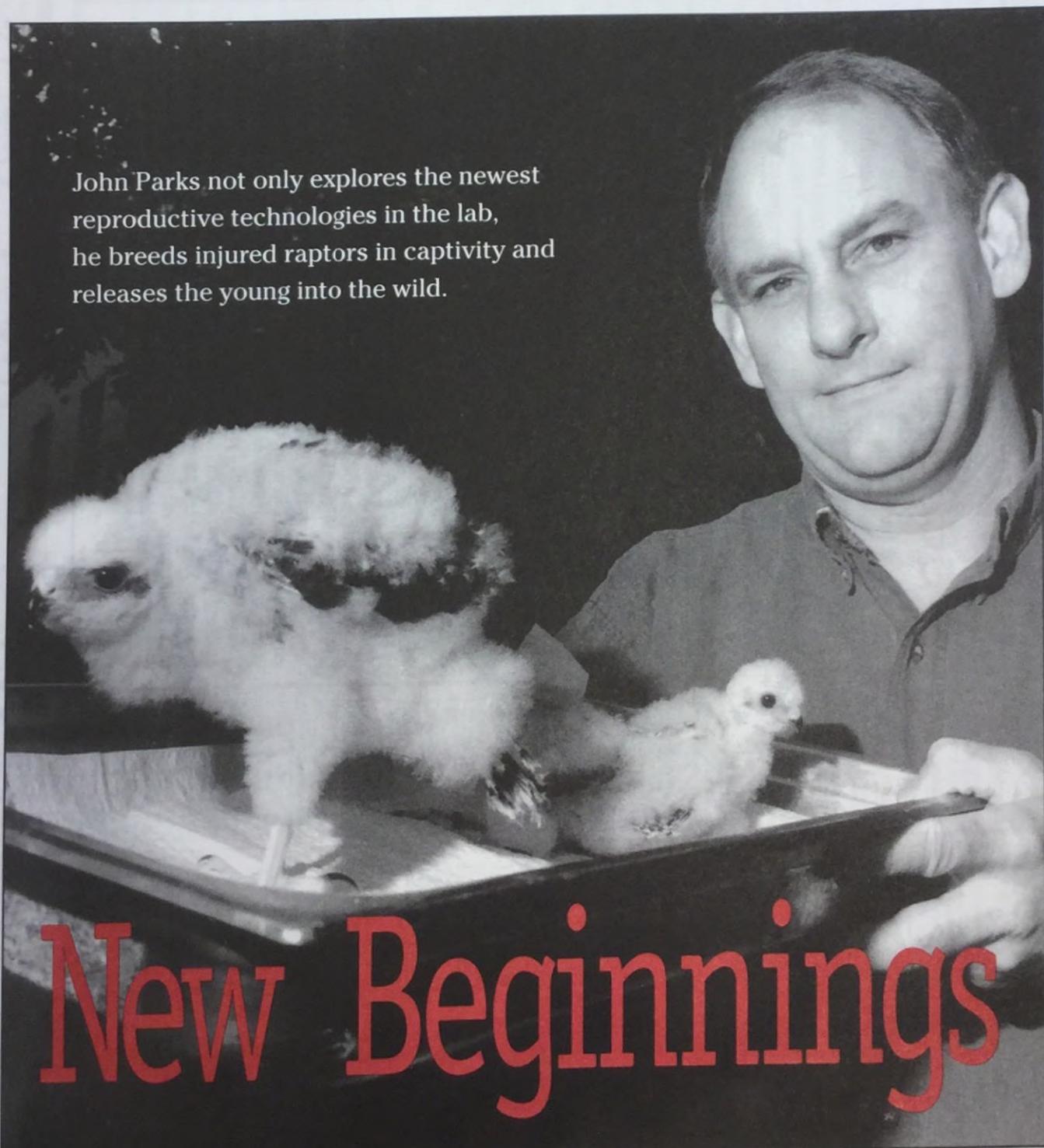

ALS NEWS

Agriculture and Life Sciences

May 1999

John Parks not only explores the newest reproductive technologies in the lab, he breeds injured raptors in captivity and releases the young into the wild.



New Beginnings

ALS NEWS

Agriculture and Life Sciences

A Publication for Alumni and Friends of the College of Agriculture and Life Sciences at Cornell University/May 1999

On the Brink of Being

Now that we have Dolly, the famous sheep cloned from the cell of an adult ewe, publications as reputable as *Time* magazine are popularizing the notion that in the upcoming "biotech century" our children may well be able to order their own designer babies, choosing at will their progeny's "gender, eye color, IQs, personalities, and athletic abilities."

Hold on a minute, cautions John Parks, an associate professor of animal science whose research in reproductive physiology spans the 20 years since Louise Brown was born (she was the first infant born following *in vitro* fertilization).

Regardless of what we might read, Parks maintains that artificial reproductive technologies are fraught with complications and difficulty. It took 277 tries to clone a single Dolly, and even the relatively simpler technique of *in vitro* fertilization has a patchy and often low rate of success.

Nevertheless, the general public, and even animal science students, are left with the impression that a technology like cloning can soon become routine.

"In reality," he says, "if one looks at the efficiencies of producing a cloned sheep or a genetically engineered cow, there is still an awfully long way to go before these types of things can become as commonplace as the popular press would lead us to believe."

In Parks's own research, he is tackling a crucial aspect of reproductive efficiency: how to make a newly introduced trait stick, so that an animal will automatically pass it on to its offspring. Without such permanence, all the accomplishments of genetic engineering could disappear after just one generation. Figuring out how to modify the germ lines of domestic animals, particularly dairy cattle, is a current thrust of Parks's reproductive physiology laboratory, where its seven members are engaged in a broad research program focusing on reproductive technologies as they apply to domestic and companion animal species, as well as wildlife species.

Parks and his team start with germ cells because those are the cells that eventually become either sperm or eggs. The researchers are trying to figure out how to introduce genes for beneficial genetic traits—such as increased milk production—into these specialized types of cells. That would be a huge improvement over the current scattershot approach of putting them into the generalized cells of an early

He is tackling how to make a newly introduced trait stick, so that an animal will automatically pass it on to its offspring. Without such permanence, all the accomplishments of genetic engineering could disappear after just one generation.

embryo where their transmission to offspring is a hit-or-miss proposition. With germ cells, which are always passed from generation to generation, it's logical to assume that the trait would be too.

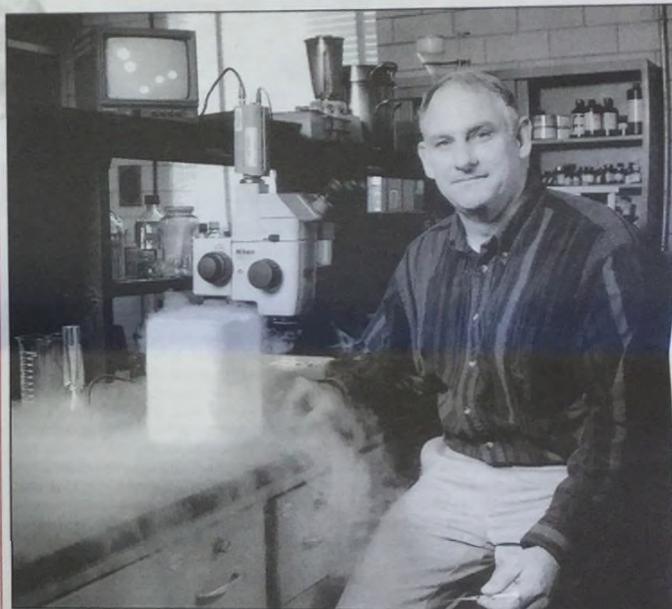
Getting everything to work out right depends on a thorough understanding of spermatogenesis, the highly complex biological process occurring in the testis by which germ cells are transformed into sperm. Scientists know a lot less about this than one would think, Parks points out. A key player that has been identified so far is the Sertoli cell. Parks spent last fall in the laboratory of an expert in Sertoli cell physiology at Washington State University learning all that he could about it.

He is intrigued by the Sertoli cell because it performs an impressive biological juggling act:

"This one cell sees to the needs of five or six different generations of germ cells that are developing in the testis all at the same time," Parks explains. "What's more, it coordinates the transformation of a round germ cell into the tadpole-like sperm with a head, neck, and tail."

When Parks isn't trying to unravel the fundamental workings of reproductive physiology, he's teaching students all that scientists have figured out so far. His course Animal Reproduction and Development covers what happens when sperm meets egg. He gives a second course, Gamete Physiology and Fertilization, to seniors and first-year graduate students. And a third, Exotic Avian Husbandry and Captive Propagation, which Parks co-teaches with Dr. Donna Muscarella of the veterinary college, shows students how reproductive methods are applied in the captive breeding of exotic pets and wild birds.

Seventy percent or so of Parks's students aspire to be veterinarians—many who want careers in the conservation of threatened or endangered wildlife species. Parks points out that the big names in captive breeding programs have backgrounds in animal science. After all, the techniques for assisted reproduction were first created with the goal of improving the quality of production animals.



COLD LOOK: Parks uses liquid nitrogen and a dissecting microscope when cryopreserving and culturing bovine embryos. The video monitor (upper left) shows cow embryos under the microscope. Photo by Frank DiMaso

Many such specialists in reproduction work in zoos where more than 2,000 endangered species of vertebrates could be bred and maintained worldwide, according to the World Conservation Union. These new technologies are also applied to the management of wild animals in the field, such as the development of contraceptives to control deer overpopulation in urban areas of the northeastern United States.

To give students hands-on experience in caring for and breeding wild birds in captivity, Parks began the Cornell Raptor Program six years ago. Run entirely by volunteers, the program rehabilitates hawks, eagles, owls, and other birds of prey that have been treated by specialists in the College of Veterinary Medicine's wildlife medicine program and by veterinarians around the country, as far away as Alaska. Permanently injured birds become part of a captive breeding program centering on three species whose population status is uncertain and whose captive breeding requirements are poorly understood. The program currently has 20 breeding pairs and, to date, has produced and released 30 sharp-shinned hawks, 20 Cooper's hawks, and 20 American kestrels. Northern goshawks mated and produced eggs, but so far no live young have hatched.

"One of the appeals of the program is that you take permanently injured birds that would have been euthanized, and from them you produce perfectly normal young that can be released back into the wild," Parks explains.

Student volunteers also have a chance to hone their public speaking skills by taking the birds to nearby science centers, elementary schools, nursing homes, and even a farmers' market to talk to the public about their biology and natural history.

"Both kids and adults really love these programs; they're fascinated when they see these birds up close," says Parks, who has been spellbound himself ever since becoming a falconer back when he was in college.

