create images between traditional and contemporary, conceptual and visual, realistic and abstraction," he said. "Not boring paintings."

By Carole Gieseke

*Qimin Liu gets to know some of Denver's homeless at the Denver Civic Center Park in Colorado.*

From that desire came Liu's "homeless project" – larger-than-life-size paintings of homeless people he encountered on the streets of Philadelphia, Boston, and other East Coast cities. He began working on the homeless project in 1997. The series of paintings includes "Under the Sky," faces of homeless men, and "Man on the Street," full-body portraits of urban homeless sleeping on park benches.

"I saw those people and saw interesting subject matter for my canvas and my brush," Liu said. "I want to produce something meaningful, not just images for self's sake."

When Liu came to the United States, he couldn't speak English. His family was very poor. There were times, after leaving the Pennsylvania Academy of Fine Arts, that Liu was very close to being homeless himself. He lived in an artist's studio and showered in a homeless shelter. He made money by painting portraits of tourists on the streets of New York's Times Square, living, he says, "on the edge of homelessness."

But his homeless project portraits caught the attention of gallery owners, and he began to sell paintings. Since 1997 he's shown his work in nearly 50 exhibitions, including a recent one-man show at the Artists' House Gallery in Philadelphia that a Philadelphia art critic called "one of the most important exhibits of the year."

Liu is now an assistant professor in the Department of Arts at Eastern Connecticut State University, where he has been since 2000. He continues to work on homeless issues and the images of minorities and immigrants. □

# Ken Smith

**Education**
- Iowa State University bachelor of landscape architecture, 1976
- Harvard University Graduate School of Design master of landscape architecture, 1986

**Profession**
- Urban landscapes specialist
- Owner since 1992, Ken Smith Landscape Architect, New York, NY

**A sample of his current projects**
- "Eleven Tears," a tribute to 11 American Express employees killed in the September 11 attacks on the World Trade Center, dedicated in September 2003
- Museum of Modern Art rooftop, designed to be viewed from above
- Schoolyard in Queens, NY, featuring colorful dumpsters and a bird-and-butterfly garden
- Marsh-grass-embellished ferry landings on the East River

**About the American Express memorial (pictured at right):**
"Ever since September 11, I've been preoccupied with the sky because the towers were so much a part of the sky. I wanted to bring the ceiling and the floor together as sort of a metaphor for sky and ground or heaven and earth."

**On designing urban spaces:**
"New York is green-starved. People are always after green. Things like simple lawns are much loved in New York City. But spaces don't have to be big to be really effective."

**What it's like for a farm kid from Waukee, Iowa, to live in New York City:**
"New York is an immigrant town. Everyone here is from somewhere else."

# Loyalty, pride, and tradition...why they matter

DEAR FRIENDS,

It's been more than four years now since my family and I became adopted Cyclones. I can say without a doubt that we love this Cyclone family, this university, Ames, and the state of Iowa. Thank you for allowing us to be a part of your family!

As the Alumni Association continues to celebrate its 125th anniversary, it occurs to me that there are four things you can do to help strengthen your Alumni Association and your university:

**1. Increase your loyalty to the level of pride.**
I personally think of your position on religion or politics when I think of loyalty – it's nobody's business where you stand on these topics unless you choose to disclose. But pride is an outward expression. It stops short of bragging and arrogance. Pride allows you to visibly state your connection. In this case, it proudly states, "I am an Iowa Stater!" Whether it is communicated with an ISU license plate, an Alumni Association or National Cyclone Club membership decal on your vehicle, a diploma on your office wall, or Cardinal and Gold clothing, pride says, "I support Iowa State no matter what."

And there's a lot to be proud of right now at Iowa State. Alumni membership is at an all-time high. Student membership has exceeded 5,000. Student enrollment is more than 27,000 for the third straight year. Our women's basketball team beat Iowa 101-96 in double overtime. And, the wrestling team beat the Hawks after a 15-year drought. Congratulations Cyclones... we're proud of you.

**2. Help us reach our membership goal of 50,000 paid members.**
Provide a gift of membership to a family member, coworker, or friend from your college days, or encourage them to become members on their own. If you are unsure whether or not someone is a member, call our office toll free (1-877-ISU ALUM) and we'll verify that information for you.

**3. Purchase an "Official Iowa State Ring."**
That's right: The old tradition is back. The Official Iowa State Ring symbolizes a lifetime of accomplishments. Some alumni see it as a "walking diploma." To order a ring for yourself, or as a gift, go to www.isualum.org/services/ring.

