

ALS NEWS



Agriculture and Life Sciences

December 1999

Deer Ahead!

You are driving down a two-lane highway at dusk, pushing the speed limit. It's been a long day. Suddenly in front of your headlights appear two flashlight-size beams of light, frozen just beyond the hood of your car . . . and you join the 1.5 million U.S. drivers who find themselves in deer-car collisions every year. Of these, 29,000 suffer injuries

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Deer Ahead (continued from cover)

and more than 200 die. The lucky ones escape with only a bill from the auto body shop.

At the turn of the century, whitetail deer were a threatened species numbering no more than 500,000 from coast to coast. Today more than 20 million thrive and increase in abundance in a landscape that is seemingly made just for them.

Two converging factors account for their abundance: the success of state and federal management programs coupled with protection of remaining deer herds; and human transformation of what were once vast forests into housing developments, farmlands, and smaller tracts of woodlands. These mosaics of open and forested habitat are a deer's dream come true—and they are virtually predator-free.

The edges of roads, small woodlots, fields, and residential lawns offer abundant food and cover. Adaptable creatures, deer can eat hundreds of kinds of plants, fruits, and nuts, including highly valued ornamentals—such as yews and rhododendrons—as well as lovingly tended green beans and strawberries.

In addition to automobile accidents and plant damage, whitetail deer are also associated with the alarming increase in the spread of Lyme disease. The Centers for Disease Control in Atlanta predict 16,000 new cases nationally each year, with most in New York, Connecticut, Pennsylvania, and New Jersey. Although other mammals besides deer serve as hosts for the black-legged ticks that spread the disease, tick abundance is known to be highest in areas with the most deer.

What's to be done? That's the question Paul Curtis, Cornell Cooperative Extension wildlife specialist, gets asked five, sometimes ten, times a day. His answer:

"There's no magic bullet, no single solution that will solve all the problems deer cause," says Curtis, who has spent the last decade searching for solutions. "What works best is a combination of site-specific and landscape-scale control measures in a balance that addresses the needs of individual communities."

In areas, such as Long Island, where risk of Lyme disease is a major concern, site-

specific measures include completely fencing school playgrounds and athletic fields to limit deer and ticks on lawns where children play.

The Wildlife Damage Management Program, which Curtis heads in the Department of Natural Resources, has developed inexpensive fencing designs

In the meantime, lethal control (bait and shoot or controlled archery programs) are proving effective. In Irondequoit, a suburb of Rochester, a 7-year-old bait-and-shoot program has resulted in the removal of more than 650 deer from one community and cut deer vehicle accident rates in half.

The hard truth is that without some

At the turn of the century, whitetail deer were a threatened species numbering no more than 500,000 from coast to coast. Today more than 20 million thrive and increase in abundance in a landscape that is seemingly made just for them.

homeowners can build themselves to protect vegetable gardens. And research is under way to evaluate spray-on repellents for ornamentals that last longer than the current 45 to 50 days.

Curtis is close to finishing a study evaluating the effectiveness of contraceptive vaccines, the most politically popular method for managing deer abundance in urban and suburban areas. Both vaccines—one that controls reproduction in the female only, the other in both sexes—can reduce fawning by 90 percent.

The difficulty with this method is the frequency of inoculation (twice the first year, then once every other year) and how these vaccines are delivered (by expert shooters using dart rifles). In addition, because the vaccines are classified as experimental drugs, each darted deer must be captured and tagged to warn people who might eat the meat. Total price tag: at least \$250 per deer during the first year, plus annual costs for monitoring and providing booster shots.

Curtis and collaborators with the USDA National Wildlife Research Center and Boyce Thompson Institute for Plant Research have begun looking at oral delivery systems for contraceptives. But with complex federal drug approval and state permitting processes (and the consequent dampening of pharmaceutical company interest) it may be a decade, if then, before oral delivery vaccines are commercially available.

form of lethal or reproductive control, deer populations will continue to rise until food resources are depleted. A herd of 1,000 deer when not hunted may double in size every two to three years if adequate food and cover are available. Control must continue year in and year out. Let up for a few years and the ever hospitable landscape just brings forth more deer.

Staff with the college's Wildlife Damage Management Program assist communities with developing their own nuisance wildlife management plans and provide resources for homeowners describing site-specific control. Kristi Sullivan recently joined the program as a wildlife communications specialist and has been working with Cornell Cooperative Extension county educators, wildlife management professionals, and master gardeners to provide wildlife damage information.

Publications such as *Reducing Deer Damage to Home Gardens and Landscape Plantings and Resistance of Woody Ornamentals to Deer Damage*, and two 30-minute videos examining how communities cope with deer populations—*Suburban Deer Management: Voices, Views, Visions* and *Whitetails at the Crossroads*—may be purchased from Rich Gray, Cornell University, Media and Technology Services Resource Center, 7 Cornell Business & Technology Park, Ithaca, NY 14850. Phone: 607-255-2090. Fax: 607-255-9946. Email: Dist_Center@cce.cornell.edu

Metta Winter

Drive Defensively

Several companies manufacture deer whistles designed to protect vehicles by emitting ultrasonic and/or audible sounds intended to frighten deer. But research has shown that the whistles will not elicit a flight response in deer or other animals. The most effective technique for minimizing the likelihood of a deer-vehicle collision is defensive driving:

Season of the year. More than 60 percent of deer-related accidents occur during October, November, and December. Be especially alert for deer during these months.

Time of day. The change from daylight savings to eastern standard time in mid-October causes peaks in commuter traffic to occur during the same time as the peak in deer activity. Watch for deer crossing roadways at dusk.

Deer social behavior. Remember that deer usually travel in groups, and if one animal crosses the road in front of you, others are likely to follow. Slow your vehicle even if a deer has completely crossed the highway.

Location. Deer-vehicle accidents appear to be more frequent at the suburban-rural fringe of large metropolitan areas, where high deer densities are found in close proximity to high-speed highways.

Deer habitat along roadways. Slow down in areas marked by deer crossing signs and make mental notes of areas where deer are frequently seen. When driving at night, scan the shoulders of the road looking for the reflection of your headlights off the eyes of a deer.

If it appears you are going to collide with a deer, do not maneuver to avoid impact, as the deer may also counter-manuever. Human fatalities are more likely when motorists swerve to avoid deer and instead collide with roadside obstacles or oncoming traffic.

If you hit a deer and need to move it from the roadway, approach the deer cautiously. People have been injured from the swift kick of an apparently unconscious or fatally injured deer.

Paul Curtis



Photo by Paul Curtis



Photo by University Photography

Lund to Step Down in August 2000 As Dean

After his current term ends in August 2000, Daryl Lund, the Ronald P. Lynch Dean of Agriculture and Life Sciences, will not seek a second term. He plans to return to the faculty of the food science department and to update his textbook *Physical Methods of Food Preservation*. A search plan for his replacement is still in development.

Ever the champion of students, the dean always finds ways to meander down from Roberts Hall to wherever young people congregate. "One of the most rewarding aspects of being dean is the interaction with students," said Lund. "They constantly remind you of the overriding mission of education within the academy. Working with students provided some of my most rewarding moments."

Since coming to Cornell in August 1995, Lund has reorganized the budgeting process within the College of Agriculture and Life Sciences and fulfilled an obligation to improve faculty support by providing more fundamental resources. As dean, he has pushed aggressively for an academic program review of all programs and classes offered by the college. It is the first such assessment undertaken by the college in two decades.

He has formalized a description of the resources of the college invested to carry out its teaching, research, and extension missions. Lund also enhanced the college's planning process by strengthening the academic planning councils of the six program areas and supporting the establishment of the ALS faculty senate, a representative form of faculty government. He also encouraged the faculty in the Department of Agricultural, Resource, and Managerial Economics to seek national accreditation for the bachelor's degree in business management and marketing.

Lund also has played a leading role in obtaining increased support for production agriculture in New York State, working with the New York State Council of Agricultural Organizations and the New York State Department of Agriculture and Markets. Tangible results include increased support for the New York State Agricultural Experiment Station at Geneva and an emerging sense within production agriculture that the state must aggressively plan for the future and invest in it.

As dean, Lund was one of the leaders in overseeing the reconfiguration of the Division of Biological Sciences into academic departments and ensuring that a high priority of the college is its commitment to improving faculty diversity.

He had quite an act to follow, succeeding David L. Call '54 as the eleventh dean in the 131-year history of the college. He came to Cornell from Rutgers, the State University of New Jersey at New Brunswick, where he had served as executive dean of agriculture and natural resources. Previously, he had been executive director of the New Jersey Agriculture Experiment Station and dean of Rutgers' Cook College.

Blaine Friedlander, Jr.

A Wild Goose Chase

With the burgeoning Canada goose populations in suburban areas come feces, feathers, possible contamination of drinking water, and aircraft accidents.

Canada geese are everywhere, it seems. Nationwide more than 4 million of them have taken up residence in high school athletic fields, golf courses, city parks, and suburban backyards. What to do about the feces, feathers, and possibly diseases that these grass-eating machines leave behind is the subject of commentary on National Public Radio and in the *New York Times* and *USA Today*.

Like deer, the biology of the once-endangered giant Canada goose makes them ideal companions in the urban landscape. And now they are here to stay.

One controversy centers on whether hunting is really necessary to control suburban goose populations that may double every five to ten years, thanks to the American penchant for tranquil lakes graced by closely cropped, conscientiously fertilized lawns.

"Site-specific tactics for scaring geese may just move the problem elsewhere," says Paul Curtis, Cornell Cooperative Extension wildlife specialist. Communities need to consider an integrated approach for managing geese, including lethal control (rounding up flightless birds) or egg addling (puncturing eggs so they will not hatch). Reducing goose numbers may enhance the effectiveness of scare tactics, such as using trained border collies.

What begins with the charming novelty of a few gawky goslings soon wears thin. Canada geese multiply rapidly because young geese have high site fidelity—returning to nest in the same area where they were raised. With a survival rate of up to 80 percent, and some geese living up to 20 years, many more resident geese may soon be munching grass and producing about a pound of feces every day. What's more, they litter the ground with feathers when they molt during June and July. Most Canada geese in suburban areas are a resident subspecies that only migrates short distances when needed to avoid deep snow and ice.

So far, there have been no documented cases of geese spreading diseases directly to humans, but their intestinal tracts do harbor a host of pathogens, among them salmonella and avian influenza. Of particular public health concern is *Cryptosporidium parvum*, a protozoan that can be passed to humans through contaminated water. Standard water treatment processes are ineffective in controlling this organism, which causes diarrhea and even death for those people with compromised immune systems.

Geese-aircraft accidents are another serious problem: there are more than 240 such accidents each year according to the Federal Aviation Administration. Most aircraft are engineered to withstand the impact or engine ingestion of a single 1- to 3-pound bird. Four years ago when an Alaska-based U.S. Air Force jet ingested 13, it went down, killing the entire 24-person crew.

Much can be done to rid geese from a park or a runway. Across the country, programs are in place to reduce airport bird strikes. At the Norfolk International Airport in Virginia, for example, noises that sound like a bird in distress are blasted across runways. Clarkstown, N.Y., is spending \$36,000 a year to rent border collies to chase the birds from its parks. But because geese are smart, they may return in a matter of weeks if there is any let-up in these tactics.

Contraceptives that can be delivered through feed are years away, so Curtis believes communities must also turn to so-called goose round-ups. During molting, when the birds are unable to fly, they are captured and killed, and the meat is donated to soup kitchens and food banks. Contrary to accusations from animal welfare groups, the meat from geese killed in New York for this purpose was tested and found safe to eat, Curtis says.