What makes a career in reproductive physiology so attractive, he says, is this duality of generating novel ideas in fundamental biology while at the same time applying the fruits of his labor in practical and worthwhile ways—to benefit both the production animal industry and wild life conservation.

Seeing a new idea turn into a solid contribution to the field is what Parks most enjoys about his "day job" in the lab. And for fun? He just laughs and says, "I go work with the birds."

Melita Winter

Alumni Profile: Michael E. Valla '76

Fixing Kids' Teeth Makes Him Smile

When Mike Valla was a boy, he had poor manual dexterity. Learning to tie fishing flies not only cured that problem but led Valla to become a devoted dentist for indigent children.



DENTAL VAN: Valla shows off his love of fishing in front of the van, which contains two fully equipped treatment rooms. Valla has three staff members who travel with him.

Mike Valla finally found the ideal job. Never mind that in the wintertime when it's 10 degrees below zero, the heat pump inside Valla's dental office can't quite crank out enough BTUs to keep the x-ray developer from freezing. Let alone warm the place up enough for him to take his coat off. Or that he averages 29,000 miles per year just driving to and from work. Or that life is so tough for his young patients that he must practice a brand of dentistry right out of the 1950s, where a 5-year-old's molars are decayed right down to the nerve.

Never mind. Valla is a happy man. He is welcomed as a neighbor in the 13 hamlets he visits each year in the farm country and the mountains along the eastern edge of New York's Adirondack Park. Fish, as well as friendship, are plentiful in the North Country, too. And the scenery shifts and changes, never the same from one day to the next.

"I've got the best practice there is," says Valla of the 11 years he's been the itinerant dentist with the Glens Falls Hospital Mobile Dental Program.

But the best part, Valla says, is that neither he, nor his patients—all 1200 of them—ever have to worry about money.

"I've got the best practice there is," says Valla of the 11 years he's been employed as the itinerant dentist with the Glens Falls Hospital Mobile Dental Program. The program—the granddaddy of three mobile dental programs in the state—provides free care to indigent elementary school-age children in a five-county area surrounding this rural town in the foothills of the Adirondack Mountains.

"I can give the optimum treatment that a situation calls for and not have to charge a cent," Valla explains. "This takes a great load off my mind, because the children who really need my care come from families who have no way to pay for it."

The sometimes worryingly circuitous path that led Valla to dentistry began back in the eighth grade. Valla's mother had bought him a fly-tying kit in the hopes of

improving his manual dexterity, which his teachers considered poor. Not only did it do the trick, but it spawned a lifelong passion for trout fishing. And gave rise to his meeting the legendary Catskill fly-tier Walt Dette, the man who set Valla's feet down the path toward working on behalf of poor children.

As a teenager, Valla was so keen to fish the renowned Catskill trout streams that he saved up his lunch money until he could buy a bus ticket from his home in Binghamton to Roscoe, 65 miles to the southeast where, as it happened, Dette sold flies out of his home.

"I didn't have a dime, not a dime, and the Dettos took me in," Valla recalls of the family he would come to spend entire summers with fishing the Beaverkill by day—often with the loan of Dette's superb equipment—and tying flies by his side at night. It was Dette who would provide Valla an entrée into the fisheries biology program at Cornell and loans when, upon graduation, he was jobless and flat broke.

"Walt gave me many gifts," Valla, recalls, "but his greatest gift was his kindness." Because of Dette, Valla knew firsthand the effects of someone whose life was based on "generosity, gentleness, and the true desire to always help another person whether a stranger or a friend," as Valla would later describe him in a eulogy that appeared in *Fly Fisherman Magazine*.

After a stint in a graduate program in paleobotany (where he came to enjoy dental techniques), Valla was at the New York State Agricultural Experiment Station in Geneva working on pesticide degradation in apple orchards. There he came across a number of articles about the limited access that migrant workers have to health care. He saw the light: dentistry was a way to combine his now finely honed manual dexterity with the needs of hardworking, but sporadically employed, rural people.

Valla's dental degree from Georgetown was but a year old when he saw an ad in a national magazine for the Glens Falls program and he has worked there ever since. It was like coming full circle, he says. All of his childhood experiences with the Dettos and all of his formal education came together to prepare him for this very job.

"I've become very attached to these people," says Valla, whose patients come

MESSAGE FROM THE DEAN



In the May 1997 issue of *ALS News* I outlined plans for the ALS academic program review, led by the Office of Academic Programs and a college steering committee composed of faculty and students. We initiated the review in 1996 to make sure that we are delivering on the 12 undergraduate gains—the skills and traits we want all of our students to acquire while they are with us in the college.

The review has two major phases: a college-wide examination and a close look at curricula within the departments. In Phase I, we formed 18 committees and task forces to examine activities in four conceptual areas: the teaching and learning environment for faculty and students, academic program support services, instructional activities, and curriculum. The steering committee developed survey instruments and then contracted with an external research agency to survey faculty and academic staff, undergraduate students, alumni of the college, and employers who seek our students for jobs. The agency also formed faculty and student focus groups to solicit further input. In addition to the quantitative data (surveys) and qualitative data (focus groups), we collected catalogs from our peer institutions and interviewed key contacts at those universities.

We are now evaluating these data and developing recommendations for the future. The committees and task forces have submitted reports describing how well we are doing and specifying actions we might take to enhance our undergraduate educational program.

So far, the findings show excellence in our college-level academic programs. Still, we have areas where we can improve. The following are preliminary recommendations from several committees:

Academic Human Diversity and Resources Committee—The college should renew its commitment to provide a personalized academic experience for minority students and an enriched academic environment that facilitates an understanding of diversity and different views and perspectives.

Precollege Task Force—ALS should offer high schools and community or two-year colleges distance learning courses in food, fiber, and natural resources to provide an orientation to the College of Agriculture and Life Sciences and generate advanced credit for students prior to entering Cornell.

Admissions and Financial Aid Committee—ALS Admissions should improve communications with high schools, especially schools that do not have many Cornell applicants, by having Cornell students return to their schools as ambassadors.

Committee on the Support of Teaching and Learning—Departments in ALS should develop an explicit plan for continually improving advising. Actions might include conducting student focus groups, working with advisers in need of improvement, conducting exit interviews with graduating seniors, and increasing linkages with units in the Office of Academic Programs, such as Counseling and Advising and Career Development.

These are just examples of the types of recommendations we are receiving. This spring we will synthesize all the findings into a college report, which will be available to the public.

Concurrently, the departments are launching Phase II of the review. This spring they will examine their majors, asking such questions as: How are we addressing the educational gains defined by the college? What do we want to achieve with the major relative to preparing students for further education and for employment? What is the appropriate course content? What is the appropriate organization of the curriculum? What cutting-edge educational strategies should we use to carry out the curriculum? Based on their findings, the departments will also issue reports that outline their plans for their respective majors and also respond to recommendations made at the college level.

We are eager to complete both phases of the review and hope to finish the process by December 1999. Then, we will be ready to move ahead with a comprehensive plan to better address the needs of our students. I look forward to sharing this plan with you in a future issue of *ALS News*.

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

from towns like Edinburg, population of 1,041, where virtually every child in the elementary school qualifies for the free or reduced-fee school lunch program. "The parents know that and put a lot of trust in what we do."

Four years' worth of courses in natural resources gave Valla the background to be sympathetic to the rural parents, too, who he gets to see mostly in the summer when mild weather allows moving the dental unit deeper into the mountains.

"When I'm talking to loggers and they're complaining about the Adirondack Park Agency and federal legislation, I can understand their problems," he says of families who have come to invite him in for coffee, even take him along on fishing trips.

Valla loves being on the giving, and the receiving, end of such a mutually generous way of life. And then there are the diners—he has become a connoisseur. And a welcome patron. Even to the point of rarely paying for his own breakfast.

Metta Winter

Extraordinary Volunteer

Valla is an extraordinary volunteer for the college and Cornell. During his lunch breaks in these remote communities of New York State, if Valla isn't fishing, he is meeting with guidance counselors and prospective students, recruiting for Cornell. He and his wife, Valerie Fay Valla (HE '79), serve as chairs of the Cornell Alumni Admissions Ambassadors Network (CAAAN) for their area and have personally interviewed 47 students this past fall for admission to Cornell, most in their home. (There were more than 85 Cornell applicants from their region.) The Vallas' daughter, Jennifer '02, is one such successful recruit for the College of Human Ecology.

Valla is also active with the ALS Alumni Association, serving on the board as the district director for Saratoga, Washington, and Warren counties. If you live in one of these counties and wish to help plan alumni events in your area and join Valla's leadership team, please contact him at (518) 584-4215 or email at toothhead@aol.com



Photo by Choleen Harrington

Food Safety Sleuth Finds Bacterial Fingerprints

The mammoth meat-processing plant is located 15 miles southwest of Grand Rapids, Michigan. The 79-year-old man who died from its bacteria-tainted product lived more than a 1,000 miles away in Rochester, New York. There were eight other fatalities, including three fetuses. All told, between August, 1998, and January, 1999, more than 62 people in 10 states from Vermont to Oregon were sickened by a single strain of *Listeria monocytogenes*. It was in the hot dogs and cold meats manufactured at this 14-acre facility and then sold across the country under more than nine different brand names, spanning 300 types of meat products.

How was it possible to link these far-flung illnesses to just one source? Thank the bacterial forensics of Assistant Professor Kathryn Boor '80, director of the Department of Food Science's Food Safety Laboratory. And her genetic fingerprints.

In bacterial forensics, the name of the game is finding the perfect match—showing that the very same bacteria in a suspected food product was the one eaten by the people who became sick. Given that there are potentially thousands of so-called strains of *Listeria monocytogenes*, many of which are common in foods but have not been linked with illness, how can you tell the culprit from its benign brothers?

Food scientists like Boor are recognizing that the difference amounts to no more than a bit of DNA that enables one strain to, say, produce a toxin that the others don't. And that it's the toxin that makes people sick. To tell one strain from another, it becomes necessary to identify each one's genetic make-up. Boor's laboratory is one of the best in the country in doing just that.

The diagnostic tests the lab produces are called genetic profiles, or genetic fingerprints. They resemble the bar codes stamped on packaged goods. Even to the nonscientist, the pattern made by the vertical bars on one print is easily distinguished from the next.

"On traditional media, all the strains of one family of bacteria looked alike," Boor explains of the diagnostic tests of the past which were so general as to be useless in a national outbreak investigation. "What this test does is make quickly ob-

One strain of bacteria makes food deadly, while another strain is harmless. The only difference is a bit of DNA. Making things even more complicated is Kathryn Boor's recent finding that bacteria in the lab stay the same year after year, but those in the real world are constantly changing.

vious to the naked eye specific patterns of genetic material of a given organism—the key pieces that distinguish them from one another."

