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ALUMNI

COVER

100 YEARS: A CENTENNIAL CELEBRATION

In order to become a *university* in the most official sense of the word, the UW needed "a college of liberal arts . . . and several professional schools." So in 1889 the Board of Regents and the state legislature changed a law to establish the colleges of agriculture, engineering, letters and science, and law. It was a technicality—all four divisions had already been thriving for a decade. They continue to do so, as you'll see from this four-part feature on their century of progress.

by
Tom Murphy '49

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COLLEGE OF AGRICULTURE

From the development of the silo to the discovery of vitamins, the ag school has been crucial to the state's dairying and agricultural industries. Campus historian John Jenkins says it "changed the history of Wisconsin." We think you'll agree.

15

COLLEGE OF LETTERS & SCIENCE

At some point every UW grad has been enrolled in L & S courses. Over 118,000 of you have received your



degrees from the college, making it considerably larger and more complex than most of the country's liberal arts colleges, including those at similarly large public universities.

17

COLLEGE OF ENGINEERING

After 100 years, it is still reaching to the future—to sources of Astrofuel, capable of supplying the world's energy needs, to superconductivity and to the development of super optical sensing chips. But most of all, it is reaching out to educate, so that our graduates may stay in step with the technological race to the 21st century.

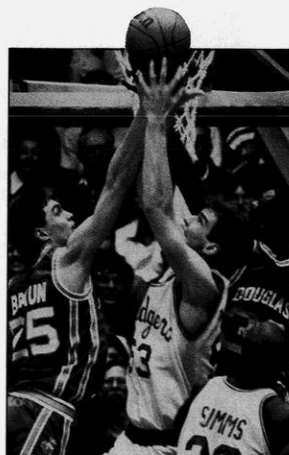
20

SCHOOL OF LAW

This professional school has received many honors, but the most recent comes from the Society of Ameri-

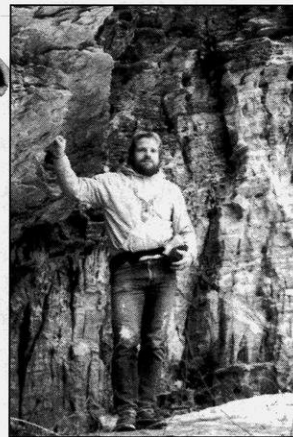
can Law Teachers. It cited ours as a model of minority faculty hiring, and gave tribute to the school for its 20-year-old *Legal Education Opportunities* program, one of the finest programs in the nation for blacks, American Indians, Chicanos, and Puerto Ricans.

23



The Badgers made it to their first post-season basketball tournament in 42 years. They lost in the second round, but getting there sure was fun. See Compendium, page 10.

ROCKS OF AGES



Until now, state archaeologists didn't think Wisconsin had much prehistoric rock art. But David Lowe, a UW senior in anthropology, has changed their minds. He's doubled the number of documented sites in the state in just three years and he's found over 150 other rock shelters and burial mounds in south-central Wisconsin. The experts say he's only just begun to uncover our cultural heritage.

by Jeff
Iseminger

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ON WISCONSIN 4

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COMPENDIUM 10

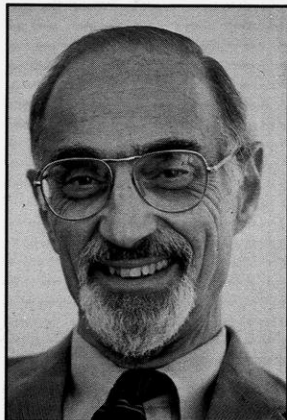
DISPATCHES 30

OBITS 34

Cover Photo

In 1917, graduation celebrations included medieval pageantry and a parade on Bascom Hill. State Historical Society of Wisconsin

ON WISCONSIN



Bernard C. Cohen, Vice Chancellor for Academic Affairs, will retire in July. He is a political scientist who served as acting chancellor in 1987, and he is the joint recipient of our 1989 University Service Award. The following is an excerpt from Cohen's mid-year commencement speech, which illustrates why he has been an inspiration to students, faculty, and alumni ever since he arrived on campus in 1959.

"Although you may not remember many specific days from your years at the University of Wisconsin, you carry with you throughout your life a collage of memories—of roommates and friends, of certain classes and certain professors, of catching a few rays on Bascom Hill on a warm spring day, the sun setting across Lake Mendota on a warm spring evening.

You have grown up here; the University has—gently, I hope—presided over your transition to adulthood. It has given you a key to unlock new doors, doors to new opportunities, to the appreciation of different cultures, to the enjoyment of literature, music and art, to the exercise of newly developed talents and skills, to different and better life chances. The University has opened you up to worlds you did not know before, and it has provided you with the understanding that will let you open up still other worlds. You have been specially favored—by your own abilities, by your own determination to take advantage of those abilities, by the help of your families and friends, and by the historic action of the people of this state in creating and supporting a University of extraordinary quality.

You probably have learned by this time that there is no free lunch. In return for the key to the city of light, the University expects you to be keepers of the flame inside. It asks that you put to full use what you have learned here. I mean this in more than just a narrow professional or occupational sense. Rather, I mean in the broadest sense that you are educated people. You are the future leaders of this society, the bearers of its diverse cultures and of their moral structures. You are the ones who, by your actions, will set the tone for your generation. If this is to be a tolerant society, you must be tolerant, you must demonstrate tolerance, and you must insist on tolerance from others. If we are to live civilized lives on this crowded planet, you must practice civility—and even more among strangers than among friends.

You all have parents, relatives, or friends who have helped you make the long trip to this day, and I want you to reflect for a moment on what it is they have done. Parents, especially, have an odd way of doing things for their children without any expectation that they themselves will get something in return. But parents are not the only people who demonstrate this peculiarity. Fortunately, communities everywhere have people of this sort, people who give with no expectation of return, but only with the hope that those who receive will some day pass the gift on to others.

My last charge to you, then, is to "pass it on"—to put your education, your talents, your abilities, to the service of the larger society. You do not have to operate on a world stage in order to be able to leave the world a better place than you found it. All it requires is acceptance of the concept of service, a commitment to the idea that you put back into your community more than you take from it. Let that be the legacy of a UW-Madison education!" □

*Bernard C. Cohen
Vice Chancellor for Academic Affairs*

WISCONSIN ALUMNI

Arlie M. Mucks, Jr. '43
Publisher & Executive Director
608-262-2551

Gayle Langer '59
Associate Publisher and
Associate Executive Director
608-262-7545

Susan S. Pigorsch '80
Editor
608-262-9639

Thomas H. Murphy '49
Chief Writer
608-262-5895

Ann Lloyd '85
Advertising Coordinator
608-262-9599

Director of Business: Mark Blakeslee (608-262-9786) **Director of Advertising, Membership and Promotion:** Ann Benda Geocariss '79 (608-262-9648) □ **Director of Campus Programs/Reunions:** Suzanne J. Miller (608-262-9647) □ **Editorial Advisory Committee:** Barbara Arnold '77, Legislative Coordinator, Commonwealth Edison; Betty Erickson Vaughn MS'49; Donald K. Davies '52, Features Ed., Wisconsin State Journal; Prof. Phillip M. Hamilton, Art Department; Prof. James L. Hoyt '65, '67, '70, Dir., School of Journalism and Mass Communication; Mark A. Larson '80, Waldbillig & Besteman Adv. Agency; Jonathan Pellegrin '67, Johnson Hill Press; Arthajean Petrie Towell '53; Linda L. Weimer MS'72, Director, UW News Service. □ **WISCONSIN ALUMNI ASSOCIATION OFFICERS, 1988-1989:** **Chmn.:** Arthajean Petrie Towell '53, Madison; **President:** Charles P. La Bahn '49, Milwaukee; **1st Vice President:** J. Charles Phillips '65, Reedsburg; **2nd Vice President:** Orville W. Ehrhardt '54, Solon, Ohio; **3rd Vice President:** Ted D. Kellner '69, Milwaukee; **Treasurer:** Stephen H. Sills '66, Chicago; **Assistant Treasurer:** Thomas J. Prosser '58, Neenah; **Secretary:** Charles E. Clafin '53, Rockford; **Assistant Secretary:** Robert Cattoi '50, Dallas.

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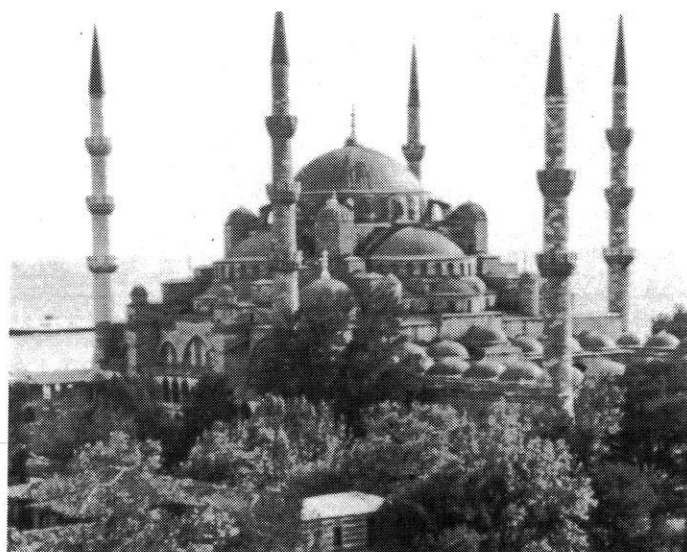
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L E T T E R S

Memories

Letter writers George Robbins '40 (March/April '89) and Art Jorgenson '56, '58 (November/December '88) have contributed an exceptional quality of scholarship to the WISCONSIN ALUMNI. The ex post facto research of these two has inspired other researchers such as myself to explore the cobwebs of the past as retro-active pub crawlers.

First, let me suggest that Tony Frank's is undoubtedly what George refers to as Tony's west side saloon. The actual name was Tony's West Side Palm Gardens. Second, a moment of silence for the passing of the Cuba Club, whose best known proprietors were the late George and Bessie Field.

Both Art and George left out the Amber Inn, off State Street in the vicinity of a bowling alley; and Kennedy Manor, an oasis on Langdon Street.

There were many others. Perhaps the State Historical Society of Wisconsin has a booklet in its archives entitled, "Summer School Fun Directory," which provided a survey of local taprooms.

Laurance Wolfe '38
North Sutton, NH

Editor's Note: The Historical Society reports that it does not have a copy of the "Summer School Fun Directory," but we'd be happy to hear from readers who might come across a copy. A check of the 1938 telephone directory (which shows seventy-nine taverns in this city of 65,000) puts the Amber Inn not off State Street near a bowling alley, but on it at 448. Reader Wolfe may have been thinking of the Plaza, with an upstairs bowling alley at 319 N. Henry; the tavern is still thriving but the alleys are gone. The West Side Palm Tavern at 734 W. Washington is the

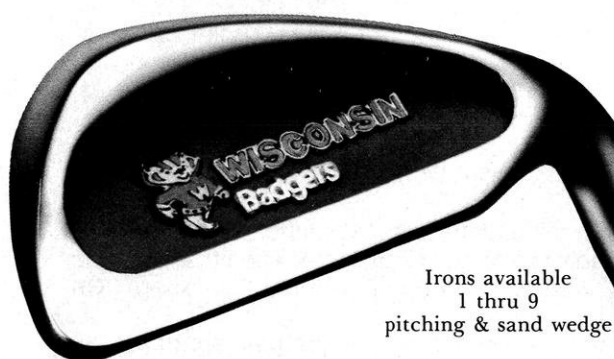
only one with that word in its title. As for the Cuba Club owners, the venerable "Smokey" Schmock, now the owner of his own thriving steakhouse on University Avenue, recalls them fondly from his days as a bartender. The Fields sold to Gus Hogan, who sold to Charlie Young, who sold to Lyle Poole in the mid-'40s, and it stayed in the Poole family until closing.

Kicking The Habit

In your March/April 1989 "Compendium" column, "Study Says You're Too Smart to Smoke," you reported that there are "something like 50 million Americans who smoke, and something like 3,000 young people who pick up the habit every day." I believe a correction is due. Young people do not "pick up the habit": they are addicted to nicotine. And we are all in danger from passive as well as active smoking.

Gary King '72
Colorado Springs, CO

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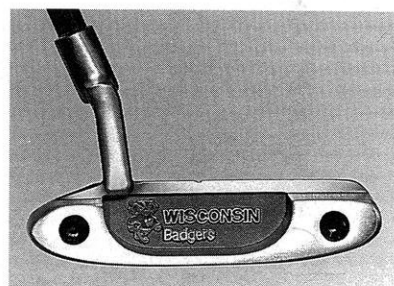
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Cairns, Brisbane, Auckland
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November

CULTURAL RUSSIA
Moscow, Leningrad, Helsinki

1990

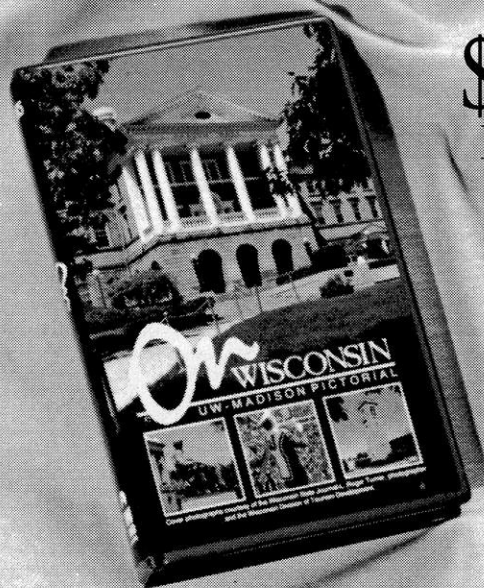
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The Memorial Union's Great Hall has been reserved for July 2-3. We hope to bring together many of the musicians and performers that started out in Madison, and we hope you'll call or write us with your suggestions for other workshops and events. Think about sharing your experiences, talents, and expertise with others, and join a committee (there are already ones for housing, day-care, food, exhibits and films, propaganda, etc.). We couldn't have a reunion without committees! *The Take Over/Kaleidoscope/Daily Cardinal*

veterans hope to publish a special reunion edition just before the event, so send us your thoughts, ideas, and experiences, whether you loved or hated the papers. Don't forget—the greatest sin is to be boring.

Contact:
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1969-1989 Reunion
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Wisconsin Union Theater Turns 50!

Even if you weren't here in 1939, when Alfred Lunt and Lynn Fontanne came to town, you can come back in 1989 to see the likes of Isaac Stern, Pinchas Zukerman, Yo-Yo-Ma, and the King's Singers.

All alumni are invited to join in the golden anniversary celebration of the Wisconsin Union Theater, October 6-8, 1989. If you can't come and join the party in person, share your reminiscences in print. Did you attend one of the opening performances of *The Taming of the*

Shrew in 1939? Did you marry that special someone you took to a Union Theater concert? Did a lecture inspire your career? If so, we'd love to hear from you. Jot down your memories, relay any anecdotes, phone if it's easier.

**Wisconsin Union Theater
Anniversary Coordinator
Memorial Union,
800 Langdon Street
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(608) 262-2202**

Calling All Buckies

We're planning a 50th birthday party/reunion for everyone who ever had the fun of wearing the Bucky costume. The date has been set for Homecoming weekend in 1990, but we're having problems locating everyone who should be invited. If you were ever Bucky, or know of someone who once was, we need to hear from you!

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Athletic Department Gets New Financial Advisor

The interim finance officer of the economically beleaguered Athletic Department is optimistic. He feels he can get some of the red out of the books in the year allotted to him, starting the department on the road to recovery. In fact, Alan Fish feels so good about the prospect that to

bring it off he left his position as head of the division of policy and budget for the State Department of Health and Social Services.

There is an acknowledged deficit of more than \$2 million, primarily the result of a couple of bad years for football-ticket sales. Football is, of course, the main financial support of all twenty-five sports. While the new McClain Practice Facility was partially financed with \$5 million in

private donations through the UW Foundation, the National W Club, and the Mendota Gridiron Club, there remains another \$4.5 million unpaid.

State auditors say there's another \$3 million in deferred maintenance projects and an \$800,000 cash reserve.

In recent months, various sources have come up with suggestions for plugging the dollar gaps, none as yet adopted or even very popular. There was talk of asking the state for aid from tax funds. The opposition to this was led by Governor Tommy Thompson who suggested the department get its act together first. The idea of charging students an extra \$10 or \$20 a year got the expected reaction from the Wisconsin Student Association. The Athletic Board, which made the proposal, cited the fact that the sports are there for the use of all students. The WSA countered with the argument that the entire state benefits from the program.