**4. Be a charter member of the "Alliance for ISU."**
Iowa State has experienced three consecutive years of budget cuts and tuition increases. Therefore, it is time for all of us, especially those of us living in Iowa, to tell our elected officials that enough is enough. Not only will the cuts and tuition increases soon damage access to higher education for many, it also stands the chance of jeopardizing educational quality, economic growth, and quality of life in the state of Iowa. That, in the end, will impact the degree you hold. I am calling on you to join with us as we say to Iowa legislators: "No more cuts." To be a part of the Alliance for ISU please e-mail **jjohnson@alumni.iastate.edu.**

In closing, thank you for your continued loyalty to Iowa State and your membership in the ISU Alumni Association. Together, we will ensure a brighter future for Iowa State and future generations. Believe me, loyalty, pride, and tradition do matter.

I remain yours for Iowa State,

**Jeff Johnson**
President, ISU Alumni Association

**Alumni Medal ▪ Alumni Merit Award**
**Impact Award ▪ Outstanding Young Alumnus/Alumna Award**
**ISU Alumni Association Award for Superior Service to Alumni**
**James A. Hopson Volunteer Award**

# Nominate!

**Nominations are currently being accepted for the ISU Alumni Association's 2004 awards, to be presented during Homecoming weekend. Deadline for nominations is Feb. 1.**

**For award criteria and to nominate ISU alumni, faculty, staff, or friends for these awards, go to www.isualum.org/go/nominate. To get forms mailed or faxed to you, call Breck Breitsprecher toll-free at 1-877-ISU-ALUM or e-mail bbreitsp@alumni.iastate.edu. To view listings of former award recipients, go to www.isualum.org/services/awards.**

# Board of Directors' report

**The ISU Alumni Association Board of Directors held a planning retreat in August 2003 and met in regular sessions in August and October.**

**On Aug. 22 the board:**

- Reviewed the previous year's work and prioritized opportunities for the current fiscal year in a series of breakout, committee, and whole-board sessions during its half-day planning retreat.
- Heard Association Chair Stan Thompson's ('82 political science) goals for 2003-2004:
  1. Further plans to secure new housing for the Association.
  2. Increase membership in the Association so that the two-year goal of 50,000 members is reached.
  3. Expand the Alumni Association's role as the "traditions keeper" for the university.
  4. Work to create and clarify existing Board policies and procedures to enhance the health of the Association.
  5. Make every effort to help secure the university's legislative requests.
- Heard reports from ISU President Gregory Geoffroy and ISU Foundation President Dan Saftig.
- Approved the 2003 Impact Award slate and approved the general criteria for all ISU awards, including the new ISU staff Award for Superior Service to Alumni with a $500 stipend.
- Appointed a Facility Committee, with Director Jeffrey Whiton as chair. The ISU Foundation will conduct a feasibility study regarding the Alumni Center.

**On Oct. 17, the board:**

- Participated in educational sessions presented by Don Kockler, business manager, ("How to Read ISU Alumni Association Financial Statements"), and by Julie Larson, director of outreach and events, ("ISU Alumni Association Career Resources Overview").
- Reviewed VISIONS readership survey results as presented by Ellen Pirro of Pirro Research.
- Approved the FY03 audit and financial statements as presented.
- Approved a new Sustaining Life Membership Program to be initiated in December 2003. Annual giving levels are $125, $250, $500, and $1,000.

**The next Board of Directors meeting will be held Feb. 27, 2004.**

## 2004 class reunions

**Mark your calendars for Alumni Days: May 20-21, 2004!** Alumni Days is the golden anniversary reunion for the class of 1954 and class reunions for all alumni graduating before 1954. Registration materials will be sent in February to the 50-year class and to anyone else requesting more information. To receive a packet, call toll-free 1-877-ISU-ALUM, e-mail Pat Thiede at pthiede@alumni.iastate.edu, or go online www.isualum.org/events/ad/2004/index.html.