And consuming geese is nothing new. Goose hunting season has been used to manage migratory goose populations for decades, Curtis points out. Long before turkey came on the scene, a goose for Christmas dinner was a sign of plenty.

Managing Canada Geese in Urban Environments, a booklet co-authored by Curtis, outlines nearly 50 control methods, including altering the habitat and feeding areas, hazing or scaring, using chemical repellents, removing the geese, and using reproductive controls. Although written as a technical manual, many suggestions are appropriate for homeowners. A companion video, *Suburban Goose Management: Searching for Balance*, offers a 30-minute overview. The booklet and video may be purchased from Rich Gray, Cornell University, Media and Technology Services Resource Center, 7 Cornell Business & Technology Park, Ithaca, NY 14850. Phone: 607-255-2090. Fax: 607-255-9946. E-mail: Dist_Center@cce.cornell.edu

Metta Winter



Photo by Paul Curtis

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Rural sociologist Tom Lyson holds up his U.S. Department of Commerce badge and says that it's his ticket to the inner sanctum of the Census Bureau. Lyson is the first sociologist to get into Census Bureau data files for the purpose of showing that communities dependent on big business interests are less well off—economically and in every other way—than those built on small locally owned businesses.

"When the economy of a community is dominated by one large plant or nationally owned business, it has a dampening effect on organizational life which, in turn, means less investment in the well-being of the community over the long haul," explains Lyson, citing an observation that was made in testimony before Congress at the end of World War II.

As Lyson tells the story (that has taken him years to piece together), Congress didn't listen to the sociologists of the day, awarded munitions contracts to big businesses, and the military-industrial complex was born. As long as the United States dominated the world economy, businesses could afford to enter into a tacit social contract with labor unions. As a result, towns in the industrial heartland, Buffalo and Syracuse among them, thrived.

"But when the economies of Europe, Japan, and southeast Asia became strong competitors, American corporations reacted by becoming lean and mean—they moved out and left these communities to die," Lyson points out.

That doesn't happen to communities that have a strong, independent, merchant class of small businesses and family-owned farms. Small business owners are committed to their communities; they might be fiscally conservative but nevertheless won't let the schools or the roads go to pot. What's more, locally owned businesses spawn a rich associational life.

Kiwanis clubs, bowling leagues, hospital auxiliaries, church youth groups, and choral societies all contribute to better social outcomes such as less crime, fewer out-of-wedlock births, and better health.

"But if you're working for Kodak, you are thinking about where you'll be transferred next. So your allegiance is to the corporation not to the community," Lyson says.

"I get really juiced up when I can make the big connections, when the lightbulb goes on and I can push things a bit," says Lyson, professor of rural sociology, who, a dozen years ago, found in the college a home for his controversial ideas. And a place in which to act on them, too.

Take the theory of civic community, which says that the goal of agriculture should be more than producing low-cost food and making a profit; rather that agriculture and food are inextricably linked to the community and to the environment as well.

"And if the food costs a little more, then I'll pay more for it," he adds, "because there is value in having farms out there, value in keeping people employed in agriculture."

Lofty idea, a holdover perhaps from Lyson's early days as a warrior in President Lyndon Johnson's war on poverty. But how likely is it to fly at a time when the middle class in America is struggling financially to keep its head above water?

Lyson has put the theory of civic community into action as director of Farming Alternatives: Cornell's Agriculture and Development and Diversification Program. The program is a \$250,000-a-year think tank that promotes community agricultural development through sophisticated direct marketing of locally grown, value-added products—what's known as the New Agriculture.

Examples include fresh fruit and vegetable stands at travel plazas on the New York State Thruway, farmers' markets, community-supported agriculture (CSAs) where individuals buy a share of a farmer's crop, restaurants featuring New York State-grown produce and wines, and

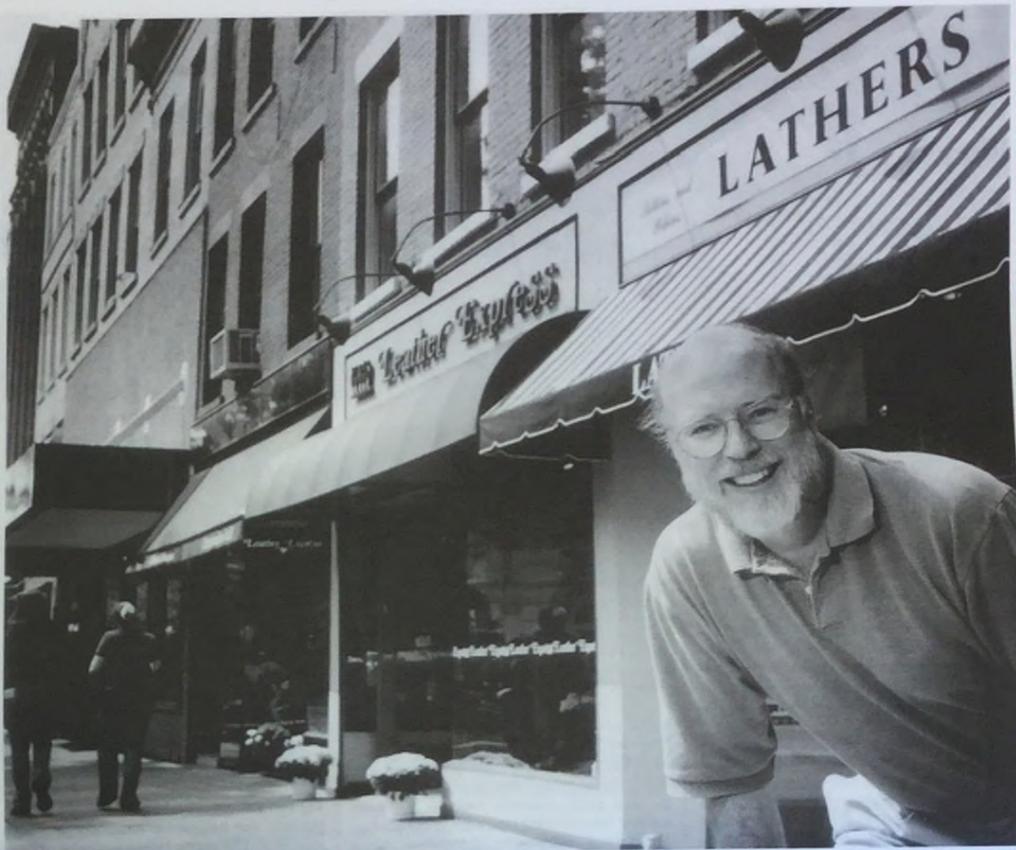


Photo by Frank DiVito

THE COMMON GOOD: Rural sociologist Tom Lyson says that locally owned businesses spawn Kiwanis clubs, hospital auxiliaries, and youth groups, which contribute to better social outcomes such as less crime and better health in a community.

Small Businesses Are Backbone of Communities

Big businesses that dominate a town's economy don't have the community's interests at heart. For communities to thrive, they need locally owned businesses, including farms.

agritourism operations such as U-pick pumpkin farms featuring hay rides and homemade pies.

Lyson contends that in the Northeast we've paid a lot of attention to industrial,

"New York City is at the center of the biggest consumer market in the world, stretching from Boston to Washington, and we've hardly begun to exploit it," Lyson says. "Why should the food eaten in

"So we need to think creatively about cheese just like we did with the wine industry. Because of the Farm Family Winery Act of 1975, there are more than 100 wineries in the state now. Why don't we do this with cheese plants and have a wine and cheese trail?"

In the long run, Lyson says, Farming Alternatives establishes an agriculture that will be food for communities and the environment.

He points out further, "The New Agriculture isn't an act of resistance to industrialized agriculture; rather it's an opportunity for a small, local, consumer-driven food system that disappeared a century ago to come back and exist with it side by side."

Metta Winter

Small business owners are committed to their communities; they might be fiscally conservative but nevertheless won't let the schools or the roads go to pot.

mass production agriculture by increasing yields, increasing milk output, making farms bigger, and making farmers into managers. But if this is all we rely on, we'll get "beaten" by global-scale processors from California, Florida, Texas, and Mexico. Lyson says that instead of putting all its economic eggs in one basket, New York should be simultaneously focusing on bringing production and consumption closer together.

New York State imports an estimated 85 percent of its food and that percentage would be closer to 95 were it not for milk.

Manhattan come from California, when a lot of it could be grown next door in the Hudson Valley?"

By developing unique, regionally identified products and cultivating local and regional markets, the potential is unlimited. Lyson points to cheese as an example.

"The biggest economic multiplier is with a cheese plant," he says, explaining that in the manufacture of cheese, every dollar rotates back six times through the community (to the farmer, the veterinarian, the feed seller, the milk hauler, etc.).



WAITING: Cornum poses with pilot Lance McElhiney (left) and her husband, Kory, at King Fahd Airport in Saudi Arabia before the Gulf War began.

Rhonda Scott Cornum is moving this spring to Fort Bragg, North Carolina, to take command of the U.S. Army's 28th Combat Support Hospital. It is likely that when the 82nd Airborne Division is deployed again—one of America's first-to-kill units, it was in the forefront during Desert Storm—Cornum will make the move too, taking along her 600-member staff with all their tents and trucks. The military's combat support hospitals follow fighting units into the field to provide medical care during conflict.

The new posting is just the next in a long line of Army jobs, each one, Cornum says, is better than the last.

"A surgeon in the military is there to take care of people," says Cornum, who'll be leaving her current post as staff urologist at Eisenhower Army Medical Center in Fort Gordon, Georgia. "So while you don't really hope for conflict, if there is one, you want to participate."

Cornum has always wanted to participate, through an Army career that began in 1978 studying amino acids to making the top of the news during her eight days as a POW in Iraq during the Persian Gulf War.

"The only constant in my life has been a burning desire to do the best, to seek new challenges and conquer them," Cornum wrote in *She Went to War: The Rhonda Cornum Story*, an account of her experience in the Persian Gulf. In the Army she found the place to do that.

There was the fun stuff: air assault school, airborne school, and flying both helicopters and fixed-wing aircraft. (As hobbies, she sky dives and flies a low-

wing, high-performance experimental aircraft that she built with her husband, Kory, an Air Force flight surgeon who is now an orthopaedic surgeon.) And the work: as a flight surgeon she's provided basic medical care to pilots and their families and performed trauma care when necessary. And as a urologist, she operates on military personnel with conditions ranging from incontinence to prostate cancer. Her thriving research program has addressed whatever questions were pressing at each posting. Currently she's testing an absorbable fibrin adhesive bandage that, when wet with blood, turns into instant clots.

On the last day of the Gulf War, she was flying in a Black Hawk utility helicopter searching for a downed F-16 pilot when, hit by gunfire, the helicopter smashed into the desert at 130 knots.

"You could cut a kidney in half and put this stuff on and it stops bleeding immediately," Cornum says. "It's pretty cool."

None of these opportunities quite compares to the phone call she received on August 8, 1990, from the commander of the 2-229th Attack Helicopter Battalion. It was just six days after Saddam Hussein had invaded Kuwait.

He asked one simple question: "Do you want to go?"

Cornum wasn't the flight surgeon assigned to this unit of 300 personnel and 19 tank-killing Apache helicopters. At the time, she was doing research on how to improve pilot ability to use optical sys-

Colonel Rhonda Scott Cornum BS '75, PhD '80

COMBAT READY

About to take charge of an Army combat hospital, this former Gulf War POW has seen a lot of action as a pilot, flight surgeon, and medical researcher.