Chancellor Donna E. Shalala told the regents at their March meeting that the department, the Athletic Board, and the university took a number of strong measures to begin dealing with the deficit. More than \$1 million has been cut from the two-year budget. She promised that her office will take a firm hand in examining Athletic Department budgets in the future.

Football coach Don Morton, coming into the third season of a five-year contract with a 4-18 record, told the regents he was happy with this year's recruiting efforts. (At last report there were eleven state athletes signed.) "We really feel the worst is behind us, and we can start turning the corner," he said.

Alan Fish says his agenda includes working with the

Athletic Board and Athletic Director Ade Sponberg to put together a five-year plan and examine such issues as departmental staffing, publications, ticket access, and broadcast contracts. He said he believes the deficit can be eliminated in three to five years.

'88 Was Another Good Year for UW Foundation

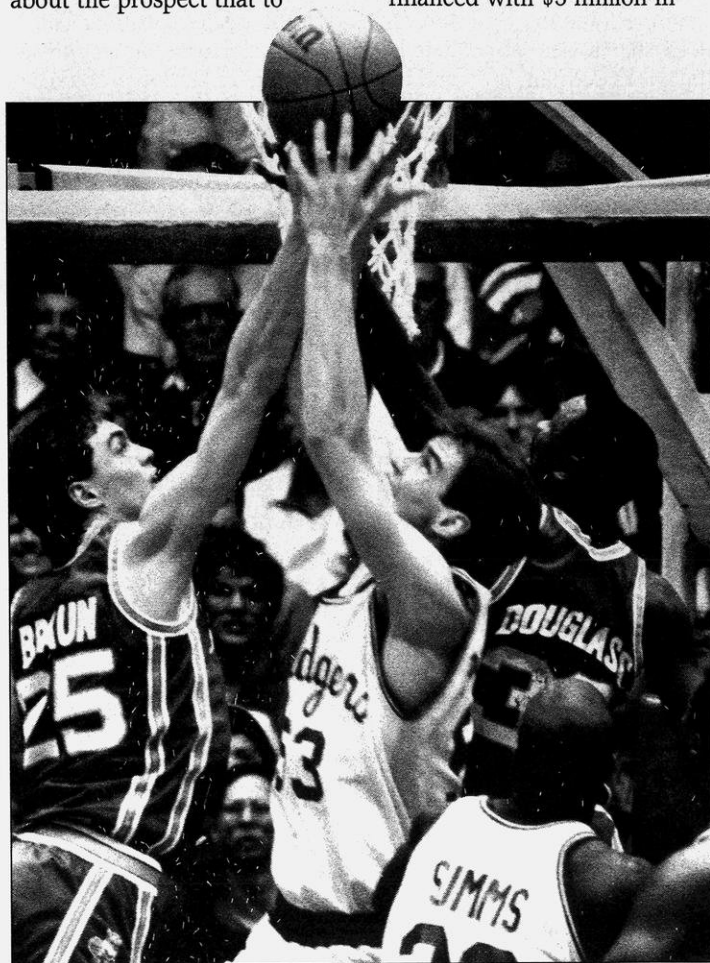
When the UW Foundation totaled its 1988 income, it found it had set a record for the twenty-second year in a row. Foundation President Andrew Wilcox announced in February that \$42,455,720 in gifts had come in from more than 54,000 sources. The total was more than \$7,260,000 above 1987's.

Wilcox said the increase is particularly significant because private donations to many other top universities declined during the year.

The major amounts took the form of gifts and pledges from such as the Grainger Foundation, which gave \$8 million for projects in the College of Engineering and the School of Business; \$1.5 million donated by Jerry and John Frautschi on behalf of their father Walter to purchase Second Point on Lake Mendota; and a \$1.94-million bequest from Frank A. and Theresa M. Kleinheinz to establish a medical research trust in memory of their father.

Wilcox said the majority of the gifts come from the Annual Fund program, deferred giving, corporate matching gifts, major donors in the Bascom Hill Society, special campaigns, and the ongoing phonathon program which raised \$1.7 million.

JEFF OIEN



A BID FOR THE BADGERS—After an 18-12 season that no one would have predicted, the basketball team got a tournament berth for the first time in forty-two years. They self-destructed in the second game, going down to the St. Louis Billikens 73-68, but there were plenty of ups along the way (like when center Kurt Portmann got the rebound, above). It wasn't the prestigious NCAA tournament, but after all the years of drought, no one complained about this National Invitational Tournament bid. The Badgers won the first game, on the home floor, beating the University of New Orleans 63-61. At the season banquet prior to the tournament, senior guard Trent Jackson won MVP honors, and junior forward Danny Jones got an Associated Press All-American honorable mention.

Good Progress Made In Minority Plan

A year after the introduction of "The Madison Plan," a blueprint for increasing minority participation on campus, there is measurable progress on thirty-four of its thirty-six goals. Among the highlights of that progress are: a new ethnic studies credit requirement that will apply to 88 percent of entering freshmen next fall; the hiring this year of eighteen new Hispanic, black and American Indian faculty; the new Mentor Program, aimed at increasing minority retention by matching 225 students with faculty or staff mentors; small-group study programs in the School of Business and L&S; race-awareness training, and a student-run racism hotline.

As you read this, the Board of Regents is expected to have passed a ruling that would allow for disciplining students who attack or threaten other students, guests, or UW employees because of their race or other factors. It would also allow discipline against a student for racist or discriminatory comments or conduct that create an intimidating environment for university work.

This measure and a similar proposed state law were temporarily halted during March to allow further study of their wording to avoid limitations on students' free speech.

UW-Russia Scholar Exchange

A year ago the vice-rector of Moscow State University came to campus; this March he hosted visitors from The Hill. Chancellor Shalala; David Bethea, chairman of our department of Slavic languages and literature; Pro-

BRENT NICAstro



1989 WISCONSIN ALUMNI ASSOCIATION STUDENT AWARD RECIPIENTS— Four seniors and six juniors will be honored on campus at the All-Alumni Dinner, May 5. Front row: Christina Gay, business, of Milwaukee; Kendall Gray, music, Oklahoma City; Kathleen Horn, dairy science, Brooklyn, Wisconsin; David Chapek, engineering, Monona. Back row: Eric Yen-Po Chen, biochemistry/sociology, Madison; Sharyl Nass, genetics/bacteriology, Watertown; WAA Executive Director Arlie Mucks, Jr.; Lynda Pum, pre-medicine, Green Bay; Michael Solomon, engineering, Brookfield. Not shown are Anat Hakim, political science, River Hills, Wisconsin; and Anthony Shadid, political science/journalism, Oklahoma City.

fessor Eugene Trani of the history faculty; and Regent President Paul Schilling went to Russia.

That exchange of visits finalized a plan to exchange scholars, the most comprehensive ever between a Soviet and an American university. It includes opportunities for visits by scholars at all levels, from full professors and research fellows to undergrads and trainees, and with no limitations on fields of study.

Said L&S Dean David Cronon, few American schools could handle a program of this magnitude because they lack a broad enough base of Slavic language and Soviet studies. He began our affiliation with Moscow State in 1974 as the first American to serve there as a Fulbright lecturer in U.S. history. He was followed in 1981 by Trani, and in 1986 by history professor John Cooper.

Details for the plan, which

Cronon and Bethea concluded on a visit to Moscow in December, include: exchange of up to five graduate students, teachers, and research fellows, and up to ten undergrads for one or two semesters of study; placement of up to five of our students in Moscow for advanced training in Russian language and, in return, our offering of an extensive English course for Russian students traveling in Wisconsin; Moscow State's placement here, for one semester each year and at our request, of a "highly qualified scholar-teacher" from one of eleven disciplines; faculty exchanges for flexible periods, and the yearly joint publication of scholarly articles.

Update

More adult students come back to campus for a master's in business administration than for all other degrees put

together. But now MBA's are going to be harder to get. Those in the 54-credit, two-year program can no longer waive any required credits. An entering student who has already taken a required course will have to take an advanced level in the same subject area.

Our **Clinical Cancer Center** took part in a national study that suggests chemotherapy following breast-cancer surgery is a wise choice for women whose cancer has not spread to the underarm lymph nodes. **Douglass Tormey MD** analyzed 406 such patients who were considered high-risk for recurrence. Of those who had the therapy, 84 percent were still clear after three years, compared to 69 percent of those who'd had no treatment.

News items edited by Tom Murphy from the UW News Service and campus sources.

Honorary Degrees On Commencement, May 20

The 1989 honorary degrees, to be given at commencement this month, will go to leaders in civil rights law, American film, business, and the history of education.

The honorees are: **Eleanor Holmes Norton**, former head of the U.S. Equal Employment Opportunities Commission, a regular guest commentator on National Public Radio and currently a law professor at Georgetown University;

Lawrence A. Cremin, Pulitzer Prize-winning historian author of a major trilogy on the history of American education (who was a Guggenheim Fellow here in 1957-58);

Movie producer **Walter Mirisch '42**, who is also a recipient of WAA's Distinguished Alumni Award to be given Alumni Weekend, two weeks prior to commencement; and

Arthur C. Nielsen Jr. '41, president of the marketing research firm, headquartered in Chicago, founded by his father. He, too, has received WAA's Distinguished Alumni Award.

Eleanor Holmes Norton will deliver a commencement address.

"Critical" Biotech Center Gaining In Funding Race

Chancellor Donna E. Shalala told the March meeting of the Board of Regents that the proposed new Biotechnology Center and Genetics Laboratory are "critical." In light of an expected boom in federal

science and technology funding under the Bush Administration, the emergence of biotechnology could be a boon to state economic development, strengthening ties between UW researchers and industry.

The center is expected to cost about \$26.3 million. Shalala is seeking up to 50 percent of the funding from the federal government. The regents approved a request to seek about \$10 million in accumulated funding from the William F. Vilas Trust Estate for the project, and the State Building Commission has authorized about \$500,000 in planning money. The remainder would come from private donations and state support; Governor Thompson has promised added state support once federal funding is

underway. Private donations are also expected.

The campus has some 230 faculty members engaged in biotechnology research but lacks a unified facility for them. The fear is that within a few years some of the best of those could be lost to industry or to other institutions, which are already pushing ahead to build top notch research labs.

More Instructors, More Classes Available

As part of a systemwide effort to make key courses more easily accessible to students, the Madison campus was able to add 114 new instructional positions this school year. The direct result

was 253 additional class sections and 10,835 new class spaces.

The "high demand" courses most affected here are—in order—business, engineering, education, communications, and foreign language.

Here and throughout the system, the hiring process exceeded the minority hiring goals of 5 percent recently authorized by the state legislature. About 7 percent of the new positions at UW-Madison went to minorities (in addition to more as part of the Madison Plan; see "Good Progress Made In Minority Plan").

According to a report on the procedure, the average instructor here taught 250 student credit hours in 1987-88, with an estimated two to three hours' preparation time for each class.

TODD ROSENBERG



HOCKEY ENDS ON A HIGH NOTE—This season, with the need to replace six seniors, including four All-Americans, the hockey team was expected to be no better than a fifth-place team. So what did they do? They finished 25-16-5 (.598) overall, finished third in the WCHA regular season at 20-13-5, third in the WCHA Playoff Championship, and went to the NCAA Quarterfinals. Minnesota stopped them there, but the Badgers skated home as one of the nation's top eight teams. Defenseman Paul Stanton, the only carryover All-American from last year, earned First-Team WCHA honors. On that team with him was freshman goaltender Curtis Joseph, the WCHA's Most Valuable Player and the league's Freshman of the Year. Team scoring leader John Byce made the WCHA's second team.

Cheeseburger? Whey to Go, Mike

Michael Pariza, the director of our Food Research Institute, has found a cancer-preventing chemical in cheese, especially in some of the spreads. He's a nationally known expert on diet and cancer. His discovery has to do with the whey in cheese and other dairy foods, and it's called CLA (for conjugated linoleic acid). He found the highest amount in Cheese Whiz. A couple of years ago, he found the same cancer-resistant powers in fried hamburger.

The Wisconsin Alumni Research Foundation (WARF) has filed for patents on the CLA-making process. The compound helped lab mice resist skin and digestive cancer when they were exposed to cancer-causing chemicals. CLA forms in the presence of whey protein, and the connection may be good news for Wisconsin cheesemakers who have had problems with whey disposal.

Farrakhan, Often Fiery, Is Less So In Talk Here

Louis Farrakhan, the controversial leader of the Chicago-based Nation of Islam, spoke in the Field House in February. He arrived after weeks of controversy and spoke for more than two hours flanked by four bodyguards. Earlier in the evening a protest rally by about 500 was cut short by the cold, and pickets marched outside the building. His talk turned out to be less inflammatory than most expected.

Farrakhan was invited by the Black Students Union. The Faculty Senate voted unanimously to denounce his

MICHAEL KENITZ/UW NEWS SERVICE



This three-month-old tiger was treated for pneumonia under the care of James K. Roush of our School of Veterinary Medicine. The female cub belongs to the Hawthorne Circus of Richmond, Illinois, and recovered nicely.

frequently proclaimed anti-Semitic views but to support his right to be heard. His audience of about 5,600 was composed largely of whites, newspaper reports said. To them, he issued a challenge to admit their racism. "This vessel I live in is the house I came here in. Don't confuse the house with the tenant. If you don't like the way the house looks you may never knock on the door to find out who lives there."

Following his appearance, Chancellor Shalala told a Jewish audience that she was "repelled" by some of his remarks. But she defended the decision to bring him to campus as consistent with the principle of free speech. She suggested that whites consider the view of the black students who invited Farrakhan to speak. "Their perspective is quite different. They hear a message from Farrakhan that gives them pride."

Update

The Forensic Speaking Team took fourth place in a national contest in Eau Claire, Wisconsin, in February, thus again making it one of the tops in the nation.



ATTENTION ALL ROWERS! The women's crew team is researching the early history of the sport on campus, prior to 1972. Records show that women rowed as early as 1895, and that there were some heated sorority challenges in 1933-34. If you could help fill in the blanks, contact: Sue Ela, Head Coach, Women's Athletics, 1440 Monroe Street, Madison, WI 53711 (608) 263-5580. And if you'd like to be part of current history, don't miss the Women's National Collegiate Rowing Championship on Madison's Lake Wingra on June 3-4. Yale, Brown, and UCLA will all be competing; the best spectating is from Vilas Park Beach.

100 YEARS

A centennial celebration of the colleges of agriculture, letters & science, engineering, and law.

by Tom Murphy '49

This year on The Hill we have four centennials. More correctly, they're centennials-and-then-some. It was in 1889 that Thomas C. Chamberlin, who was brand new here as president, told the Board of Regents that since we were chartered as a university and doing the work of a university we should tie up any loose ends that could dispute that title. This meant we had to be able to say we had "a college of liberal arts . . . and several professional schools," as *university* is defined.

The regents agreed and so did the state legislature. So without a lot of fuss a law was changed. It established the colleges of agriculture, of engineering, of law, and of letters and science.

Practically speaking, though, this was a technicality. All four of these divisions had already been functioning—maybe thriving—for at least two decades, turning out graduates. Agriculture, engineering (and mining), and law had been departments. The College of L&S was formed

by combining the College of Arts and the College of Letters.

Three centennials will be celebrated with suitable academic hijinks. Agriculture had seminars and receptions in April, complete with a slide film, and there'll be a book by campus historian John W. Jenkins. Engineering has been bringing in speakers from around the world for a series of lectures. L&S has done the same thing; some of its emeriti will come back to teach courses for freshmen and sophomores next semester. And the L&S faculty and staff had themselves a Centennial Ball.

On the other hand, the Law School (it changed its name in 1909), has chosen to let this birthday go unheralded. Says Assistant Dean Ed Reisner, "We count from our first classes. They were held in 1868, so we had our centennial in 1968, and we had a fairly big observance then." So you, Counselor, will have to wait until 2068 for a really big blast. But let us all say Happy Hundredth to the *titles* L&S, Engineering, Agriculture, and Law, and Happy Hundred-Years-Plus to the remarkable things you've done.



College of Agriculture and Life Sciences

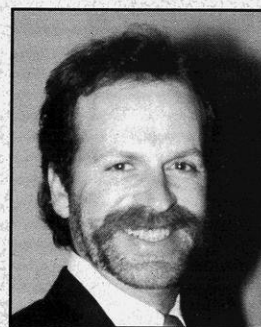
In 1903 people complained about cows blocking the intersection of University Avenue and Breese Terrace. As the drovers moved them between the campus barns and Camp Randall where they grazed, whole herds would stop to lick the ground. With its gentle slope, the intersection was one big year-round salt lick, the runoff from de-icing the streetcar tracks during the winter. They blamed the cattlejam on Stephen Moulton Babcock from the College of Agriculture, and they were right. Him and his experiments. He was a pioneer in researching animal nutrition, and the cows were rebelling against the salt-free diet he'd put them on.