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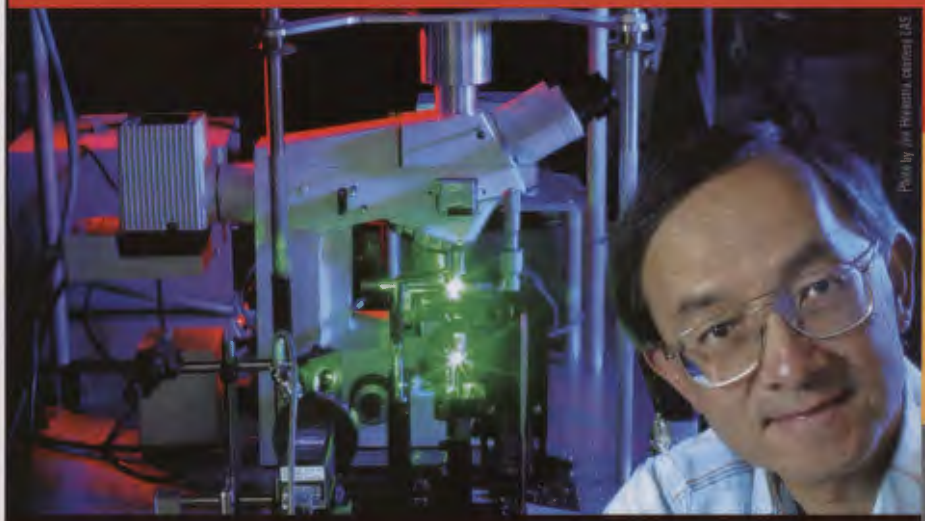

EDWARD YEUNG, PH.D.

*Distinguished professor of liberal arts and sciences and professor of chemistry*

*"The Robert Allen Wright Chair is a perfect example of how private support enhances research efforts at Iowa State. The discoveries made with the help of these funds expand our understanding of the world around us, and lead to breakthroughs that ultimately enhance our everyday lives."*

The list of awards ISU chemistry professor Dr. Edward Yeung has received includes four awards considered the "Oscars" of applied science. Keeping world-class faculty like Dr. Yeung at ISU is made easier through private support. He was recently named the Robert Allen Wright Chair – established through a bequest to build and enhance the general excellence of academic programs.

To do your part to enhance the excellence of academics at Iowa State, call the ISU Foundation at 1-800-621-8515, or visit us at www.foundation.iastate.edu

IOWA STATE UNIVERSITY FOUNDATION

## Association News in Brief

**Alumni Hall of Fame**
Jeff Johnson, president of the ISU Alumni Association, was inducted into the University of Southern Mississippi Alumni Hall of Fame in October. The Hall of Fame honors Southern Mississippi graduates for service rendered to the university and for contributions to their communities, businesses, and professions. It is the highest honor the university bestows on its alumni. Johnson received a 1986 bachelor's degree in computer science from Southern Miss.

**Outstanding Program Award**
The ISU Alumni Association's Student Alumni Leadership Council (SALC) was recognized with the Outstanding Program Award for its "Life 490: Succeeding Beyond a Degree" program at the Association for Student Advancement Program's annual conference in August.

**Rheinhart named SALC president**
Andrea Rheinhart, a senior from Bettendorf, Iowa, majoring in management, French, and international business, has been named the 2004 Student Alumni Leadership Council president. Rheinhart served as 2003 Homecoming Central co-chair. As president of SALC, Rheinhart will also serve as a voting student member of the ISU Alumni Association Board of Directors. Rheinhart succeeds Matt Bornhorst, a senior in agricultural studies, who will graduate in May 2004.

**Membership campaign announced**
The ISU Alumni Association has announced plans to reach 50,000 members by 2005. Membership currently stands at 45,643 members. Do your part to help the Alumni Association reach its goal by renewing your membership by mail or online at www.isualum.org/join.

**New opportunity for life members**
In response to a request by a number of fully paid life members of the Alumni Association regarding how they can continue to support the outreach efforts of the Association, the ISU Alumni Association Board of Directors has established a Sustaining Life Membership program. This program provides members with the opportunity to give a tax-deductible gift to the Alumni Association at one of four levels ($125, $250, $500, $1,000) on an annual basis. The decision whether or not to participate in this program will not impact the status of existing life members. Sustaining Life members will be recognized with a special certificate and in a future issue of VISIONS magazine. For more information, visit www.isualum.org/secure/sustaining.asp.