Boor, who's convinced that the safety of our food supply depends on strong partnerships among impartial academic researchers and government regulatory agencies, was in routine contact with the New York State departments of Agriculture and Markets (which collects samples from potentially contaminated food) and of Health (which gathers human clinical isolates) when the *Listeria* outbreak occurred.

It would have been typical, she says, to see two or three cases of *Listeria* a month in New York, so when there were 11 in the

behavior of the organisms that cause foodborne illness. In just the five years she has been at Cornell, Boor's research has already produced two major findings that have shattered assumptions long-held by food scientists.

The first is that it's a big mistake to assume laboratory strains of bacteria behave the same way as those living among us out in the world.

Traditionally, food scientists have used strains of bacteria cultured in laboratories as the basis for understanding which organisms can hurt us and which cannot. But Boor discerned that while lab strains stay the same year after year, bacteria out in the real world constantly change in

nature. But at some point it was infected with a virus that inserted toxin-making genes into its chromosome."

The second scientific eye-opener also stemmed from Boor's investigations into whether bacteria, when confronted with environmental stressors like overcrowding, acidity, and high salinity, become more virulent. To her amazement Boor has found that *E. coli* and *Listeria*—two distantly related bacteria—have a very similar genetic mechanism for protecting themselves against external stress.

"This is a huge finding," Boor points out, "because from a food processing perspective, if you can find similarities in mechanisms across organisms, you can come up with a common approach to controlling all of them."

Last July Boor's research group reported the genetic sequence and characterization of the stress-protector gene in *Listeria* in an article published in the prestigious *Journal of Bacteriology*—earning kudos, and research collaborations, from food scientists keen to control this pathogen which causes foodborne illnesses worldwide. (At home it's responsible for 45 percent of all the food products recalled due to bacterial contamination.)

Boor, who was raised on a New York dairy farm and spent the first six years of her career working in food safety through the Cooperative Extension system, saw back in the 1980s that molecular technologies offered the best shot at keeping our highly centralized food-processing system the safest in the world. Someday she hopes to see a diagnostic testing system so quick and sophisticated that it could instantly guarantee that a processed food is safe to consume. With each new discovery she helps lead the way.

To her amazement, Boor found that E. coli and Listeria have a very similar genetic mechanism for protecting themselves against external stress. "If you can find similarities in mechanisms across organisms, you can come up with a common approach to controlling all of them," she says.

early fall of 1998, her colleagues in the Department of Health knew something was up. Both agencies provided her with samples that the lab was able to fingerprint quickly and . . .

"Wow, we were stunned when one from each source came out the same!" Boor says. "This match moved the Centers for Disease Control's investigation forward by pinpointing likely sources of the contaminated food."

Having identified this particular strain of *Listeria* as one that causes disease, Boor has added its genetic profile to the database that the laboratory is developing, so the next time around a match can be made that much faster.

In the meantime, Boor's systematic collection of fingerprints offers her a unique vantage point on the nature and

response to environmental stresses—altering their DNA and their capabilities. Using bacteria found in nature, Boor showed that a number of *E. coli* strains, including the virulent O157:H7, can survive well in acidic environments even though their lab-bred brothers cannot. This means that foods not formerly thought to cause foodborne illnesses, such as mayonnaise, salami, and apple cider, now potentially, can. (Too, if the organism can persist in acidic foods, it is more likely to survive acids in the human stomach and move on to wreak havoc in the intestines.)

"Because lab strains formed the traditional basis of comparison, most people thought *E. coli* O157:H7 was a superbug," Boor explains. "But actually it's just like a lot of other harmless *E. coli* strains found

The Classroom Goes Global

Using videos, the internet, and live satellite hook-ups, students from rich nations connect with students from the poorer countries of Latin America to tackle topics such as population demographics, ecotourism, and biodiversity.

Photo by Image@ copyright 1999 PhotoDisc, Inc.



Just imagine what would happen if students from wealthy countries could sit down together with students from developing nations and talk over the mother of all problems: how we're all going to live together on one planet—each with enough food to eat—while ensuring a healthy environment?

Such an exercise sounds like an educator's pipedream. Yet that's exactly what happens in the Global Seminar on the Environment and Sustainable Food Systems.

By taking advantage of compressed video, satellite, and internet technologies, 100 students from Australia, the Netherlands, Sweden, and the United States gather around an "electronic table" with 50 of their counterparts from 20 of the poorest nations in Latin America, who are attending college programs in Costa Rica and Honduras. In coming years when students from China and Africa are added to the mix, the seminar will truly become, as one Cornell undergrad put it, "a chance to talk to people all over the world at once."

"You read about issues of sustainability in books, talk about them in class, see movies," says biology major Brian Weissenboeck, "but it's a lot different when you hear people's opinions and get to talk to them firsthand."

Take the problem of forest fires in Honduras, one of five case studies students worked through a year ago this spring, when the course was first offered. There are around 15 forest fires a day in Honduras, which threaten to decimate the country's already limited forest reserves. What's more, the fires are set on purpose by Hondurans. All because the Honduran government outlawed the cutting of trees.

This case study, designed by faculty and students at the Pan-American School

of Agriculture at Zamorano, Honduras, was a real eye-opener for seminar participants who prepare their dinners on gas or electric appliances. The reason Hondurans set forest fires, it turns out, is that most people in this Central American country still rely on wood fires to cook their food. The government's conservation-oriented ban on cutting trees applies only to live trees. Those already dead—from any cause, forest fires included—are fair game.

"This was a fine example of a government policy that, on the face of it satisfies

to make the most of 90 minutes of real-time discussion with each other via live satellite hook-ups.

Taking turns, participants from two countries quiz and challenge each other while the others watch the dialogue broadcast on a split-screen television picture. Simultaneous internet transmission allows literally anyone in the world, whether signed up for the seminar or not, to watch the exchange. In the countries that do not yet have the infrastructure to support live video broadcasts, an internet-transmitted slide presentation

In addition to the face-to-face discussion, students participate on international problem-solving teams made up of one member from every country. Each team is assigned an aspect of a case study and through e-mail exchanges on the internet, they must produce a report that takes into account the (most likely divergent) perspectives of everyone in the group.

Such an exercise in thinking globally, while balancing the competing interests of countries from different parts of the world, bodes well for the future.

"If people learn about these issues when they are students, then there is a very good chance they will work well together in the future," notes B. K. Singh, professor of soil science at EARTH College. "It is hoped that one day, when they are professionals, peaceful solutions can be worked out."

Melita Winter

Participants from two countries quiz and challenge each other while the others watch the dialogue broadcast on a split-screen television picture. Simultaneous internet transmission allows anyone in the world to watch the exchange.

world opinion regarding the country's conservation mindedness, but in reality is nonfunctional because it ignores the needs of its own citizens," says seminar director H. Dean Sutphin, associate dean and director of the college's academic programs. "This was an ideal problem for the seminar because it opened up a way of thinking for students in the developed countries they had never experienced before—that there are still countries in the world where people rely on firewood to stay alive."

The seminar works like this. Each institution, in collaboration with coordinators here, chooses a problem actively being addressed in its own country. Faculty and students design written case study materials and produce video presentations that are distributed to students at each location. With this background under their belts, they are ready

with simultaneous audio hook-up worked quite well. This spring's topics included case studies on population demographics, ecotourism, water management, biodiversity, and biotechnology.

What gives power to the exchange is that students talk directly to each other, notes James French, vice president of academic programs at EARTH College in Costa Rica. "The interchange of opinions with people their own age, who have the same freshness and perspective on the world is very different from talking to scientists who might think differently."

Sutphin concurs. "This is an enriched form of higher education that simply hasn't existed before," he points out. "Students are continually told that they live in a global village. Here's the chance for them to encounter what Third World students really think and vice versa."

Participating Institutions

Agricultural College at Wageningen, the Netherlands

EARTH College, Costa Rica

Melbourne University, Australia

The Open University of the Netherlands

Swedish University of Agricultural Sciences, Sweden

Uppsala University, Sweden

Pan-American School of Agriculture at Zamorano, Honduras

New Courses Make Plantations Come Alive



Cornell Plantations is offering courses that teach students how to prospect for plants, manage a public garden, and the nitty gritty of building a stone wall.

At Cornell Plantations, undergrads can

- snack on the same foods the Incas ate for dinner 600 years ago.
- use orienteering tools to conquer the highest elevation on campus—a whopping 980 feet above sea level.
- study a real, live scarlet pimpernel.
- chat online with plant explorers from the Amazon to the West Indies at the New York Botanical Garden.
- lay a stone path sturdy enough to last a century.
- navigate the twists and turns of a one-third-acre maze cut through a living cornfield.
- take home an interesting ornamental grass from their collection.
- investigate animal skulls to determine which are the plant eaters.

Fifty-five years ago the college's renowned botanist Liberty Hyde Bailey envisioned Plantations as the university's outdoor classroom. Today undergrads can make the most of it from the very first week they are on campus.

In the Seminar Series, students were transported across time and space from an island garden in turn-of-the-century New England to a perilous minibus ride into the pristine forests of northeastern China.

During orientation this past August, more than 60 first-year students, with map and compass in hand, spent a sunny afternoon navigating a 5-kilometer course through Plantations' F. R. Newman Arboretum.

Raylene Ludgate, education program coordinator at the Plantations, organized the program as a way to entice students into Cornell's living museum of plants right off the bat. Doing so is part of Plantations' new educational plan that places an increased emphasis on undergraduate education.

For decades, Plantations has been widely known for its distinguished outreach programs that educate the public about the interrelationships among plants, people, and the environment, says Christine Doell, director of education. In addition, an estimated 4,500 Cornell students in more than 60 classes—ranging from plant pathology and beekeeping to studio art—use the collections each year. In keeping with its mission "to become a vital center for the plant and natural sciences on campus," Plantations is also offering courses for credit to students across the university.

In last fall's Plantations Seminar Series, students were transported across time and space from a seat at the dinner table of the Incas, to a stroll through the island garden of New England's turn-of-the-century plantswoman Celia Thaxter, to a

perilous minibus ride into the pristine forests of northeastern China. Experts in garden design and preservation, plant prospecting and propagation, archeology, and ethnobotany came from around the country to share their experiences during the Wednesday night lecture/slide presentations, followed by refreshments and informal discussion. The series, which is also free and open to the public, attracts nearly 1,000 upstate residents each year.

Rubbing shoulders with leaders in the field is a strong draw to this course, but undergrads also report the pleasure they take in sharing divergent points of view with their fellow attendees, in what for many will be the only multigenerational classroom experience they will have in their four years here.

The course Public Garden Management is another eye opener, especially for horticulture majors who typically don't think beyond landscape architecture, design, and the nursery trades as viable career options.