In its early decades, friction between the college and the public was standard procedure. The lawyer, the physician were the possessors of mysterious knowledge, people to listen to respectfully. But the farmer felt no reverence for someone in a city classroom who told him he was wrong to use the methods his fathers had used. By the turn of the century the state had already begun to show its promise as a leader in dairying and as a power in agriculture. But it was not to fulfill that

promise until its farmers accepted the often revolutionary concepts of the agricultural faculty.

Most of us have no idea of the magnitude of that happening. Says campus historian John W. Jenkins, "The College of Agriculture changed the economic history of Wisconsin. With research and outreach, it was by far the most in-touch with state citizens of any division of the university."

Jenkins, who is doing the centennial book on the college's history, uses the word "crucial" frequently as he runs down a chronology. In 1891, for example, Professor Franklin King developed the prototype of the round silo: crucial. It meant an end to underground storage and rotting fodder. It permitted expanded herds. Three years later Henry L. Russell infuriated hundreds of farmers gathered in the Stock Pavilion. He had tested the college's herd of twenty-eight cows for tuberculosis, using a new method developed in Germany. Twenty-five showed positive despite being sleek and fat. Now, before the eyes of the farmers, he had them butchered. Autopsies proved the test to be accurate in every case, and proved the need for testing: crucial to the eventual curtailment of that disease in animals. That same year, 1894, Russell solved a major problem in the canning industry. He established the ideal cooking



MICHAEL WHITTY

Given the circumstances, Mike Whitty '74 probably never thought of any major except dairy science. There have been Whittys on the farm outside Reedsburg since 1846, homesteaders before Wisconsin was a state. Mike owns the place now; he bought it from his parents, Robert '42 and Virginia. Whitwood Farm has 500 acres and a little over 200 head of cattle, from which seventy-five Holsteins are milked. On campus he belonged to the Wisconsin Singers. (So did Robin Reiter '74, a music major, and they married right after graduation.) Mike then served on WAA's Board of Directors and as president of the Vacationland Alumni Club. He's enthused about the Wisconsin Rural Leadership Program, in many ways a far cry from operating the farm. It's a program for a select group of thirty young rural leaders to take them beyond parochial interests. It's a two-year course of seminars every other month on international marketing, social services, politics—important things happening to the world. Mike has made trips to Washington and even to Jamaica under the program. Robin teaches, and holds music clinics and gets compliments on her 4-H Swing Choir. They have seven-year-old twin girls and a five-year-old son. Mike figures it means the farm will stay with the Whittys.

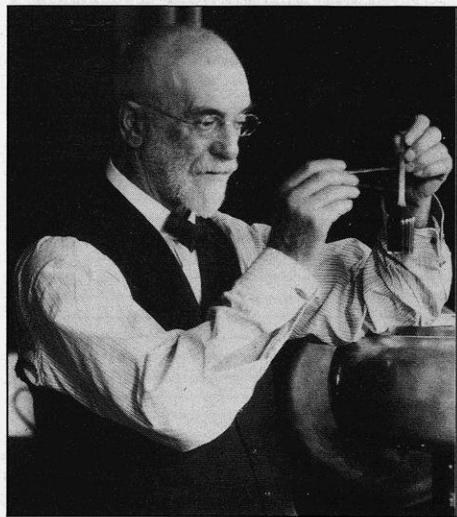


In 1910, UW students learned a wide range of agricultural skills—in this case, the particulars of braiding a horse's mane. Opposite: An 1879 etching of the UW illustrates the campus skyline. From left: "Old" Chadbourne, or Ladies, Hall (1871); South Dormitory (1855); University Hall (1869), later changed to Bascom in 1920; North Dormitory (1851); and old Science Hall, which was destroyed by fire and replaced with the current structure in 1888.

Below: According to Curti and Carstensen's history, the Babcock butterfat test gave birth to the dairy industry and "did more to make dairymen honest than the Bible itself." Right:

The Dairy Barn, shown here in 1900, was used by the dairy science department until 1954. Lower right: A corn picker demonstration was staged for the benefit of both male and female students around the time of World War I.

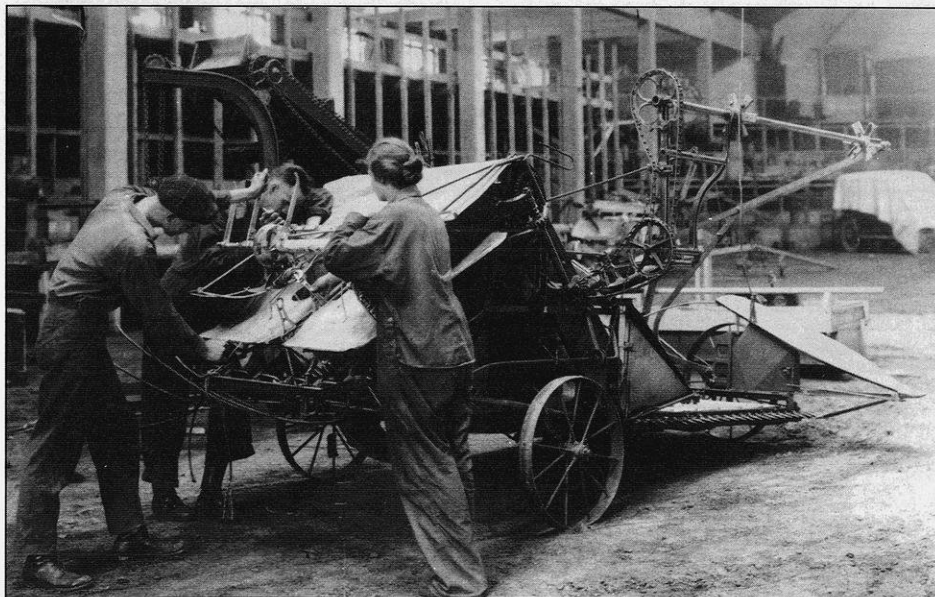
UW ARCHIVES



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time and temperature for sterilizing canned fruits and vegetables, putting an end to the unhappy alternatives of spoilage or overcooked mush.

Vitamins. Babcock took the cows off salt because "starving (them) on chemically balanced rations of oats and wheat pointed to the existence of some unknown factor necessary to growth and life," Curti and Carstensen wrote in their history, *The University of Wisconsin 1848-1925*. In 1907, using a colony of rats for research—in itself an innovative idea of E.V. McCollum's—"the missing element was at last brought to light. It proved to be a complex of chemical substances to which the name *vitamin* was given."

Jenkins moves down his list. "There was no way to measure the quality of milk before Babcock's 1890 test for butterfat." Crucial: "It gave birth to the dairy industry because it meant there could be recognized standards of quality. The cold-curing method for cheese was developed by Babcock and Russell in 1901. Without it there'd have been no Wisconsin cheese industry."

Crucial: the Wisconsin Alumni Research Foundation, which has poured more than \$188 million in grants into the university, can trace its origins to the College of Agriculture. Biochemist Henry Steenbock, a

member of its faculty, saw to the establishment of WARF in 1925. He had developed the process for the irradiation of foods to form vitamin D—a discovery which led to the elimination of rickets. WARF became the agent to maintain the patents on such achievements and to receive 85 percent of the royalties thereon through the years.

Crucial: Conrad Elvehjem applied niacine to human diet and eliminated pellagra. Lewis Jones pioneered in nur-

turing disease-resistant plants through a survival process. E.B. Fred, with Elizabeth McCoy, Ira Baldwin, and Perry Wilson, uncovered the secrets of nitrogen fixation in plants, one of the keys to the world's supply of protein. Hector DeLuca synthesized vitamin D.

The work goes on; the research, the discovery, the sharing of new knowledge as the plan was formed by the Morrill Act of Civil War days. A college to meet the everyday needs of the people of Wisconsin.

College of Letters & Science

At some time on your way to a degree every undergraduate is enrolled in L&S courses, no matter what the intended major. And if your degree was earned within the college, you're one of its nearly 118,000 living alumni—by far the largest share of the UW-Madison's total. A flock of statistics can be numbing, but there may be no better way to bring the college into focus. Says retiring L&S Dean E. David Cronon, who should be fairly blase about it after fifteen years, "Even I am impressed when I see in print its academic profile." He adds that ours is "considerably larger and more complex than counterpart liberal arts colleges, even those at similar large public universities."

About 42 percent of the UW-Madison faculty is in L&S. So is more than half the

student body, piling up about 65 percent of total student hours. There are divisions within divisions. Thirty-eight departments, for example; eighteen of which are the humanities, eleven are natural science and nine are social science. Then there are the instructional programs—twenty-one of them—such as American Institutions, English-as-a-Second-Language, Women's Studies. There are four professional schools: Journalism, Library, Music and Social Work.

You could major in sixty-five different subjects if you put your mind to it, and maybe, just for a change, you'd like to go abroad to take some of them. L&S is involved in twenty-six academic programs in twenty-nine cities in twenty countries on four continents. India. Thailand. Israel. Hungary. West Germany. Japan. Italy. You'll want to know the language, of course. The L&S profile shows forty-four being taught at any given time, but Dean Cronon adds that there are "another

twenty or so" offered on a rotating basis. You could start with Aramaic and work your way through Kazakh and Quecha and Urdu.

Dean Cronon likes to brag about our eight area-studies programs. Five of them are so good they've been designated as National Resource Centers, which means they rate federal funding. That's more than any other university can say. The five are African, East Asian, Ibero-American, South Asian and Southeast Asian studies, and the other three—also considered exemplary—are Middle East, Soviet and East European, and West European studies.

You like museums? L&S runs five of them. The Elvehjem Museum of Art is the best known, but there are also those for archaeology, botany, geology, and zoology. And libraries you probably never dreamed of. The profile shows fifteen that aren't part of the general library system—the Schwerdtfeger Meteorology



The men's performing group, Haresfoot, was 26 years old when it produced "Twinkle, Twinkle" in 1924. The group toured the Midwest and wowed audiences in Chicago, Indianapolis, and Peoria. Before the Union Theater was built in 1939, most of its Madison appearances were at the old Parkway Theater on the Square, at 10 West Mifflin.



LAWRENCE S. EAGLEBURGER

Mr. Eagleburger is our new deputy secretary of state, nominated by President Bush and confirmed in March by the Senate. To the layperson, the career that brought him to this honor is the stuff on which books are made. With history ('52) and political science degrees (MS '57) from here, he entered the Foreign Service. Assignments began at the U.S. Embassy in Honduras; then political analysis of Cuba for the Bureau of Intelligence Research. Next came the Embassy at Belgrade. By 1965 he was a special assistant to Dean Acheson, at that time the advisor to the president on France-NATO issues. Next, Eagleburger was made director of the staff of the secretary of state, and joined the staff of the National Security Council, working on European matters under Walter Rostow. In 1967 he became special assistant to the undersecretary, Nicholas Katzenbach. A year later, Henry Kissinger chose him as his executive assistant during the Nixon administration. Then came political advisory to NATO in Brussels. After a deputy assistant secretaryship in the Department of Defense, he went with Kissinger to the State Department to become, in 1975, deputy undersecretary of management.

President Carter appointed him Ambassador to Yugoslavia. President Reagan made him assistant secretary of state for European affairs.

After holding the State Department's third-ranking position—undersecretary for political affairs—Eagleburger left Washington in 1984 to become president of Kissinger Associates in New York.

Library, for example, and the Robinson Map and Air Photo Library. Then, there are ten more which are part of the system, but they're specialized, too—biology, chemistry, art, music.

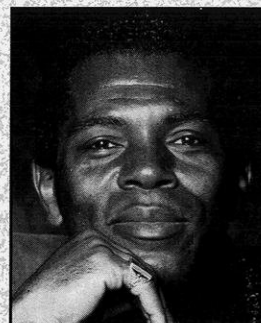
"We even have a couple of observatories, a planetarium, a garden, a greenhouse and," Dean Cronon says, "a colony of beetles to clean animal skeletons." They—and the languages and the libraries and the studies abroad—help contribute material to the impressive number of publications that L&S sponsors. Some are very specialized, very academic, but there are the likes of *Madison Review* (undergrad fiction and poetry) and *Docu-*

mentary History of the First Federal Elections in there with the *Luso-Brazilian Review* and the *Dictionary of Medieval Spanish*.

L&S was designed to be your threshold to learning. "We're content if L&S graduates leave the college with the humility that comes from knowing how little—rather than how much—one knows," the dean told an audience not long ago. "We will have succeeded in our mission if we have instilled in them a desire to continue their education for the rest of their lives. We want them to learn how to make the most of their talents, so they will thereafter be unwilling to settle for anything less."

UW ARCHIVES





ANDRE DESHIELDS

Right about now, Andre DeShields '70 should be opening in New York on stage in the title role of a new musical, *Ambassador Satch*. It's a Louis Armstrong bio, of course, a show he calls "a personal love project." This time he'll be off-Broadway, but he roamed a lot farther off this winter. At the University of Michigan, as a visiting professor, he directed the February production of *The Trojan Women*. To do this, DeShields left Broadway where he was appearing in the revival of *Ain't Misbehavin'*, winning raves just as he had in the original production a decade ago. (He thought he was taking a leave of absence for this sojourn to Ann Arbor, but New York audiences must have missed him more than he anticipated. Unexpectedly, *Ain't Misbehavin'* closed two weeks after he left.) Andre was an English major here, but it was showbiz from the day he left The Hill. He worked with Stuart Gordon's ('69) Organic Theater in Chicago, earning a drama critics award in *WARP*. He played Hud in the Broadway company of *Hair*. And there in 1975 he originated the title role in *The Wiz* and stayed with it when it went on tour. In 1978 came *Ain't Misbehavin'* for a couple of years (and an Emmy for the NBC-TV presentation), then he did a nightclub act in London. Last year, before the revival, he made his film debut in *Prison*, then back to Chicago and another Joseph Jefferson Award, this one for directing *The Colored Museum*. He is a busy wiz, indeed!



Above: The university library was originally housed in Music Hall, shown here in 1892. Although it could seat only 75, it was a place of dignified proportions, with stained glass windows and a special luxury—electric lights. The Roaring Twenties brought even more light to student life, and set fire to a fair number of campus antics. "Vodvil" shows (opposite) made every frosh a ham, and even graduation celebrations (top) turned zany, with horseless riders and court jesters parading around Bascom Hill.



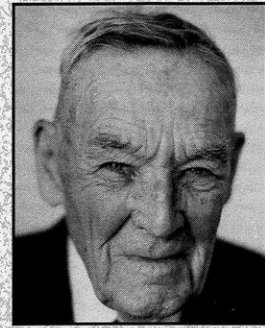
College of Engineering

From a look at its 1988 annual report just off the press, even those of us who don't speak Engineering can get an idea of the amazing scope of what happens in that college. It observes its centennial year not with a backward look at its history but by introducing us to the exciting present this history has created. In the report's introductory pages, Dean John Bollinger tells us that today, in harmony with fundamental academic activities, the college has 900 separately funded research projects budgeted at \$32 million. (A whopping 85 percent of that money comes from "sources outside university and state budgets," meaning industry and foundations and non-defense federal sources.) Several undertakings have made news nationally and on our pages—the new center for research on electrically charged plasmas in manufacturing; superconductivity with Aladdin, one of two

such storage rings in the nation; X-ray lithography, which promises computer chips one-tenth the size of those in use today.