# Family of the Year

*The Foss family of Fairfield, Iowa, was named the 2003 Family of the Year. They are, left to right, Jill, Craig, Clint, Barb, and Allison Foss.*

THE FOSS FAMILY OF FAIRFIELD, IOWA, began its long affiliation with Iowa State in the 1940s when the late Harry ('45 DVM) and Marilyn ('46 home ec ed) McCreedy received their degrees. The tradition continued with Craig ('71 engineering) and Barb ('71 education) Foss. Their three children, Jill ('99 business), Allison ('01 family studies), and Clint (a current ISU student) have continued the family's legacy. The Foss family was honored during Family Weekend 2003 as the ISU Family of the Year. During homecoming weekend, the Foss Family was officially inducted into the Family of the Year Society. □

# Kate Bruns joins Association staff

*Kate Bruns*

KATE BRUNS ('99 JOURNALISM AND MASS COMMUNICATION), joined the Alumni Association staff in November as assistant director for electronic communications. Bruns had spent the three previous years overseeing communications for the Department of Residence (housing and dining programs) at Iowa State. As assistant director for electronic communications, she coordinates the Alumni Association's Web site, serves as editor of the *ISU News Flash* electronic newsletter and assists with other communications to Alumni Association members. □

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# Reimans, Brown honored with Impact Awards

On Friday, Oct. 17, the Iowa State University Alumni Association honored Roy and Bobbi Reiman and posthumously honored Doug Brown with 2003 Impact Awards during the 72nd annual Honors and Awards ceremony.

The name "Reiman" is synonymous in central Iowa with "Reiman Gardens." And Roy ('57, agricultural journalism) and Bobbi Reiman's gift of Reiman Gardens and the Christina Reiman Butterfly Wing have also made the name "Reiman" synonymous with natural beauty, culture, and education. In addition to giving gardens and butterflies, the Reimans have also funded an entrepreneurial scholars and lectures program in the College of Business.

Roy Reiman served as president of the ISU Alumni Association Board of Directors from 1980 to 1981 and is an ISU Foundation Governor, an Order of The Knoll Campanile Award recipient, and an ISU Foundation Philanthropy Award recipient. Bobbi Reiman is an Order of The Knoll Campanile Award recipient, ISU Foundation Philanthropy Award recipient, and a member of the University Museums Curators Associates. The Reimans live in Greendale, Wis., and are life members of the Association.

Doug Brown, WOI radio's beloved voice for 36 years, could spin off classical tunes, read books, and provide wrestling commentary with equal panache. Brown died Aug. 14, 2002, at the age of 66. Brown's wife, Pat Brown, accepted the Impact Award on his behalf.

JIM HEEMSTRA

*The ISU Alumni Association's 2003 Impact Awards went to Bobbi and Roy Reiman and Doug Brown. Brown's widow, Pat, accepted the award on his behalf.*

Brown was cherished for his ability to tell a story. He earned the Governor's Award for his book club, which was dubbed the "Best Arts Radio Program in Iowa." He read more than 250 books, and his rendition of Dickens' *A Christmas Carol* became a seasonal Iowa tradition. His "Music Shop" was the oldest continuous radio program in the nation. Brown was also the voice behind TV's college and high school wrestling coverage. He retired in 1999 after 36 years at WOI.

The Impact Award, established in 2002 by the ISU Alumni Association Board of Directors, recognizes an individual, business, organization, or unit for achievements that expand the scope and reach of; increase the involvement of ISU alumni, students, and/or friends in the life and work of; create positive publicity and recognition for; and bring honor to Iowa State University during the year prior to being nominated. □

# 125 YEARS Happy New Year!

**The Iowa State University Alumni Association is celebrating 125 years of loyalty, pride, and tradition.** Association staff members are, from left, Julie Larson, Cecilia Dunlay, Shellie Siders, Don Kockler, Carolyn Ringgenberg, Pat Thiede, Karen Knight, Ellen Shertzer, Breck Breitsprecher, Jeff Johnson, Scott Dahl, Beth Lott, Jan Breitman, Kate Bruns, AshLea Anderson, David Orth, Josh Purdy, Cindy Marquardt, Shellie Henry, Carole Gieseke.

JIM HEEMSTRA

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# 3 little reasons

Some of the best reasons for making a smart career move to Iowa stand less than three feet tall. In a recent annual national comparison called Kids Count, Iowa ranked among the **top four states for overall well-being of children.**

In its annual study of states, Morgan Quitno Publishing recently named Iowa **the nation's second "Most Livable State."** Contributing to that are Iowa's quality education, world-class communities and balanced lifestyle.