Cornum wrote a book about her experience in the Persian Gulf.

tems in these helicopters, the Army's newest aviation equipment. Nevertheless, she knew most of the pilots. Her answer was instantaneous and affirmative.

"I honestly believed that more people would come back alive if I went," wrote Cornum.

On the last day of the war, she was flying in a Black Hawk utility helicopter searching for a downed F-16 pilot when, hit by gunfire, the helicopter smashed into the desert at 130 knots. When she was pulled out of the wreckage by Hussein's elite Republican Guard both her arms were broken, one knee dislocated, and a bullet was lodged in her shoulder.

she's had in expanding opportunities for women.

At 44, she's keen to take on her new job, jump her thoroughbred race horses (she has a steeplechase jockey's license), and return to showing Gordon setters, a pleasure since childhood.

As a good friend of Cornum's once told her, "Most people use up their luck at a slow rate as they're developing experience and good judgment, but you've used up your entire luck bag." Cornum says she's trying to make smart choices among the many risk-taking behaviors that continue to attract her, picking just the "honorable" among them.

"I've always tried to live so that when I look back I never wish I had done something that I no longer have an opportunity to do," she says.

Metta Winter

She came out of Iraqi imprisonment just fine. And made that clear in Senate testimony, which paved the way for service women to be allowed to fly combat aircraft.

"It used to be that women could fly military aircraft but not combat aircraft, the excuse being that they might get captured by the enemy," Cornum explains. "And I said, 'Yes, they certainly might, and they won't do badly, and at least they would get to shoot back.'"

Cornum used the last chapter of her book, and uses any other appropriate situation, to argue for a woman's right to compete. And she is proud of the success

First Lady Has 'Listening Session' on Ag Issues

First Lady Hillary Rodham Clinton took part in a "listening session" hosted by the college on July 31 in the Biotechnology Building.

The panel discussion represented a cross-section of agriculture in the state and included Marybeth M. Holub '77, who with her husband operates an 80-cow dairy farm in Newfield, N.Y.; David C. Irish '82, a crop farmer from Mecklenburg, N.Y.; and Carol Stull, a producer of herbs and vegetables and president of the Finger Lakes Organic Growers; and Dean Daryl B. Lund.



Pictured are (l-r): David Irish, Marybeth Holub, Hillary Clinton, Carol Stull, and Dean Lund



After the session, Dean Lund presented Clinton with a wicker basket stuffed with New York State food products, wine, and information about agriculture in the area.



Photos by Nicola Kozlowski

Can We Sustain Our Agriculture?

First Prof. Gary Fick startles students with a taste of unfamiliar foods, then he astounds them with numbers that show how we disregard the vast majority of plant resources. Then he takes them out to a dairy pasture and farmers' market—all to teach students what sustainable agriculture really means.

In the first lab handout, Professor Gary Fick lists an A to Z of the factors that are in competition when it comes to creating the most desirable type of farming—what he calls “farming today so that we can continue to farm tomorrow.” There are “tillage systems” and “yield” and “livestock resources” on that list. But also “jungles” and “global warming” and “quality of life.”

Right off the bat, Fick wants students to start thinking about how the food we eat depends on more than just crops, livestock, soils, and climates. He wants them to recognize that social and economic considerations are every bit as important.

But he also knows that there's nothing like real food to hook kids into the debate on what it will take to make agriculture sustainable. Freshman plant science major Julie Dawson will never forget popping that piece of pale reddish-fleshed fruit into her mouth.

“It was awful,” she says in disgust of the horned melon, a relative of the tomato plant that she calls a “dark purple thing.”

Of all the others she tried that day the mango and kiwi fruit were OK, she thought, but the carambola, cherimoya, kiwano, and tomatillo were definitely tastes she would need to work pretty hard to “acquire.”

With the oddness of these fruits still on his students' minds, Fick begins the next week's lecture—on crop resources—by writing this set of astounding numbers on the blackboard:

- 30,000—plants listed in Liberty Hyde and Ethel Zoe Bailey's *Hortus Third* as having economic value (a mere 1 percent)
- 300—plants that, for all practical purposes, provide all of our food (a mere one-tenth of 1 percent)
- 30—species that provide nearly 95 percent of what we eat
- 3—wheat, maize, and rice, the 3 crops that make up 60 percent of our diet

classroom into one of the most well known of all American landscapes—a pasture with cows contentedly grazing.

“To understand sustainability, you have to know a bit about ecosystems,” says Fick. “A pasture with cows in it is a self-sustaining ecosystem which readily illustrates the five ecological principles fundamental to agricultural sustainability.”

After what is for many students their first trip to a dairy farm, they will go to downtown Ithaca's Farmers' Market with copies of

Clearly, we humans have chosen to live in a precarious state. Of all the seed plants in existence, we choose to base our agriculture on a mere one-tenth of 1 percent of the plant resources available on the earth.

Clearly, we humans have chosen to live in a precarious state, Fick points out. Of all the seed plants in existence, we choose to base our agriculture on a mere one-tenth of 1 percent of the plant resources available on the earth. And most of those originate in just two ecological regions—the Mediterranean and savanna. Can long-term sustainability come from such a fragile foundation?

Later on in the course, Fick will reverse his strategy of startling students with the unfamiliar. Instead, he'll take them out of the

two Food Guide Pyramids—the official one from USDA and a vegetarian version. Their first task is to compare what farmers are producing and marketing in upstate New York with the nutritional recommendations depicted in the pyramids. Then Fick extends the lesson so that students can figure out what additional foods would have to be produced to meet the requirements.

“And ultimately,” he says, “what land use would look like if we were producing all our food locally.”

THREE SISTERS: Fick takes his class to the Three Sisters Garden at Cornell Plantations to observe how corn, beans, and squash grow together, an intercropping practice of the Iroquois.

Definition of Sustainable Agriculture in the 1990 Food Security Act (Farm Bill of the U.S. Congress):

Sustainable agriculture is an integrated system of plant and animal production practices having site-specific application, which will over the long term

- satisfy human food and fiber needs.
- enhance environmental quality and the natural resource base.
- make the most efficient use of nonrenewable resources.
- integrate, where appropriate, natural biological cycles and controls.
- sustain the economic viability of farms.
- enhance the quality of life for farmers and society as a whole.

Fick, a professor in the Department of Crop and Soil Sciences with a specialty in forage crops, has been teaching Sustainable Agriculture since 1992 to a purposely restricted small group of students from across the university who want the kind of hands-on experiences he offers.

“One of the concerns I have is that the external inputs required by a lot of the new designs for sustainable systems don't include animals and may not be truly sustainable,” Fick says. Opening a book to a floor plan of a house and barn that existed in Germany at the time of Christ, he goes on: “Europeans have used what modern agriculturists call a mixed cropping system as the basis of a sustainable system that's been going on for 7,000 to 8,000 years. At least in temperate systems, long-term sustainability depends on animals to move the nutrients around.”

Throughout the 13 lectures and labs, Fick touches on many aspects of sustainability from the role of animals and crops and marketing economics to sociological factors including ethics. When it comes to ethics, George Washington Carver is the agriculturist Fick holds high, offering as optional reading John Ferrell's *Fruits of Creation: A Look at Global Sustainability as Seen Through the Eyes of George Washington Carver*.

“One of the goals of ethical agriculture is good nutrition for everybody and for equity,” Fick points out. “Carver came to Tuskegee and saw the terrible nutrition that African Americans suffered, so he started working on ways to improve their agriculture.”

Eventually Carver realized that the major issue was soil improvement and so he began working with legumes, which return nitrogen to the soil. It was from this beginning that he developed the agronomy of peanuts.

In the university's official course guidebook, Fick writes that he designed the course as an “enjoyable” introduction to basic food production resources.

And from students' comments, he's succeeded admirably. Consistently rated high in “educational value” by students, one felt the material so worthwhile he would “recommend this course to anyone who eats.”

Metta Winter

• In an ecosystem:

- everything that is organic is food,
- nothing is wasted,
- there is a premium on protecting the soil,
- there are usually substitute species available (due to biodiversity) for essential ecological functions, and
- there are always animals under natural conditions.

• 300,000—the approximate number of species of seed-bearing plants identified so far



We're in Business!

Cornell is about to have an accredited undergraduate business program—and it is in the College of Agriculture and Life Sciences.

The word came in March: the business program in the Department of Agricultural, Resource, and Managerial Economics (ARME) is poised to become only the second accredited undergraduate business program in the Ivy League.

Until now, undergraduates who wanted an Ivy League degree in business had just one place to go, the Wharton School at the University of Pennsylvania. But not for much longer. That was the finding of an accreditation review conducted by the International Association for Management Education (better known by its former initials AACSB).

For the first time, the College of Agriculture and Life Sciences joined the Johnson Graduate School of Management in its regularly scheduled accreditation review. The business program in ARME was the only undergraduate program at Cornell to qualify for the accreditation review.

Meeting AACSB's requirements is tough. Of the 1,343 business schools that offer bachelor's degrees in the United States, a mere 332 (25 percent) are accredited by the AACSB.

The first step in the accreditation process was a two-year review, requiring a year of self study followed by a year of evaluation by AACSB. Although primarily concerned with teaching, the review also covered the faculty's research and outreach activities.

Immediate review for accreditation, such as ARME experienced, is virtually unprecedented; yet the reviewers' conclusion was extremely positive. On academic criteria, ARME's undergraduate business program compares favorably to the top five in the country.

"Graduates and the business community already know that. For 30 years we have offered a curriculum of study oriented

toward a general management degree," says Andrew M. Novakovic, the E. V. Baker Professor of Agricultural Economics and ARME department chair.

But because the business program's origins are within a college of agriculture and a department of agricultural economics, its identity as a business program has been confusing to prospective students

recognition of a program we already have."

With that will surely come more prospective students and an even better ability to recruit the best of an already exceptionally strong applicant pool. Therein lies the main concern of the review panel, which decided to continue the program's review until October 2001.

The reviewers want to see more resources put behind the faculty in terms of teaching support staff and a reduced teaching load, to allow faculty more opportunities for research and professional development. This, in the end, benefits students and the program as a whole.

and their families. Many students don't discover the program until they are on campus. That—and a reputation for outstanding teaching—is why well over twice as many students graduate from ARME's business program than are admitted as freshmen: transfer students flock to the program.

Even in some academic circles, the program has flown below the radar screen.

"I can't believe a program this good has existed so long and so completely escaped my attention," noted Paul Danos, dean of the Tuck School, the graduate business school at Dartmouth. Danos was one of the four business school deans on the AACSB's review panel. Novakovic believes the accreditation process will take care of the obscurity issue once and for all. Already, he says, having done nothing formally to publicize the review, the number of inquiries coming from internal transfers this past spring doubled.

"What's significant here," Novakovic points out, "is that we're going to gain new

The faculty, the reviewers felt, is too overloaded as it is.

"Students, both inside and outside the major, take our courses in part because they say the teachers are not only good, they are friendly and pay attention to them," Novakovic says. "The reviewers used words like 'valiant,' and said they had seen no other place that accomplished so much high-quality teaching with so few resources."

The reviewers want to see more resources put behind the faculty in terms of teaching support staff and a reduced teaching load, to allow faculty more opportunities for research and professional development. This, in the end, benefits students and the program as a whole.

The only other alternative, Novakovic says, is to decrease the number of majors or refuse to teach as many students from elsewhere on campus.