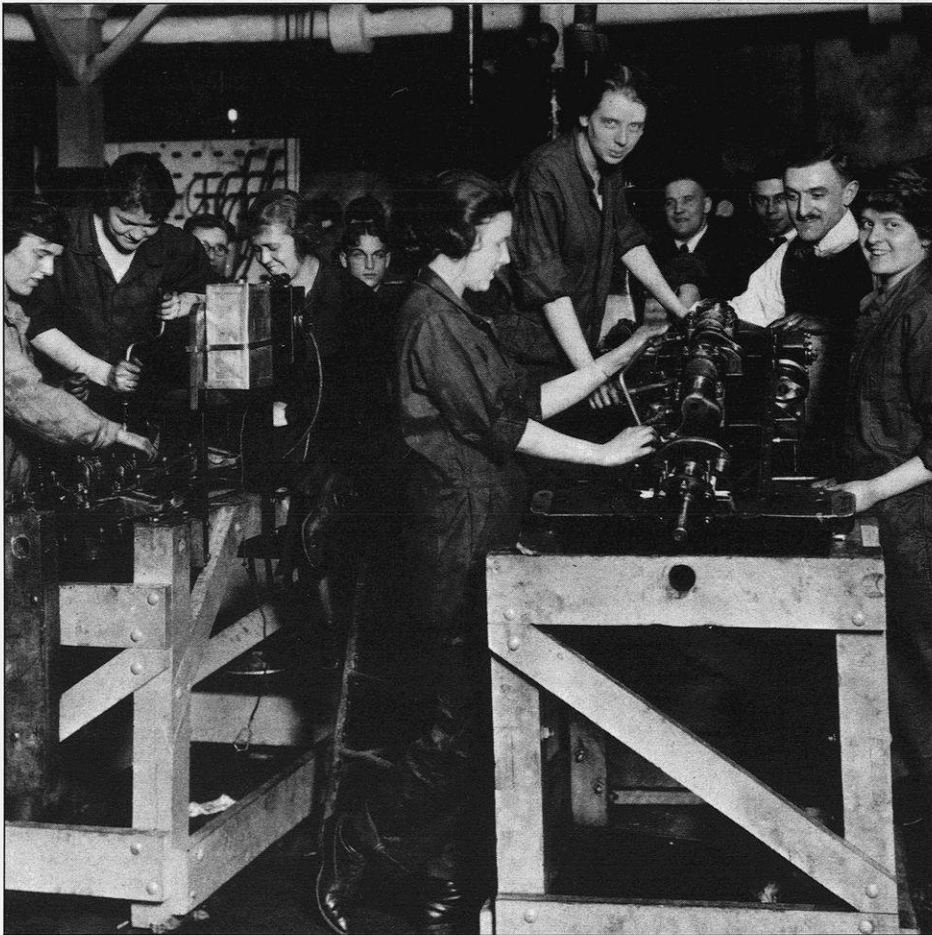
Modern technology, says the dean, is freed or limited by the quality of the materials available. So the National Academy of Science calls *materials science* the twenty-first century's hottest research field. Our program is twenty years old, a national leader, and it has projects as technically mind-boggling, to most of us, as micromachining, a method of manufacturing an array of sensors and optical components without drilling or welding; and the development of X-ray mirrors more capable than anything in biomedical use today, yet so small they are measured in atoms. More comprehensible to most of us, perhaps, are such projects as the development of Astrofuel, a rare form of helium harvested from the soil of the moon and capable, through fusion, of supplying the world's energy needs for centuries.

BRENT NICASTRO



BENJAMIN ELLIOTT

During the week ending February 17, Emeritus Professor Ben Elliott spent less time than usual in his campus office. That's the day he turned 100, and the social life got pretty heavy leading up to it. On the day itself, 400 Kiwanians threw him the last of several parties. A day later he headed for Florida to cool down. Normally, though, Elliott is at his desk in the mechanical engineering building several afternoons a week. If the sidewalks are dry, he walks roundtrip from his home in the Edgewood area; it helps him log the three daily miles he aims for. Until he retired in 1959 from a full academic load, he was on the faculty—University and/or Extension—for all but two years since graduation in 1913. He chaired the department in the '50s. The greatest engineering event of this century? The invention of the internal combustion engine, he told us. "It led to the machine-tool industry, tools and progress we never would have dreamed possible." Elliott co-wrote a book about the newfangled engine at a time when a book was extremely important. *The Gasoline Automobile* was used as a how-to manual by the Army during World War I. Later, he wrote three other books on the engine.





For the National Institute of Disability and Rehabilitation, faculty members are developing ways of altering computers to make access easier for the blind and those with cognitive impairments.

There's an optical sensing chip designed and built by twenty-three of our undergraduates. It has outperformed the commercial Japanese version and it's cheaper.

There is a method of ion implantation that can make tools—certain industrial drills, for example—last up to eighty times longer and drop in price from \$1000 to \$40.

Gold can comprise up to a third of the circuitry metals in electronic devices such as TV sets and computers. Until now there has been no practical way to recover it. Now there is; our engineers have devised a method with cupric acid. It's cheap, relatively safe, and reusable.

Faculty have developed techniques for fabricating a versatile class of ceramic membrane, which can be used in a number of ways as a filter. One result is already being demonstrated in the lab; it degrades PCB contaminants to environmentally safe end products.

The college has a Center for Space Automation and Robotics. Here current

STATE HISTORICAL SOCIETY OF WISCONSIN



Opposite: Not much is on record about the U.W. Girl's Mechanics Club—that is, outside of the fact that its members included Mary Collison (Fowler) Rennebohm '20 (left) and Helen (Turner) Witte '19 (center). William Littlewood (right), also owner and manager of the Electric and Mechanic Auto Service Station, served as instructor for one year. Top: During World War I, gas mask demonstrations were no doubt part of the required curriculum. Above: Ventilation hoods assured students' safety in this lab, dated 1928.

research ranges from more ways to repair what might go wrong as your family's shuttle makes a trip around Mars (that's astrobiotics) to designing plant growth units for a space garden (astroculture).

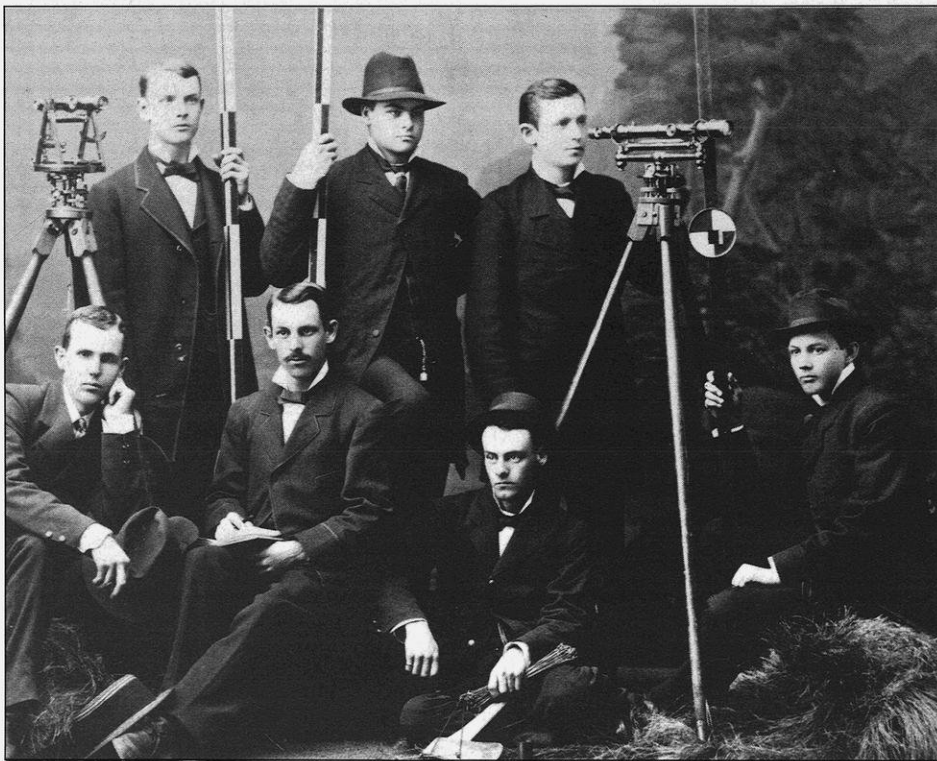
In the civil and environmental engineering departments they're studying the use of foundry waste for highway construction, and fly ash as landfill liner.

We offer a course in technical Japanese.

Much of what the college has done traditionally is interdisciplinary. One close tie has been with the School of Medicine. Today, with collaborators from the school, electrical and computer engineers are developing tactile sensors to replace lost sensation. Industrial engineers are working to provide "feelings" in prosthetic devices. Chemical engineers are developing artificial vessels that decrease the chance of clot formation.

The technological race is stimulating, promising a "brave new world" in a good sense. But it is a race. In his 1970 best-seller *Future Shock*, Alvin Toffler quoted one of the nation's leading education specialists, Dr. Robert Hilliard. "At the rate at which knowledge is growing, by the time the child born today graduates from

college, the amount of knowledge in the world will be four times as great. By the time that same child is fifty years old, it will be thirty-two times as great, and ninety-seven percent of everything known in the world will have been learned since the time he was born." The student at this and every university today fits into that time frame. A learning lag in the humanities or arts may cause little more than a cultural dip, but in the sciences—all of which are dependent to some degree on engineering—it *could* be disastrous, and must certainly be costly for those on the wrong side of the curve. Our College of Engineering seems determined to stay at the top, bringing with it its students and its scholarship.



In 1881, UW engineers fancied themselves to be dignified—and yes, permanent—fixtures in the American landscape. Note the photographer's studio props and the painted backdrop.



THELMA AND GERALD ESTRIN

If there were a game called Alumni Trivia, there'd be chances to make points with several facts about the Estrins. Married as undergrads, both were electrical engineering majors, both earned all three degrees here and in the same years: '48, '49, '51. In the mid-1950s, both worked on the team (headed by Gerald) which made Israel's first computer. Both are long-time faculty members at UCLA in computer science. He is the current department chair, she is newly returned to a professorship after directing engineering extension activities. As the first female engineering graduate to join the UCLA faculty (her research interest is computer methodology for biomedical systems), Thelma was something of a novelty. "Unfortunately," she says, she remains so today, "because women continue to be under-represented in the field." She's doing her best to correct that, and her visibility should help. She is the first female member of the Aerospace Corporation. She's a fellow of the IEEE and president of its Engineering in Medicine and Biology society; and a former director of the engineering computer and systems division of the National Science Foundation. She's an Achievement Award Winner of the Society of Women Engineers. In 1976, our own College of Engineering gave her its Distinguished Service Citation. And among the courses she's teaching is Women in Engineering and Leadership in Engineering.

Law School

This winter in New Orleans, at the convention of the Association of American Law Schools, ours was cited as a "model of (minority faculty) hiring which aims beyond tokenism." The honor comes from the Society of American Law Teachers and is triggered by the scheduled addition of four minority law faculty during the coming year. This will make seven out of fifty. That's a ratio that inspired a teacher at another school to tell our Assistant Dean Stephen Rocha that "for minority law teachers everywhere in America, the UW-Madison is the place to be these days."

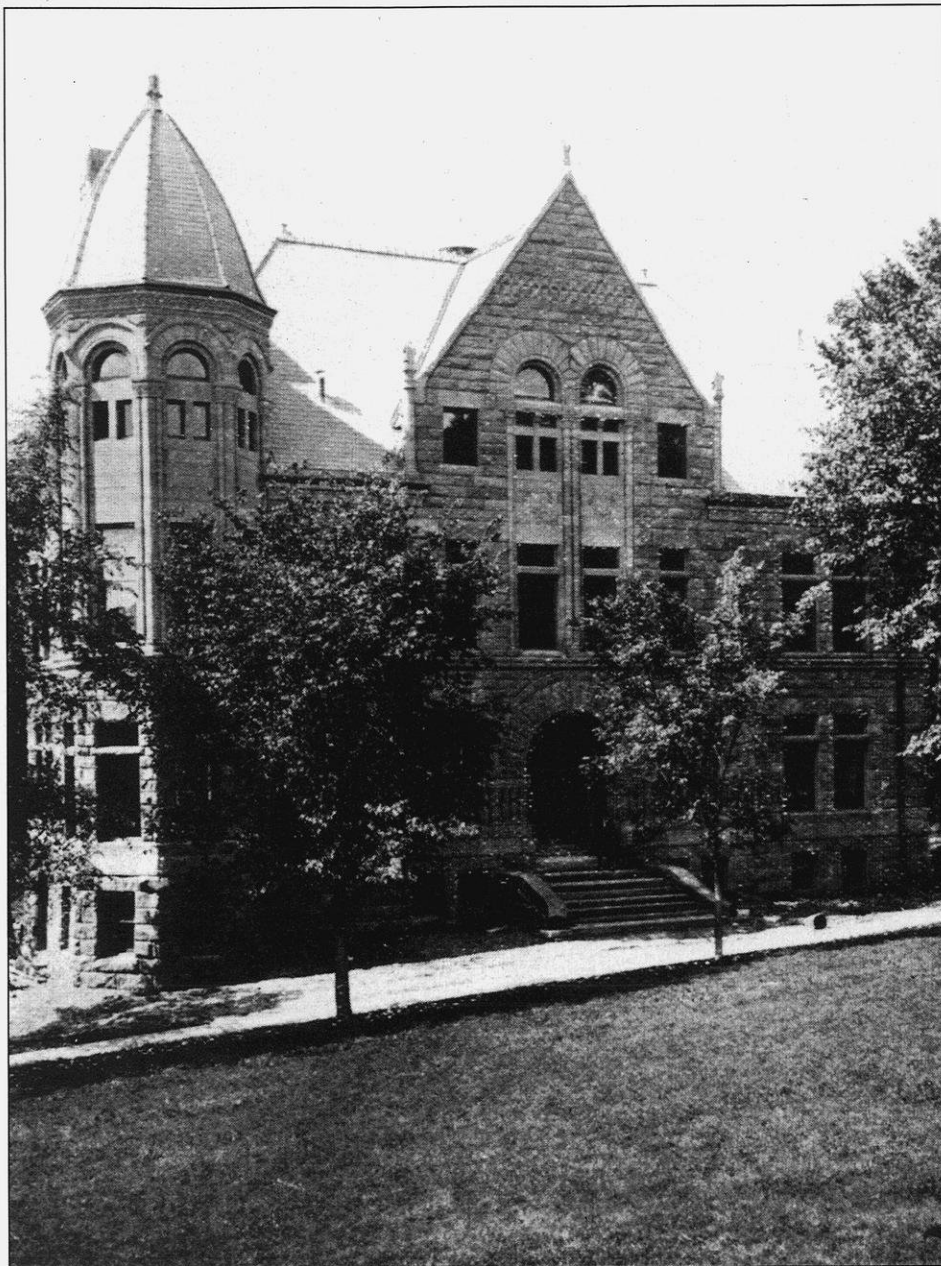
The tribute comes to the school for its twenty-year record of reaching out to

minorities. The students' *Legal Education Opportunities* program dates back to 1967. LEO is for blacks, American Indians, Chicanos, and Puerto Ricans.

It isn't an academic handout: a LEO student needs the same smarts, works as hard for a degree as does the majority student. But from the outset, LEO has been a program of caring. There is a week-long orientation before school opens, there are seminars on test-taking, tutoring in English, faculty-conducted review sessions, help in finding summer clerkships, career placement. Its record is probably a national model. Through December commencement it has graduated 280. During the early '80s, while general enrollment in the school dropped, the LEOs increased. Nationally, retention



In 1914, promising counselors leaned into their books at the UW's first Law Library. But as this photo shows, they never loosened their ties.



of law student minorities is something like 78 percent; ours has been in the 90s. Last fall's enrollment of thirty-one is the second-largest in the program's history.

Parenthetically: the LEO program "has graduated more (American Indian) attorneys than any other law school in the country," says the brochure of the Indigenous Law Students Association. Fifty-two have enrolled over the years of the program. In the past three years, of seventeen students, all have graduated.

Our postgraduate law program was started in 1973, designed to aid minorities toward a career in teaching. Its founder was Bascom Professor James E. Jones and it is named for a legendary black educator and attorney, William H. Hastie. The first Hastie Fellows, although working under the flexible load which makes the program so attractive, were responsible for nurturing new minority law students. That proved too successful; they had no time for anything else. The role of assist-

BRENT NICASTRO



JOANN JONES

Joann Jones is assistant corporation counsel for Sauk County, with an office in the Baraboo Court House. She and her husband Tom are also grandparents, having raised three of their own and a foster child. The surprise is that the husband and four kids happened *prior* to Joann's setting out to earn four academic degrees! In 1979 she enrolled in a double major of political science and social work. She got those bachelor's degrees in 1982 and a master's in social work a year later. She was elected Outstanding Returning Adult Student along the way.

Jones is a Winnebago, raised near Black River Falls, Wisconsin, a background which, she says, demanded she pursue a college education. In the early years of her marriage, moving around the country for Tom's work with Eastman Kodak Company, she discovered that the federal programs established to give urban Indians decent housing, employment, etc., were almost invariably administered by better-educated non-Indians.

The law degree in 1987 "seemed a natural development" for Joann. She wanted to help Indians take charge of Indian affairs. The Law School's LEO program made this possible. During her law education she served on the governing board of her tribe. She also found her efforts for the school's Legal Assistance for Institutionalized Persons particularly satisfying.