"Public garden management is an emerging niche market that offers career flexibility," Doell notes. "Possibilities include not only the cultivation and care of plants but also education, interpretation, marketing, development, and administration within these public gardens."

Students meet with Plantations' staff specialists in each of these fields. The plant collections curator talks about what she does. So, too, do the gift shop manager, chief development officer, and grounds crew supervisor.

The highlight of the course is a three-day field trip to six public gardens located in and around New York City. Doors open wide as students get a behind-the-scenes look at some of America's most famous gardens, including the sculpture garden surrounding the corporate headquarters of Pepsico, the Brooklyn Botanic Garden, and the research facilities at the New York Botanical Garden.

The third course, Horticulture Practicum, is a down-and-dirty experience that was offered for the first time this past fall. How do you build a dry stone wall or lay a garden path that will withstand the test of time? What integrated pest management strategies work best when propagating plants in the greenhouse? Composting, pruning, transplanting, putting a garden to bed each fall, and even fixing that pesky lawnmower were all part of this hands-on course taught by 14 Plantations staff members.

"A group of students who had volunteered in the garden petitioned us to create the course," says Donald Rakow MPS '77, PhD '87, the Elizabeth Newman Wilds Director of Plantations, who notes that the content was designed expressly to meet students' interests. "They recognized how invaluable it was working side-by-side with the staff, learning the tricks of the trade as they solved the unexpected problems faced everyday on the job."

Rakow points out that attending to the needs of undergraduate students is consistent with President Hunter Rawlings's emphasis on making Cornell not only a great research university but also a great center for undergraduate education. In this, Plantations has many unique



HANDS ON: Instructor Bill Sherwood helps students to construct a stone path in the Dean's Garden behind Warren Hall as part of the course Horticulture Practicum.

advantages compared to other university-affiliated public gardens. One of its greatest assets is its location, a stone's throw from central campus, which allows faculty to use the collections within the time constraints of classes and labs. Such proximity is rare among academic gardens. Rarer still are the varied habitats Plantations manages.

"We have gorges and lakes and meadows and swamps and gardens and lawns all in very close proximity to each other and to central campus," Rakow says with evident pride. "Where else could you buy an ice cream cone at a campus dairy bar and then go enjoy it under the sheltering branches of a magnificent Cornelian cherry?"

Metta Winter

Do You Know?

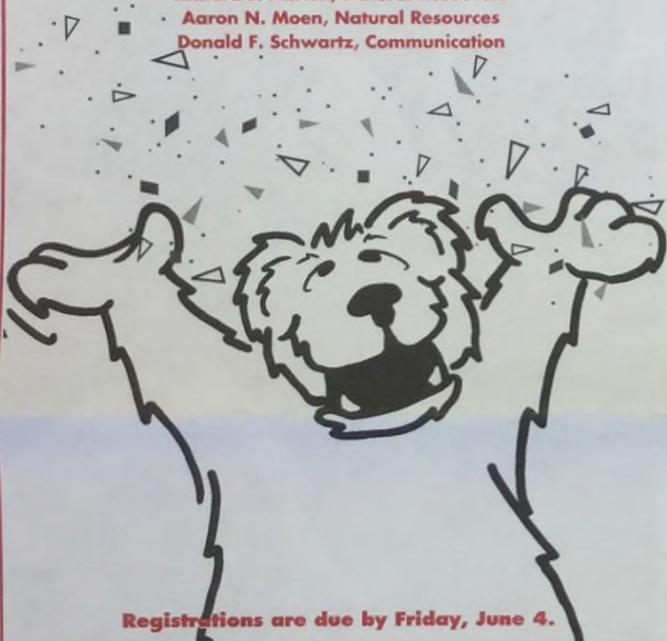
- Plantations staff propagate more than 500 plants from cuttings each year.
- The collections contain over 7,000 accessioned plants.
- More than 200,000 people visit Plantations each year.
- Six out of every 10 Plantations visitors are affiliated with Cornell.
- Plantations is a mecca for the beginning plant lover—more than 60 percent of visitors describe their level of experience with plants as minimal.
- Plantations manages 3,000 acres of natural areas on campus and throughout the Finger Lakes region. These include bogs, gorges, meadows, and woodlands.
- The collections include a nationally known herb garden, a poisonous plants garden, and a carefully weeded collection of weeds.
- Plantations maintains 10 miles of trails adjoining the Cornell campus.
- Last year Plantations staff and volunteers led nearly 200 guided tours through the botanic garden, arboretum, and natural areas.

Join us for the ALS Reunion Breakfast on June 12

The 1999 Reunion Breakfast for ALS alumni and friends will take place on Saturday, June 12, at 7:30 a.m. As in years past, the Breakfast will take place at the Clarion University Hotel (formerly called the Triphammer Lodge & Conference Center). ALS Alumni Association President Nathan R. Herendeen '64 will preside over the morning's festivities as we recognize our retiring faculty and receive the annual report of the ALS Alumni Association. We will also get an update on the college from Dean Daryl B. Lund. Space is always limited at this popular event, so be sure to get your registration in early. Registrations are due by Friday, June 4. We look forward to seeing you there!

Faculty retirees to be recognized this year

Leroy L. Creasy, '60, MS '61, Fruit and Vegetable Science
 Warren C. Stiles, Fruit and Vegetable Science
 Richard J. McNeil, Natural Resources
 Aaron N. Moen, Natural Resources
 Donald F. Schwartz, Communication



Registrations are due by Friday, June 4.

Registration Form

Registrations are recorded on a first-come, first-served basis. Please note that your registration is not complete until the breakfast fee is paid.

Registrations should be received no later than Friday, June 4, 1999.

A name tag will be given to each registered guest upon arrival of breakfast.

\$14.00 for members of the ALS Alumni Association and first guests.
 \$16.00 for nonmembers.

Name
 (Print exactly as to appear on name tag)

Class Year/Major

Address

City State Zip Code

Telephone

Reunion Year

Guests Class

Class

Membership Expiration Date

Number of Registrations

Total Amount Enclosed \$

Please make your check payable to the ALS Alumni Association or pay with

VISA MasterCard Discover Card

Expiration Date Account #

Signature of Cardholder

Mail to

ALS Alumni Association, 276 Roberts Hall, Cornell University, Ithaca, NY 14853-4203.
 Fax: 607/254-4690. Must be received no later than June 4, 1999.

Concerned about Breast Cancer and Environmental Risk Factors? See Cornell Web Site

- Q. Does exposure to certain pesticides increase the risk of breast cancer?
- Q. Is there a link between childhood obesity and adult breast cancer?
- Q. If human estrogen promotes some kinds of breast cancer, can phytoestrogens from plants possibly offer protection?

These are some of the questions answered on the World Wide Web at www.cfe.cornell.edu/bcerf/

(Answers also can be found at the end of this article.)



The site is a comprehensive source of science-based information on the relationships between breast cancer and environmental risk factors. Developed by the Cornell University Program on Breast Cancer and Environmental Risk Factors in New York State (BCERF), the newly enhanced site addresses the roles that pesticides, diet, lifestyle, and genetics may play in breast cancer risk, and offers strategies to reduce the risk of breast cancer.

A recent revamping of the site makes the numerous resources easier to search and navigate, according to BCERF Webmaster Marie Stewart. "We've also expanded the offerings on the site, including an on-line version of our newsletter, *The Ribbon*. We encourage browsers to add their names to our electronic mailing list," Stewart says.

Visitors are encouraged to provide feedback on the Web site by sending e-mail to breastcancer@cornell.edu.

"We have one of the most comprehensive lists of references on breast cancer and the environment," says Suzanne M. Snedeker, BCERF research project leader. "This searchable Environmental Risk Factor Database of over 2,000 references is one of the many features on our Web site. We also provide links to other breast cancer Web sites with information on breast cancer screening, diagnosis, and networking."

Much of the information at the BCERF Web site is in the form of easy-to-read fact sheets on such topics as alcohol and breast cancer risk, tumor suppressor genes, the biology of breast cancer, and reducing pesticide exposure. Critical evaluations by BCERF scientific staff examine evidence from current research that specific pesticides or dietary factors affect breast cancer risk. Maps pinpoint regions of high, moderate, and low breast cancer incidence in New York State.

"Of all the known and unknown risk factors for breast cancer, the environmental risk factors are the ones over which we have some control," says June Fessenden MacDonald, BCERF director and associate professor of biochemistry, molecular and cell biology at Cornell. "By providing impartial, science-based information on environmental risk factors, we hope to help people make decisions that can have a positive effect on their health."

BCERF's on-line materials are developed for a diverse audience, ranging from consumers, educators, and public policy makers to journalists and other scientists, according to

Snedeker, who was a cancer biologist at the National Institute of Environmental Health Sciences before joining the Cornell program. Among other experts associated with BCERF are toxicologists, nutritional scientists, oncologists, epidemiologists, physicians, and health educators.

Answers to the questions posed at the beginning of this article, based on information from the Web site, follow:

A. There is currently no demonstrated evidence that the weed killer 2,4-D, is a human breast carcinogen. As with any chemical, however, caution should be exercised in the herbicide's use, storage, and disposal.

A. Although there is no data to suggest that adolescent obesity is a risk factor for the development of breast cancer, overweight adolescents may be at greater risk later in life. They are more likely to be overweight as adults and it is harder for people to lose weight as they get older. Gaining weight and being overweight as an adult are considered risk factors for postmenopausal breast cancer.

A. About two-thirds of all breast tumors have estrogen receptors and depend on human estrogens for growth. Phytoestrogens—from soy-based foods and other legumes, as well as bean sprouts and seeds—compete with human estrogens. But phytoestrogens have only about 1/1000 the estrogenic activity of human estrogens. Thus, phytoestrogens can reduce overall estrogen activity by interfering with the activity of the stronger human estrogens in the body. Phytoestrogens also interfere with enzymes that promote cancer growth, while increasing hormones that restrict blood estrogen levels.

Based in the Institute for Comparative and Environmental Toxicology in the Cornell Center for the Environment, BCERF involves faculty and staff members from Cornell's colleges of Agriculture and Life Sciences, Arts and Sciences, Human Ecology, Veterinary Medicine, the divisions of Biological Sciences and Nutritional Sciences; Cornell Cooperative Extension; the Weill Medical College and Graduate School of Medical Sciences at Cornell; and the Strang Cancer Prevention Center. Funding support for BCERF comes from the U.S. Department of Agriculture, the New York State Department of Health, and Cornell.



1930s

Wilbur R. Pease '31 lives in Wapping Falls, N.Y., and celebrated his 69th birthday on October 17, 1998. He retired in 1960 from the position of a New York State youth development leader. In 1971 he was awarded a master's degree in sociology, with a minor in political science from North Carolina State. Pease returned north in 1971, settling in Dutchess County. He remains active in community service and his church. He was admitted to Fulkhill Health Center after being cared for at home for eight years.