Iowa offers a higher quality of life at a lower level of cost. Real estate values mean families can afford **more house for the money** than in other parts of the country. **Housing prices in Iowa average 41 percent lower** than the national median and 32 percent lower than the Midwest median.

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By Jason Menke

# A family legacy

Ruth Ann Reinhardt Watkins ('81 textiles and clothing) remembers her mother as always looking "just so." No matter where she went, Mary Alice Anderson Reinhardt ('49 textiles and clothing) was always impeccably dressed.

"She was always dressed beautifully," said Ruth of her mother, who died in March 2002. "She believed that your clothes have a strong influence on how you feel and act."

Mary Alice's appreciation for fine clothing and textiles has been recognized by her husband, Bill ('48 civil engineering), and her four children through their $100,000 commitment to support the future Center for Visual Learning in Textiles and Clothing gallery that will occupy a portion of Morrill Hall.

**Mary Alice Anderson Reinhardt's appreciation for fine clothing and textiles has been recognized by her family through a $100,000 commitment to support the future Center for Visual Learning in Textiles and Clothing in Morrill Hall.**

The textiles and clothing gallery will provide opportunities for textiles and clothing students to display their designs, set merchandising displays, and install exhibits showcasing items from the university's 7,500-piece textile collection.

"Mary Alice had strong interests in both museums and textiles," said Bill. "I know it would please her very much to see those two interests come together in one location, especially on the Iowa State campus."

"Mother was an extraordinary homemaker who passed her love for sewing on to her daughters," said Ruth. "From junior high on, my sister and I were making most of our own clothes."

In addition to raising four children, Mary Alice also made time to give a great deal to her community. She served as president of the local historical society and as a city council member in Centralia, Mo., and was key in establishing the town as a Tree City. In addition to serving on the local hospital board of directors, she was active in the United Methodist Church on a local and state level.

*Mary Alice Anderson was featured as a "Bomb Beauty" in the 1947 Bomb yearbook.*

Her involvement continued at Iowa State as well. Mary Alice was a lifetime member of the Alumni Association and served on the Memorial Union's board of directors. The Alumni Band awarded her the Grace Note as she supported Bill during his presidency of that group.

"Mother was always looking toward the future," said Ruth. "She believed in planting trees and building endowments, so beauty and knowledge could surround those who lived beyond her."

In that spirit, the family's gift to honor their mother is a fitting tribute.

In addition to Bill Reinhardt, contributors to the family gift are the Reinhardt's children: Ruth Watkins, Columbus, Ohio; Curtis Reinhardt, San Luis Obispo, Calif.; Paul Reinhardt, Houston, Texas; and Rebecca Waller, Eden Prairie, Minn.

The Reinhardt gift is part of a $9 million campaign to bring Morrill Hall back to its former prominence as a focal point of the central ISU campus and provide new homes for three departments. In addition to the Center for Visual Learning in Textiles and Clothing, the building will also house the new Christian Petersen Art Museum and the university's Center for Teaching Excellence.

To date, more than $5.5 million has been raised for the renovation and remodeling. The majority of the funds have been privately raised. To help create a new legacy for Iowa State's Morrill Hall, call Jennifer Newcom at 1-866-419-6768. □

*Jason Menke is assistant director of communications for the ISU Foundation*

# Fueling the team

IT WAS A STEAK-AND-PASTA TUESDAY AT the Cyclones' training table.

Soccer players were the first to gather, loading up plates with noodles and sauce, dinner salads, fresh fruit, blueberry muffins, and milk. Then they lugged their dinners to the end of a table near the center of the training table's buffet-style cafeteria on the ground floor of Linden Hall.

These were young players, mostly first-year students, with lots of enthusiasm for dinner every weeknight with their teammates and the Cyclone football, basketball, and volleyball players.

"It's amazing," said Chelsea Kobza, a freshman midfielder from Omaha, Neb. "It's good here," said Laura Boyer, a freshman goalkeeper from Overland Park, Kan. "There are no lines. And we can go back for as many helpings as we want." Plus, "They play music here,"

*When you're 7-foot-1, you can eat anything you want. Andrew Skogland's training table menu includes cheeseburgers, chicken, pizza, salad, ham, veggies, and more.*

JIM HEEMSTRA

Kobza said over rocking chords piped in over a satellite radio station. "And we're here with all the other athletes. We can make good friendships."

"It's Linden love," said Meghan Schlenker, a freshman defender from Schaumburg, Ill.

That's not to say everything is perfect at the training table.