In her work for Sauk County (her supervisor in the two-person department is Donald Dumas '78), she is involved with some fourteen programs of social services for people of all ages and races.



ant dean was created. Now the Fellows concentrate on a major research and writing project with a faculty expert. This is the highest priority of their two years as a Hastie and it is the standard for completion of the LL.M. degree. They may take a course or two if it can be worked in, but the name of the game is the absorption of the world of legal teaching. There are colloquia to attend, faculty meetings, teaching styles to observe, visiting scholars to greet, student activities to become involved in. The Hastie Fellow comes away with polish, versed in the best teaching techniques with which to deliver the knowledge acquired along the way,

comfortable—as no neophyte teacher would ordinarily be—in the world of academe.

The Law School decided to observe its centennial twenty years ago, the anniversary of the opening of the first classes above a saloon on Main Street. At that time, and in writings since, faculty and administrators trace the many ways in which the history of the school has reflected change to meet the challenges of the times. It would seem that one of its most profound accomplishments is in its leadership role toward providing a deserved education for our minority students.

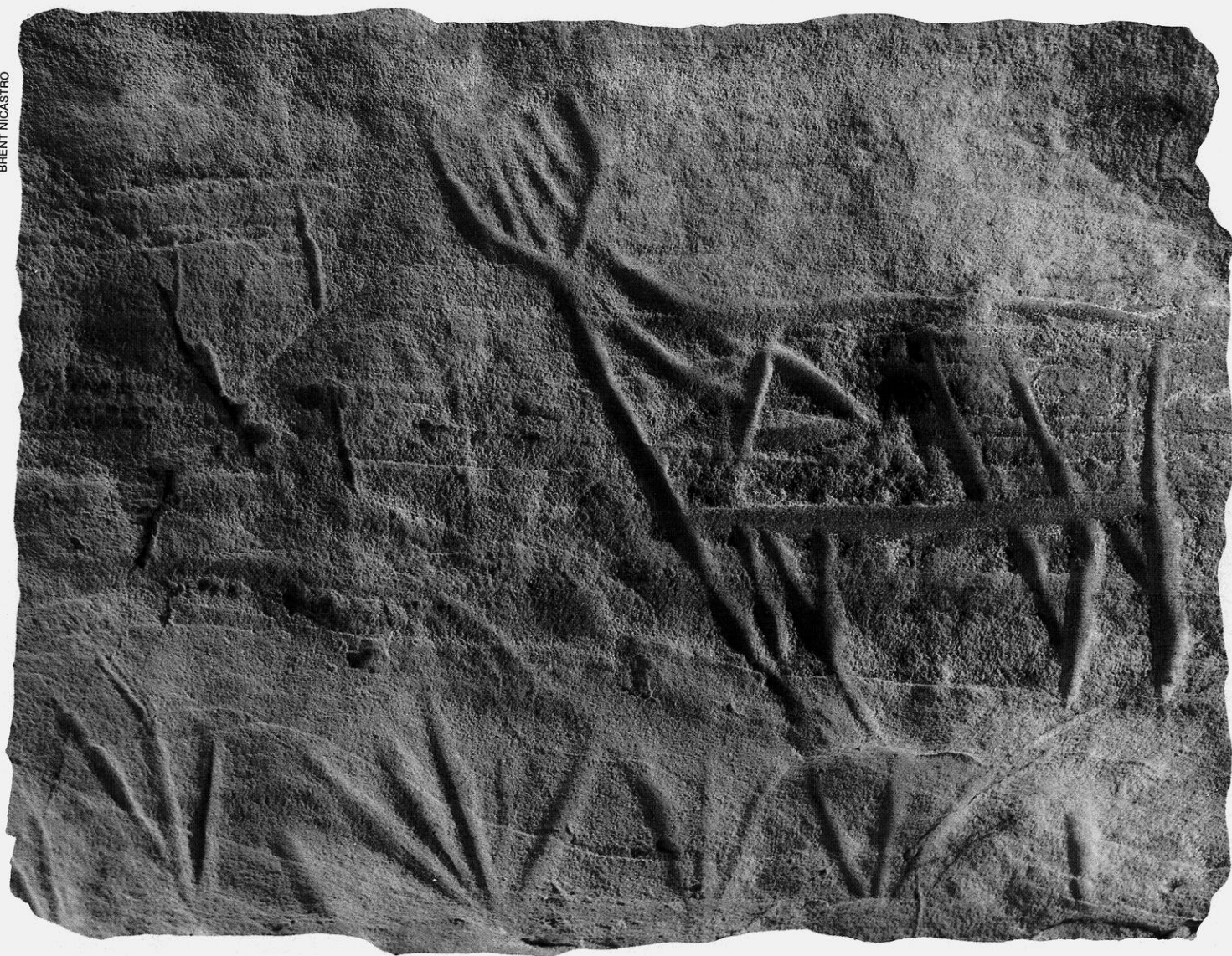
Alumni profiles continue on page 36.

One campus survey claims that the first law classes were held in 1868 in the state capitol. We tend to favor other historic sources, however, which suggest that the first students to receive their law education in Madison did so above a saloon on Main Street. In 1893, the Law Building (opposite) was completed on Bascom Hill; it was razed seventy years later for the construction of the current law building. About the only things that remain from the grand old original are the cornerstone and one of the two gargoyles that once perched above the entrance. Both are displayed outside of the Law School's entryway, still located on Bascom Hill. Above: The school had its very own seniors football team in 1894. It's not clear whether they played other UW student teams or other law schools, but from the looks of it, they definitely knew their turf.



RANDOLPH STONE

In Chicago, Randolph Stone '75 is Cook County Public Defender. This puts him—just thirteen years out of our Law School—in charge of 438 lawyers and 187 support staff in the nation's largest unified court system. He is the first black to hold the post. Stone was sworn in a year ago, coming back from Washington, D.C. where he'd been Deputy Public Defender for three years. Before that there had been private practice in Chicago and, from 1977 to 1980, a clinical fellowship at the University of Chicago Law School, training the city's indigents on how to survive in the system. He called these years "fulfilling," and he uses the word again when he talks about the satisfactions of his present role. "I think being a public defender is one of the most pure ways of practicing law," he says. "I just think it's an honor." Stone did his undergraduate work at UW-Milwaukee and came here with financial support from the Law School's LEO program. He recalls the enjoyment of working as a TA in legal writing under former professor Steven Cohen. Stone keeps his hand in, academically speaking: he heads for Boston several times a year to serve on Harvard Law School's trial advocacy workshop. In April, the graduating seniors in our LEO program named him their *Alumnus of the Year*.



ROCKS OF AGES

by Jeff Iseminger

Along the lonely roads of south-central Wisconsin, David Lowe has discovered a cultural treasure. It's hidden along the sandstone formations of Dane and Iowa counties, inside shallow caves and underneath rugged outcroppings. It includes hundreds of petroglyphs and pictographs and it's a direct link to the area's original residents.

"Until quite recently we were under the impression that we didn't have much rock art in Wisconsin," says Robert Birmingham, staff archaeologist at the Wisconsin State Historical Society. "Because of David Lowe's work, we've completely changed our perceptions."

In just three years, the thirty-three-year-old UW senior in anthropology has doubled the number of documented rock art sites in Wisconsin. His survey plot of 200 square miles holds the greatest concentration of sites in the Midwest outside of the Boundary Waters Canoe Area in northern Minnesota. All the more amazing is the fact that Lowe's first discovery, the one that changed the course of his academic and professional life, was undoubtedly his finest.

He calls the place Hole-in-the-Wall No. 1, and to get there he has to slide down the side of a ravine, grabbing bushes and tree limbs like a Tarzan of the North. Then, sidestepping around a sandstone ledge, he enters a narrow cave lit by a single slice of sunlight.

"I love that buck!" he says quietly to himself before a thousand-year-old deer carved on the wall. "If anything ever happened to him, I don't know what I'd do."

The primitive but striking figure is one of several carved inside this enclosure, well-protected from rain and snow. It is ten inches long with six-point antlers, an example of "x-ray art" that shows both rear haunches and, inside the chest, a line tipped with a triangular point. Lowe speculates that this "heart line" represents the artist's respect for the animal's spirit or soul.

Such a discovery would be the highlight of any professional archaeologist's career. For this student, it was a spectacular bit of beginner's luck. To celebrate, he went home and opened a bottle of champagne. The next week, using his knowledge of geology and his map-reading savvy, he found another fine site and celebrated again with champagne. When his lucky streak continued into the third week, he decided he couldn't afford to keep celebrating. He had begun an archaeological odyssey that will probably last a lifetime.

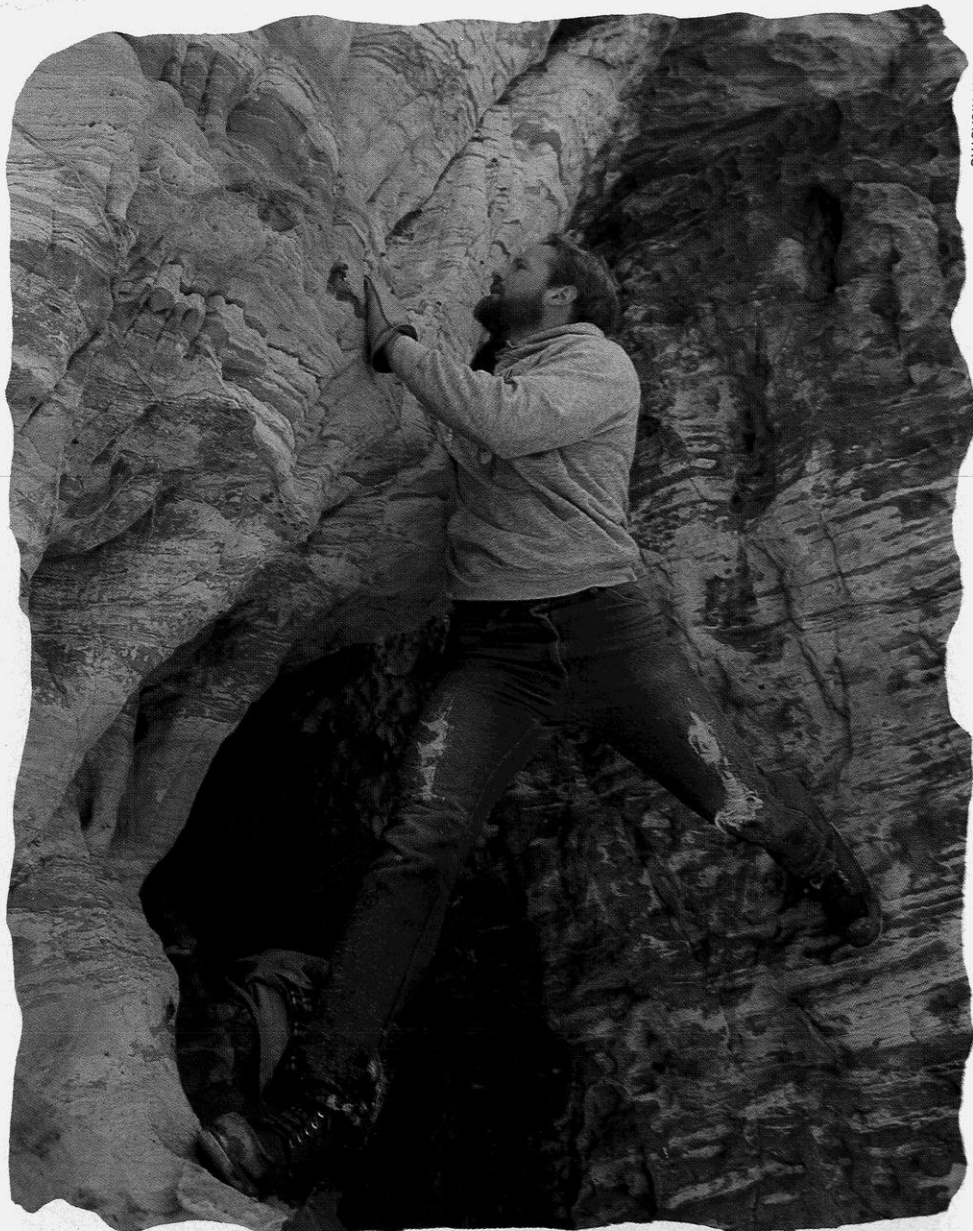
So far, Lowe has inspected more than five thousand rock exposures, going over each one inch by inch in his quest for petroglyphs (carvings) and pictographs (paintings). He's discovered forty-one rock art sites and noted a total of more than 150 other rock shelters, camp sites, burial mounds, and village sites. Most are on private land, so before tramping over

anybody's property Lowe requests permission from the owners.

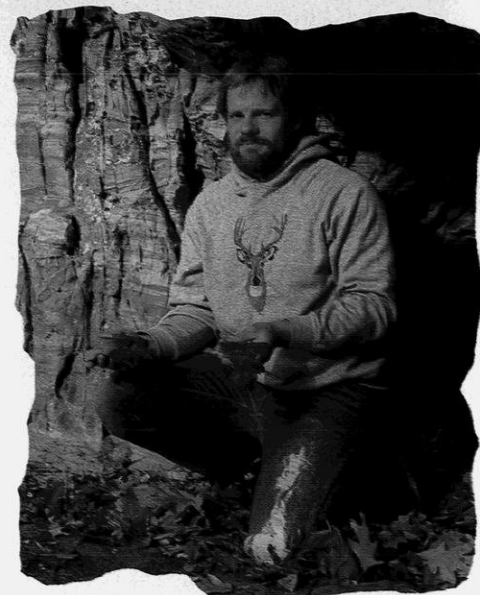
He's pulled off this fieldwork coup while maintaining a full course load, working part-time as a carpenter, and receiving no financial support "except for twenty dollars somebody gave me once for gas"—just a drop in the tank considering the 30,000 miles he's driven his red pickup in search of prehistoric sites.

"I love archaeology," he explains. "Rock art provides a small window into

UW Senior David Lowe has inspected some 5,000 rock exposures in southcentral Wisconsin. His finest art discovery was his first: the 1,000-year-old deer at "Hole-in-the-Wall #1" (opposite page). He's found 41 rock art sites in all and has collected dozens of pottery shards and stone tools.



BRENT NICASTRO



BRENT NICASTRO



Lowe found this unique, eight-inch-high pictograph/petroglyph combination at Rainbow Cave. A man drawn in black pigment is hunched over with his arms raised, as if he were carrying the "firewood" carved above him.

the lives of the people who preceded us in southcentral Wisconsin," (see sidebar).

Though much of the art he's discovered is complex and difficult to interpret, the buck's appearance in the cave at Hole-in-the-Wall No. 1 isn't surprising. Lowe says the carver belonged to a culture that grounded its survival on the meat, fat, hide, bones, and sinew of deer. The artist etched the buck on sandstone to honor the animal's spirit and insure successful hunting. Some present-day American Indians still believe that the absence of

such rituals will bring the scourge that hunters dread: tracks leading nowhere.

The number of recorded sites in Wisconsin suggests a network of hunting camps. Deer were drawn to the thick cover and water abundant in the drainages. Humans, in turn, were drawn here in their search for game, camping under overhangs sometimes large enough for fifty families. A fire could make a small shelter downright toasty on a winter day, especially if it had a southern exposure and protection from the northwest wind.

But how is it that an undergrad like Lowe, instead of a professional, has opened up this archaeological vista into the prehistoric past? Quite simply, it is because North American archaeologists have largely ignored rock art.

For one thing, it is notoriously difficult to explain. You can analyze the shape and composition of a stone tool and look at its working edges under a microscope to detect how it was used, but, as Lowe puts it, "It's hard to decipher the meaning of a thousand-year-old drawing. It's mostly speculation." Finding rock art is no easy matter, either, since outcrops pop up in rugged terrain. Surveying such areas is a treacherous challenge for professionals and amateurs alike: one slip on those slopes can break a limb.

**In just three years,
Lowe has doubled the number
of rock art sites in Wisconsin.**

To accompany Lowe on a field trip is to see a man as hot on the trail of rock art as a hound after a raccoon. He was a hurdler in college and high school (he grew up in Madison, and his parents are Beverly (Wick) '52 and Charles "Chick" Lowe '49). He scrambles up hills as fast as he goes down, leaving anyone foolish enough to think this would be a leisurely stroll huffing and puffing in his wake.

"It's great being in the woods," he says. "I really enjoy the wildlife I see, deer, coyotes, and wild turkeys. And when it starts to snow, and you're inside a cave or under an overhang, it gets so *quiet*." He prefers winter for his fieldwork because there are no ticks, Lyme disease, deer flies, mosquitoes, poison ivy or heat. Besides, winter strips away the leafy camouflage that often hides outcrops in summer.

Lowe knows where to look: he can take a topographic map and put his finger on the spots where shelters and caves are almost sure to turn up. He looks for areas of a particular elevation, steepness, and bedrock type. For instance, a layer of erosion-resistant iron in a sandstone formation will often create an overhang, since the softer, underlying sandstone will erode more easily.