Ernest J. Cole '36 MS '54 now lives in Stratford, Conn., which is his retirement community. His permanent address is in Palm Harbor, Fla. He remains active in country club activities, and his wife is now using a walker and wheelchair for outside activities.

Homer T. Hopkins Jr. MS '39 is retired and living in Sandy Hook, Conn. He received his BS degree in agronomy from the University of Delaware at Fort Collins and then went to Cornell in December 1945. He then spent two years as a professor of animal science. He retired in 1983 from the University of Michigan in plant physiology.

William C. Treadwell '39 lives in Chatsworth, N.Y. He taught for forty years and farmed for 18 years. He sold the farm in 1983 and operated a dairy equipment business for 21 years. Treadwell has been retired since 1983 after a heart attack and open-heart surgery.



1940s

F. Howard Krutzer '40 lives in Davis, Calif. After graduating in 1940 he attended UC-Berkeley for a PhD. He was on the faculty at Colorado State at Fort Collins and then went to Cornell in December 1945. He then spent two years as a professor of animal science. He retired in 1983 from the University of Michigan in plant physiology.

Lois Marie Matarazzo Vanden '41 resides in Schenectady, N.Y., and is a professor in animal science and Science Extension '83, a research project involving hundreds of volunteers.

Arthur E. Underwood '41 now resides at the Cornell Memorial Nursing Home after being diagnosed with spinal muscular atrophy. Any correspondence to him should be sent to his home address in Cortland, and he will make sure he receives it.

Archie R. Cronch MS '42 lives in Englewood, Colo. Following retirement he published *Chronology*, a book which brought him the Distinguished Service Award in 1990 by Princeton Theological Seminary. He is in honor chair for the *Days Base on the History of Chronology in America*, and continues to write for the church and the secular press.

Nathan E. Brown '43 resides in Hudson Falls, N.Y.

John M. Collins '43 lives in Barnet, N.Y., and is retired from Cargill Manor Farm, Inc. His wife, Elizabeth (Diddy) H. Collins, passed away on August 4, 1998.

Lloyd A. Putnam '44 retired eight years ago and has moved to Melbourne, Fla.

Alfred H. Rieckley '44 is retired and living in Corfu, N.Y., where he was a past council member and a past president of a local Cornell Club.

Arlene W. Lungen '47 retired and moved to Rehovot, Israel, in June 1990. She visits the U.S. yearly to see family and friends, although her two daughters and four grandchildren also live in Israel.

Raymond C. Rabaker '47 is now retired and lives in Cortland, N.Y., with his wife, Shirley. He has two daughters, Beverly and Lorinda, and a son, Brian.

Helen Elias '48 MA '68 retired to Martha's Vineyard and now lives in Cape Cod, Mass., with her husband. During their working years, she taught and taught at Mexico College, taught in ALS at Cornell, and lectured in the English Department at Cornell. Currently she enjoys reading to the blind, studying Italian, and traveling to Italy yearly.

Margaret Brown Iwaning '48 lives in Defiance, Mo., and received her MS in literary science from Villanova, and an AA in aviation mechanics from Cavallo Junior College. She enjoys reading, gardening, her horses and chickens, and mowing the grass and fields. She and her husband, Frederick H. '50, have four children and 13 grandchildren.

Frederick E. Jenks '48 is now retired and moved to St. George, Utah, in 1995. He enjoys the warm weather, with no snow to shovel and no lawn to mow. He built his own house in a desert area.

Carol Luther Mackay '48 lives in Malta, N.Y., and is a homemaker. She enjoys living near four grandchildren, singing in church choir, traveling to visit other family members, quilting, being outdoors, having good health, and just being with her husband, William.

Albert G. Mont '49 MS '50 now lives in Glenside, Pa. He retired a few years ago from teaching and serving as chair for the Department of Microbiology, Immunology and Molecular Genetics at Marshall University School of Medicine in Huntington, W. Va. Presently he is working on the fourth edition of a textbook.

E. T. York '49 is the former chancellor of the Florida State University and is a distinguished service professor in retirement at the University of Florida. He recently received the Medal of Honor from the Daughters of the American Revolution. He continues to fight global hunger and malnutrition and has held major assignments under presidents Kennedy, Johnson, Nixon, Ford, Carter, and Reagan. York remains active United Way, American Red Cross, Rotary International, and Hospice. He resides in Gainesville, Fla.



1950s

Lonnie J. Dushok '50 retired in 1984 and now lives in Ravena, N.Y. He has travelled all through Canada, four times to Alaska, and enjoys the outdoors.

Frank H. Osterhout '50 lives in Alexandria, Va. In 1960 he received his PhD from the University of Wisconsin in agricultural economics. Most of his career has dealt with the economics of various water issues. Since July 1982, he has worked in the U.S. Dept. of the Interior, and the last three years he has primarily focused on Indian issues.

Richard J. Marrese '53 MS '55 lives in Somerset, N.J., is doing some consulting part time, and also plans to work part time as a substitute teacher.

Brian A. Kinsel '54 resides in Syracuse, N.Y., and is currently shuffling priorities. He feels that turning 70 is no time to let the spring wind take. For example, the '54 reunion could be a response to save Cayuga Lake. The Seneca Falls has '91' number in a book, and to find public health and public safety at least 30 years behind progressive states makes his blood boil.

Robert F. Morrison '54 now lives in Stamford, Conn., where he has retired from his position in Biomedical Associates, and is starting a new career performing voiceovers for radio and television. He recently served as vice-chair of the Sierra Club in Fairfield County, and has joined the board of directors of Trout Unlimited in Westchester County.

Frank Dennis '55 PhD '61 is retired as a professor of horticulture at Michigan State University since December 31, 1986, after 28 years of "forcing" physiological facts and folklore into lettuce young minds." Currently he is the science editor of *HortScience*.

Wesley E. Harper '56 lives in Mesa, Ariz., and retired in 1987 as the chief agronomist for the Arizona Garden he worked in during his New York State years and then pursued a public land administrative job in Arizona from 1970 to 1987. He lives with his wife, Madeline, at a golf resort seven months of the year, and then travels U.S. in a motorhome for the rest of the year.

Richard C. Grambow '57 is now retired and lives in Skaneateles, N.Y. Counting seven family members, there are 12 different degrees from Cornell.



1960s

Danila O. Durko '60 retired from teaching high school biology and earth science in N.Y., and moved to a second career based in Katy, Texas, as a teacher for Keller Williams Realty.

Ruth Berberian Hanson '60 lives in Klockville, Md., where she is the president for Animal Exchange. She had a book published last June titled *Birds on the Couch*, which she co-wrote with Wendy Bounds. It's selling well and helps people deal with bird behavior problems.

Kenneth W. Sams '60 lives in Princeton, Ill., and is the founder and part owner of Advance Trading Corp. in Bloomington, Ill. Sams is a grain broker for Grain Marketing Consultants, and personally works as an investment counselor and management consultant.

Katherine D. Tall MS '61 is now retired from being a chemistry and waste science teacher, and lives in Chicago, Ill. She volunteers once a week at the Lincoln Park Zoo's "Farm in the Zoo," where she milks goats, grows herbs, feeds chickens, and conducts various food programs.

R. E. Maurice '62 resides in Woodville, Wash., where he has been active with various jobs and volunteer work. He was a BTW/727 Captain at Seattle International Airport, with a commitment for a fly boat project, and the camping and outfitting chairman for the North Lake District.

Garry B. King '64 now lives in Belgrade, Mont., and following his retirement started a fly fishing outfitting business with his brother. Their business is located in Bozeman, Mont., and he spends most of his time trout fishing and bird banding with his springer spaniel.

Betty J. McKnight PhD '65 lives in Trumbull, N.Y., and is an emerita professor of elementary science and environmental education at SUNY-Buffalo. She is a member of the board of trustees and active at the Cayuga Nature Center.

Thomas V. Debrock '69 lives in Sarasota, Fla., and is the manager of distributed manufacturing for Tropics Products Inc. He manages fruit juice packaging off-site of the main facility. Debrock has two children, **Tom Jr. '90**, and **Thad**, who is a professional musician. He and his wife, Leona, have one grandchild named Quinn.

Laura Purnell Krinch '69 resides in Lexington, Mass., and has been teaching secondary science since '73. She is the science department chairperson for the Diamond Middle School.



1970s

Diane M. Bunce '73 of Gaithersburg, Md., is an associate professor of chemistry at the Catholic University of America in Washington, D.C. where she works on environmental toxicology. In 1983 she was named to the Carnegie Foundation's District of Columbia Professor of the Year for her excellence in.

Michael R. Piotrowski '74 has his own consulting firm, Matrix Remediation Services, Inc., in Montrose, Colo. He provides forensic expertise to clients with contaminated sites. His latest accomplishment, which was tested at a site in American Samoa, earned him Vice President of Green's "Green Hammer" Award last summer for giving government loans.

Juan B. Leon-Orellana MS '75 lives in Quito, Ecuador, and is a businessman and a senior partner in the QUIMINGUO GROUP of nine companies. He served as president of the Ecuadorian Federation of Chambers of Commerce and as a member of the Monetary Board of Ecuador. He is married and has two sons.

Don Sherman '75, MS '81 lives in Golden, Colo., and works with many other Cornellians at Therm-A-Rite, an environmental engineering firm in which he is the principal. He has been married to **Chris Coleman '78** for 20 years, and they have 7-year-old twins.

John C. Spratt '75 is living in Old Lyme, Conn., and is the chairman and CEO for OptiSpec Health Services. He and his wife, Patricia have four children. His interests are rowing, sailing, and wooden boat restoration. Spratt spends summers at his home in Watch Hill, R.I., and is active in many nonprofit organizations.

Marjorie Faber '76 lives in Stone, Conn., where she is an assistant state and scientist for USGS-NRCS. She was married to **Alfred H. Cronch**, who is a soil chemistry professor at the University of Connecticut.

Hunter Holding Jr. '76 lives in Lafayette, Calif., where he is the vice president of Rabobank International. He is the relationship manager for agricultural companies at Rabobank, which is a Dutch cooperative agricultural bank. Holding also owns and operates Hoking Angus Ranch, a purebred Angus breeding operation.

Linda M. Bruckner '78 lives in Trumbull, N.Y., and is a certified financial accountant. She retired from IBM in 1985 and became a partner in 1989. Bruckner is a board member for the Tompkins County Chapter of American Red Cross.

John R. Sovocool '78 lives in Rockfield, N.Y., and retired from the U.S. Air Force in 1994. Currently he operates a successful mushroom, Faiditons Farm, and is a member of the New York State and National Mushroom Councils. He has five children.