Increased resources would bring benefits not only to current faculty but additional hires would mean that the curricu-

lum could become more diverse, particularly in terms of upper-division courses.

As the program stands, it serves about 725 business management majors (the largest major in the college and one of the largest in the university). During the first two years, the program emphasizes a strong liberal education. Then, students take one year of very intensive management courses, and during the senior year they combine capstone requirements with specialized courses both within and outside the business curriculum. This won't change; it is one aspect the reviewers highlighted as particularly noteworthy. What will change is the range of courses offered within the major.

One way of accomplishing this is to establish stronger ties with existing programs at Cornell. For example, rather than creating its own human resources or organizational behavior curriculum, the program would like to take better advantage of those already offered by the School of Industrial and Labor Relations.

Of the many anticipated changes, one that Novakovic is putting into place now is the appointment of an advisory board for the program—a standard practice in business schools. In addition, Edward McLaughlin, the Robert G. Tobin Professor of Food Marketing, has been appointed associate chair of the business program.

"In the past, although we've had a curriculum that really put us in the sphere of business schools, we've stood somewhat apart from the business school community," Novakovic says. "Now we're jumping in more fully and embracing that culture."

This change and all others recommended by the accreditation review are getting the word out. Novakovic wants to be sure the world knows that here in the college, "We're in business."

Metta Winter

Faculty Obituaries

Alvin J. Braun, professor emeritus of plant pathology at the New York State Agricultural Experiment Station at Geneva, died June 7, 1999. He was 83.

Braun began his career at the Geneva experiment station in 1945 and retired in 1977. His career was spent conducting investigations on small fruit and grape diseases. He was responsible for developing spray schedules that could be used by New York grape and berry growers, determining which new fungicides were best to use, and analyzing spray equipment.

He worked with Cornell pomologists on developing disease-resistant varieties of grapes and small fruits, and he provided the growers of New York State with the latest information from his research findings.

Cornell Barbecued Chicken Gets Presidential Seal of Approval

President Bill Clinton sits with Professor Robert C. Baker '43 (far left) at the legendary Bakers' Chicken Coop eatery during a visit this past summer to the New York State Fair along with First Lady Hillary Rodham Clinton and their daughter, Chelsea. Also pictured between Mrs. Clinton and Chelsea is Baker's daughter, Reenie Sandsted, and across from Baker is his wife, Jackie. Professor Baker created the famous recipe which has satiated fairgoers for 50 years.

The President swapped stories with Baker about their mutual friends in the poultry business and gave a big thumbs up on the Cornell barbecue recipe.



Photo by Michael Okoniewski/Cornell University News Service

Message from the Dean

College Relies on Your Generous Support



The remaining two-thirds of last year's gifts was directed by donors to meet specific, current needs across the college. Individual departments, programs, and centers received the majority of this current-use gift income and put it to good use supporting undergraduate teaching, faculty research, and extension programming.

A small percentage of these current-use gifts were made with no restriction on their use and were utilized to meet special priorities across the college. Unrestricted gifts allowed us, for example, to purchase new computers for several ALS student computing centers. We also used them to help replace aging greenhouses and to make other facilities improvements. We directed other unrestricted gifts to support the college's commitment to leadership in genomics. Given the importance of each of these initiatives, it may seem hard to believe that the total of all unrestricted gifts to the college last year was just \$295,729, or 1.7 percent of the \$17.78 million in overall gifts. As you can imagine, we place the highest value on these unrestricted gifts and make decisions regarding their allocation with great care.

To fulfill our three-pronged mission of teaching, research, and public service, the college relies primarily on three sources of income: state and federal support, tuition income, and private charitable gifts. At a time when state and federal assistance is less certain than ever, and large increases in tuition would drive away the very students we seek to attract, we rely ever more on the generous support of alumni, friends, corporations, and foundations. We are profoundly grateful for your generous response to our college's needs this past year and I thank you for your partnership in our most worthwhile endeavors.

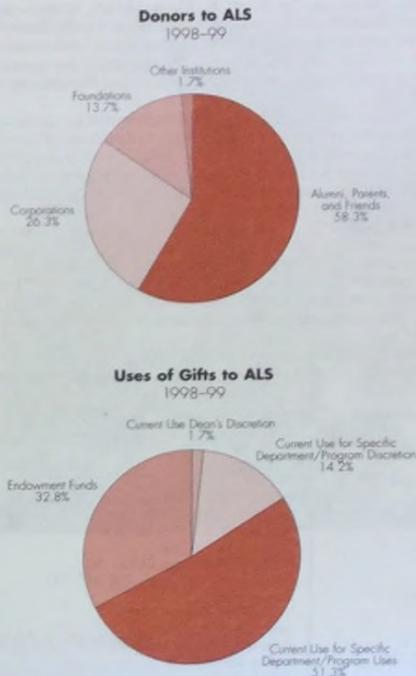
Daryl Lund

Daryl Lund, the Ronald P. Lynch Dean of Agriculture and Life Sciences

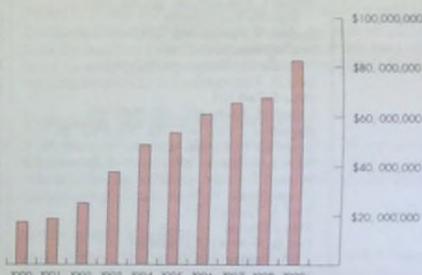
The 1998-99 academic year has been an extraordinary one for the College of Agriculture and Life Sciences in terms of charitable giving. The college has received a significant increase in the historically generous support of alumni, friends, corporations, and foundations. Charitable gifts to the college totaled more than \$17.78 million for the year ended June 30, 1999, an increase of 32.7 percent over last year.

Of this \$17.78 million, alumni, parents, and friends contributed \$10.35 million, or 58.3 percent. Corporations gave \$4.67 million (26.3 percent), foundations gave \$2.44 million (13.7 percent), and the remaining \$320,000 (1.7 percent) came from other institutions.

Approximately one-third of last year's gifts was designated by donors to endowment funds throughout the college. The Albert R. Mann Library and Undergraduate Scholarship Campaigns, which are the college's top endowment priorities, benefited from this endowment support, as did other existing and new endowment funds in the departments and programs. Special updates on the Albert R. Mann Library and Undergraduate Scholarship Campaigns can be found on pages 2A and 3A respectively. A list of new endowment funds established in the last year can be found on page 4A.



Invested Funds/Endowment Growth
Book Value of ALS' Long-Term Investment Pool Holdings



Special Report of Charitable Gifts to ALS

ALS Development Web Site

Check out the ALS Development Web site for the latest information on the college's fundraising priorities, an interesting selection of gift-giving opportunities across the college, and a secure, online pledge card to make your support of the college quick and easy!

For more information about the college's development programs, please contact

Michael P. Riley Jr. '87
Director of Development
College of Agriculture and Life Sciences
272 Roberts Hall
Ithaca, NY 14853
607-255-0359 (phone); 607-255-3803 (fax); mpr2@cornell.edu (e-mail)



http://www.cals.cornell.edu/public_affairs/development/

Mann Library Endowment Campaign a Success!

When he made his pledge to the Albert R. Mann Library Endowment Campaign, Herbert Kling '36 said, "A college is only as good as its library!" Thanks to a successful campaign to raise \$4 million in new endowment, Mann Library's collections will continue to be the foundation for groundbreaking research and teaching at the leading college of agriculture and life sciences in the nation.

Nearly 200 alumni and friends have contributed or pledged endowment funds during the past two years. Income from this endowment will enhance acquisitions, preservation efforts, and access to technology in Mann. "The success of this \$4 million campaign is a testimony to the influence that Mann Library has had, and continues to have, on students, faculty, and researchers at Cornell and around the world," says Daryl B. Lund, the Ronald P. Lynch Dean of Agriculture and Life Sciences.

Mann Library is the premier academic library in the United States in the subjects of agriculture and life sciences and human ecology. Students and faculty in both ALS and the College of Human Ecology, as well as individuals around the world, have access to past knowledge that allows them to discover solutions to today's problems. "Mann library is a powerful tool for investing in the world's future," says Stephen Ashley '62, chair of the Mann Campaign. "We are grateful to the alumni and friends who are investing in this future," says Ashley.

The colleges of Agriculture and Life Sciences and Human Ecology acknowledge the generosity of the following donors who have contributed to the Endowment Campaign.

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Mann Library's new wing looking from the walkway behind Emerson and Fernow Halls

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Donald A. Wheeler PHD '61
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Milton and Marjorie Zeitler
Jerome M. and Patricia Ziegler
Donald B. Zilvermit

*Deceased

Ways to Give

At this time of year, when many Americans make their charitable gift decisions, the College of Agriculture and Life Sciences is especially appreciative of the dedicated and generous support that alumni and friends provide each year.

The majority of gifts received by the college are in the form of cash (via check or credit card), marketable securities, or mutual fund shares. Increasingly, however, individuals are taking advantage of other giving options, including the establishment of trusts and bequest provisions in their wills.

Trusts can be established to support a college program ultimately, while first providing lifetime income to the donor and removing appreciated assets from the donor's taxable estate. Bequests, on the other hand, can provide for a college program through the assets in a donor's estate, after his or her death.

A growing number of alumni and friends are using these and other planned giving options to ensure that their personal finances are handled most advantageously, while allowing them to make generous charitable gifts to the college. Cornell has expert planned giving staff available; let us know if you would like them to provide additional information or answer any questions.

Maintaining Access to a Cornell Education: The Scholarship Challenge Campaign for ALS

In October 1998, Cornell President Hunter Rawlings announced a special fundraising campaign to increase endowment funds for undergraduate scholarships. "Our aim," explained President Rawlings, "is to keep Cornell affordable to the nation's most talented students while offering them a distinctive intellectual experience of unmatched quality and coherence."

Maintaining access to higher education is not new at Cornell; in fact, it was among the university's founding principles. In recent years, however, it has been increasingly difficult to meet the rapidly rising need for financial aid among undergraduate students.

Today, about 70 percent of all Cornell undergraduates receive some form of financial assistance; about 50 percent of them receive aid administered by Cornell. The amount that each student receives continues to grow, placing great pressure on the university's available resources. As a result, many of these students also borrow significant amounts in loans to help them finance their education. Nationally, the average student's debt upon graduation is more than \$14,000 (1997), an increase of almost 100 percent in just 10 years (\$7,800 in 1988).

For Cornell to continue to attract and retain the very best students, it must be able to offer additional assistance to undergraduates. One of the most promising ways to increase the assistance available is to build the university's undergraduate scholarship endowment.

Recognizing the importance of increasing Cornell's undergraduate scholarship endowment, a group of anonymous alumni has posed an important challenge as part of the scholarship campaign announced by President Rawlings: they will match, on a \$1 to \$3 basis, all new undergraduate scholarship endowment gifts of \$37,500 or more. For example, a \$50,000 gift, which can be paid over as many as five consecutive years, would be matched with an additional \$16,667 in challenge dollars. To be eligible for this match, new commitments must be made by December 31, 1999.

ALS alumni and friends have responded very generously to this need. As of September 7, 1999, the college had received gifts and commitments totaling \$6.484 million for undergraduate scholarship endowment. By comparison, from the college's founding to the announcement of this scholarship campaign, the college had received approximately \$8 million in scholarship endowment. In the last year, the gifts and commitments received have almost doubled the college's existing scholarship endowment.