Once at a place like Hole-in-the-Wall No. 1, you don't have to be an anthropologist to easily imagine the shadowy figures of prehistoric hunters stealthily

pursuing a buck. You can conjure up, as chills do a dance on your spine, the image of people dead for centuries feasting a few feet away, near the cave. In addition to the petroglyph of the buck are those of prairie grass, a pregnant doe, a third deer, and either an upside-down calumet (ceremonial pipe) or a feathered ax. Peering at that wall of art, it's hard to disagree with Lowe that the cave is, indeed, "a magical place." Never does the veil of time that separates us from our predecessors seem more transparent.

Rainbow Cave near Barneveld has a different charm. It displays much of the sandstone palette—red, pink, white, yellow, orange, and beige, and it offers another treasure: an eight-inch-high pictograph in an out-of-the-way crevasse of a man hunched over with his arms raised, as if he were carrying firewood. The artist used black pigment, probably with a charcoal base, and might have applied it with shredded bark or bundled grass.

Pictographs at other sites have been found in blue-black, orange, and maroon, and they depict hawks, humans, diamond shapes, elks and elk tracks, wild turkey tracks, and seemingly random (meaning undecipherable) lines. "The diamond motif keeps popping up in a lot of places, so it must have held a special meaning," Lowe says.

The term "rock art" gives the mistaken impression of permanence. The same quality of sandstone that attracted prehistoric artists—carvability—marks its fate. At the mercy of wind and water and the growth of slightly acidic lichens, sandstone gradually crumbles. Some of the rock art Lowe has found has already been partially eroded by natural forces. Time erases even deep incisions.

"That's why I'm a preservationist," he says. He does not reveal any exact locations except to respective landowners and to the State Historical Society—in records not open to the general public. He preserves by educating landowners about the priceless heritage of aboriginal art and how to help protect it from development and vandalism. And he preserves by tracing and photographing the art he finds as a permanent record.

"I don't want to see a plaque erected to mark the spot where they made a quarry out of a rock shelter that once housed forty human beings," he says. To Lowe, keeping rock art intact and undefaced is like putting it into a cultural bank that

future generations can draw on for enjoyment and interpretation.

He has guessed at the age of some art based on such stylistic features as the buck's heart-line, but he can't be sure of

To accompany Lowe on a field trip is to see a man as hot on the trail of rock art as a hound after a raccoon.

his guesses until he excavates shelter and cave floors to search for carving tools or pigments that can be cross-dated with the art. That won't be anytime soon. "I don't like to excavate for excavation's sake," he says. "You should have certain goals in mind because when you excavate, you destroy."

That shows exquisite restraint, since Lowe has what professionals call "artifact magnetism." When he collects artifacts in plowed fields, for instance, they almost seem to rise out of the earth into his hands. Even on a survey with professional archaeologists he's often the one who comes up with the most material. (His great-grandfather could also commune with the subterranean: he could dowse for water and find a well).

Even without major excavations Lowe has turned the heads of professionals. A

1987 special edition of *Wisconsin Archaeologist* featured his survey results as well as other people's work. Last fall he presented a paper at the Midwestern Archaeologists Conference at the University of Illinois. He plans to expand his survey into other parts of unglaciated Wisconsin. Both he and state archaeologist Birmingham think the rock art sites known today are just the beginning of an even greater find. "I expect hundreds and hundreds of sites to be identified in the next few years," says Birmingham. And a great number of them will no doubt be discovered by David Lowe.

This promising anthropologist took a looping path to get into the field: he attended UW-Platteville for three semesters, where he worked on his first excavation at a prehistoric village site near Potosi; then he spent almost eight years in northern California as a construction worker, logger, sawmill operator, and moneymaking gold diver. He returned to Wisconsin in 1984 and, after a brief stint in logging and construction, he took up archaeology with a vengeance. He'll receive his bachelor's degree in May, 1990, and then enroll in graduate school.

"I get satisfaction from making a difference," he says. Especially when his prospecting reveals a mother lode of cultural gold. □

TIMELINE

Most scholars believe that humans first crossed a land bridge from Siberia to Alaska about 16,000–14,000 B.C., possibly reaching southern Wisconsin by 10,000 B.C. These millennia of human habitation are divided into three periods by archaeologists:

Paleo: 10,000 B.C. to 6,500 B.C.

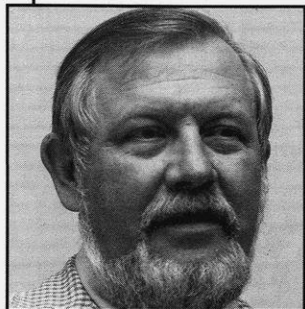
Archaic: 6,500 B.C. to 600 B.C.

Woodland: 600 B.C. to arrival of Europeans

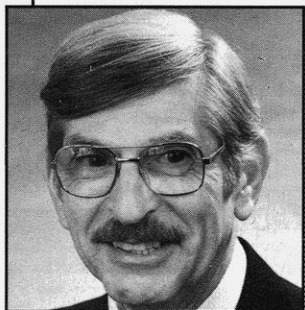
The rock art discovered by David Lowe was probably created in the Late Woodland period, from 800 A.D. to the arrival of white settlers. Late Woodland, like other periods, is designated by artifacts because such cultural features as dress and language are nearly impossible to determine.

People living in Wisconsin a thousand years ago during Late Woodland times started making pottery with thinner walls than that of earlier Woodland people, and used special styles of ceramic decoration. They made arrow points, not just spear points (the bow-and-arrow appeared around 500 A.D.), and built effigy mounds in the shape of animals, not simply circles as before. They continued to hunt game and gather wild food for survival, though some began to plant corn.

SIDELINES



When the American Bowling Congress admitted honorees to its Hall of Fame in March, one of them was **Bruce Pluckhahn '49** of Clayton, Missouri. He's curator of the ABC's museum and was its PR manager for twenty years.



Asher Pacht PhD '53, clinical professor of psychology here, received an award from the American Psychological Association for outstanding contributions to public service.

TWENTIES THIRTIES

Otto A. Andreae '38, Sturgeon Bay, co-founder of Thermo-Tron-X, was elected to Chairman of the Board. Mr. Andreae is on WAA's Board of Directors.

Four U.W. alumni were honored by the College of Agricultural and Life Sciences in April as part of the college's centennial celebration. These Honorary Recognition Award recipients were: **Russell O'Harrow '38**, retired dairy farmer from Oconto Falls and former University Board of Regents member; **Robert Bjorklund '49**, the farm editor of the *Wisconsin State Journal*; **Gail Janssen BA '60, BS '62**, banker and former agricultural equipment engineer from Kewaunee; and **Monroe Miller '68**, a golf course superintendent from the Madison area.

FORTIES-FIFTIES

Virginia Bryant Weiler '40, '43, Hales Corners, who founded the Milwaukee Modern Dance Council and is chairman of the dance program at Alverno College there, received this year's top award from the Wisconsin Dance Council.

Rodney T. Hood MA '47, PhD '50, professor of math at Franklin (Indiana) College, received a certificate of meritorious service from the Mathematical Association of America.

Donald Griffin '48, of Bartlesville, Oklahoma, was named a Fellow of the American Institute of Chemical Engineers, their highest honor. He holds six patents and has authored over twenty technical articles.

Milton Sunde MS '49, PhD '50, emeritus professor of poultry science here, has been named a vice-president of the World Poultry Science Association. He'll serve a four-year term.

Robert Shafer '50, '53, director of English education at Arizona State University, Tempe, visited the People's Republic of China for six weeks to teach linguistics.

Robert W. Edlund '53, MD '56 left La Crosse for Tokyo briefly in January. Chairman of the department of radiation oncology at Gundersen

Clinic, he was the keynote speaker at the first annual meeting of the Japanese Society for Therapeutic Radiology and Oncology.

Daniel Van Ert '56, received one of eleven U.S. Air Force Space Division Excellence Awards for his work in an investigation that examined causes for a Titan 34D-3 launch failure. Mr. Van Ert works for Aerospace Corporation, a Los Angeles-based non-profit company that provides technical, scientific, and engineering services for the Air Force.

In St. Louis, **Michael Litwack '59** has completed his second year as campaign chair for the Jewish Federation; was elected to the board of the National Council of Jewish Federations; and was selected as a participant in a citywide program, Leadership St. Louis.

After enjoying a successful show at the Art Institute in Chicago last fall, **Helen Rumpel '59**, took her *Images & Icons* creative stitchery and painting show to Moscow in December. She has owned the Rumpel Fine Art Studio in Santa Fe, New Mexico, since 1960, and is gaining an international reputation for her Byzantine-like artwork.

SIXTIES SEVENTIES

University of California-Santa Cruz Professor **Patrick E. Mantey MS '61**, is the first appointee to its Jack Baskin Chair in Computer Engineering. Mantey was with IBM from 1967-1984.

Barbara Dahl '62, University of Illinois Urbana-Champaign Cooperative Extension Service home economics advisor, recently received the Home Economics Peer Award and the Extension Award for innovative programming. She helped create the Food Resource Directory, the Food Resource Council, and the first All-Lake County Food Drive to combat the hunger problem in Lake County, Illinois.

Donald B. Beidler '62, a doctor of dentistry, of Grand Forks, North Dakota, retired as a colonel in the U.S. Air Force after twenty-two years. At the retirement ceremony he was presented with the Legion of Merit. He has joined the University of North Dakota Medical School as director of its Center for Rural Health.

Wittenberg University President **William A. Kinnison MS '63**, of Springfield, Ohio, was elected to the Alumni Council of the Institute for Educational Management at Harvard University in February.

San W. Orr Jr. '63, '66, a Wausau businessman and state and community volunteer, was given the School of Business Distinguished Alumnus Award in March. Besides his many local interests he's on the school's Board of Visitors, is a trustee of UW Hospital and Clinics, and serves on WAA's Board of Directors.

In April, **Richard S. Nicholson PhD '64**, assistant director for math and physical sciences at the National Science Foundation in Washington, was named executive director of the American Association for the Advancement of Science.

Barbara Leigh '65, '67, '74, co-founder of Milwaukee's Friends Mime Theatre, was named one of *Milwaukee* magazine's "89 Most Interesting People in Town."

After an absence of several years, **Mitzi Duxbury '66, '70, '72**, has rejoined our nursing faculty. She has been dean of the College of Nursing at the University of Illinois.

Glen Watts '66, '69, left his position as UW-Madison budget chief in March to become vice president for campus finance and management at the State University of New York at Stony Brook.

John W. Rowe '67, '70, Augusta, Maine, president and CEO of Central Maine Power Company, is now also a CEO and director of the New England Electric System board of directors.

Leonard Shapiro '68 is a contributing writer to the book *Tough Stuff—The Man in the Middle*. It's an account of Sam Huff's life as a linebacker for the New York Giants and the Washington Redskins in the '60s. Shapiro is sports editor of *The Washington Post*.

Correction

We are happy to correct the erroneous report, in our March issue, of the death of **Lillian Anderegg Cummings '45**. She is alive and well in Porterville, California. A family member unintentionally gave incorrect information to the Registrar's Office.

Roger D. Freuchte PhD'69, with GM since then, now heads a new system which integrates multiple technologies. The Freuchtes live in Rochester Hills, Michigan.

Michael D. Fullwood '69, with New York's Witco Corporation since 1987, has been elected its corporate vice-president and treasurer.

Bank One Milwaukee promoted Michael R. Isermann '69 to an executive vice-presidency.

William James Scanlon '69 has been elected to a partnership in the Chicago law firm of Fitch, Even, Tabin & Flannery. He and his wife Eileen (McGlynn '69) and their three children live in Park Ridge.

Indiana University Press has published *The Free University of Berlin: A Political History* by James F. Tent MA'69, PhD'73. The publisher says the university "holds the sometimes painful distinction of being the world's most political educational institution."

William M. Baird PhD'71, professor of medical chemistry at Purdue University and director of the Purdue Cancer Center, was appointed to a named professorship.

William R. Jordan III MA'71, PhD'74, public education officer at the UW Arboretum, was elected to the board of The Society for Ecological Restoration and Management. He is also the editor of *Restoration and Management Notes*.

Nancy Kaufer '71, '78, is the new Law Related Education director of the Massachusetts Bar Association in Boston. As director she will be working on enhancing public appreciation of the law and teaching children about the legal system.

Susie Wilson Isaksen '72, most recently the editor of the *North-country Journal* in Poynette, is back on campus as director of communications for the Sea Grant Institute. Among her projects will be radio's *Earthwatch* program, heard on over 100 stations across the country.

Jonathan P. Wolman '72, became the new bureau chief of the Associated Press Washington bureau in March. He started at AP in 1973 and was the assistant bureau chief in Washington for the past five years. His father is J. Martin Wolman, former publisher of the *Wisconsin State Journal*.

The new vice president for academic affairs at Northwestern College in Orange City, Iowa, is Robert Zweir MS'73, PhD'77. Zweir studies relationships between religion and politics and has written *Born Again Politics and Witnessing to Washington: Religious Interest Groups in American Politics*.

George Spilich '74, the psychology department chair at Washington College in Chestertown, Maryland, is spending the '88-'89 academic year as a Fulbright Research Fellow in Yugoslavia. He is working with the Neurology Department at the University of Zagreb Hospital.

In Seattle, Steven J. Albright '74, is now dental director of its community clinic, the 45th Street Clinic. Dr. Steve is the immediate past president of the Wisconsin Alumni Club of Seattle.

Ellen Kanareo MA'75, PhD'79, is the new department chair of the speech, communication, and theatre department at Austin Peay State University in Clarksville, Tennessee.

Robert McDermott '75, '77, '81, has moved from Southern Illinois University, Carbondale, to Tampa, Florida, as a program coordinator in its department of community health.

Lois Schelle Roets MS'75 now heads the program for gifted and talented students in the Des Moines, Iowa, school system.

Bill Utter '78, assignment manager at WBBM-TV Channel 2 in Chicago, was featured in the October '88 issue of *Ford Times*. He was a varsity swimmer and the managing editor for the *Daily Cardinal*.

Another alum who made it into *Milwaukee* magazine's "89 Most Interesting People in Town" list is Susan Rhodes Mudd '79, '83, the Wisconsin state director for the environmental advocacy group Citizens for a Better Environment. (By the way, her spouse is Milwaukee's new mayor, John Norquist.)

EIGHTIES

Scott A. Heigel '80, was promoted to vice president of corporate finance in the San Francisco office of Prudential Capital Corporation.

Michael John McCabe '82 and Marilyn A. Feil '84, Madison, have left on two-year Peace Corps assignments to Mali, Africa. The Peace Corps says McCabe will be an agricultural educator for school teachers and Feil will work at the community level with individuals on food production.

Ann C. McGraff '84 has moved up to associate director of annual giving at Boston's Northeastern University. She joined that alumni development staff in 1986.

Michael P. Schmidt '87 is now a Naval Ensign, commissioned at recent graduation ceremonies from OCS in Newport, Rhode Island.

David G. Goodall '87, with New York City's IJB Schroder Bank & Trust Company since graduation, is now its assistant treasurer.

Kathleen Casey PhD'88, assistant professor in curriculum and instruction at Arizona State University, Tempe, won an outstanding dissertation of the year award from the American Educational Research Association in March. Dr. Casey has taught in Wisconsin, New York, England, and Nigeria.

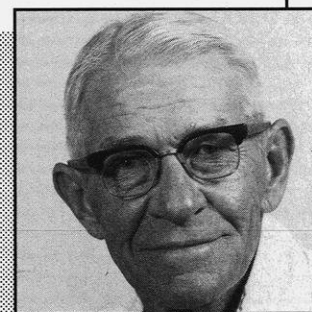
FACULTY & FRIENDS

Robert Najem MS'50, PhD'58, Outreach professor in liberal studies, won the 1988 Distinguished French Educator Award from the state chapter of the American Association of Teachers of French.

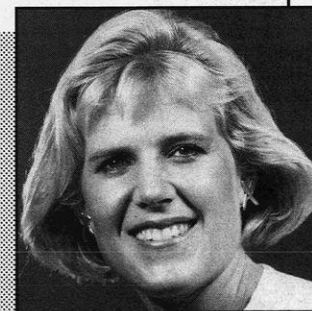
The university's chief legal counsel for the past decade, Michael A. Liethen '67, '72 is on "inter-agency loan" to the State Lottery Board for a year. Law professor Stuart G. Gullickson '50 takes over for Liethen as director of the Office of Legal Services.

Students Orienting Students is a new service designed to welcome freshmen to this big campus. SOS is coordinated by Ann Zanzig, who designed and headed the same sort of project at Madison's Edgewood College. Experienced students take the newcomers under their wings.