Joanne M. Simon '79 lives in Elmhurst, N.Y., where she is the director of international human resources for Sony Music Entertainment.



1980s

George R. Franz '80 is the town planner for the Town of Ithaca. He received the Town Board's "1998 Outstanding Planning Project Award" for comprehensive planning of the SUNY Upstate Chapter annual conference year by year for the project manager, logistical director and graphics designer for the Park, Recreation, and Open Space Plan.

Dr. Thomas G. Hines '80 lives in Ionia, N.Y., with his wife, Vicki, and children, Grant, Walker, Z, and Molly, 2 months. He is a veterinarian for the Farmington Veterinary Hospital.

David G. White '81 of Bardsboro, N.Y., was recently honored by SUNY Morrisville with the 1998 Distinguished Alumni Award, where he earned an associate's degree before coming to Cornell. White is the program coordinator for the Cornell Co-operative Extension, Sea Grant Education Program and has secured more than \$32 million in grants for water resource management programs. He has organized and delivered regional, national, and international presentations.

William D. Grivas '82 lives in Binghamton, N.Y., where he is the president-lab director for United Ideas Inc. He received his second BS degree in mechanical engineering from the Thruway, Watson School of Engineering at the Binghamton in 1987. Currently he is working on his MSME in fluid dynamics.

Catharine Raffensperger Fitzsimmons '83 lives in Des Moines, Iowa, where she is the head of the State of Iowa Air Quality Bureau compliance and program development sections. She and her husband, Sean, have two children, Ian, 3, and Aiden, 1. They enjoy returning to Ithaca to visit her parents, Ed and Sharon Raffensperger (ALS professor emerita) and Shirley Raffensperger (former supervisor of the Town of Ithaca).

Jan H. Woodworth '83 MFS '87 PhD '95 lives in Chittaugus, N.Y., and is a professor of forest ecology at SUNY Cortland, where she is the director of the Forest Ecology Center. She is married and has three children: Kate, Molly, and Carter.

Dr. Daniel Caloras '83 lives in Springfield, Vt., and is a physician at Charlestown Family Medicine. He is married to a physician, and teaches through affiliation with Dartmouth College and the University of New Hampshire. He is the director of their area hospice, vice president of the Rotary Club, and enjoys reading, hiking, and ice hockey.

Risa Miah '85 and John Lauricella PhD '85 celebrated the birth of their daughter, Rose Louise, on July 2, 1998. Their son, Daniel, is now 3 years old. Risa is a partner in the Law Firm Colburn Carling & Mads LLP, where she represents management in labor and employment law-related matters.

Kathleen M. Doyle '86 resides in Middlesex Springs, Va., and is an assistant professor at Green Mountain College. She teaches a course on the southern forest with other faculty members. She received her PhD in botany in December, 1999.

Both Newlands Campbell '87 lives in Schenectady, N.Y., and is a regional vice president for Hannaford Bros. She is responsible for 45 credit unions in New York, Vermont, and Massachusetts, and southern New Hampshire. She is married and the proud mother of Caroline Campbell.

Andy Ruger DiToro '87 lives in Pathburg, N.Y., and works as a senior scientist for the Section On Planning Department. Her husband is **John DiToro MS '92**, and they have two children, Evan and Owen. They live on a 13-acre bob cat farm, and John is a teacher for the Cooper's Education Center, a four-year-old daughter.

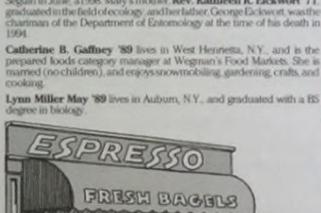
Wing Eng '87 of Cambell, Calif., is the manager of Software Development for Proton Inc. Eng has a son who is 2 years old, and was expecting another little girl this past January.

Lisa M. Gargano '87 is living in Monticello, Vt., and is an assistant professor of medicine at West Virginia University. She and her husband, James, have a four-year-old daughter.

Mary Eckelwood Seguin '88 is doing an internship in small animal veterinary medicine at North Carolina State University. She received her DVM degree from the University of Wisconsin last year. She also earned her master's degree in New York, Vermont, and Massachusetts, and was in June, 1998. Mary's mother, Rev. Kathleen R. Eckelwood '71, graduated in the field of ecology, and her father, George Eckelwood, was the director of the Department of Entomology at the time of his death in 1994.

Catherine B. Gathney '89 lives in West Henrietta, N.Y., and is the prepared foods category manager at Wegman's Food Markets. She is married (no children), and enjoys snowmobiling, gardening, crafts, and cooking.

Lynn Miller May '89 lives in Auburn, N.Y., and graduated with a BS degree in biology.



1990s

Catherine G. Schenck-Yusko '90 lives in Atlanta, Ga., and received her Master of Health Science degree from Johns Hopkins School of Public Health in 1995. She worked in state health departments for two years and is currently a postgraduate fellow at the Center for Disease Control until the summer of 2000.

Karen A. Baase '91 lives in Hamilton, N.Y., and works for Cornell Cooperative Extension in Madison County. Currently she is an MFS student in community and rural development.

Katharine F. Knowlton '91 lives in Blacksburg, Va., and is a research scientist for Virginia Tech. She obtained her PhD in dairy science and is now doing research on environmental issues related to animal agriculture. She also recently did a rotation at Virginia Tech. She was married one year ago to Mike Barnes who is also a faculty member there.

Katrina Peck Overton '91 and Thomas R. Overton '91 lives in Laramie, Wyo. Katrina is the undergrad and grad student coordinator for the Dept. of Agricultural and Biological Engineering, and Thomas is an assistant professor in the Dept. of Animal Science at Cornell.

Willard H. Peck '91 due to graduate from Albany Law School in May 1999.

Michelle C. Berry MPA '92 lives in Binghamton, N.Y., and has been director of community relations for the City of Binghamton for two years. She lives in 1668 Broomfield County, where she received the American Award, and was named a 1997 Outstanding Young Woman of America. She also writes weekly business columns for the *Press and Sun-Bulletin*, a Gannett newspaper. Berry is president and owner of Community Consulting, where she gives motivational speeches, training seminars and consults in public relations.

Sharon Kowar '92 resides in Madison, N.J., and works as a senior statistical analyst for Warner Lambert. She married **Steve de Waard '92** on March 13, 1999.

David McElroy PhD '92 lives in Mystic, Conn. where he is the project leader for Dekko Genetics Corp., as well as an adjunct assistant professor in the Dept. of Plant Breeding and Biometry at Connecticut College. He is also an associate scientist for Plant, Inc., Central Research.

Dr. Jayne L. Paterson '92 lives in Irving, Texas, and was married on June 13, 1998. He is a veterinarian for the De Soto Animal Hospital.

Michelle L. Rice '92 is working on her master's in biology at Florida State University, while also being a dispatching coordinator for Clifton County. She hopes to find a job teaching at either the high school or college level.

Steven W. Walter '92 is a student at the George Washington University School of Law.

William H. Andersen III '93 lives in Riverside, Conn., and for five years worked as a landscape architect who improved parks and designed and built a river bank park along the Housatonic River in Shelton, Conn. This year he has been hiking in Vermont and purchasing real estate for site development for hotels and resorts.

Jeffrey J. Leblanc '93 lives in Sturbridge, Mass., and is a general manager for Waste Stream Environmental. He was married to Catherine M. Leblanc for 10 years.

Scott Behson '94 lives in Albany, N.Y., and is a doctoral candidate at the SUNY-Albany. He is studying occupational and psychology and expects to graduate this year and begin a career as a college professor.

Ylav M. Ivram '94 resides in New York City and works for Corporate Capital International, which is a small health care and benefits consulting company. Ivram is also involved in athletics including hiking, triathlons, and the New York City Marathon.

Jarrod L. Whitney '94 lives in Los Altos, Calif., where he works at Stanford University as the associate director of admissions. Previously he worked for three years at Dartmouth College as the assistant director of admissions. Finally he has a place to live where he can raise his motorcycle all year long, and he's looking forward to the Class of '98. His retreat.

Nadine Baker '95 of Ithaca, N.Y., is the public relations director of Wells College. She previously was manager of the Ithaca Farmers' Market, general manager of the Ithaca Farmers' Market, and worked for the Ithaca Farmers' Market, and worked for the Ithaca Farmers' Market, and worked for the Ithaca Farmers' Market.

Stephan A. Church '95 is a Peace Corps volunteer in Antigua, Ecuador. He recently married Katherine Ormsaen there, and has extended his original two-year Peace Corps commitment an additional nine months, to the end of February 1999. He says "Life is good!"

Holly Decker '95 lives in Somerville, Mass., where she is a market research analyst for a startup business venture, and has been published three times so far in local business journals.

Katherine Dowell Kearns '95 is a graduate student at the University of Georgia and pursuing a PhD in ecology. She plays clarinet for the community orchestra, Alpha Symphony Orchestra. She married **Dan Kearns '95** on August 14, 1998.

Suzanne M. Engler '95 is looking forward to graduating from Duke Medical School in May, 1999, with an MDM/PhD. She then plans to start a residency in family medicine.

Kendyll Forstall '95 is a second-year veterinary student at UC-Davis. She finished her master's thesis on reproduction there and presented her research at the 1998 American Association of Equine Practitioners meeting in Baltimore.

Nicholas L. Forevert '95 lives in Queensbury, N.Y., where she has been working as a consultant for a computer business, doing sales and marketing. Recently she started business writing, and has been published three times so far in local business journals.

Courtney A. Goldstein '95 is a student at the University of Buffalo in chemistry.

Kristen T. Holsack '95 is living in Lafayette, N.Y., and is working as a research technician for the Hematology-Oncology Associates of Westchester, N.Y. Previously she worked at the Cornell Biological Field Station, and still works at the field station as needed. Her daughter, Erin, is 2, and she has 4-month-old twins.

Thomas C. Hughes '95 is working on a master's in biological sciences at the University of New Hampshire. He is doing his thesis on lake sturgeon of the lower Niagara River in cooperation with the IGLFRP, U.S. Fish and Wildlife Service.

Jonathan S. Marvin '95 is a graduate student at Duke University in chemistry.

Janice Meyer '95 lives in St. Johns, Mich., with his wife, Victoria, and five-month-old daughter, Maddie Grace. He recently accepted a position with ABS Global, Inc., as the district sales manager for Michigan.

Julie A. Monaco '95 is in her first year at Albany Medical College, and despite the huge amount of information to process, she is thoroughly enjoying it. After a three-year hiatus from school, she is trying to get back in the groove of studying again.

Stephen L. Przynosz '95 lives in Williamsfield, N.Y., and is finishing up medical school at SUNY-Buffalo. He is also busy applying to residency programs.