Photo by Robert Barker

Scholarship Funds Established or Enhanced During Scholarship Challenge Campaign



Photo by University Photography

Edwin Dietz Floriculture & Ornamental Horticulture Scholarship

A gift from Edwin J. Dietz '30 has enhanced the Edwin Dietz Floriculture & Ornamental Horticulture Scholarship, first established by Mr. Dietz in 1996. Income from the fund will be used to provide financial assistance to undergraduate students in the Department of Floriculture and Ornamental Horticulture in the College of Agriculture and Life Sciences.

Judith Pick Eissner Scholarship

Judith P. Eissner has established the Judith Pick Eissner Scholarship. The fund's income will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences. First preference will be given to female students who are athletes.

Alan S. Farwell and Elizabeth Owen Farwell Scholarship

The Alan S. Farwell and Elizabeth Owen Farwell Scholarship has been established with a gift from the estate of Alan S. Farwell. Income will be used to provide financial assistance to undergraduate students with demonstrated financial need. First preference will be given to students of above average scholastic ability majoring in agriculture, agricultural science, natural resources, or horticulture. Second preference will be given to students involved in university athletics.

Robert H. Foote Cornell Tradition Fellowship

Robert H. Foote MS '47, PhD '50 has established the Robert H. Foote Cornell Tradition Fellowship. Income from this fund will be used to support undergraduate students in the College of Agriculture and Life Sciences.

Ruth P. and Robert H. Foote Scholarship in Agriculture and Life Sciences

A gift from the estate of Ruth P. Foote has established the Ruth P. and Robert H. Foote Scholarship in Agriculture and Life Sciences. Income from this fund will be used to provide scholarship assistance to needy undergraduate students enrolled in the College of Agriculture and Life Sciences.

Donald and Madelyn Maney Garrigan Scholarship

The Donald and Madelyn Maney Garrigan Scholarship has been established with a gift from the estate of Donald E. Garrigan. Income from the fund will be used to provide scholarship assistance to undergraduate students with financial need enrolled in the College of Agriculture and Life Sciences.

Ralph S. Gould '40 Scholarship

Ann Hyde Gould has established the Ralph S. Gould '40 Scholarship in honor of her husband, Ralph S. Gould '40. Income will be used to provide financial assistance to students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences.

Jeanne Helen Hart Scholarship

Myra Maloney Hart '62 and her family have established the Jeanne Helen Hart Scholarship. Income from this fund will be used to provide financial assistance to women undergraduate students who are studying animal science or pre-veterinary medicine.

William C. Hooley Scholarship

Austin O. Hooley has established the William C. Hooley Scholarship in memory of her father, William C. Hooley. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need. Preference will be given to those studying animal sciences or another pre-veterinary field in the College of Agriculture and Life Sciences and to those studying chemical engineering in the College of Engineering.

Helen E. Krebs Scholarship Fund in Agriculture and Life Sciences

The Helen E. Krebs '32 Scholarship Fund in Agriculture and Life Sciences was established by a gift from the estate of Helen E. Krebs. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences.

Wilhelmine Lind Memorial Scholarship

A gift from the estate of Marjorie Dean Cornell '39 has enhanced the Wilhelmine Lind Memorial Scholarship, first established by Mrs. Cornell in 1971. Income from the fund will be used to provide scholarship assistance to undergraduate women students majoring in floriculture in the College of Agriculture and Life Sciences.

Susan Lowell Scholarship

Susan P. Baker '51 has established the Susan Lowell Scholarship. Income from the fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences.

Marshall Family Scholarship

A commitment from Gary W. Marshall '64 has enhanced the Marshall Family Scholarship, first established by Mr. Marshall in 1994. Income from the fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences. First preference will be given to students from Wayne County, N.Y.; second preference to students from New York's Livingston, Ontario, Seneca, or Cayuga counties; and then from other areas of upstate New York.

Bruce A. Miller '61 Scholarship

Bruce A. Miller '61 has established the Bruce A. Miller '61 Scholarship. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences.

Photo by Charles Harrington



Charles and Carol Winter Mund Scholarship Fund

Charles J. '51 and Carol Winter Mund '52 have established the Charles and Carol Winter Mund Scholarship. Income will be used to provide financial assistance to undergraduate students with demonstrated financial need who are majoring in landscape architecture in the College of Agriculture and Life Sciences.

The New York Farmers Scholarship

The New York Farmers, Inc., have established the New York Farmers Scholarship Fund. Income from the fund will be used to enhance undergraduate education in agriculture by providing financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences.

Scholarship Funds Established or Enhanced During Scholarship Challenge Campaign (continued)

Nolan Family Fund

A gift from Peter J. Nolan '80 has enhanced the Nolan Family Fund, initially established by Mr. Nolan '80 in 1994. Income from the fund will be used to provide financial assistance to undergraduate students with demonstrated financial need who major in applied economics and business management in the Department of Agricultural, Resource, and Managerial Economics in the College of Agriculture and Life Sciences, with the requirement that the student work part-time while in school.

William F. O'Connor Scholarship

The William F. O'Connor Scholarship has been established by family and friends of the late William F. O'Connor '59. Income will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences.

Daniel J. and Doreen E. O'Kane Scholarship

Daniel J. '40 and Doreen E. O'Kane established the Daniel J. and Doreen E. O'Kane Scholarship. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences. First preference will be given to students studying biological sciences.

Valentine B. Pratt '32 Undergraduate Scholarship in the College of Agriculture and Life Sciences

Valentine B. Pratt '32 has established the Valentine B. Pratt '32 Undergraduate Scholarship in the College of Agriculture and Life Sciences. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences.

Everett Randall Family Scholarship

Everett C. '39 and Christiann D. Randall have established the Everett Randall Family Scholarship. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences.

Charles H. Roberts Scholarship

A gift from the estate of Montgomery E. Robinson '14 has enhanced the Charles H. Roberts Scholarship, which was first established in 1917. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences.

Jean R. and Kenneth L. Robinson Scholarship

Jean R. and Kenneth L. Robinson MS '47 have established the Jean R. and Kenneth L. Robinson Scholarship. Income will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences.

Jonathan B. and Barbara C. Roth Scholarship

A commitment from Jonathan B. '64 and Barbara C. Roth has enhanced the Jonathan B. and Barbara C. Roth Scholarship, first established in 1993. Income from this fund will be used to provide financial assistance to undergraduate students majoring in applied economics and business management in the Department of Agricultural, Resource, and Managerial Economics in the College of Agriculture and Life Sciences.

Dick '34 and Mildred Almstedt Rozelle '35 Scholarship

Richard J. Rozelle '34 has established the Dick '34 and Mildred Almstedt Rozelle '35 Scholarship. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need who have 4-H or Future Farmers of America (FFA) backgrounds and are enrolled in either the College of Agriculture and Life Sciences or the College of Human Ecology.

Herman R. and Winnifred C. Schenkel Scholarship

Herman R. '54 and Winnifred C. Schenkel '54 have established the Herman R. and Winnifred C. Schenkel Scholarship. Income will be used to provide an award in recognition of superior academic achievement to an undergraduate student enrolled in the College of Agriculture and Life Sciences or the College of Arts and Sciences, on an alternating basis.

Loni C. and Henry C. Schloer Scholarship

Henry C. Schloer has established the Loni C. and Henry C. Schloer Scholarship. Income from this fund will be used to provide financial assistance to undergraduate students in the College of Agriculture and Life Sciences majoring in international agriculture.

Meredith Clark Shachoy '91 Scholarship

Meredith Clark Shachoy '91 has established the Meredith Clark Shachoy '91 Scholarship. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences.

Danilo B. and Lydianila S. Soriano Scholarship

Danilo B. Soriano has established the Danilo B. and Lydianila S. Soriano Scholarship. Income from the fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences or the College of Arts and Sciences.

William B. Ward Communication Scholarship

Thora Bracken Ward has established the William B. Ward Communication Scholarship in the name of her husband, Professor William B. Ward. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences. Preference will be given to students majoring in communication who maintain a B average or higher.

Carl F. Wedell Scholarship

David G. '56 and Jane Wedell Pyle '57 have established the Carl F. Wedell Scholarship in memory of Mrs. Pyle's father, Carl F. Wedell '24. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences and who are landscape architecture majors. Second preference will be given to students studying horticulture.

ALS Endowment Funds Established in 1998-99

In addition to the endowment funds established through the Mann Library and Scholarship Challenge Campaigns, the College of Agriculture and Life Sciences has received other generous gifts to establish endowment funds to benefit a variety of programs and activities across the college. Following is a description of these new endowment funds established in the last year.



Photo by University Photography

Margaret S. Christie Agriculture in Developing Nations II Fund

Margaret S. Christie established the Margaret S. Christie Agriculture in Developing Nations II Fund. The income from the fund will be used to support expenses associated with the International Agriculture 602 course, as determined each year by the director of the International Agriculture Program.

CIIFAD African Programs Fund

This fund was established by an anonymous donor for the benefit of the Cornell International Institute for Food and Agricultural Development's (CIIFAD) programs in Africa. Income is to be used for these programs at the discretion of the director of CIIFAD.

The Golton/Novak Fund

The Golton/Novak Fund was originally established by colleagues, students, and friends to honor Professor Joseph E. Novak. A gift from the estate of Margaret A. Golton enhanced the fund this year. Income from the fund will be used to support research projects, activities, seminars, and visitors in the area of human behavior.

Theresa R. Humphreyville Gift Annuity

The Theresa R. Humphreyville Gift Annuity was established by Theresa R. Humphreyville. The income, when available, will be used to support annual costs associated with the Agriculture in Developing Nations II course (International Agriculture 602), as determined each year by the director of the International Agriculture Program.

Otto Keil Fund for Long Island Horticultural Research Laboratory

The Otto Keil Fund for Long Island Horticultural Research Laboratory fund was established by Otto Keil '59. Income from the fund, when available, will be used at the discretion of the director of the Long Island Horticultural Research Laboratory to support research and programs.

Alton Lee Knight '71 Scholarship Fund

The Alton Lee Knight '71 Scholarship Fund was established through a bequest by A. Lee Knight '71. The income from the fund will provide scholarship assistance to undergraduate students in the College of Agriculture and Life Sciences who are residents of New York State and come from farms.

Ralph C. Schutt Charitable Remainder Unitrust

The Ralph C. Schutt Charitable Remainder Unitrust was established by Ralph C. Schutt Jr. '41. When realized, this fund will provide unrestricted support to the College of Agriculture and Life Sciences, at the discretion of the dean.

Carlton O. and Dorothy M. West Scholarship

A gift from the estate of Dorothy M. West has established the Carlton O. and Dorothy M. West Scholarship. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences or the College of Human Ecology. First preference will be given to graduates of Horseheads High School in Horseheads, N.Y.

James H. and Alice P. Whitaker Scholarship

James H. '42 and Alice P. Whitaker '42 have established the James H. and Alice P. Whitaker Scholarship. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need enrolled in the College of Agriculture and Life Sciences or the College of Human Ecology, on an alternating basis.

Gordon J. Whiting '87/Sigma Chi Scholarship

Gordon J. Whiting '87 has established the Gordon J. Whiting '87/Sigma Chi Scholarship. Income from this fund will be used to provide financial assistance to undergraduate students with demonstrated financial need. First preference will be given to members of the Sigma Chi Fraternity enrolled in the College of Agriculture and Life Sciences who play a significant leadership role in the fraternity. Second preference will be to any member of the Sigma Chi Fraternity who has financial need.

ALUMNI NOTES

1920s

Myron M. Faerst '29 of Rhinebeck, N.Y., attended his 70th reunion at Cornell this summer.