SIDELINES

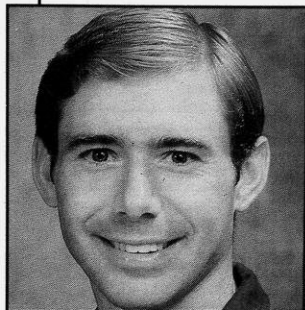


Virginia Tech University, Blacksburg, is naming the building which houses its biochemistry and nutrition department in honor of Ruben W. Engel '37, PhD'39. He created the department and is now an emeritus.

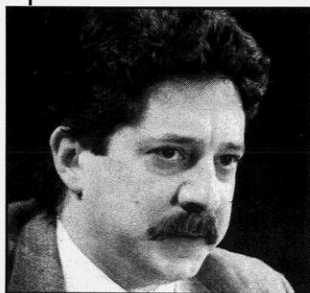


Susan L. Solie '79, '82 is an art director for J. Walter Thompson in New York, and was honored twice recently by the industry for print ads for Eastman Kodak and W.A. Taylor/Courvoisier.

SIDELINES



Brewster H. Shaw Jr. '68, '69, will command the spacecraft STS-28 sometime in July. It's a Department of Defense mission and NASA isn't telling the exact date of the launch or the mission's purpose yet. Shaw is an Air Force Colonel who became an astronaut in 1978, and he's logged 413 hours in space.



Paul R. Soglin '66, '72, who served three terms as Madison's mayor from 1973-79, ran again this spring and was elected.

The **Hilldale Awards**, given by the university annually to one faculty member from each of the four divisions, were announced in March. They went to: **Paul Carbone MD**, director of the Wisconsin Clinical Cancer Center, one of twenty nationally recognized in the nation and serving 2,000 patients a year; **George Mosse**, one of the world's experts on the cultural origins and development of the Third Reich; **R. Byron Bird PhD '50**, chemical engineering, credited with a revolution in his field with the 1960 publication of his study on transport phenomena; and **David Ward MS '62, PhD '63**, geography, now concentrating on the geographical consequences of public policy on poverty and ethnicity in the American city.

Brian J. Wilk '79, '87, since 1986 WAA's director of clubs and student relations, has left our staff to join the University's Office of Admissions. He'll fill a new post, working with alumni to recruit top minority students and other high school scholars.

Henry C. Pitot MD, director of our McArdle Laboratory for Cancer Research, has received the Annual National Division Award, the highest bestowed by the Wisconsin division of the American Cancer Society.

Big-Business Badgers

Last fall, *Business Week* magazine did its second annual Corporate Elite issue, a compilation of the chief executives of its "top 1,000" business firms. On the average, the 994 CEOs listed (some head more than one firm, thus the different count) are, the magazine reports, "middle-aged, middling rich, and resolutely middle-class in tastes." Ninety-eight of the CEOs were educated in Big Ten schools, seventeen here at UW-Madison. Here are the seventeen, and something about their firms, as reported by *Business Week*.

Carl T. Cori (L&S '59), SIGMA-ALDRICH, St. Louis. Research chemicals. Sales: \$305 mil. Profits: \$42 mil. Mkt. value: \$1.06 bil.

Howard J. Curler (CE '48), BEMIS, Minneapolis. Plastic wrap and packaging. Sales: \$930 mil. Profits: \$43 mil. Mkt. value: \$574 mil.

Peter H. Forster (EE '64), DPL, Dayton, Ohio. Utility. Sales: \$941

mil. Profits: \$101 mil. Mkt. value: \$1.06 bil.

Gerald L. Friedman (Bus Admin '58, Law '61), FGIC, New York. Municipal bond insurer. Sales: \$110 mil. Profits: \$61 mil. Mkt. value: \$489 mil.

David W. Grainger (EE '50), W.W. GRAINGER CO., Skokie, Ill. Electrical/mechanical items. Sales: \$1.3 bil. Profits: \$91 mil. Mkt. value: \$1.53 bil.

Joe L. Gremban (Bus Admin '48), SIERRA PACIFIC RESOURCES, Reno, Nevada. Holding company. Sales: \$361 mil. Profits: \$43 mil. Mkt. value: \$549 mil.

John H. Hendee (MBA '56), FIRST WISCONSIN, Milwaukee. Banking. Sales: \$795 mil. Loss: \$49 mil. Mkt. value: \$571 mil.

William G. Kuhns (Econ '46, Law '49), GENERAL PUBLIC UTILITIES, Parsippany, N.J. Utility. Sales: \$2.7 bil. Profits: \$290 mil. Mkt. value: \$2.15 bil.

Frederick J. Mancheski (ME '48), ECHLIN, Branford, Connecticut. Auto parts. Sales: \$1.1 bil. Profits: \$46 mil. Mkt. value: \$918 mil.

John L. Muray (Acctg '50), UNIVERSAL FOODS, Milwaukee. Foods. Sales: \$711 mil. Profits: \$25 mil. Mkt. value: \$387 mil.

John Albert Puelicher (Bus '43), MARSHALL & ILSLEY, Milwaukee. Banking. Sales: \$558 mil. Profits: \$58 mil. Mkt. value: \$595 mil.

Burnell R. Roberts (Bus Admin '50), MEAD, Dayton, Ohio. Paper. Sales: \$4.2 bil. Profits: \$218 mil. Mkt. value: \$2.73 bil.

John Wm. Rowe (Hist. '67, Law '70), CENTRAL MAINE POWER, Augusta, Maine. Utility. Sales: \$598 mil. Profits: \$47 mil. Mkt. value: \$399 mil.

Linus M. Stoll (CE '47), WISCONSIN PUBLIC SERVICE, Green Bay. Utility. Sales: \$580 mil. Profits: \$53 mil. Mkt. value: \$493 mil.

James R. Underkofler (Law '50), WISCONSIN POWER & LIGHT, Madison. Utility. Sales: \$549 mil. Profits: \$59 mil. Mkt. value: \$609 mil.

Harvey A. Weinberg (Econ '59), HARTMARX, Chicago. Men's suit-maker. Sales: \$1.1 bil. Profits: \$41 mil. Mkt. value: \$459 mil.

David R. Whitwam (Econ '67), WHIRLPOOL, Benton Harbor, Michigan. Appliances. Sales: \$4.2 bil. Profits: \$181 mil. Mkt. value: \$1.77 bil.

The Best of the Ark

If you were on campus in the early 1980s, you may remember when the Ark Improvisational Repertory Theatre opened on Bassett Street in 1981. Since that time the Ark has provided unique opportunities for dozens of UW theatre students and Madison actors. Their stage experience has taken them far. Here's an update on some alumni who started at the Ark and made it to the big time.



Joan Cusack '85, New York City, went on to join the *Saturday Night Live* cast and is now working in film and theater. She was nominated for an Oscar this spring as Best Supporting Actress, *Working Girl*. Her movie credits also include *Sixteen Candles*, *Married to the Mob*, and *Broadcast News*. In 1987 she returned to Madison to direct *The Accidental Death of an Anarchist* at the Ark. This year she was in New York performing in *Brilliant Traces*, a play in which her character flees from her wedding, becomes an uninvited guest at a lonely cabin in Alaska, and falls in love with an oil rig worker. The February 20 issue of *The New Yorker* gave the production a thumbs-up.

Other UW and Ark alumni in the limelight include: **Joseph Fodor '85**, Brooklyn, New York, who left Madison (and the Ark) to pursue freelance writing. He now writes for *Omni* magazine in New York.

Evan Gore '85, Chicago, is currently working for The Second City comedy group.

Holly Wortell '84, Wilmette, appeared in the PBS film *Choices* and is also working with The Second City comedy group in Chicago.

CLUB EVENTS

FOUNDERS DAYS

May 7 Detroit. Speaker, Supreme Court Justice, Law School Professor Shirley Abrahamson. Contact: Doug Griese, W (313) 540-5755.

May 9 West Bend. Speaker, UW Basketball Coach Steve Yoder. Contact: Chet Nielsen, W (414) 334-2381.

May 9 Merrill. Speaker, UW Hockey Coach Jeff Sauer. Contact: Bill Johnston, W (715) 536-8351.

May 16 Washington, DC. Speaker, Chancellor Donna E. Shalala. Contact: Dana Hesse, W (202) 254-9336.

May 17 Manitowoc County, Shoto. Speaker, Vice Chancellor Jay Noren. Contact: Bill Kletzien, W (800) 242-5828.

May 18 New York City. Speaker, UW System President Kenneth Shaw. Contact: Kevin McKeon, H (718) 204-0798.

May 18 Fox Valley, Oshkosh. Speaker, Director of Bands Michael Leckrone. Contact: Julie Owens, W (414) 722-4012.

May 25 Milwaukee. Speakers, Dean of Students Mary Rouse and Director of the School of Journalism and Mass Communication James Hoyt. Contact: Tom Mellencamp, W (414) 274-2430.

BUCKY ON THE BAY

Join the Wisconsin Alumni Association at the UW-Madison/California-Berkeley football game Saturday, September 23, 1989.

A number of activities are planned in conjunction with the team's visit, beginning with a **Badger Huddle** at 11 a.m. prior to the 1 p.m. kickoff (no admission charge). The event is

scheduled at the Hearst Greek Theater, adjacent to the Cal-Berkeley stadium, and will feature greetings from WAA Executive Director Arlie Mucks and Athletic Director Ade Sponberg. Director of Bands Mike Leckrone and members of the UW Alumni Band, plus Bucky Badger and the UW Cheerleaders, will be on hand to lead the Wisconsin cheers. Members of the UW Alumni Band interested in playing at the Badger Huddle and the football game should contact the UW Band office, Room 4557 Humanities Building, Madison, WI 53706 (608) 263-1896.

The UW Alumni Club of San Francisco will sponsor an official "Brathaus" buffet at the Huddle. Advance reservations are required. Contact: Tom Gust, (415) 626-9030.

Alumni headquarters for the event will be at the San Francisco Hilton near Union Square. The Wisconsin hospitality room will be open from 6-8 p.m. on Friday and Saturday evenings. All alumni and friends are welcome to attend. There is no admission charge (cash bar).

The UW Foundation also invites members of its Bascom Hill Society to attend the Friday evening reception at the Hilton. A dinner for members is scheduled following the event.

For additional information, contact WAA at (608) 262-9521, or write the travel department at: 650 N. Lake Street, Madison, WI 53706-1476.

ATLANTA BIG 10 ALUMNI

The Atlanta Area Big 10 Alumni Club is planning its first social gathering on Kentucky Derby day, Saturday, May 6. The party will be held at the Sports Rock Cafe in Sandy Springs, Georgia, beginning at 3 p.m. Contact Jim or Judy Sauer at (404) 393-2468 for more information and for news of future Big 10 events in the Atlanta area.

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1989 BADGER FOOTBALL SCHEDULE

September 9-MIAMI (Florida) 1:05 p.m.

September 16-TOLEDO 1:05 p.m.
Band Day

September 23-At Cal-Berkeley 3:00 p.m.

September 30-Open Date

October 7-At Michigan 12:00 noon

October 14-IOWA 1:05 p.m.
Badger Blast X

October 21-NORTHWESTERN 1:05 p.m.
Homecoming & Parents' Day

October 28-At Illinois 1:05 p.m.

November 4-At Minnesota 7:00 p.m.

November 11-INDIANA 1:05 p.m.

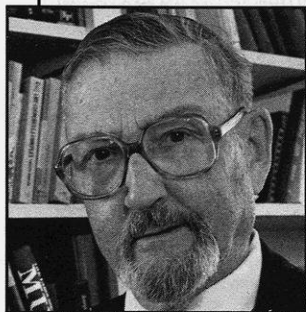
November 18-At Ohio State 12:30 p.m.

November 25-MICHIGAN STATE 1:05 p.m.
"W" Club Day

For more information
contact the UW Ticket Office, (608) 262-1440,
1440 Monroe Street, Madison, WI 53706.



BOOKMARKS



**Global Bioethics:
Building on the
Leopold Legacy**
Emeritus Professor Van
Rensselaer Potter,
Oncology and
Environmental Studies
MSU Press

Aldo Leopold held that we are not the conquerors of the land-community, we're its citizens. Potter extends this theory. His term "bioethics" urges that we combine two seemingly opposed attitudes, our efforts to prolong human life and the preservation of the ecosystem.

EARLY YEARS

Names are those on student records. Women's married names appear in parentheses. This list is limited to those whose death has been confirmed as occurring no more than two years ago.

Mussehl, Frank Edward '13, '15, Lincoln, Nebraska, in 1987.
Kammlade, Wm. G. '15, Carbon-dale, Illinois, in December.
Macklem, Jane C. (Crozier) '15, Boulder, Colorado, in December.
Clarke, Irma M. (Dohm) '16, Minneapolis, Minnesota, in 1987.
Roach, Melba C. (Tippet) '16, Oshkosh, Wisconsin, last year.
Parkinson, Helen E. (Levis) '18, Brookfield, Wisconsin, in December.
O'Laughlin, Eleanor M. '19, Santa Cruz, California, in January.
White, Dora M. (Vivian) '19, Naples, Florida/Madison, in January.
Skinner, Vera J. (Call) '20, Belton, Texas, in October.
Woods, Dorothy Belle (Neal) '20, Oconomowoc, Wisconsin, in January.
Baumann, Eleanor O. (Oskamp) x'21, Winona, Minnesota, in January.
Caylor MD, Truman E. '21, Bluffton, Indiana, in July.
Reed, Philip D. '21, Rye, New York, in March. He joined General Electric in 1926 and rose to become its chairman by the time he was forty. After roles in various war offices during and after World War II, he retired from GE in 1958 to head the Federal Reserve Bank of New York until 1965. He received WAA's Distinguished Service Award in 1955.
Storms, Ruth (Steiger) '21, Neenah, Wisconsin, in December.
Baldwin, Mary C. (Gunderson) '23, La Crosse, Wisconsin, in January.
Fox, Thelma M. (Hommedew) '23, Mt. Carroll, Illinois, in December.
Mitchell, Jessie Marie (Briese) '23, Madison, in December.
Moe, Ralph Ray '23, San Francisco, California, in November.
Prehn MD, Fred C. '23, Wausau, Wisconsin, in October.

Stewart, Robert Bruce '23, '27, Vero Beach, Florida, in June.
Stuckey, Helen E. (Schmitz) '23, Rockford, Illinois, in December.
Walker, Arthur L. MS'23, Ephrata, Washington, in December.
Summers, Myrl A. (Garas) '24, '25, Chicago, Illinois, in January.
Taylor, Palmer W. '24, Stevens Point, Wisconsin, in December.
Austermann, Laura M. (Whitmore) '25, Laguna Niguel, California, in November.
Heberlein, Edna M. (Kilby) '25, Tampa, Florida, last year.
Innes, Eleanor (Barr) '25, Phoenix, Arizona, in November.
Brindley MD, Benjamin I. '26, Madison, in January.
Corcoran, Catherine E. (Siefert) '26, Manhasset, New York, in October.
Holmquist, Arthur S. '26, Mesa, Arizona, in October.
Lemmer, Vernon E. '26, Laguna Hills, California, in October.
Smith, Norton V. '26, Chicago, Illinois, in November.
Bingham, Martha D. (Wiesner) '27, Maitland, Florida, last year.
Carlton, Luella F. MA'27, Grinnell, Iowa, in December.
Koos, Paul V. '27, New York City, in November.
Otto, Vernon Albert x'27, LeSueur, Minnesota, in January.
Porter, Eleanor E. (Stafford) x'27, Ponte Vedra Beach, Florida, in December.
Reinsch, Claire P. (Cadura) '27, Las Vegas, Nevada, in 1987.
Stolte, Dorothea (Lee) '27, Milwaukee, in December.
Clark, Grace M. (Frautschi) '28, Madison, in February.
Goldstein, Julius '28, Twin Lakes, Minnesota, in January.
Larkin, Edwin J. '28, '30, '31, Eau Claire, Wisconsin, in December.
Lambole, Paul B. '29, '30, Belleville, Wisconsin, in January.
Cook, Violante F. (Rice) '29, Sun Prairie, Wisconsin, in February.

THIRTIES

Beebe, Edmer '30, MD'32, Olathe, Kansas, in January.
Brillman, Charles R. '30, MD'32, Milwaukee, in October.
Dick, Everett N. PhD'30, Lincoln, Nebraska, in January.