Alan D. Putnam '95 is attending law school at Washington University.

Nancy M. Rosen '95 lives in New York City, and is a copy manager for Cooper Magazine. She is in her third job and second apartment since leaving Cornell. She loves living and working in NYC, and keeping in touch with many Cornell alumni, most of whom agree that they'd rather be in school.

Andrew H. Stocum '95 lives in Houston, Texas, and is a senior specialist for EnCor Capital and Trade. He was a fourth-generation Cornellian and co-chair for the senior class of 1985.

Tara K. Sosky '95 is a fourth-year medical student in New York City.

Marie S. Thourle '95 is a medical student at Columbia University College of Physicians and Surgeons, class of 2000. She is engaged to be married at St. Chapet on October 16, 1999.

Jason D. Turek '95 lives in King Ferry, N.Y., where he is farming on a wholesale vegetable operation which ships products from New York to Miami. She visits her father's farm in Vermont. She was married to **Christina Rimbo '96**, and is a July 1999 wedding at Cornell is planned.

Brooke Yules '95 graduated with a biology degree and is in her last year of veterinary school at Tufts University School of Veterinary Medicine and living it. She plans to focus her career on large animal medicine and is looking for a job with horses and cows.

Jennifer M. Lago '96 MS '97 lives in Great Neck, N.Y., and is a biology and chemistry teacher at Byram Hills High School.

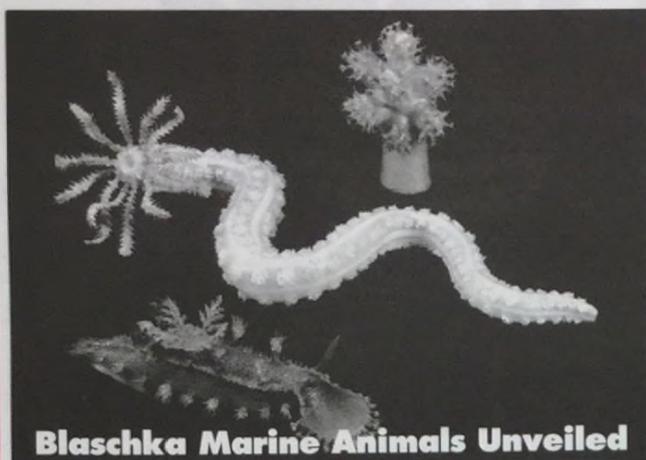
Mari Levine '96 of Long Island, N.Y., is finishing her third year at the Ithaca School of Dental Medicine. She will receive her DMD degree in May 2000. She recently represented Harvard at the American Student Dental Association's national convention in New Orleans.

Christina Hancock '97 lives in Brownsville, Texas, and is working for her community dental clinic. She will receive her DMD degree in May 2000. She recently represented Harvard at the American Student Dental Association's national convention in New Orleans.

(More news will appear in the late '90s and appear in the August '99 issue.)

Goal Travis '00, student writer

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



Blaschka Marine Animals Unveiled

The Blaschka Marine Invertebrate Collection was officially unveiled in October 1998. This stunning collection is made up of glass sea invertebrates, life-sized and larger, made by the famed natural history artisans Leopold and Rudolf Blaschka in the late 1800s. The collection contains more than 500 pieces, each with remarkable and accurate detailing, all handcrafted in glass.

The project of bringing the collection back to Cornell had been in the works for quite some time. The collection had been housed in Corning, N.Y., at the Corning Glass Center/Museum. The entire collection is worth \$6 million. Many new specimens have been added to the display case which is on display in the atrium of Corson-Mudd Hall.

Phase II is already under way, which will include the construction of a second, specially made display case to house more of these treasured pieces. Alumni and friends are welcome to come see this marvelous collection. If you wish to contribute towards the Blaschka Marine Invertebrate Collection, you may send a donation to the ALS Development Office, 270 Roberts Hall, Ithaca, NY 14853-4203.



Slotted Inlet Ventilation System Designated Historic Landmark

The slotted inlet ventilation system was designated as a historic landmark this past November by the Department of Agricultural and Biological Engineering and the Society for Engineering in Agricultural, Food, and Biological Systems (ASAE). In 1948, William F. Millier, then a graduate student working under the direction of Professor Clesson Turner, tested and published the concept of the slotted inlet. As indicated on the historic marker that now hangs outside Riley-Robb Hall, "Slotted inlets were quickly and widely adopted throughout the United States to improve farm animal environments and have been the most widely used inlet type for mechanically ventilated agricultural buildings." Pictured are: Melissa Moore, ASAE's executive vice president; Dean Daryl B. Lund; Professor Emeritus Millier, BS '45, PhD '50; and Michael F. Walter, chair, Department of Agricultural and Biological Engineering.

Mann Library Receives \$1 Million Challenge

The endowment campaign for Mann Library received a tremendous boost recently when four alumni joined together to fund a \$1 million challenge. New gifts of \$25,000 or more will now be matched on a \$1 for \$2 basis. As of December 31, 1998, \$1.8 million in gifts had been added to the library's endowment. These gifts plus \$1 million challenge bring the campaign to 70 percent of its \$4 million goal.

Increased endowment income will help Mann Library meet the rising costs of acquisitions and technology. It will also fund preservation of the library's most important collections. Mann Library is recognized as one of the best specialized libraries in the country and is the largest academic library in the United States dedicated to agriculture and related sciences and to human ecology. A 75,000-square-foot addition to the library will open in December, 1999, followed by a complete renovation of the existing building.

ALS Scholarship Campaign Tops \$9 Million

Maintaining access to Cornell for qualified students, regardless of their financial backgrounds, is at the heart of the university's need-blind admissions policy. To ensure that Cornell can continue to meet the rising need for scholarship assistance, the university is in the midst of a campaign to raise the endowment for undergraduate scholarship funds.

As of December 31, 1998, ALS has received gifts and commitments totaling almost \$9.5 million, or 53 percent of the college's \$18 million goal. Under the terms of an anonymous challenge grant, new gifts and pledges of \$37,500 or more will be matched on a \$1 to \$3 basis. For example, a \$50,000 gift will be matched with an additional \$16,666.67 in challenge dollars, further enhancing the benefit to ALS students. Commitments of \$37,500 or more may be paid over a five-year period.

New scholarship endowments may be established to support students from across the college or directed to benefit students within a particular department or major within the college. If you would like to make a gift or get more information, please contact Michael Riley '87, ALS Director of Development, 272 Roberts Hall, Cornell University, Ithaca, NY 14853; phone: (607) 255-0359; e-mail: mpr2@cornell.edu

4-H Foundation Launches Capital Campaign; Golf Tourney Set for June 4

In January 1999, the New York State 4-H Foundation kicked off a year-long capital campaign to raise \$500,000 to celebrate 50 years of 4-H Youth Development programs. Half of the contributions to the capital campaign will be used to fund grants to local associations and statewide programs that enable youth to develop tools for success. The remainder of the support will go into the Foundation endowment to assure the future of program grants well into the twenty-first century. Key programs to be funded from proceeds of the capital campaign are leadership development, workforce preparation, and community service.

The 4-H Foundation is also preparing for the 11th Annual 4-H Open Golf Tournament to be held at the Robert Trent Jones Golf Course at Cornell on Friday, June 4, 1999. The 4-H Open is a major fundraising event for the 4-H Foundation. The proceeds of the golf tournament help to fund grants for innovative and educational youth programs throughout the state. Thanks to hundreds of generous donors, the 4-H Open has grown to become a huge success, raising more than \$118,000 over the past 10 years.

If you are interested in participating in this year's golf tournament or would like more information about the New York State 4-H Foundation, please contact the office at (607) 255-2239.

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Richard J. Roselle '34

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John W. Long '26

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Donald K. Nesbitt '49

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CANADA	Shirley L. Wong '97 Jane C. Yau '97
INDIA	Uppinder Krishnamoorthy '92 Sandeep Singh '96
ISRAEL	Ira M. Hartman '78 Arthur S. Lieberman '82 Ariene W. Lungen '87 Conna T. Steinberg '91
JAMAICA	Arthur C. Rawls '70
JAPAN	Kaizoku Abe '88 Yoshio Kawamura '78 Kakuro Nishibe '97 Kiyomi Sasaki '98 Izumi Tsuji '97 Hiroko Tokimaga '97 Iori Ueda '97 Juniko Watanabe '95 Laila H. Archer '85
KENYA	Dale E. Brady '76 Enter Z. Zuberli '71
KOREA	In K. Han '95
MEXICO	Esperanza Chienegosa '98 Roberto Z. Gonzalez '76 Felipe Pintor '72 Mauro Roubal '98 Benjamin Ruiz-Lopez '87
NIGERIA	Prince Bright L. Akire '88
NORWAY	Judith H. Meadow '82 Richard H. Meadow '82
PAKISTAN	Adil K. Sattar '97
PERU	Walter Coiro '76 Maria M. Scourab '72
PHILIPPINES	Sabador L. Carlos '54 Orlando G. Santos '78
PUERTO RICO	Ivan F. Irtzary '96 Patricia D. Luckertsh '98 Cristy Matias '98 Ada N. Pagan '95 Jose A. Sotol '85 Jone A. Valdes '62
SINGAPORE	Edward R. Ho '45 Cheryl Ann G. Ng '95
SWEDEN	Karin E. Limburg '94
SWITZERLAND	David M. Stearn '87

TAIWAN	Chun Chang '98 Feng-Yee Nyou '99 Benjamin M. Schwarz '96
THAILAND	Jalapak Chaiwongse '95 Therana Vajrabhava '95
VIRGIN ISLANDS	Lynn S. Gleason '84 Emanuel S. Graham '88
ZIMBABWE	Robert E. Armstrong '87 Sandra S. Armstrong '85
INCORRECT ADDRESSES	Berry Balinkoff '87 Arona V. Calo '86 Lito L. Calo '96 Richard W. Fritz '79 Gerald G. Frost '55 Leonardo Katz '80 Toyoko Kawai Tobias C. King '78 Nancy J. Killies '75 Charles D. Kovacs '73 Kathy W. Kusny '68 Carla A. Lacroix '82 Jane C. Lee '83 Kai Min Lee '76 Helenas Lorenzaki '89 Christine Capote Lyons '81 James J. Matthews '82 Martin M. Melamed '59 Robert K. Mitchell '29 Joseph N. Osakwe '86 Santiago Osorio '79 Stephen A. Poustak '40 Juliah Torgerson '89 Fred VonHelm '68 Tara A. Warner '31
DECEASED	Feller D. Beard '28 William E. Bean '51 Benjamin D. Bradford '34 Laura J. Burnett '28 Everett H. Clark '27 Glenn W. Chase '47 Stevenson W. Chase '41 David P. Curry '65 Edwin J. Dietz '29 J. Douglas Dobbie '50 William J. Dupree '28 Robert L. Falace '37 William H. Gullip '21 H. Boyce Gully '33 Donald E. Henry '58 Barbara L. Harrington '33 Larry Herz '50 Ivring H. Hulse '30 Clyde E. Johnston '34 Franklin F. Kane '26 Donald E. Jones '28 William M. Lawrence '38 William A. Lawrie '29 Betty Mackintosh '87 Katherine H. Measer '33 Gary L. Nelson '58 Glenn D. Nice '41 William F. O'Connor '60 Richard F. Pundleton '42 John S. Ritter '41 Foster B. Sands '42 Lewie G. Schanzenmaier, Jr. '52 Douglas D. Sergeant '86 Moode Summers '26 Charles Truman '42 Julia C. Wagner '27

A Senior Looks Back

As I look back on the past four years, it almost seems impossible that graduation is upon me. I'm sure that many Cornell alumni have shared this sentiment at the end of their undergraduate years. These four years have been the most formative in my life, creating the person I am today. I came to Cornell from a small dairy farm in southeastern New York, quiet and naive, but determined and full of energy. I am leaving as an open-minded, ambitious, and well-spoken adult.