There's no soda and no gooey desserts. And discouraging words are sometimes heard about the food, especially from older athletes who have been eating it for years.

Training table is not about counting calories. It's about helping student-athletes be bigger, faster, stronger.

The National Collegiate Athletic Association says athletic departments can provide student-athletes one "training table" meal a day. At ISU, that's the evening meal. And it's only provided to the football, men's and women's basketball, soccer, and volleyball teams.

The size and scope of the Sports Nutrition Center, as it's officially called, is a matter for the budget.

Laurie Gustafson, ISU's associate athletic director for business operations, says the Cyclones have about $130,000 budgeted for training table this year.

Denise Harklau, the Cyclones' head women's trainer, said the investment is worth it.

It includes pre-game meals, sack lunches when they're needed, later hours to accommodate practice schedules, a breakfast club for football players who need some extra help gaining weight, and special meals during the calorie burn of two practices a day.

And it helps the Cyclones eat better.

"That nutrition is a very important part of being healthy and being able to perform well," Harklau said. "Kids have a tendency to skip meals. This is a way to get at least one good meal a day."

Think about it. These student-athletes have classes and homework. They have practices and weight training. They have travel schedules.

Harklau said it's easy for student-athlete to settle for a bagel, a bowl of cereal, or a value meal "and not get the nutrition and calories they need."

Mark Coberley, the Cyclones' head men's trainer, said student-athletes, depending on their size, will burn 400 to 800 calories an hour at practice. With practice and weight training stretching to two or three hours every day, the calorie demands add up.

Coberley said a 180-pound basketball player has to consume about 4,000 calories a day just to keep up.

But the point of training table is not to count calories, Coberley said. It's about helping student-athletes be bigger, faster, stronger.

And so, said Don Knock, ISU's director of football operations, "We don't want them to miss a meal."

The training table staff serves about 150 students every fall evening but cooks for about 450.

Many of the athletes eat two to three times what an average student might eat, said Mary Ellen Metzger, a dining service manager who directed ISU's training table for eight years before moving to another campus post this year.

But making the most of training table is more than just piling the buffet line with enough food to provide some of the 4,000 to 6,000 calories student-athletes need every day.

That might have worked in the '60s when ISU established a training table in the Towers residence complex. Back then, the meals were served family style, seven football and men's basketball players to a table, a gallon of milk in the middle, and platters piled with pork chops delivered from the kitchen, said Carol Petersen, ISU's assistant director for residential dining.

That won't work today. Students are more sophisticated eaters, Metzger said. They're used to eating out. It's not about how mom used to cook it. It's about how the restaurant down the street – or the fancy new campus dining center – serves it up every day.

So the training table tries to offer more and more choices. Metzger said there are at least three entrees every evening, including a low-fat option such as pasta or a grilled chicken breast. Within the last two years, the kitchen has added a char broiler and a smoker for different meat options. And there are always vegetables, fruits, cereals, and carbohydrates to choose from.

And now Petersen said there's starting to be some talk about one day developing a new training table facility on campus.

Andrew Skoglund was already on his second plate of pasta.

The 7-foot-1, 260-pound basketball center from Minnetonka, Minn., also had steak, garlic bread, and potatoes to eat up.

This night, Skoglund judged the steak "a little on the dry side." But that's about as critical of training table as he was going to get. He likes the place.

"Oh yeah," he said. "It's ready to go. And it's all you want."

Plus, he said he gets to see some more of his teammates.

"Hanging out is fun, too," he said between bites. "Talking over dinner and telling all kinds of stories – it's all sorts of fun."

Hiawatha Rutland, a senior football running back from Bradenton, Fla., who's been eating at the training table for 4 1/2 years, wasn't thrilled with another plate full of "yesterday's spaghetti." But he said his complaint really was small potatoes. Training table is something to appreciate.

"Man, I love it," Rutland said over his steak, spaghetti, Frosted Flakes, watermelon, milk, and Powerade. "It's so convenient. I don't have to cook. I'm guaranteed a meal. And I can eat until I get full." □

*Mike Krapfl is managing editor of* The Tribune *in Ames.*

By Dianne Bystrom and Jane Cox

# Carrie would be proud

JAN. 9, 2004, MARKS THE 145TH ANNIVERSARY of the birth of Carrie Clinton Lane Chapman Catt, who graduated from Iowa State College in 1880 as the valedictorian and the only woman in her class. She became involved in the women's suffrage movement in 1887, after the death of her first husband, and devoted the next 33 years of her life to winning women the right to vote. Her "Winning Plan" as president of the National American Woman Suffrage Association led to the ratification of the 19th amendment to the U.S. Constitution, giving women the right to vote in 1920. She established the League of Women Voters and worked, until her death in 1947, on such issues as world peace.