McLaughlin, Lucile E. '30, Northville, Michigan, in 1987.
Patterson, Blanche L. (Paul) '30, Irvine, California, in February.
Bindley, Wm. F. '31, Terre Haute, Indiana, in December.
Foley, William R. '31, Los Angeles, California, in June.
Francis, Leona M. (Wergin) '31, '49, Madison, in January.
Gantenbein, Milton E. x'31, who played football here ('27-30), then went to the Green Bay Packers ('31-40) and into their Hall of Fame; Carmichael, California, in December.
Hanks, Lucien M. '31, North Bennington, Vermont, in December.
Hurst, Dorothy O. (Watt) '31, Springfield, Illinois, in December.
Manley, Robert T. '31, Freedom, New Hampshire, last year.
O'Brien, Alice M. (Ryan) '31, Lakewood, Colorado, in 1987.
Peterson, Alfred John '31 and his wife Sylvia (Eames), Madison, in December.
Skuldt, Hjalmar A. '31, West Bend, Wisconsin, in January.
Dufek, Lucy E. '32, Two Rivers, Wisconsin, in December.
Gahagan, Mary E. '32, Baraboo, Wisconsin, in February.
Gilsdorf, Cecilia M. '32, Fond du Lac, Wisconsin, in December.
Peterson, Russell H. x'32 ('61), Beloit, Wisconsin, in January.
Shell, Lorene M. (Felts) '32, Madison, in February.
Trukenbrod, W. Karl '32, Glencoe, Illinois, in November.
Martin, Dora J. (Erickson) '33, Oconomowoc/Delray Beach, Florida, in January.
Price, Tirzah N. (Parkin) '33, Sarasota, Florida, in February.
Wilcox, Benton H. PhD'33, Lodi, California, in December.
Gates, Wallace G. '34, Wheaton, Illinois, in January.
Karlen, J. Delmar '34, Williamsburg, Virginia, in December.
Smith, Harold C. '34, El Cajon, California, in January.
Iwen, Loretta '35, Shawano, Wisconsin, in December.
Lauder, Ruth F. '35, Washington, D.C., in December.
Fontaine, Thomas K. '36, Rocky River, Ohio, last year.
Kromraj, Henry S. '36, '39, '43, Thibodaux, Louisiana, in October.
Swanson, Maurice C. '36, Fayetteville, New York, in September.

Varnum, Alma G. (Olson) '36, Los Angeles, California, in January.
 Carter, Carl S. MPH'37, Laurel, Montana, in December.
 Hein, Allyn J. '37, Camdenton, Missouri, in December.
 Jung, Carl W. x'37, Sheboygan, Wisconsin, in January.
 Newcomb, Emilie A. PhD'37, Detroit, Michigan, last year.
 Rippe, Russell MS'37, La Crosse, Wisconsin, in December.
 Matsoff, Theodore I. '38, Milwaukee, in December.
 Schrotberger, Mildred V. MA'38, Springfield, Missouri, in November.
 Solle DDS, Wm. N. '39, San Diego, California, in January.
 Posselt, Theodore '39, Minneapolis, Minnesota, in January.
 Stevens, Wm. H. '39, MD'43, Honolulu, Hawaii, in September.
 Timbers, James G. '39, Hinsdale, Illinois, in December.
 Zirwes, Elmer J. '39, Milwaukee, in October.

FORTIES

Isermann, Donald A. '40, Kenosha, Wisconsin, in December.
 McNiesh, Robert J. '40, St. Paul, Minnesota, in August.
 Bechtel, Eleanor M. (Hungerford) '41, Sarasota, Florida, in December.
 Crosby, James Aram '41, Mesa, Arizona, in November.
 Peissig, Verna B. (Boettner) '41, Dearborn, Michigan, in December.
 Willitz, Marion L. (McCallum) '41, Jenkintown, Pennsylvania, in January.
 Craney, Wayne A. MPH'43, Lombard, Illinois, in 1987.
 Larson, James Carl '43, Georgetown, South Carolina, in January.
 Lewis, Ruth A. (Trubac) '43, Marshall, Michigan, in December.
 Murphy, Dorothy C. (Diffell) '44, Washington, D.C., in February.
 Sengbush, Raymond L. '44, Golden, Colorado, in January.
 Stry, Paul E. '44, La Crosse, Wisconsin, in 1987.
 Bartling, Mary S. (Crow) MPH'45, Monmouth, Illinois, in October.
 Gordon, Shirley B. (Neufeld) x'45, Kenosha, Wisconsin, in December.
 Clee, Virginia E. (Clee-Hagstrom) '46, Oklahoma City, Oklahoma, in September.
 Mathews, M. Nadene MA'46, San Francisco, California, in July.

Onheiber, Jerome '46, '50, Green Valley, Arizona/Wausau, in January.
 Millar, Donald O. '47, Oconomowoc, Wisconsin, last year.
 Schwartz, Anthony N. MS'47, PhD'50, Plattsburgh, New York, in November.
 Valde, Norman '47, '49, Brookfield, Wisconsin, in November.
 Black, Stanley P. '48, Kamuela, Hawaii, in February.
 Berge, Barbara J. (Jensen) '48, Hopkins, Minnesota, in January.
 Clements, John T. '48, '49, Milwaukee, in September.
 Compton, Herold R. MS'48, Chilton, Wisconsin, in January.
 Gerhardt, George J. '48, Oshkosh, Wisconsin, in December.
 Gierach, Lucille B. (Evans) '48, Green Bay, Wisconsin, last year.
 Schmidt, Donald P. '48, Canton, Illinois, in 1987.
 Taylor, Marshall R. '48, '49, Wausau, Wisconsin, in December.
 Lenahan, John E. '49, St. Croix, U.S. Virgin Islands, in March.
 Welsch, Raymond F. '49, Paoli, Pennsylvania, in January.

FIFTIES

Atkins, John F. '50, Hepzibah, Georgia, in June.
 Brumm, Gilbert V. '50, Madison, in January.
 Daley, Thomas J. '50, Monroe, Wisconsin, in January.
 Goetsch, Arthur O. '50, Wheaton, Illinois, in 1987.
 Henze, Donald F. '50, '51, '54, Cartago, California, in November.
 McGuire, Richard R. '50, Milwaukee, in 1987.
 Morgan, Lorraine E. (Bickel) '50, Albuquerque, New Mexico, in August.
 Landsman, Jerome L. '51, Lombard, Illinois, in 1987.
 Hanson, Donald L. '53, Belvidere, Illinois, in January.
 Toussaint, Eunice J. MA'53, Wauwatosa, Wisconsin, in October.
 Younger, Richard D. PhD'53, Houston, Texas, in November.
 Rizzo, Sr. M. Joanna PhD'54, New Orleans, Louisiana, in January.
 Bell, Charles H. '57, Sheboygan Falls, Wisconsin, in January.
 Morgan, James W. '58, '60, Madison, in December.
 Kerstein, Ronald F. '59, Milwaukee, in 1987.
 Rosenthal, Jacqueline L. '59, San Rafael, California, in October.

SIXTIES SEVENTIES

Buech, Robert E. MS'60, Milwaukee, in June.
 Altman, James P. '61, Madison, in December.
 Cowart, Jasper E. MS'61, Gilbert, Arizona, in August.
 Hock, Kenneth J. '61, '63, Morgantown, West Virginia, in December.
 Peterson, Russell H. '61, (x'32), Beloit, Wisconsin, in January.
 Mash, John Harold '64, Carlsbad, New Mexico, last year.
 Murdoch, Donald R. '64, '68, Evanston, Illinois/Madison, an attorney who served as assistant director of the national Cost of Living Council and as a White House staff member during the Nixon administration; in February.
 Trevino (aka Trevino-Lozano), Carlos MS'64, PhD'68, MBA'71, Fayetteville, Arkansas/San Antonio, Texas, in July.
 Wendt (Mrs. Otis), Clara M. Netzer MA'64, Prairie du Sac, Wisconsin, in January.
 Hillary, Larry Gene '65, '71, Madison, in January.
 Pudlo, Timothy MS'65, Monaco, Pennsylvania, in August.
 Verma, Om Prakash PhD'65, Montgomery, Alabama, last year.
 Beck, Margaret J. MA'67, St. Joseph, Missouri, in November.
 Goolsbey, Ellen Jane MS'67, Stevens Point, Wisconsin, in 1987.
 Schuren, Douglas Charles '67, Poynette, Wisconsin, in January.
 Spielman, Judith R. (McRoberts) '68, Albuquerque, New Mexico, in November.
 Ganser, Carl Joseph PhD'69, Fort Atkinson, Wisconsin, in December.
 Seidler, Vernon H. '72, Athens, Wisconsin, in January.
 Essenmacher, Shirley Mae (Knodle) MS'73, Verona, Wisconsin, in August.
 Denny, Craig R. '74, Chicago, Illinois, in July.
 Menu, Michael A. '74, Fayetteville, North Carolina, in December.
 Connell, Kenneth J. MA'77, Toledo, Ohio, in December.
 Bechwar, John R. '79, West Bend, Wisconsin, in 1987.
 Dern, David R. '79, Stevens Point, Wisconsin, in October.

EIGHTIES

Sunde, Sally xMA'81, Madison, in December.
 Bryant, Angelina '86, shot to death at a Newark, Delaware, shopping mall by her former fiancé, Aaron Haruna-Symar Gillum '87, who then committed suicide; in February.
 Fetherston, Sheila Linn x'87, Fox Point, Wisconsin, in November.
 Yasko, James W. '88, Whitewater, Wisconsin, in December.
 Beebe, Debra A., master's candidate, Madison/Grainger, Indiana, in January.

FACULTY & FRIENDS

Catherine Conroy, 69, labor leader, co-founder of the National Organization for Women, and a member of the UW Board of Regents from 1983-1985; Milwaukee, in February.
 Emeritus Professor Charles W. Cotterman, 75, mathematical geneticist, on our genetics faculty, 1960-84, a founder and first editor of *American Journal of Human Genetics*; Madison, in January.
 Emeritus Professor Friedrich Solmsen, 84, on our classics/humanities faculty, 1962-74, considered a world authority on the civilizations of ancient Greece and Rome; Chapel Hill, North Carolina, in January.
 Professor Michael B. Petrovich, 66, Madison, who retired last year from the history department; in March. He was a pioneer in the field of Balkan Studies, and taught the department's course in it and in Russian intellectual and imperial history. He founded and chaired the interdisciplinary Russian Area Studies program in 1958. Since arriving here in 1950, Petrovich earned several honors for his teaching skills, among them the first Kiekhofers Memorial Teaching Award, a Danforth Distinguished Teaching Award and a citation from the Standard Oil Foundation. Last year he completed his five-year Evjue-Bascom professorship. The son of a Serbian Orthodox priest, Petrovich served as choir director of Madison's Greek Orthodox Church of the Assumption.



WAA and the
National "W"
Club
invite you
to join
fellow Badger
friends for:



BADGERS/CAL-BERKELEY FOOTBALL HOLIDAY SEPTEMBER 21-24, 1989

**This fall, follow the Badgers
to San Francisco, California.**

Our trip includes:

Round trip air from Madison,
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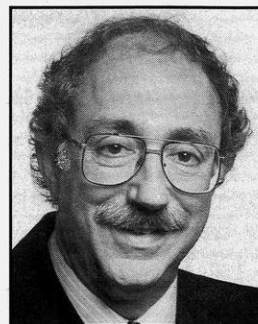


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100 YEARS

Continued from page 25



R. DAVID PITTLE
Engineering

Each month, 4,000,000 subscribers check
Consumer Reports magazine for findings
on the 1,500 products it tests annually.
Electrical engineer David Pittle MS'65,
PhD'69 oversees the tests and the reports.
He is technical director of the magazine
and its parent Consumers Union. Pittle
says his staff of 105 spends from two to
five months with each product. "If it's
dishwashers, each must be comparison
tested with the same amount of dried egg
or whatever on the same china," he says.
To guard its reputation for objectivity,
"all test products are bought anonymously,
with cash, on the open market. And of
course we don't accept advertising,"
he adds.

Pittle also provides the technical back-
up for Consumer Union's traditional
advocacy efforts. For example, recall the
publication's recent report that Suzuki's
Samurai tended to roll when cornering.
(As it happened, Pittle was the driver
who discovered it on the test track.) The
organization then petitioned the National
Highway Traffic Safety Administration
for industry-wide stability standards.

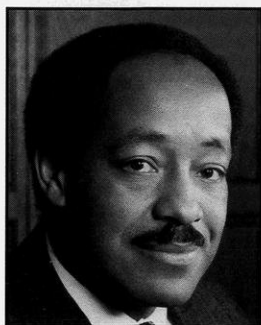


DAVID S. RUDER
Law

Mr. Ruder, a 1957 graduate of our Law
School and a native of Wausau, is the
twenty-third chairman of the U.S. Secu-
rities and Exchange Commission, sworn

in in 1987. The chairman's routine (if anything is routine since what the commission calls the "market break" two months after Ruder took office) is a varied one. They include Congressional testimony and legislative proposals; oversight of the commission's Division of Market Regulation; dialogue with industry and self-regulatory organizations. Ruder has pushed for more effective legislation to define insider trading and increase disclosure of the municipal securities markets. And, during his brief tenure, the SEC has improved the arbitration process for investors, adopted advertising rules for mutual funds as well as amended proxy and shareholder communication rules.

Ruder went to Washington from the law school of Northwestern University, where he'd been on the faculty since 1961 and where he'd served as dean for eight years.



LOUIS A. HOLLAND
Agriculture

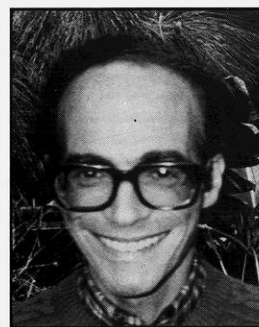
It could seem quite a jump from Lou Holland's rural background and ag econ

major to where he is today—high above Chicago's Wacker Drive as a founding partner in Hahn Holland & Grossman, investments. But, Holland '65 sees it as a logical route. Around his father's farm-equipment store in Sturtevant, Wisconsin, the business end of things interested him more than did the farming milieu it served. And here at the university, courses in the School of Business under the late Frank Graynor fascinated him. So the business world was always the main attraction. There was a stint of pro football (he had earned All-Big Ten honors here as a half-back and our leading ground-gainer in 1963), and with Chicago's Commonwealth Edison. In 1968 he went with the A.G. Becker Company, and for the next dozen years, in a bear market, he travelled far and sold hard to a wide range of prospects. Also on the Becker staff was his friend Don Hahn '57. In 1983 they struck out on their own. Today they manage nearly \$1 billion. A few months ago the industry publication *Pension Investment Age* called Hahn Holland & Grossman one of the fastest growing in the field. Holland guests on such as *ABC Business World* and PBS's *Wall Street Week*. He was here in February as the first career specialist in the Executive-in-Residence program of the School of Business.

THOMAS L. MILLER
Letters & Science

The list of TV series Miller '62 has written and/or produced reads like a rundown of all-time comedy hits. *Happy Days*, *LaVerne and Shirley*, *Bosom Buddies*, *Mork and Mindy*, *Love American Style*,

Nanny and the Professor. You name it. If it gave intellectuals the vapors, set critic against critic, and won a zillion viewers each week, chances are it came from Tom Miller. Look for the Miller-Milkus



label on the reruns. "I've been a movie nut since I was eight," Tom Miller says. "Anything that flickered." Majoring in English and speech here, he learned scriptwriting and production under Jerry McNeely. Miller was overjoyed to start his own career as a dialogue coach on movies directed by Billy Wilder. "If they had let me pick my favorite, it would have been Billy," he says. "From him I got the sensibility that the goal is to please people and give them a good time." To achieve this, he has often used his own life experiences, particularly in the Milwaukee-located *Happy Days*. "Richie Cunningham is a lot of Tom Miller," he says. In his current *Perfect Strangers*, the protagonist is a Milwaukee boy who went to school here. Miller sprints between that show's set and his other two, *Full House* and *The Hogan Family*. (The company is now Miller-Boyet Productions.)

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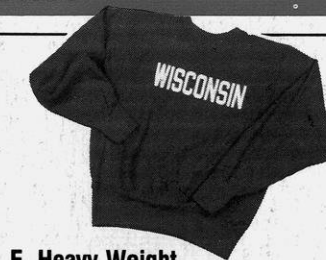
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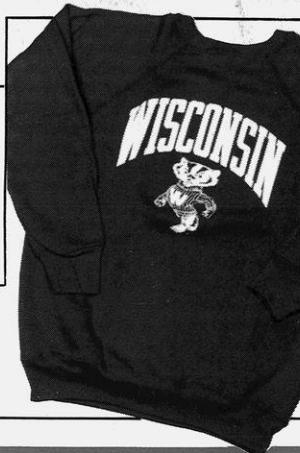
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