1930s

Claire Kelly Gilbert '37 of Sarasota, Fla., is a chronic "reuniter" having recently returned a few years ago for her 60th Reunion.

George "Doc" Abraham '39 and his wife, Katherine "Katy" Abraham '42 of Naples, N.Y., were inducted into the Garden Writers Association of America Hall of Fame in August. Together, they have written more than a dozen books on gardening. They also have been writing the syndicated Q&A gardening column "The Green Thumb" since the end of World War II as well as for 48 years hosted a weekly radio program by the same name in Rochester, N.Y.

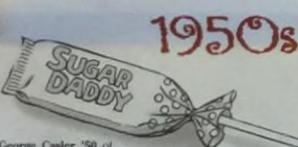


1940s

Hartley V. Martin '41 of Central Square, N.Y., became a grandparent to twins in May 1999, when his daughter Cathy Martin Hall gave birth to a son and daughter. He also has four great-grandchildren.

Dr. Bertram King '42 of North Miami Beach, Fla., is a retired optometrist and spends half of the year in Florida and the other half in New York. He travels extensively including a trip to Vietnam.

Jimmy Miller '46 of Willsville, N.Y., has had several occupations including extension agent (two years), Cornell wrestling coach (27 years), minister (40 years), and part-time farmer (60 years).



1950s

George Casler '50 of Ithaca, N.Y., and his wife, Pat, enjoyed a 46-day trip to Australia and New Zealand in the spring of 1999.

Ed Migdalinski '52 of Hamden, Conn., a retired ichthyologist, is the founder and director of an outdoor education center at Yale University.

André Vette '54 of Fishersville, Va., was awarded the Medal of Honor by the Garden Club of America for his outstanding service to horticulture. He has served the horticultural community in many ways: by lecturing and teaching, and by serving on the boards of the American Horticultural Society

and other garden organizations. His national weekly radio talk show "In the Garden" is broadcast in nine states on 39 stations and has a growing legion of enthusiastic listeners.

Otto E. Schneider Jr. '55 of Newton, N.J., a retired insurance broker is the co-president of the Class of 1955.

Ruth Morse Harris '56 of Fredericksburg, Va., retired in 1995 after 25 years of elementary teaching at Elba, N.Y., Central School. In 1997, she and her husband, Bickley, sold their home in Balavia, N.Y., and now live full time in an RV, traveling throughout the U.S. and Canada. They enjoy challenge square dancing and campground life.

Bede N. Okigbo MS '56, PhD '59 of Awka, Anambra, Nigeria, became a professor and head of the Plant/Soil Science Department at University of Nigeria (1965-1973), deputy director general IITA (1977-1988), and director of United Nations University Institute for Natural Resources in Africa (1990-1996). He has been retired since December 1996.

Dwight H. Emmanuelson '57 of Hilton Head Island, S.C., is a senior vice president of investments with Prudential Securities and is celebrating his 42nd year in the profession.

Jane Taber Gillett '57 of Horseheads, N.Y., has recovered from a brain tumor and heart attack in 1997, and is again creating pottery and ceramic sculptures. She is enjoying her four children and six grandchildren.

Joel E. Lieber '58 of Dayton Beach, Fla., is retired as superintendent of Ralph Brennan Water Plant for the city of Dayton Beach.

Aaron M. Cohen '59 of New Paltz, N.Y., first went to Japan in 1960-61 on a Dreyer Award from Cornell. He will soon be returning to the U.S. after his second visit to Japan, which lasted over 35 years.

1960s

James S. Townsend MS '65, PhD '69 of Winnipeg, Manitoba, Canada, achieved Fellow status in the American Society of Agricultural Engineers (ASAE), after a nomination from his peers in ASAE. He recently retired as a professor from the University of Manitoba and currently serves as president of SEATAB Consulting Service.

James F. Davis '67 of Darien, Conn., was recently elected president of Accuracy in Academia, a nonprofit public service organization based in Washington, D.C., that seeks the reassertion of traditional academic ethics in our universities. Other Cornellians in the faculty include son, Christian '97, and daughter, Samantha '90.

James B. Van Houten '66, MBA '68 of Orangeburg, N.Y., owner of Van Houten Farms, has been selling plants and produce in the New York City Greenmarket for the past 23 years. The grandfather of two, his nephew Darin '99 also works for him.

1970s

James E. Ashton MPS '71 of Clinton Corners, N.Y., retired in 1985 from Cornell Cooperative Extension after 30 years of service.

Malcolm H. Shoady, Jr. MS '71 of Charleston, S.C., a retired marine scientist for S.C. Wildlife and Marine Resources Department, is the president/owner of World Adventure Tours and Travel, an educational ecotourism company. He and his wife, Sue, are the parents of son, Malcolm Shoady III, and daughter, Elizabeth.

Dale L. Mattson '87 of Union Springs, N.Y., with his wife, Colleen Placione Mattson '88, operate the Pine Hollow Dairy in Locke, N.Y. They have three daughters: Morgan (6), Erin (4), and Lauryn, born in April '99.

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Greg Wickham '73 of Manlius, N.Y., is a chief financial officer for DairyLax. Active in his community as a Little League coach and recreation league basketball coach, he also serves on the Fayetteville Manlius Little League board of directors and Alpha Gamma Rho board of trustees. He and his wife, Lisa, have three children: Lindsay (16), Scott (14), and Steve (9).

Eddy-Michel Daniel '74 of Hollywood, Fla., processes seafood in Costa Rica, grows organic vegetables in northern Florida, and manufactures specialty throw pillows from imported tapestry fabrics. He also recently started an e-commerce business. Daniel has two children, ages 25 and 17.

Christine Redmond Tausel '74 of Schenectady, N.Y., is a farm wife, mother of three sons—one, John '93, is an assistant science major. She is an assistant to NYS Senator James Seward.

Douglas G. Snow '76 of Elm City, N.C., sold his cash crop operation in '93 and currently is running a small trucking business. He would like to hear from classmates and can be reached by email at dsnowdale@imflex.com.

1980s

Doana Pienkowski '80 of Reno, Nev., is a middle school science teacher, has received numerous awards, including the county's 1994 Conservation Educator of the Year. She is active coordinating extracurricular environmental education programs, such as Earth Day, throughout northern Nevada. Spouse, Avid G. Smith '80, is chief instructor at the Aldo Leopold and president of Precursor Systems, Inc., an international electrical power development consulting firm. Both are looking forward to enjoying retirement and running a bed and breakfast in the next millennium.

Ora G. Rothman III '80 of Macedon, N.Y., worked in production agriculture as a dairy farmer until March 1998. In May 1998, he was hired by Wayne County Planning as an agriculture development specialist. He and his wife, Heidi, have a son, Ora (6), and daughter, Amelia (5).

Phebe Clark Ladd Mertes '81 of College Station, Texas, is CEO of Mertes Internet Construction Co. After two years of business, the company is flourishing, hiring more employees and acquiring more clients to include networks, web pages, and electronic commerce.

Eta J. Smith-Menges '84 of Waterford, N.Y., is a retired biostatistician for the NYS Department of Health.

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Valerie A. Schneider '94 of Brighton, Mass., is in graduate school at Harvard Medical, planning to complete her PhD and get married in 2000.

Jason A. Straka '94, MPS '95 of Dublin, Ohio, is employed by Hurdzan/Fry Golf Course Design as a golf course architect. Married to Heather Systma (DLR '95), he remains involved with Cornell through the Central Ohio Alumni Association.

Beth A. Camesano '95 of Hoboken, N.J., is a business analyst for Bankers Trust Private Banking. She was married on May 1, 1999, in her hometown, Utica, N.Y., and many alumni were in attendance.

Lynn Lettner Hickey '95 of Schenectady, N.Y., graduated from Albany Medical Center in 1999 and is a resident physician at Albany Medical Center, training in combined internal medicine and pediatrics. On July 18, 1998 she married Kevin Hickey and is active in alumni activities, including CAAAN, Class of 1995 Council, and ALS Alumni Association Leadership Team Member.

Gilberto Olaya PhD '95 of Castro Valley, Calif., is a research scientist for Zeneca Agriculture Products and works on fungicide resistance; he has responsibilities in North America and Latin America.

Lisa M. Piazzi '95 of West Lafayette, Ind., recently graduated from Purdue Veterinary School and began a one-year emergency medicine internship at After Hours Small Animal Emergency Clinic.

Craig R. Schutt '95 of Dryden, N.Y., was promoted to conservation district manager for Tompkins County Soil and Water Conservation District in September 1998. In May 1999, he completed the LEAD New York program.

Priscilla Yu '95 of Philadelphia, Pa., is pursuing an MBA at Wharton School at University of Pennsylvania.

Stacey L. Battist '97 of Consoack, N.Y., is a veterinary pharmaceutical distributor/territory manager for Penn Veterinary Supply.

Julie A. Belson '97 of Medina, N.Y., is attending SUNY Brockport to obtain a master's of education in secondary science. She is active in Cornell alumni activities including CAAAN and Genesee/Orleans Cornell Club of which she serves as secretary.

Kathryn E. Bonitt '97 of White Plains, N.Y., is an account executive for Gibbs and Seel, Inc., a public relations firm that does work in agriculture. She was married to Scott Wallace in October and is a member of the Cornell Club of New York.

Eileen B. Cahill '97 of Commack, N.Y., is enrolled in an MPA program at NYU Wagner School of Public Service, studying health management and policy.

Magdalena Cerda '97 of New Haven, Conn., graduated this year with an MPH from Yale School of Epidemiology and Public Health.

Vivian Cruz '97 of Allston, Mass., completed an MSW this year at Boston College and is coordinator of community services at Centro del Cardenal.

Christian L. Costello Davis '97 of Darien, Conn., is working toward a PhD in organismic and evolutionary biology at Harvard University.

Pamela Felicia '97 of Sunnyvale, Calif., recently moved to the West Coast to begin a PhD program in the biosciences at Stanford University.

Adrian E. Gall '97 of Bethesda, Md., is working in Alaska for the United States Fish and Wildlife Service.

Prerana Jayakumar '97 of San Diego, Calif., is pursuing a PhD at University of California San Francisco in the biomedical sciences program and is a member of the Los Angeles Cornell Alumni Association.

Mark S. Lamonica '97 of North Merrick, N.Y., is attending Syracuse Journalism Graduate School.

Michael A. Mischna '97 of Los Angeles, Calif., received a master's of science in meteorology at Penn State University and is pursuing a PhD in earth and space science at UCLA. His alumni involvement includes Alpha Zeta Fraternity and the Quill and Dagger Alumni Association.

Omar Pineda PhD '97 of Castro Valley, Calif., is a research scientist for Mendel Biotechnology, a company interested in genomic analysis in arabidopsis. She is also a mother to an active three-year-old daughter.

Andrew H. Smith '97 of Collegeville, Pa., is working in Guatemala as a Peace Corps volunteer and will be returning soon.

Jennifer A. Walters '97 of Seaford, N.Y., is a third-semester student at Ross University School of Veterinary Medicine, in St. Kitts, West Indies.

David J. Witkowski '97 of Charlottesville, Va., is finishing his master's of science in microbiology at the University of Virginia. Future plans include getting married on July 15, 2000, and looking for human resource work. He has remained active with Cornell by serving as president for the Class of 1997 and chair of a CAAAN (Cornell Alumni Administrators Ambassadors Network) committee.

Sarah Brown '99 of Syracuse, N.Y., is a first year veterinary student at Ross University.