Each year at Cornell has taught me something special. As a freshman, I learned just how much I appreciated and missed my parents and how to cope with homesickness. I found myself traveling home every other weekend to see my family and friends because I felt lost in this new environment.

As a sophomore, I became comfortable at Cornell and started to refer to Ithaca as home. I also learned the vital skills of living off campus, such as paying bills and cleaning (I'm still working on cooking).

Junior year taught me the value of involvement in activities and to make the most of everything you do. These activities have given me the opportunity to meet many people that I otherwise would not have met, including some of my best friends.

As a senior, I've learned that there is so much more to an education than grades. So often it's not what you learn in the classroom, but what you learn about life. I once thought a 4.0 GPA was essential to have a great career. I know different now.

I feel so lucky to have been a part of this university. But when I first set foot on campus, I was in awe. My first thought was that this campus is so huge and there are so many students, how could I matter? I have learned that each student gets a different experience from Cornell. And the outcome of that experience depends on what you put into it. A university that seemed like a metropolis is now more like a warm, friendly small town.

As the class of '99 heads out to their various endeavors, the transition into adult life will be made smoother just by the fact that they are Cornell graduates. Because no matter where you go, it seems there is always a fellow alumnus around the corner.

Harriet Pimm '99



Moving or Just Heading North for the Summer?

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,
276 Roberts Hall
College of Agriculture and Life Sciences
Cornell University
Ithaca, NY 14853-4203

Name _____
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until _____
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ALS NEWS

Agriculture & Life Sciences News is published three times a year by the College of Agriculture and Life Sciences, a unit of the State University of New York, Cornell University, Ithaca, N.Y. Cornell University is an equal opportunity, affirmative action educator and employer.

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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:

- | | | |
|--|--------------------------------|--------------------------------|
| <input type="checkbox"/> Taughanock Falls...Winter Morning | 10" x 13" prints at \$10 each. | 15" x 17" prints at \$20 each. |
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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.

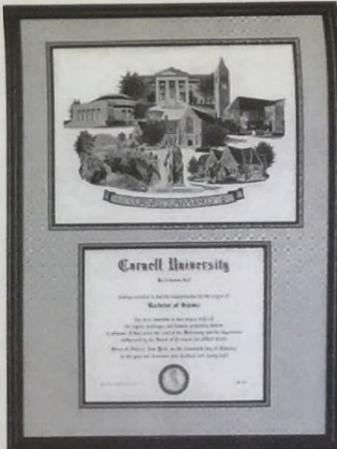
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Name _____
Address _____
City _____ State/Country _____ Zip _____
This is a gift order. Please mail to above individual, and enclose a card reading _____

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
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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**.

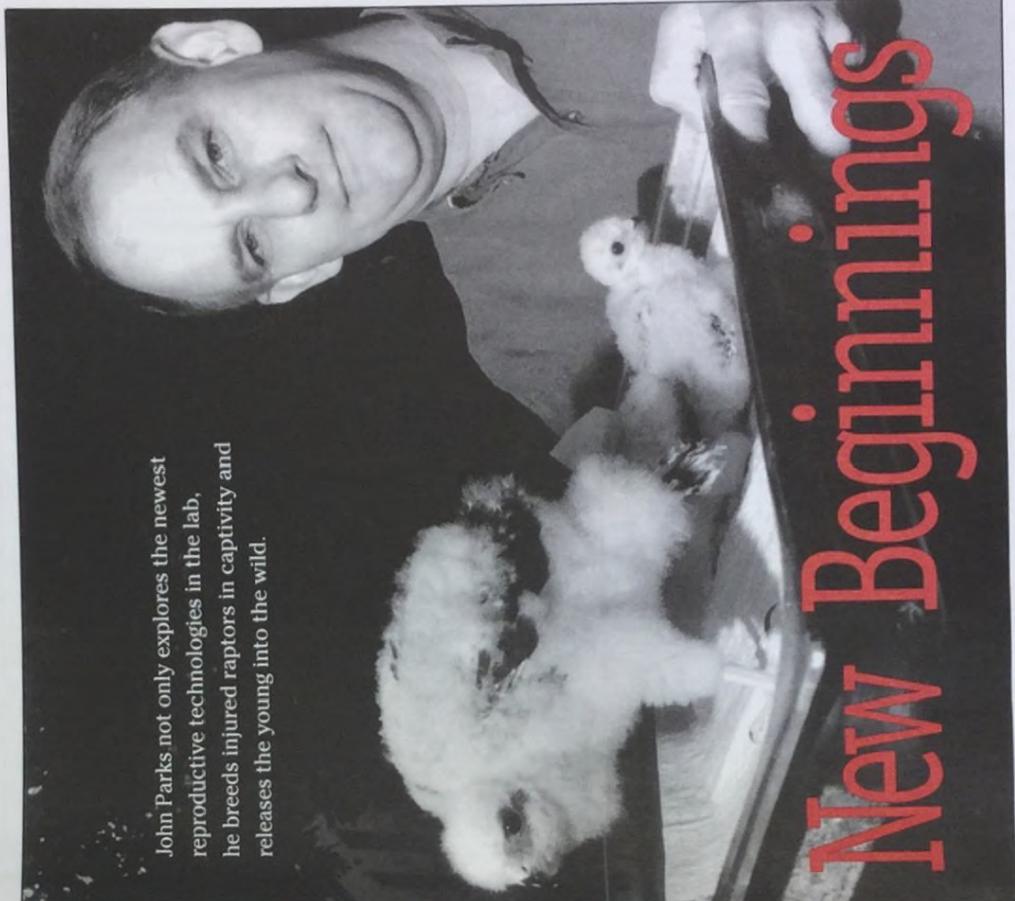
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ALS NEWS

Agriculture and Life Sciences
May 1999



John Parks not only explores the newest reproductive technologies in the lab, he breeds injured raptors in captivity and releases the young into the wild.

New Beginnings

1999 CALENDAR



May 4
Dean/Alumni Get Together for Yates, Schuyler, and Chenango counties. For details, contact district director Clarence Parker '58 at (607) 594-2171.

May 6
Dean/Alumni Get Together for Broome and Tioga counties. For details, contact district director Ron Cooke '91 at (607) 849-3748 or email: rcooke1001@aol.com

May 11
Join ALS Alumni Association members for a theater production of the play *Fame* at Proctor's Theatre in Schenectady, N.Y. For details, contact Lynn Leitner Hickey '95 at (518) 374-8565.

May 25
Senior and Grad BBQ on the Ag Quad, sponsored by the ALS Alumni Association and the Office of Academic Programs. For details, contact Tim Oank '66, Associate Director, ALS Alumni Affairs, (607) 255-7651 or email: tjo7@cornell.edu

May 30
Commencement

June 4
11th Annual 4-H Open Golf Tournament at the Robert Trent Jones Golf Course at Cornell, 8 a.m. shotgun start. For details, contact Linda Warner at the NYS 4-H Foundation at (607) 255-2239.

June 10-13
Reunion Weekend

June 12
ALS Alumni Association Reunion Breakfast, 7:30 a.m., Clarion University Hotel and Conference Center (formerly Triphammer Lodge & Conference Center on Sheraton Drive) See announcement and RSVP form on page 6.

CORNELL UNIVERSITY
Alumni Affairs and Development
276 Roberts Hall
College of Agriculture and Life Sciences
Cornell University
Ithaca, New York 14853-4203

Dated Material
May 1999

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5 Plantations Offers New Courses

6 Reunion Breakfast Reservation Form



June 27
Join fellow ALS alumni and the agriculture community for the annual Saratoga County Farm Tour Breakfast. For more information contact district director Mike Valla '76 at (518) 584-4215 or email: toothhead@aol.com

July 7-10
"CU in the Finger Lakes" National Agricultural Alumni and Development Association, Inc. (NAADA) 1999 Conference hosted by the ALS College and the ALS Alumni Association. ALS alumni are invited to participate in a pre-conference golf tournament, Wed., July 7, starting at 8 a.m., contact Jim Pratt at (607) 255-6809; and the Land-Grant Alumni Chicken BBQ at the NYS Agricultural Experiment Station in Geneva, Sat., July 10, at 5:30 p.m. (see page 11). For details, contact Linda Wyllie at the ALS Alumni Affairs Office at (607) 255-7651 or email: llw8@cornell.edu or Dave Teltor '65, NAADA steering board co-chair at (914) 868-7796.

July 16
ALS alumni in Central and Western New York State are invited to a Keuka Maid boat cruise, Hammondsport, N.Y., 6-9 pm. Contact district director Durland Weale '44 at (607) 359-2179.

July 18
2nd annual ALS Family Fling at the Junior Livestock Show in Cooperstown, N.Y. For details, contact Deb Windecker '90 at (315) 866-4221 or Carol Keene Ainslie '90 at (315) 858-2770.

September 24
Outstanding Alumni Awards Banquet, Statler Ballroom, Statler Hotel. Contact Linda Wyllie at (607) 255-7651, llw8@cornell.edu

September 24-25
ALS Alumni Association committee meetings and board of directors meeting

October 7-9
Trustee/Council Weekend
Cornell vs. Harvard football game

November 5-7
Homecoming Weekend

November 6
Cornell vs. Yale football game
ALS Alumni Association tailgate party before the game, Kite Hill



Visit the College of Agriculture and Life Sciences' Web site:
www.cals.cornell.edu

Or go directly to the ALS Alumni Association: www.cals.cornell.edu/alumni/alumni.htm