As the woman who helped enfranchise more than one-half of this nation's population, Carrie Chapman Catt certainly stands out among the most accomplished and important alumni of Iowa State University. So, we were certainly pleased to see her included in the fall 2003 issue of VISIONS magazine as one of three alumni to bring "greetings" to the ISU community on the occasion of the Alumni Association's 125th anniversary.

However, after reading the fictional letter and knowing Carrie as we do from studying her speeches and writings, we do not believe she would be concerned that women now outnumber men as college graduates or that Iowa State's female athletes achieve higher academically than do male athletes. Rather, Carrie would be proud of these accomplishments by women. And Carrie certainly would not have characterized women voters as "soccer moms," knowing that the women's vote is rich and varied, embracing the wealth of experiences that make up women's lives in our society.

Instead, Carrie would be proud of the number of women who vote today. Just 44 years after winning the right to vote, women began outnumbering men at the polls in the 1964 presidential election. Since 1980, the proportion of female voters has been greater than the proportion of male voters. And, since 1984, more women than men have registered to vote. The fact that more women than men vote, and that they often vote

differently than men, has led to the phenomenon known as the "gender gap," which has been a factor in every presidential race since 1980 as well as numerous U.S. Senate and gubernatorial races.

Carrie also would be proud of the slow, but steady, progress of women elected to public office in this country. Carrie was a personal friend of U.S. Representative Jeannette Rankin of Wyoming, the first woman elected to Congress in 1916. Since then, 222 women have served in the U.S. Congress (including six who have served in both the House and the Senate). In the past 25 years, women have increased their representation in the U.S. Congress from 4% to 13.6%, in statewide elective office from 10% to 25.3%, and in state legislatures from 9% to 22.3%.

Finally, Carrie would be proud of the continued advances of her League of Women Voters and of the more recent successes of the Carrie Chapman Catt Center for Women and Politics, both of which are dedicated to educating voters about the political process.

The Carrie Chapman Catt Center for Women and Politics has worked to interest, educate, and engage citizens – especially women and young voters – in the political process since it was founded in 1992. Each year, the Center serves more than 3,000 women and men of all ages through its programs, events, and activities. More than 50 Iowa State students participate annually in the Center's scholarship, mentorship, and leadership development programs – which include the Legacy of Heroines scholars program; Advancing Citizenship Together (ACT) freshman learning community; and the Joni and John Axel Leadership Development Series. The Center brings outstanding women leaders and role models to campus each year through the Mary Louise Smith Chair in Women and Politics and supports research through the Carrie Chapman Catt Prize for Research on Women and Politics.

The success of this Center founded in Carrie's honor as a living memorial to her life's work might be the best birthday present ever. □

*Dianne Bystrom is director of the Carrie Chapman Catt Center for Women and Politics. Jane Cox is an ISU professor of music and has portrayed Catt in a one-woman show.*

# Chillin' out

**Iowa squirrels don't seem to mind the snow as much as we do.** Photo by Jim Heemstra

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# *Jamie Stensland*

B.S. 1988, M.S. 1993 JOURNALISM

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MARATHON RUNNER.

MEMBER SINCE 1992.

# You're in GOOD company.

**Jamie Lucas Stensland** is a woman on the run. A former ISU cheerleader and past chair of the ISU Alumni Association's Board of Directors, Jamie has competed in 13 marathons, including the New York Marathon last fall where she carried the American flag in honor of the Americans who died on September 11. And with three kids and a full-time home-based business in marketing communications, Jamie still has time to volunteer in her Waverly, Iowa, community and serve as chair of the Alumni Association's 125th Anniversary Committee.

Jamie is just one of the 45,643* fascinating, involved, diverse individuals who make up the Association's membership. In celebration of the Association's 125th anniversary, we've set a **milestone membership goal of 50,000 by 2005.** So if you're a member of the Iowa State Alumni Association, you're in good company! If you're not, we invite you to join or renew your membership today by calling toll-free 1-877-ISU-ALUM or joining online at www.isualum.org/join.

**as of November 2003*