Amy L. Hetherington '99 of Cayuga, N.Y., works as a consultant for American Management Systems and enjoys playing tennis and golf and swimming.

Joe Compagni MPS '90 of West Long Branch, N.J., is director of the women's and men's track and field and cross country program at Monmouth University. Last spring, he was named Northwest Conference Men's Outdoor Track and Field Coach of the Year for the third straight year, after they captured the conference title. His daughter, Gabriela, was born December 28, 1998.

Merrie E. Slavin '90 of Ringwood, N.J., made a career change from working in agriculture to being a marketing and communication manager for Copco Capital, a mid-size equipment leasing company. She is happily married and the mother of two.

Aida P. Aponte '92 of Rochester, N.Y., completed an internship in small animal medicine and surgery in 1997 and is a veterinarian at the Animal Hospital of Pittsford. On May 15, 1999, she married Robert M. Lamm.

Jeanine Polito Centanni '92 of Westwood, N.J., and her husband, Vincent, proudly announce the birth of their first child, Abby Catherine, on May 7, 1999.

Lisa Chin Potash '92 of Weston, Conn., works for Clairrol as an associate product manager. She graduated this year from Stern School of Business at NYU with an MBA, and is married to Ken Potash.

Suzanne Ballet Daniels '93 of Ballston Spa, N.Y., is the owner of Ballet Flowers and Design and married James Daniels in November 1998.

Michelle L. Kimball '93 of Poughkeepsie, N.Y., is an attorney for Geller and Cutler, PC.

The drawings of candies for each decade are by Ithaca artist Jim Houghton.



ALS alumni enjoy food and fellowship at the Association's Tailgate on Saturday, September 25. Pictured l-r: Cliff Luders '38, Dick Church '64, Jim Colby '50, Dave Tetor '65, Burniece and Nate Herendeen '64. Cornell defeated Fordham 42 to 14.



Trina Lee '01
student writer

Outstanding Alumni Awards Banquet

September 24, 1999



Dean Daryl Lund presents a preview of the new Alumni Recognition Wall being developed to go outside the David L. Call Alumni Auditorium.



Outstanding Alumni Award recipients, pictured fr, seated: John C. Sterling '59 (Faculty/Staff Award), James A. Colby '50, back row: Harold F. Hintz MS '61, PhD '63 (Faculty/Staff Award), John A. Noble '76, Robert D. Ladd '43, Glenn O. MacMillen '54, and Willard DeGolyer '69.



Jill Zimmerman '01, a statistics and biometry major from New City, N.Y. receives the ALS Alumni Association award of \$100 for achieving the highest average as a new transfer student, with Dean Lund presenting the check. Also recognized for a similar award for the highest average after three years was Chun Kit Fung, a biological sciences major from Brooklyn, N.Y.



Wirulda Pootakham '02, a plant science major from Chiang Mai, Thailand, receives the Alpha Zeta key for achieving the highest average in the freshman class, presented by Paul Ruszkiewicz '98, chancellor for Alpha Zeta, as Dean Lund looks on.



Past and current award winners, seated fr: Jane Longley-Cook '69, Esther Bondareff '37, Henry Munger '36; Donald Robinson '41; Herbert Kling '36; second row: Daniel Decker '74; John Clark '80; David Nolan '49; Albert Beard '52; Joseph Peck '60; Raymond Johnson '54; James Colby '50; Bernard Potter '43; George Connerman '52; back row: Charles Wille '50; Kenneth Wing '58; Robert Ladd '43; Jean Rowley '54; John Sterling '59; Harold Hintz MS '61, PhD '64; Richard Warner PhD '61; Willard DeGolyer '69; Al Lounsbury '55; Bob Bitz '52; Glenn MacMillen '54; Frank Wiley '44; John Noble '76; Bernard Stanton '49; Norman Allen '44; Robert C. Baker '43; Donald Bay '55; Cliff Luders '38.



President Hunter Rawlings and Elizabeth Rawlings, along with Dean Daryl Lund talk with Outstanding Alumni Award recipient Robert D. Ladd '43.

Photos by Robert Barker

Moving?

Stay in touch with your alma mater through uninterrupted delivery of ALS News by returning the change-of-address form. Mail to Office of Alumni Affairs, Cornell University, 276 Roberts Hall, College of Agriculture and Life Sciences, Ithaca, NY 14853-4203.

Name _____

Class Year _____

I.D. # _____

Alum Faculty Friend

Former Address _____

New Address _____

Phone _____

Call for Nominations for Outstanding Alumni, Young Alumni, and Faculty/Staff Awards for 2000

The ALS Alumni Association invites alumni to submit an application for nominees for the outstanding alumni, young alumni, and faculty/staff awards. Criteria include career success, service/ leadership to Cornell/ ALS, and community service with significant achievement in at least one of these areas. **The application deadline is April 1, 2000 (postmarked).**

To receive an application, please contact:

Linda Wyllie, ALS Alumni Affairs Office, Cornell University, 276 Roberts Hall, Ithaca, NY 14853; phone: 607-255-7651; e-mail: LLW8@cornell.edu

Mann Library Staffers Garner Prestigious USDA Award

Secretary of Agriculture Dan Glickman saluted five staff members of Mann Library recently by presenting them with the 1999 Secretary's Honor Award at a ceremony in Washington, D.C. The award, one of the U.S. Department of Agriculture's (USDA) highest distinctions, was presented for the librarians' work in creating and maintaining the much publicized USDA Economics and Statistics web site.

Glickman thanked the team for "establishing an innovative USDA-university partnership for cost-effective and timely delivery of important economic information."

Inaugurated in 1994, the USDA's Economics and Statistics System is a partnership with Mann—the country's largest academic agricultural library—and the statistical agencies of the USDA. The system provides the public with instant, free access via the internet to vital USDA agricultural information.

Janet McCue, director of Mann Library,

said the award was "an acknowledgement of the creativity, dedication, and efficiency of the staff who provide excellent service to users around the world."

The Mann Library's USDA Economics and Statistics System web site is: <http://usda.mannlib.cornell.edu>

Pictured are the award recipients: Ir. Sandra B. Driscoll, technical services; William R. Kehoe, programmer analyst; Josephine P. Jaynes, technical services; Julie Peterson, technical services; and Gregory W. Lawrence, Mann's government information librarian. The award was presented on June 9 in a ceremony on the west lawn of the Jamie L. Whitten Federal Building.



ALS MEMBERSHIP

ALS
ALUMNI ASSOCIATION

MEMBERSHIP

Name _____
 Class year/s _____
 Street _____
 City _____
 State _____ Zip _____
 Telephone number _____
 County _____
 Biographical notes (Use separate sheet of paper if necessary):

Dues:

'98 or '99 graduate (fee waived) at \$0 _____
 Graduated in last 5 years at \$20 (2-year) _____
 2-year membership at \$29 _____
 Spouse at \$21 _____
 4-year membership at \$54 _____
 Spouse at \$38 _____
 Lifetime Membership at \$350 _____
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First installment on my Lifetime Membership at \$125 per year for 3 years
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Please make your check payable to the ALS Alumni Association or pay with a credit card:

Discover Card MasterCard VISA

Expiration Date _____

Account # _____

Signature of cardholder _____

Mail to: Office of Alumni Affairs
 276 Roberts Hall
 Ithaca, NY 14853-4203

Gift Membership to the ALS Alumni Association of the College of Agriculture and Life Sciences at Cornell University

To: _____

From: _____

Alumni gather in California



SURPRISE GET-TOGETHER:

George Casler '50, MS '59 met up in an unplanned get-together with an AZ fraternity brother, Ray Borton '53, and former advisee Seth Hall '79 at the Atlas Peak Winery alumni event in Napa Valley, Calif., on September 18. Casler and his wife, Pat, of Ithaca, N.Y., were visiting Atlas Peak unaware of the alumni event. Pictured: Ir. Hall, Casler, and Borton, district director.

SPEAKERS: Enjoying the sun after speaking at the Atlas Peak Winery alumni event are Ir. Visiting Professor Pasquale Durand, West Coast regional director Peter Lee (Hotel '63), and Leslie Weston '80, professor of horticulture. This event was co-hosted by the northern California ALS alumni district and the northern California Cornell Club. More than 150 alumni attended.



Scenic Prints of Cornell & Ithaca

A Perfect Gift

The college's alumni association is offering 10" x 13" and 15" x 17" color reproductions of four oil paintings by Victor R. Stephen, professor emeritus of communication. Alumni and faculty members chose these scenes, which represent the four seasons, as the most memorable of campus and the Ithaca countryside. Send the following:



10" x 13"

15" x 17"

- | | | |
|---|----------------------------|----------------------------|
| <input type="checkbox"/> Taughanock Falls...Winter Morning | _____ prints at \$10 each. | _____ prints at \$20 each. |
| <input type="checkbox"/> Libe Slope...Spring Evening | _____ prints at \$10 each. | _____ prints at \$20 each. |
| <input type="checkbox"/> Beebe Lake Bridge...Summer Night | _____ prints at \$10 each. | _____ prints at \$20 each. |
| <input type="checkbox"/> Cascadilla Gorge...Fall Afternoon | _____ prints at \$10 each. | _____ prints at \$20 each. |
| <input type="checkbox"/> The Four Season Set: | _____ all prints for \$35. | _____ all prints for \$70. |
| <input type="checkbox"/> Alumni Assn. members, \$30 (10" x 13") or \$60 (15" x 17") a set. My membership expires: _____ | | |

Please add \$5 for delivery outside continental United States. Enclose check or money order payable to ALS Alumni Association.

Mail to ALS Alumni Association, Cornell University, 276 Roberts Hall, Ithaca, NY 14853.

Name _____

Address _____

City _____ State/Country _____ Zip _____

This is a gift order. Please mail to above individual, and enclose a card reading: _____

National Agricultural Alumni & Development Conference Hosted by Cornell

July 7-10, 1999



It all began here! The NAADA '99 Steering Board met quarterly starting in December 1997 to plan the Cornell conference. Pictured (r. lower left): Jean Szabadi MS '82, conference coordinator; Dave Teter '65, co-chair; Jane Langley Cook '69, promotion and welcome; (partly hidden); Bernice Potter-Masler '82, alumni event; Nate Herendeen '64, co-chair; Doug Brodie '55, sponsorships; Dave Peterson '79, ag tours; Harriet Pimm '99, student program; Geoff Yates MS '77, budget; Sharon Detzer '88, facilities; and Linda Wyllie, registration. Missing from photo: Ted Mullen, exhibits; Jim Pratt, golf tournament; Jim Preston '50, family programs; Tim Conk '88 and Dick Church '64.



Cornellians Honored

At the awards banquet Friday evening, three Cornellians were recognized: Robert W. Bitz '52 and Dave Teter '65 with the NAADA Volunteer Service Award and Richard A. Church '64 with the Professional Service Award. Front row (l-r): Kirby Payer, Clemson University; Donna Pearce, North Carolina State; Dave Teter '65, Cornell University; and Ron Schuler, University of California at Davis. Second row: Marcy Heim, NAADA president, University of Wisconsin; Robert Bitz '52, Cornell University; Laurie Lawson, Clemson University; Mark Fleming, North Carolina State University; Richard Church '64, Cornell University; and Pam Powell, NAADA awards chair, Oregon State.

New District Directors Named



Mark Kellogg '80 of Fishers Landing, N.Y., is the new district director for Lewis, Jefferson, and St. Lawrence counties replacing William Rodée '57. He holds a B.S. degree in agricultural economics and is a tax specialist with First Pioneer Farm Credit. He and his wife, Susan, have two children, Emily and Andrew. Kellogg can be reached at 315-782-6050 or via e-mail at Mark.Kellogg@Firstpioneer.com



Jerry Marley '71 of Gainesville, N.Y., is the new district director for Orleans, Genesee, Wyoming, and Livingston counties replacing Ray Ermenwein '64. Marley received a B.S. degree in animal science and is the owner/manager of Hardys Station Farm. He has served as president of the Cornell Club of Wyoming County and director of the Wyoming County Farm Bureau. He has four children including Mike, who is a current ALS student set to graduate in 2002. Marley can be reached at 716-322-7790.



Joseph D. Moran '91 of New York City is the new district director for Richmond, Kings, and Queens counties replacing Andrew M. Gellert '89. Moran received a B.S. degree in biology and is a lending officer with Allied Irish Bank in New York City and enjoys basketball, skiing, and tennis. He can be reached at 212-717-1543 or via email at jdm33@cornell.edu



April Horowitz Moulart '91 of Nyack, N.Y., is the new district director for Rockland, Putnam, and Westchester counties replacing Mark L. Wilson '79. Moulart received her B.S. in Natural Resources and did graduate work through North Carolina State on sustainable agriculture practices in Honduras. She married Azur Moulart Quiros in 1996, whom she met in the tropical rainforest of Costa Rica, where he is originally from. She is currently an environmental associate for Frederick P. Clark Associates in Rye, N.Y. Moulart can be reached at 914-348-9492 or via email at ajh32@cornell.edu

The Cornell Dairy Store Holiday Gift Boxes

Boxes contain Cornell maple syrup, New York State cheese

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| A. Party Pleaser | \$34.99 |
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PURE ADIRONDACK MAPLE SYRUP

-Terrific Gifts!

The college's Department of Natural Resources can ship Cornell-brand maple syrup in "mailable" plastic jugs anywhere in the United States. Each jug carries a label indicating that the syrup was produced in Lake Placid.

Pure Cornell maple syrup is produced at the Uihlein Sugar Maple Research-Extension Field Station in the Adirondack Mountains. Sales support sugar maple research and extension. Syrup is available year-round.

List prices include shipping.

Size	Price by Zip Code Prefix	
	01 to 50	51 to 99*
Pint	\$12.00	\$12.75
Quart	17.25	18.00
Half-gallon	25.50	26.75
Gallon	42.25	45.00

To order, write:

Uihlein Sugar Maple Research-Extension Field Station, Bear Cub Road, Lake Placid, NY 12946. Attn: Lewis Staats

Make checks payable to Cornell University.

*Prices apply to continental U.S. only; others should contact Lewis Staats for information.

New Graduate Student Director



Lance Baumgard '01 of Round Lake, Minn., was elected graduate student director for the ALS Alumni Association's board of directors at the Association's annual meeting on June 12. He replaces Dale Porter '95, PhD '00. Baumgard grew up on a swine and crop farm in southwestern Minnesota. He attended the University of Minnesota where he majored in science in agriculture as an undergraduate and earned a master's degree in animal science. While attending Cornell, he is working on his PhD with Dale Bauman in the Department of Animal Science. Baumgard can be reached at lhb5@cornell.edu, or at 607-266-0016.

Why Is Student Leadership Important?

In my fourth and final year at Cornell, I have the opportunity to look back at my years here and give myself a thorough self-evaluation. I'm always asking myself questions: What have I accomplished? What should I have accomplished? How have I changed since freshman year?

Well, my reflection has led me to the narcissistic conclusion that I have in fact accomplished much, made a difference, and changed for the better. Probably many graduating seniors share this viewpoint. After all, who would want to think that he or she just went through four grueling years of college just to emerge unchanged? But I feel that there is one crucial factor that can separate those who have made a difference and those who have cruised through college on autopilot: involvement.

I feel that my involvement in different organizations and activities has taught me more about what will be expected of me in the real world than any class in finance or statistics or wines. Why? Because involvement is the first vital component to devel-

oping effective leadership skills—the most important skills that I believe anyone can have. Students cannot become effective leaders if they do not become involved in activities outside of their own dorm or apartment. The activities could be with fraternities, political organizations, singing groups, sports teams—the list goes on.

But why is leadership important? What does it take to be an effective leader? Leadership is part of someone's personality—some of it is instinctual, some of it is learned. The leader is always the central person in a group, driving that group toward its goals. What happens to a group with no leader? Someone either steps up and takes the role or the group falls apart.

Our graduating class will be spending the rest of our working days assigned to various teams and groups and we will be expected to accomplish a variety of tasks and to solve a range of problems. And if we cannot step up and assume leadership, who will? Will our teams and groups fall apart because no one has the necessary leadership skills?

This is why getting involved early in our

college careers can help us considerably in our working years. By learning, developing, and honing our leadership skills in college, we will find it much easier to apply these skills to job-related situations.

But some people believe that they cannot be leaders. Whenever I discuss leadership with people, someone always gives me the inevitable response: "Some people are born to lead, some are not. I'm not born to be a leader." This is very shallow thinking. Anyone who applies him or herself properly can be a leader. Leaders are people who can take control of situations and guide a group of people. Leaders are people who have faith in what they do. Who can be a leader?

A leader is someone who

- possesses essential qualities like drive, determination, and vision.
- accepts authority, responsibility, and accountability.
- can get the job done and keep the group together.

• is communicative, empathetic, enthusiastic, alert, and open.

• is not a dictator or a boss.

• is like you or me—anyone can be a leader.

So what are the implications for other Cornell students? Get involved and stay involved. You too can make a difference.



Jared Halpin '00
Senior Student Director
ALS Alumni Association

Display Your Diploma Proudly

The ALS Alumni Association is proud to present this distinctive artwork of nationally known artist Robin Lauersdorf.

Carefully researched and meticulously drawn, this highly detailed pencil drawing of Cornell University captures the historic significance and the unique beauty of our campus. It depicts Goldwin Smith Hall, Bailey Auditorium, Willard Straight Hall, McGraw Tower, Uris Library, Beebe Lake Falls, Sage Chapel, and the Ezra Cornell Statue.

The artwork is

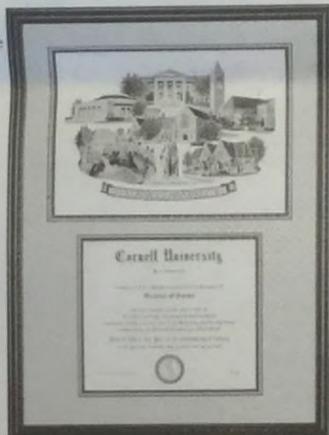
- reproduced on the finest quality, acid-free, 100 percent rag museum paper.
- framed with museum-quality mats and a mahogany frame.
- unconditionally guaranteed.

Partial proceeds will provide endowment funds for scholarship aid for ALS students and support other student and alumni projects.

The artwork is available in two forms: a 19" x 25" limited edition signed and numbered print, limited to 500 prints, and a 14" x 19" print. Both sizes are available framed and unframed. The smaller print has also been uniquely framed as a **diploma holder**.

Consider these benefits of our **diploma holder**:

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Framed Diploma Holder—\$169

To receive a full-color brochure or to place an order please call

Cornell Alumni Artwork

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Calendar

2000

January 15

Cornell vs. Western Michigan hockey game in Ithaca, N.Y., with dinner preceding the game for alumni in Broome, Cortland, Tioga, and Tompkins counties. For details contact Bernice Potter-Masler '82 at (607) 756-5010.

January 27

Retired New York State Extension agents luncheon, 11:00 a.m., Sarasota, Fla. Contact Barbara and Joe Huth '53 at (518) 439-5487 or after 12/22/99, (941) 485-0293.

January 28

Cornell vs. Colgate hockey game in Hamilton, N.Y., with pregame reception at the Colgate Inn for all ALS alumni. Contact Bill Davidson '66 at (607) 674-6211.

February 2

The New York State 4H Foundation Board of Trustees will be meeting and welcomes new chair, Mark Bitz MS '85. The Board will hear reports of the 4H Capital Campaign from Peter Huntington '55 among other reports.

February 12

Cornell vs. St. Lawrence hockey game and pregame dinner in Canton, N.Y. For more information, contact Mark Kellogg '80 at (315) 686-4379.

February 26

ALS Alumni Luncheon for Central Florida alumni, Leesburg, Fla. Speaker Janet McCue, Director of Mann Library. Contact Don Robinson '41 at (352) 787-3644.

March 28

Dean/Alumni Gettogether for Allegany and Steuben counties. For details contact Durland Weale '44 at (607) 359-2179.

March 31

ALS Alumni Association committee and board of directors meetings, Student Appreciation Banquet, and leadership 2000 keynote address.

April 1

Leadership 2000 leadership conference for Alumni Association Leadership Team members. For more information, contact the ALS Alumni Office at (607) 255-7651.

April 1

Outstanding Alumni Awards nominations deadline (postmarked). For nomination forms, contact the ALS Alumni Office at (607) 255-7651 or email: linda.wyllie@llw8@cornell.edu

April 6

Dean/Alumni Gettogether for Albany, Rensselaer, and Schenectady counties. For details contact Peter Pankowski '74 at (518) 785-3675.

April 18

Dean/Alumni Gettogether for Cattaraugus and Chautauque counties. For details, contact Robert Gloor '62 at (716) 673-1850.

April 19

Dean/Alumni Gettogether for Clinton, Essex, Franklin, and Hamilton counties. For details, contact Geoff Yates '77 at (518) 298-5257.

April 24

Dean/Alumni Gettogether for Monroe, Ontario, and Wayne counties. For details, contact Pete Gardner '57 at (716) 359-2944.

May 23

Senior/Grad BBQ for ALS seniors and grad students, Ag Quad, 5 p.m. For details, contact Tim Conk '86 at the ALS Alumni Affairs Office at (607) 255-7651 or email: tp7@cornell.edu

May 28

Commencement

June 8-11

Reunion Weekend

June 10

ALS Alumni Association Reunion Breakfast, 7:30 a.m. (location to be announced)

ALSN EWS

Agriculture and Life Sciences

December 1999

Deer Ahead!

You are driving down a two-lane highway at dusk, pushing the speed limit. It's been a long day. Suddenly in front of your headlights appear two flashlight-size beams of light, frozen just beyond the hood of your car. . . and you join the 1.5 million U.S. drivers who find themselves in deer-car collisions every year. Of these, 29,000 suffer injuries

(continued on page 1)



Small Businesses Support Communities

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Dated Material
December 1999



Former POW Heads Army Combat Hospital



Can We Sustain Agriculture?



Business Program for Undergrads



FIREFLIES ARE KILLING LIZARDS:

Just one firefly, with its poisonous lucibufagin chemicals, is enough to kill the lizard that eats it, a lesson that American pet owners and zookeepers are learning the hard way.

Some of the most popular lizards in zoos and private collections are from parts of the world without poisonous fireflies—and without the innate distaste most animals in North America seem to have for the little beetle with the trademark glow. But a summer rash of reptile and amphibian deaths has prompted Cornell University biologists to issue the warning: Don't let your lizards eat fireflies.

"Reptiles have become one of the most popular kinds of pets in this country," says Cornell herpetologist Craig Adler, professor of neurobiology and behavior. "Tropical fish used to outnumber reptiles as pets, 20 to one, and now they're neck and neck. An estimated 20 million Americans keep reptiles and amphibians," Adler says.

Photo by Frank D'Amico